

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART C & SUBPART L and PART 90 S REQUIREMENT

OF

Product Name: Vehicle Mount Computer
Brand Name: Honeywell
Marketing Name: Thor VM3
Model No.: VM3WWANUS
Model Difference: N/A
FCC ID: HD5-VM3WWANA
Report No.: ER/2015/20030
Issue Date: Mar. 27, 2015
FCC Rule Part: 2 , 22H & 24E & 27C & L & 90S
Prepared for: Honeywell International Inc.,
Honeywell Scanning and Mobility
9680 Old Baires Road, Fort Mill, SC 29707, USA
Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Honeywell International Inc.,
Honeywell Scanning and Mobility
9680 Old Bailes Road, Fort Mill, SC 29707, USA

Product Name: Vehicle Mount Computer

Brand Name: Honeywell

Marketing Name: Thor VM3

Model No.: VM3WWANUS

Model Difference: N/A

FCC ID: HD5-VM3WWANA

File Number: ER/2015/20030

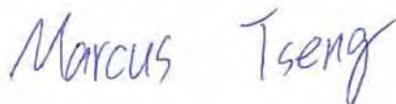
Date of test: Feb. 04, 2015 ~ Mar. 27, 2015

Date of EUT Received: Feb. 04, 2015

We hereby certify that:

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

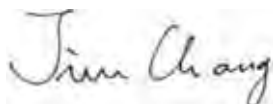
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Mar. 27, 2015

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

Mar. 27, 2015

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

Mar. 27, 2015

Jim Chang / Supervisor

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Revision History

Report Number	Revision	Description	Issue Date
ER/2015/20030	Rev.00	Initial creation of document	Mar. 27, 2015

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Vehicle Mount Computer	
Brand Name:	Honeywell	
Marketing Name:	Thor VM3	
Model No.:	VM3WWANUS	
Model Difference:	N/A	
Product SW/HW version:	(a)Win7: 99.01.00.0002 (b)Win8: 99.01.00.0004 / ALXH48	
Radio SW/HW version:	SWI9x15C_05.05.16.02 / 1.0,1.1	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	7.3Vdc from Rechargeable Li-ion Battery or 15V from AC/DC Adapter	
	Battery:	Model No.: L3-52301624-R / OVT270L1R00 / 50121692-001, Supplier: TOTEX
	Adapter :	Model No.: GT-81081-6015-T3, Supplier: GlobTek, Inc.
IMEI:	359225050297850	

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GPRS / WCDMA/ CDMA:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GPRS 850	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850	824.2 MHz– 848.8 MHz	27dBm
	GPRS 1900	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	CDMA/EVDO BC0	824.7 MHz– 848.31MHz	24 dBm
	CDMA/EVDO BC1	1851.25MHz-1908.75MHz	24 dBm
	CDMA/EVDO BC10	817.9 MHz – 823.1 MHz	24 dBm

LTE:

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

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Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 5 (Bandwidth 1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (Bandwidth 3MHz)	825.5MHz – 848.3MHz	23dBm
	LTE-Band 5 (Bandwidth 5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (Bandwidth 10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 13 (Bandwidth 5MHz)	779.5MHz – 784.5MHz	23 dBm
	LTE-Band 13 (Bandwidth 10MHz)	782.0MHz – 782.0MHz	23 dBm
	LTE-Band 17 (Bandwidth 5MHz)	706.5MHz – 713.5MHz	23dBm
	LTE-Band 17 (Bandwidth 10MHz)	709.0MHz – 711.0MHz	23dBm
	LTE-Band 25 (Bandwidth 1.4MHz)	1850.7MHz – 1914.3MHz	23dBm
	LTE-Band 25 (Bandwidth 3MHz)	1851.5MHz – 1913.5MHz	23dBm
	LTE-Band 25 (Bandwidth 5MHz)	1852.5MHz – 1912.5MHz	23dBm
	LTE-Band 25 (Bandwidth 10MHz)	1855.0MHz – 1910.0MHz	23dBm
	LTE-Band 25 (Bandwidth 15MHz)	1857.5MHz – 1907.5MHz	23dBm
	LTE-Band 25 (Bandwidth 20MHz)	1860.0MHz – 1905.0MHz	23dBm

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Type of Emission:	GPRS 850	250KGXW
	EDGE 850	247KG7W
	GPRS 1900	243KGXW
	EDGE 1900	247KG7W
	WCDMA Band II	4M18F9W
	HSDPA Band II	4M15F9W
	HSUPA Band II	4M17F9W
	WCDMA Band IV	4M16F9W
	HSDPA Band IV	4M17F9W
	HSUPA Band IV	4M16F9W
	WCDMA Band V	4M16F9W
	HSDPA Band V	4M16F9W
	HSUPA Band V	4M17F9W
	CDMA BC0	1M27F9W
	EVDO BC0	1M27F9W
	CDMA BC1	1M27F9W
	EVDO BC1	1M27F9W
	CDMA BC10	1M27F9W
	EVDO BC10	1M27F9W
	LTE-Band 2 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 2 (Bandwidth 3MHz) QPSK	2M72G7D
	LTE-Band 2 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 2 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 2 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 2 (Bandwidth 10MHz) QPSK	9M03G7D
	LTE-Band 2 (Bandwidth 10MHz) 16QAM	8M98D7W
	LTE-Band 2 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 2 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 2 (Bandwidth 20MHz) QPSK	18M0G7D
	LTE-Band 2 (Bandwidth 20MHz) 16QAM	18M0D7W
	LTE-Band 4 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 4 (Bandwidth 3MHz) QPSK	2M71G7D
	LTE-Band 4 (Bandwidth 3MHz) 16QAM	2M72D7W
	LTE-Band 4 (Bandwidth 5MHz) QPSK	4M52G7D
	LTE-Band 4 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 4 (Bandwidth 10MHz) QPSK	9M01G7D
	LTE-Band 4 (Bandwidth 10MHz) 16QAM	8M97D7W
	LTE-Band 4 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 4 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 4 (Bandwidth 20MHz) QPSK	17M9G7D
	LTE-Band 4 (Bandwidth 20MHz) 16QAM	17M9D7W

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Type of Emission:	LTE-Band 5 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 5 (Bandwidth 3MHz) QPSK	2M71G7D
	LTE-Band 5 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 5 (Bandwidth 5MHz) QPSK	4M50G7D
	LTE-Band 5 (Bandwidth 5MHz) 16QAM	4M50D7W
	LTE-Band 5 (Bandwidth 10MHz) QPSK	9M00G7D
	LTE-Band 5 (Bandwidth 10MHz) 16QAM	8M98D7W
	LTE-Band 13 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 13 (Bandwidth 5MHz) 16QAM	4M53D7W
	LTE-Band 13 (Bandwidth 10MHz) QPSK	8M90G7D
	LTE-Band 13 (Bandwidth 10MHz) 16QAM	8M93D7W
	LTE-Band 17 (Bandwidth 5MHz) QPSK	4M52G7D
	LTE-Band 17 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 17 (Bandwidth 10MHz) QPSK	9M01G7D
	LTE-Band 17 (Bandwidth 10MHz) 16QAM	8M97D7W
	LTE-Band 25 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 25 (Bandwidth 1.4MHz) 16QAM	1M11D7W
	LTE-Band 25 (Bandwidth 3MHz) QPSK	2M71G7D
	LTE-Band 25 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 25 (Bandwidth 5MHz) QPSK	4M50G7D
	LTE-Band 25 (Bandwidth 5MHz) 16QAM	4M49D7W
	LTE-Band 25 (Bandwidth 10MHz) QPSK	8M98G7D
	LTE-Band 25 (Bandwidth 10MHz) 16QAM	8M95D7W
	LTE-Band 25 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 25 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 25 (Bandwidth 20MHz) QPSK	17M9G7D
	LTE-Band 25 (Bandwidth 20MHz) 16QAM	18M0D7W

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Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	26.04	ERP	0.402
EDGE 850 Band	24.11	ERP	0.258
GPRS 1900 Band	31.95	EIRP	1.567
EDGE 1900 Band	29.95	EIRP	0.989
WCDMA Band II	26.96	EIRP	0.497
HSDPA Band II	27.46	EIRP	0.557
HSUPA Band II	27.02	EIRP	0.504
WCDMA Band IV	28.43	EIRP	0.697
HSDPA Band IV	29.12	EIRP	0.817
HSUPA Band IV	28.65	EIRP	0.733
WCDMA Band V	21.23	ERP	0.133
HSDPA Band V	21.97	ERP	0.157
HSUPA Band V	21.78	ERP	0.151
CDMA 2000 BC0	21.78	ERP	0.151
EVDO 2000 BC0	21.60	ERP	0.145
CDMA 2000 BC1	25.57	EIRP	0.361
EVDO 2000 BC1	24.71	EIRP	0.296
CDMA 2000 BC10	21.38	ERP	0.137
EVDO 2000 BC10	20.98	ERP	0.125
LTE Band 2/1.4MMz /QPSK RB 1 Offset 0	29.67	EIRP	0.927
LTE Band 2/1.4MMz /16QAM RB 1 Offset 0	30.70	EIRP	1.175
LTE Band 2/3MMz /QPSK RB 1 Offset 0	29.57	EIRP	0.906
LTE Band 2/3MMz /16QAM RB 1 Offset 0	30.39	EIRP	1.094
LTE Band 2/5MMz /QPSK RB 1 Offset 0	29.70	EIRP	0.933
LTE Band 2/5MMz /16QAM RB 1 Offset 0	30.46	EIRP	1.112
LTE Band 2/10MMz /QPSK RB 1 Offset 0	28.97	EIRP	0.789
LTE Band 2/10MMz /16QAM RB 1 Offset 0	29.51	EIRP	0.893
LTE Band 2/15MMz /QPSK RB 1 Offset 0	29.72	EIRP	0.938
LTE Band 2/15MMz /16QAM RB 1 Offset 0	30.57	EIRP	1.140
LTE Band 2/20MMz /QPSK RB 1 Offset 0	29.53	EIRP	0.897
LTE Band 2/20MMz /16QAM RB 1 Offset 0	30.06	EIRP	1.014

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LTE Band 4/1.4MMz /QPSK RB 1 Offset 0	29.20	EIRP	0.832
LTE Band 4/1.4MMz /16QAM RB 1 Offset 5	29.45	EIRP	0.881
LTE Band 4/3MMz /QPSK RB 1 Offset 0	29.29	EIRP	0.849
LTE Band 4/3MMz /16QAM RB 1 Offset 0	29.53	EIRP	0.897
LTE Band 4/5MMz /QPSK RB 1 Offset 0	29.13	EIRP	0.818
LTE Band 4/5MMz /16QAM RB 1 Offset 0	29.29	EIRP	0.849
LTE Band 4/10MMz /QPSK RB 1 Offset 0	28.97	EIRP	0.789
LTE Band 4/10MMz /16QAM RB 1 Offset 0	29.42	EIRP	0.875
LTE Band 4/15MMz /QPSK RB 1 Offset 0	29.10	EIRP	0.813
LTE Band 4/15MMz /16QAM RB 1 Offset 74	29.74	EIRP	0.942
LTE Band 4/20MMz /QPSK RB 1 Offset 99	29.08	EIRP	0.809
LTE Band 4/20MMz /16QAM RB 1 Offset 99	29.72	EIRP	0.938
LTE Band 5/1.4MMz /QPSK RB 1 Offset 0	23.44	ERP	0.221
LTE Band 5/1.4MMz /16QAM RB 1 Offset 0	24.04	ERP	0.254
LTE Band 5/3MMz /QPSK RB 1 Offset 0	23.15	ERP	0.207
LTE Band 5/3MMz /16QAM RB 1 Offset 0	23.60	ERP	0.229
LTE Band 5/5MMz /QPSK RB 1 Offset 0	23.06	ERP	0.202
LTE Band 5/5MMz /16QAM RB 1 Offset 0	23.72	ERP	0.236
LTE Band 5/10MMz /QPSK RB 1 Offset 0	23.25	ERP	0.211
LTE Band 5/10MMz /16QAM RB 1 Offset 0	23.90	ERP	0.245
LTE Band 13/5MMz /QPSK RB 1 Offset 0	23.22	ERP	0.210
LTE Band 13/5MMz /16QAM RB 1 Offset 0	23.78	ERP	0.239
LTE Band 13/10MMz /QPSK RB 1 Offset 0	23.26	ERP	0.212
LTE Band 13/10MMz /16QAM RB 1 Offset 0	23.93	ERP	0.247
LTE Band 17/5MMz /QPSK RB 1 Offset 0	20.98	ERP	0.125
LTE Band 17/5MMz /16QAM RB 1 Offset 0	22.32	ERP	0.171
LTE Band 17/10MMz /QPSK RB 1 Offset 0	21.06	ERP	0.128
LTE Band 17/10MMz /16QAM RB 1 Offset 0	22.22	ERP	0.167
LTE Band 25/1.4MMz /QPSK RB 1 Offset 5	29.35	EIRP	0.861
LTE Band 25/1.4MMz /16QAM RB 1 Offset 5	30.38	EIRP	1.091
LTE Band 25/3MMz /QPSK RB 1 Offset 0	29.21	EIRP	0.834
LTE Band 25/3MMz /16QAM RB 1 Offset 0	29.97	EIRP	0.993
LTE Band 25/5MMz /QPSK RB 1 Offset 0	29.36	EIRP	0.863
LTE Band 25/5MMz /16QAM RB 1 Offset 0	30.02	EIRP	1.005
LTE Band 25/10MMz /QPSK RB 1 Offset 0	29.32	EIRP	0.855
LTE Band 25/10MMz /16QAM RB 1 Offset 0	29.84	EIRP	0.964
LTE Band 25/15MMz /QPSK RB 1 Offset 0	29.33	EIRP	0.857
LTE Band 25/15MMz /16QAM RB 1 Offset 0	30.28	EIRP	1.067
LTE Band 25/20MMz /QPSK RB 1 Offset 0	29.19	EIRP	0.830
LTE Band 25/20MMz /16QAM RB 1 Offset 0	29.66	EIRP	0.925

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Vehicle Mount Computer supporting, GSM / WCDMA / CDMA / LTE,

Wi-Fi 802.11abgn, Bluetooth with GPS features, and below is details of information.

Product Feature	
Product Name:	Vehicle Mount Computer
Brand Name:	Honeywell
Marketing Name:	Thor VM3
Model No.:	VM3WWANUS
Model Difference:	N/A
FCC ID	HD5-VM3WWANA
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 10 / Class 12
CDMA / EVDO	BC0 / BC1 / BC10
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
LTE Operating Band(s)	FCC Band 2 / 4 / 5 / 13 / 17 / 25
LTE Rel. Version	Rel.9
Wi-Fi Specification	802.11a/b/g/n
Bluetooth Version	V4.1 dual mode + HS

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

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1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27, Part 90S.

ANSI / TIA / EIA 603C-C-2004

KDB971168 D01 Power Meas license Digital System v02r01

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

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

Note:

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

1.4. Test Facility

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

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-4..

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

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2.4. Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

Following shows an offset computation example with cable loss and attenuator.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =14.8(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =15.2(dB)

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2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	15V	283
GSM 1900	15V	212
EDGE 850	15V	229
EDGE 1900	15V	253
WCDMA B2	15V	549
WCDMA B4	15V	481
WCDMA B5	15V	451
CDMA BC0	15V	797
CDMA BC1	15V	560
CDMA BC10	15V	394
LTE Band 2	15V	875
LTE Band 4	15V	836
LTE Band 5	15V	845
LTE Band 13	15V	839
LTE Band 17	15V	825
LTE Band 25	15V	841

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2.6. Configuration of Tested System

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

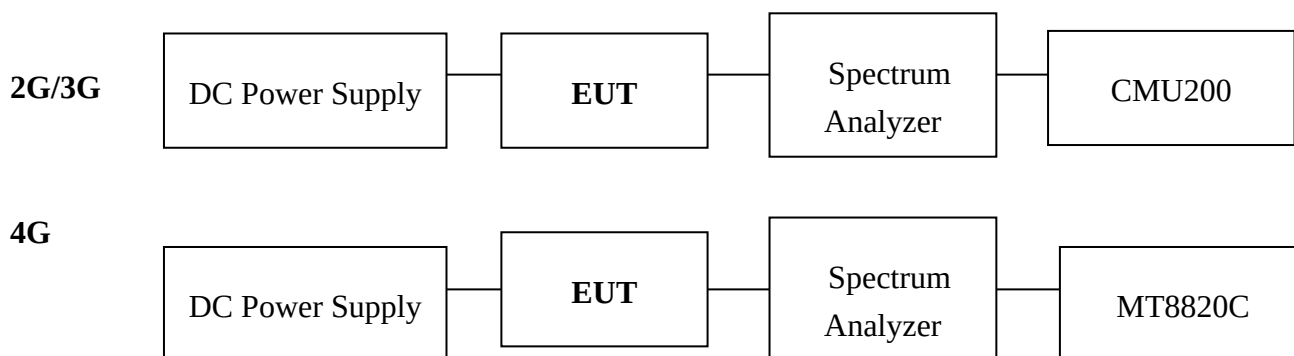


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

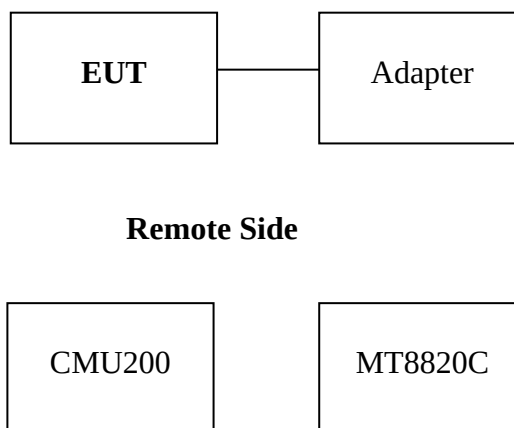


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded
3.	DC Power Supply	HP	E3640A	MY40005907	shielded	Un-shielded

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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) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4) §90.691	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(f) §27.53(m)(4) §90.691(a)(1)(2)	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 §90.231	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

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

BAND	ERP/EIRP	RADIATED EMISSION
GPRS/EDGE 850	H-plan	H-plan
GPRS/EDGE 1900	H-plan	H-plan
WCDMA/HSPA Band II	H-plan	H-plan
WCDMA/HSPA Band IV	H-plan	H-plan
WCDMA/HSPA Band V	H-plan	H-plan
CDMA / EVDO BC 0	H-plan	H-plan
CDMA / EVDO BC 1	H-plan	H-plan
CDMA / EVDO BC 10	H-plan	H-plan
LTE Band 2 / 4 / 5/ 13 /17 /25	H-plan	H-plan

GSM/GPRS/EDGE MODE

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

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WCDMA/HSPA MODE

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

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CDMA/EVDO MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	1013 to 777 476 to 684	1013, 384, 777 476, 580, 684	CDMA/EVDO BC0 CDMA/EVDO BC10
EIRP	25 to 1175	25, 600, 1175	CDMA/EVDO BC1
FREQUENCY STABILITY	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10
OCCUPIED BANDWIDTH	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA/EVDO BC0 CDMA/EVDO BC1 CDMA/EVDO BC10
PEAK TO AVERAGE RATIO	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA/EVDO BC0 CDMA/EVDO BC1 CDMA/EVDO BC10
BAND EDGE	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10
CONDCUDETED EMISSION	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10
EMISSION MASK	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10
RADIATED EMISSION	1013 to 777 25 to 1175 476 to 684	1013, 384, 777 25, 600, 1175 476, 580, 684	CDMA BC0 CDMA BC1 CDMA BC10

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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 Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
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 Offset Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offset
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offset
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offset
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offset
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offset
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB/ 5 RB Offset
RADIATED EMISSION Antenna Model NO.: TRA6927M3	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	1 RB/ 0 RB Offset

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	1957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	1965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	1957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	1965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	1957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	1965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
BAND EDGE	1957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	1965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDCUDED EMISSION	1957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offset
	1965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offset
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offset
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offset
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offset
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	19975 to 20375	19975, 20175, 20375	5MHz	16QAM,	1 RB/ 0 RB Offset
RADIATED EMISSION Antenna Model NO.: TRA6927M3	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	1 RB/ 74 RB Offset

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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 Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	20415 to 20635	20415, 20525, 20635	3MHz	16QAM,	1 RB/ 0 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	20407 to 20643	20407, 20525, 20643	1.4MHz	16QAM,	1 RB/ 0 RB Offset

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDUCTED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offset
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	23230	23230	10MHz	16QAM,	1 RB/ 0 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	23230	23230	10MHz	16QAM,	1 RB/ 0 RB Offset

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LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDUCTED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offset
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	23755 to 23825	23755, 23790, 23825	5MHz	16QAM,	1 RB/ 24 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	23755 to 23825	23755, 23790, 23825	5MHz	16QAM,	1 RB/ 0 RB Offset

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LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	26096 to 26640	26365	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK, 16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK, 16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	27047 to 26683	27047, 26365, 26683	1.4MHz	16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	16QAM	Full RB
	26096 to 26640	26096, 26365, 26640	10MHz	16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	16QAM	Full RB
BAND EDGE	27047 to 26683	27047, 26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offset Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK,	1 RB/ 0,14 RB Offset Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	26096 to 26640	26096, 26640	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDCUDED EMISSION	27047 to 26683	27047, 26365, 26683	1.4MHz	QPSK,	1 RB, 0 RB Offset
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK,	1 RB, 0 RB Offset
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offset
	26096 to 26640	26096, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offset
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB, 0 RB Offset
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	26065 to 26665	26065, 26365, 26665	5MHz	16QAM,	1 RB/ 0 RB Offset
RADIATED EMISSION Antenna Model NO.: CVL-WLF-2V-Blk-12	26047 to 26683	26047, 26365, 26683	1.4MHz	16QAM,	1 RB/ 5 RB 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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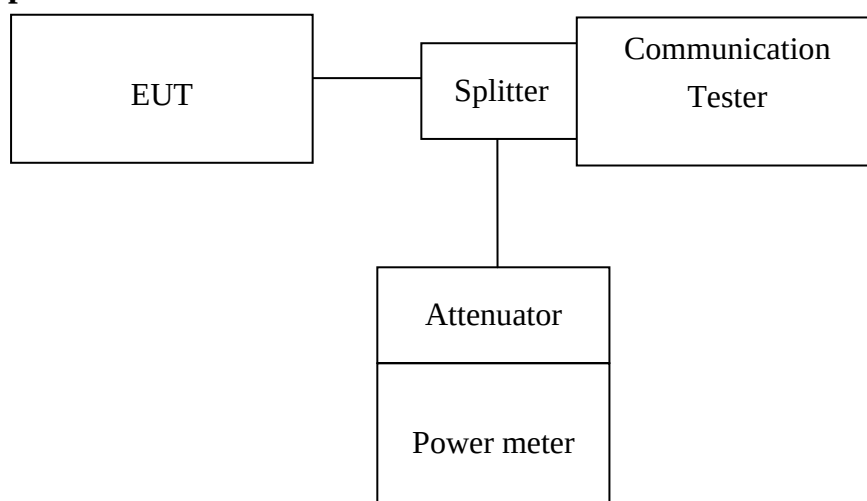
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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	12/20/2014	12/19/2015
Power Sensor	Anritsu	MA2411B	917032	12/20/2014	12/19/2015
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2 +	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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6.5. Measurement Result

RF Conducted Output Power

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

EUT Mode	Frequency (MHz)	CH	Peak Power (4DN 1UP) Class 8 (dBm)	Average Burst Power (4DN 1UP) Class 8 (dBm)	Peak Power (4DN 2UP) Class 10 (dBm)	Average Burst Power (4DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.90	32.50	32.80	32.40
	836.6	190	32.80	32.40	32.70	32.30
	848.8	251	32.60	32.30	32.50	32.20
GPRS 1900	1850.2	512	30.20	29.90	30.10	29.80
	1880.0	661	30.20	30.00	30.20	29.90
	1909.8	810	30.10	30.00	30.10	30.00

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)
EDGE 850	824.2	128	30.00	26.80	29.90	26.70	29.70	26.60	29.50	26.40
	836.6	190	30.00	26.90	29.90	26.70	29.70	26.60	29.60	26.50
	848.8	251	29.90	26.80	29.90	26.80	29.70	26.60	29.60	26.50
EDGE 1900	1850.2	512	28.60	25.50	28.60	25.40	28.40	25.20	28.40	25.10
	1880.0	661	28.80	25.60	28.70	25.60	28.60	25.40	28.50	25.30
	1909.8	810	28.80	25.70	28.80	25.70	28.60	25.50	28.60	25.40

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CDMA2000/EVDO Result:

EUT Mode	Frequency (MHz)	CH	CDMA	EVDO
			Avg. Power (dBm)	Avg. Power (dBm)
BC0	824.7	1013	24.42	24.22
	836.52	384	24.51	24.30
	848.31	777	24.42	24.28
BC1	1851.25	25	23.71	24.53
	1880	600	23.99	24.55
	1908.75	1175	23.98	24.60
BC10	817.9	476	24.53	24.15
	820.5	580	24.55	24.22
	823.1	684	24.60	24.36

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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	27.12	23.61	26.91	22.98	26.40	22.40
1880.0	9400	27.18	23.64	26.74	23.08	26.17	22.42
1907.6	9538	27.13	23.74	26.81	23.15	26.25	22.41

EUT Mode		WCDMA Band IV		HSDPA Band IV		HSUPA Band IV	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1712.4	1312	27.44	23.86	27.22	23.33	26.63	22.69
1732.6	1412	26.92	23.73	26.95	23.27	26.40	22.57
1752.6	1513	27.39	23.84	27.36	23.46	26.73	22.83

EUT Mode		WCDMA Band V		HSDPA Band V		HSUPA Band V	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
826.4	4132	26.88	23.53	26.44	22.85	26.04	22.26
836.6	4183	26.88	23.51	26.61	22.88	26.13	22.28
846.6	4233	26.89	23.50	26.70	22.92	26.23	22.33

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

Cable loss offset: Low Band: 14.8dB, High Band: 15.2dB

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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	23.60	23.33	23.62	22.57	22.61	22.63
	1	5	23.74	23.69	23.74	22.52	22.64	22.72
	3	2	23.43	23.71	23.79	22.61	22.70	22.81
	6	0	22.63	22.75	22.85	21.54	21.61	21.79

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185	Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185
3	1	0	23.65	23.72	23.74	22.53	22.70	22.61
	1	14	23.66	23.65	23.79	22.63	22.59	22.72
	8	4	22.65	22.63	22.73	21.54	21.60	21.69
	15	0	22.55	22.65	22.63	21.56	21.55	21.58

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175	Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175
5	1	0	23.46	23.49	23.31	22.27	22.46	22.37
	1	24	23.44	23.34	23.74	22.21	22.33	22.48
	12	6	22.36	22.40	22.53	21.52	21.41	21.49
	25	0	22.25	22.28	22.36	21.22	21.26	21.28

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150	Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150
10	1	0	23.45	23.44	23.42	22.40	22.43	22.38
	1	49	23.45	23.27	23.62	22.34	22.29	22.56
	25	12	22.13	22.35	22.21	21.11	21.23	21.26
	50	0	21.98	22.05	22.03	21.00	21.03	21.12

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125	Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125
15	1	0	23.51	23.47	23.26	22.40	22.38	22.21
	1	74	23.39	23.29	23.60	22.28	22.42	22.57
	36	19	22.14	22.15	22.22	21.18	21.16	21.15
	75	0	22.11	21.91	22.17	21.11	21.04	21.08

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100	Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100
20	1	0	23.50	23.46	23.41	22.39	22.32	22.40
	1	99	23.33	23.42	23.44	22.18	22.13	22.41
	50	25	22.13	22.10	21.94	21.07	21.00	21.11
	100	0	22.10	22.21	22.17	21.10	21.10	21.07

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LTE Band 4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393	Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393
1.4	1	0	23.62	23.62	23.50	22.52	22.49	22.24
	1	5	23.30	23.63	23.55	22.48	22.55	22.52
	3	2	23.40	23.53	23.54	22.42	22.60	22.44
	6	0	22.60	22.60	22.50	21.60	21.57	21.58

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385	Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385
3	1	0	23.56	23.50	23.46	22.32	22.54	22.62
	1	14	23.73	23.57	23.46	22.70	22.60	22.58
	8	4	22.62	22.58	22.39	21.64	21.55	21.48
	15	0	22.61	22.48	22.51	21.59	21.51	21.35

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375	Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375
5	1	0	23.68	23.60	23.33	22.48	22.56	22.59
	1	24	23.61	23.76	23.64	22.54	22.56	22.46
	12	6	22.64	22.44	22.55	21.70	21.70	21.54
	25	0	22.52	22.42	22.38	21.49	21.39	21.41

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350	Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350
10	1	0	23.61	23.74	23.60	22.60	22.48	22.60
	1	49	23.67	23.59	23.63	22.59	22.44	22.34
	25	12	22.42	22.37	22.35	21.36	21.39	21.38
	50	0	22.25	22.28	22.04	21.20	21.23	21.22

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325	Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325
15	1	0	23.65	23.70	23.63	22.67	22.53	22.58
	1	74	23.61	23.45	23.60	22.26	22.42	22.23
	36	19	22.41	22.40	22.27	21.37	21.37	21.33
	75	0	22.33	22.33	22.17	21.32	21.29	21.25

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300	Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300
20	1	0	23.42	23.63	23.62	22.70	22.73	22.68
	1	99	23.53	23.50	23.77	22.48	22.30	22.43
	50	25	22.32	22.37	22.26	21.37	21.29	21.28
	100	0	22.36	22.34	22.35	21.37	21.31	21.40

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LTE Band 5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643	Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643
1.4	1	0	23.09	23.05	23.07	21.99	21.81	22.06
	1	5	23.15	23.22	23.01	22.17	22.27	21.87
	3	2	23.17	23.03	23.02	22.18	22.09	22.04
	6	0	22.17	22.18	22.12	21.24	21.18	21.15

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	23.07	23.05	22.99	21.67	22.07	21.81
	1	14	23.19	23.32	22.95	22.17	21.98	21.75
	8	4	22.11	22.21	24.02	21.08	21.15	23.06
	15	0	22.12	22.18	24.16	21.08	21.18	23.45

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	23.11	23.18	23.09	22.17	21.61	22.02
	1	24	22.95	23.23	23.01	22.14	21.89	21.85
	12	6	22.18	22.09	21.92	21.18	21.24	21.17
	25	0	22.03	22.06	22.00	20.94	21.10	20.95

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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) 20450	Channel (Mid) 20525	Channel (High) 20600	Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600
10	1	0	23.15	23.12	23.10	21.98	22.15	22.14
	1	49	23.15	23.29	23.01	22.14	22.19	22.06
	25	12	22.08	22.16	22.07	21.03	21.05	21.13
	50	0	21.94	22.04	21.95	20.89	20.98	21.03

LTE Band 13

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255	Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255
5	1	0	23.54	23.43	23.63	22.31	22.23	22.62
	1	24	23.59	23.63	23.47	22.54	22.38	22.44
	12	6	22.33	22.51	22.45	21.31	21.55	21.41
	25	0	22.25	22.47	22.43	21.18	21.39	21.36

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel 23230			Channel 23230		
10	1	0	23.76			22.62		
	1	49	23.72			22.65		
	25	12	22.81			21.64		
	50	0	22.54			21.66		

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LTE Band 17

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23755	Channel (Mid) 20790	Channel (High) 20825	Channel (Low) 23755	Channel (Mid) 20790	Channel (High) 20825
5	1	0	23.47	23.74	23.74	21.94	22.74	22.50
	1	24	23.58	23.54	23.18	22.62	22.29	22.12
	12	6	22.39	22.66	22.37	21.45	21.68	21.41
	25	0	22.41	22.53	22.23	21.35	21.53	21.19

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800	Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800
10	1	0	23.42	23.39	23.49	21.74	22.26	22.06
	1	49	23.24	23.40	23.22	22.47	22.51	22.28
	25	12	22.60	22.57	22.46	21.51	21.46	21.49
	50	0	22.36	22.33	22.33	21.41	21.31	21.28

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LTE Band 25

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26047	Channel (Mid) 26365	Channel (High) 26683	Channel (Low) 26047	Channel (Mid) 26365	Channel (High) 26683
1.4	1	0	23.20	23.15	23.58	22.10	21.96	22.44
	1	5	23.29	23.32	23.52	22.18	22.27	22.43
	3	2	23.20	23.27	23.45	22.18	22.32	22.41
	6	0	22.19	22.27	22.42	21.20	21.32	21.50

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26055	Channel (Mid) 26365	Channel (High) 26675	Channel (Low) 26055	Channel (Mid) 26365	Channel (High) 26675
3	1	0	23.13	23.16	23.39	21.95	22.15	22.40
	1	14	23.10	23.23	23.32	21.89	22.14	22.39
	8	4	22.24	22.26	22.50	21.17	21.17	21.45
	15	0	22.13	22.28	22.45	21.13	21.25	21.45

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26065	Channel (Mid) 26365	Channel (High) 26665	Channel (Low) 26065	Channel (Mid) 26365	Channel (High) 26665
5	1	0	23.23	23.21	23.50	21.92	22.16	22.22
	1	24	23.17	23.29	23.49	22.07	22.17	22.41
	12	6	22.21	22.25	22.39	21.21	21.29	21.31
	25	0	22.00	21.96	22.22	21.04	21.11	21.21

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26090	Channel (Mid) 26365	Channel (High) 226640	Channel (Low) 26090	Channel (Mid) 26365	Channel (High) 226640
10	1	0	23.17	23.34	23.47	22.01	22.13	22.34
	1	49	23.21	23.23	23.56	22.21	22.06	22.26
	25	12	22.03	22.18	22.29	21.03	21.09	21.21
	50	0	21.84	22.00	22.24	20.90	21.00	21.27

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615	Channel (Low) 26115	Channel (Mid) 26365	Channel (High) 26615
15	1	0	23.19	23.20	23.29	22.26	22.30	22.22
	1	74	23.26	23.11	23.50	22.04	22.08	22.40
	36	19	21.93	22.05	22.17	20.99	21.05	21.20
	75	0	21.91	22.00	22.22	20.88	20.96	21.12

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 26140	Channel (Mid) 26365	Channel (High) 26590	Channel (Low) 26140	Channel (Mid) 26365	Channel (High) 26590
20	1	0	23.22	23.30	23.22	22.28	22.30	22.32
	1	99	23.19	23.15	23.41	22.31	22.21	22.46
	50	25	21.92	21.93	22.01	20.96	21.00	21.04
	100	0	22.00	22.01	22.12	20.98	20.97	21.14

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HSDPA Release 8 MODE:

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

HSDPA SUB-TEST SettingTable 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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.83	23.89	23.93	20.3dBm – 25.7dBm	Pass
	2	23.54	23.53	23.61	20.3dBm – 25.7dBm	Pass
	3	23.37	23.41	23.44	19.8dBm – 25.7dBm	Pass
	4	23.42	23.45	23.50	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	24.08	23.98	24.03	20.3dBm – 25.7dBm	Pass
	2	23.79	23.62	23.71	20.3dBm – 25.7dBm	Pass
	3	23.62	23.50	23.54	19.8dBm – 25.7dBm	Pass
	4	23.67	23.54	23.60	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.75	23.76	23.69	20.3dBm – 25.7dBm	Pass
	2	23.46	23.40	23.37	20.3dBm – 25.7dBm	Pass
	3	23.29	23.28	23.20	19.8dBm – 25.7dBm	Pass
	4	23.34	23.32	23.26	19.8dBm – 25.7dBm	Pass

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HSPA (HSDPA & HSUPA) Release 8 MODE

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

HSPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Codes)	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 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 Limita- tion (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.57	23.57	23.65	18.8dBm – 25.7dBm	Pass
	2	21.63	21.65	21.69	16.8dBm – 25.7dBm	Pass
	3	22.54	22.63	22.68	17.8dBm – 25.7dBm	Pass
	4	21.68	21.71	21.77	16.8dBm – 25.7dBm	Pass
	5	23.43	23.40	23.54	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSUPA (B4)	1	23.82	23.66	23.75	18.8dBm – 25.7dBm	Pass
	2	21.88	21.74	21.79	16.8dBm – 25.7dBm	Pass
	3	22.79	22.72	22.78	17.8dBm – 25.7dBm	Pass
	4	21.93	21.80	21.87	16.8dBm – 25.7dBm	Pass
	5	23.68	23.49	23.64	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	23.49	23.44	23.41	18.8dBm – 25.7dBm	Pass
	2	21.55	21.52	21.45	16.8dBm – 25.7dBm	Pass
	3	22.46	22.50	22.44	17.8dBm – 25.7dBm	Pass
	4	21.60	21.58	21.53	16.8dBm – 25.7dBm	Pass
	5	23.35	23.27	23.30	18.8dBm – 25.7dBm	Pass

WCDMA/HSDPA/HSUPA band II, IV, V

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

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

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

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

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

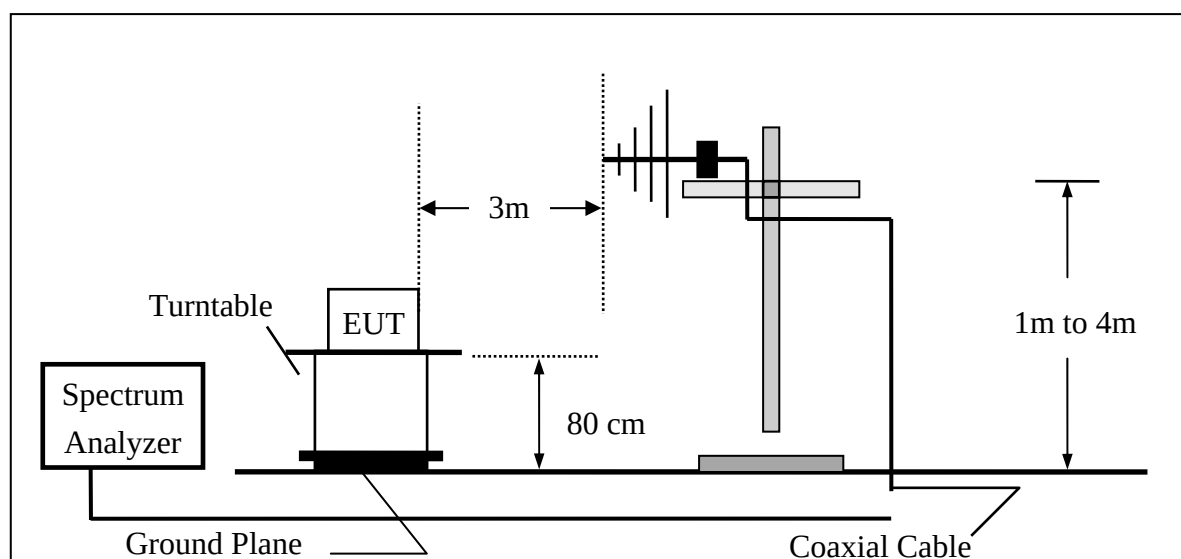
FCC 27, 50(d)(4) Portable stations are limited to 1W

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

Part 90 Subpart (R) Mobile stations are limited to 100W

7.2. Test SET-UP

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



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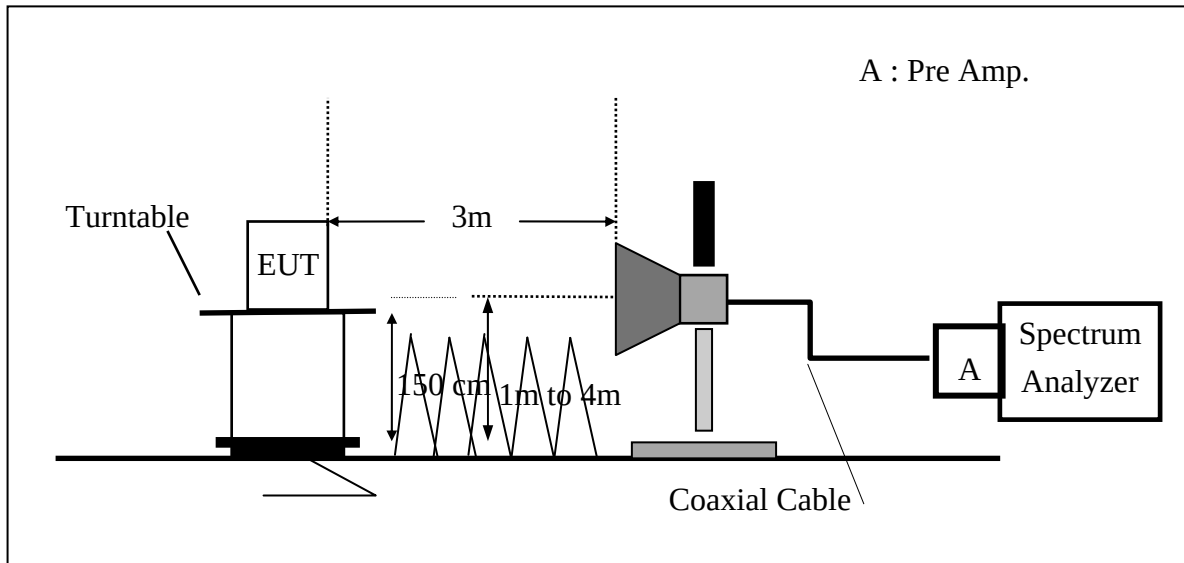
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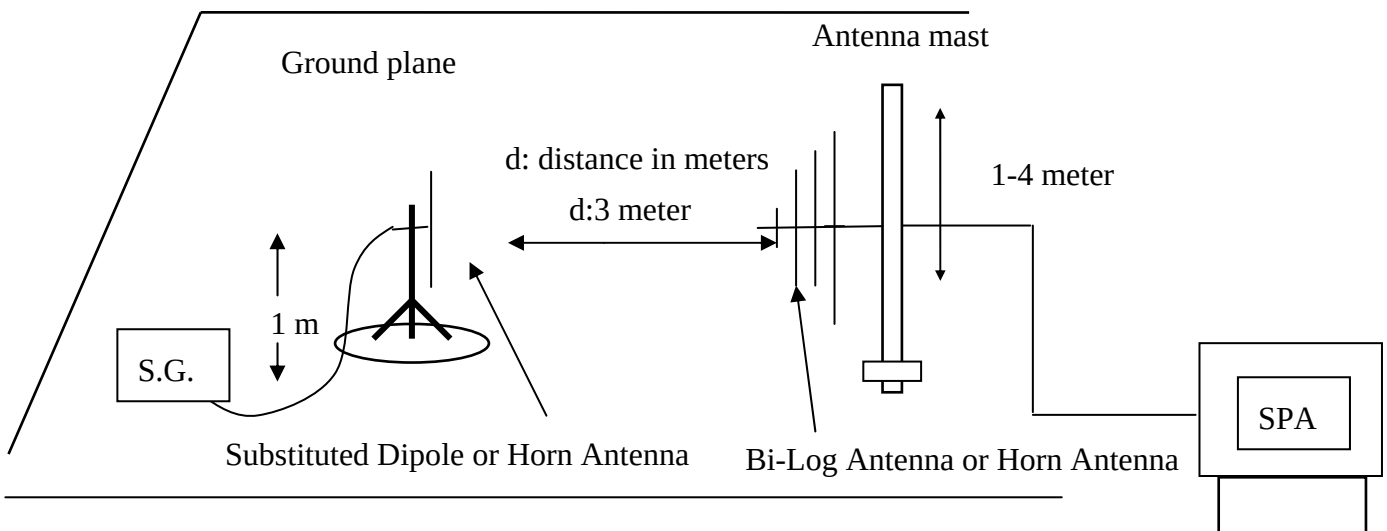
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure

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

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

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

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

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7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2014	05/18/2015
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/29/2014	07/28/2015
Network Analyze	Anritsu	MS4644A	1216312	05/24/2014	05/23/2015
Signal Generator	Agilent	E4438C	MY45093613	08/06/2014	08/05/2015
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

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

*Antenna Model No.: CVL-WLF-2V-BLK-12

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	16.58	3.45	-2.94	17.10	38.45
			H	23.49	3.45	-2.94	24.01	38.45
	836.6	190	V	17.95	3.46	-2.97	18.44	38.45
			H	23.72	3.46	-2.97	24.21	38.45
	848.8	251	V	14.33	3.47	-3.01	14.79	38.45
			H	23.74	3.47	-3.01	24.20	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	824.2	128	V	8.36	3.45	-2.94	8.87	38.45
			H	15.24	3.45	-2.94	15.75	38.45
	836.6	190	V	8.30	3.46	-2.97	8.79	38.45
			H	15.85	3.46	-2.97	16.34	38.45
	848.8	251	V	7.28	3.47	-3.01	7.74	38.45
			H	15.97	3.47	-3.01	16.43	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
GPRS 1900	1850.2	512	V	24.18	4.84	-4.49	24.54	33.01
			H	30.15	4.84	-4.49	30.51	33.01
	1880.0	661	V	24.90	4.79	-4.53	25.16	33.01
			H	31.00	4.79	-4.53	31.27	33.01
	1909.8	810	V	25.47	4.74	-4.57	25.65	33.01
			H	31.77	4.74	-4.57	31.95	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
EDGE 1900	1850.2	512	V	24.09	4.84	-4.49	24.45	33.01
			H	28.79	4.84	-4.49	29.14	33.01
	1880.0	661	V	23.98	4.79	-4.53	24.25	33.01
			H	29.69	4.79	-4.53	29.95	33.01
	1909.8	810	V	24.86	4.74	-4.57	25.04	33.01
			H	29.75	4.74	-4.57	29.93	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B2	1852.4	9262	V	17.01	4.84	-4.49	17.36	33.01
			H	25.74	4.84	-4.49	26.09	33.01
	1880.0	9400	V	16.32	4.79	-4.53	16.59	33.01
			H	25.95	4.79	-4.53	26.21	33.01
	1907.6	9538	V	16.97	4.75	-4.56	17.15	33.01
			H	25.94	4.75	-4.56	26.13	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B2	1852.4	9262	V	18.00	4.84	-4.49	18.36	33.01
			H	26.23	4.84	-4.49	26.58	33.01
	1880.0	9400	V	16.57	4.79	-4.53	16.84	33.01
			H	26.49	4.79	-4.53	26.75	33.01
	1907.6	9538	V	16.95	4.75	-4.56	17.13	33.01
			H	26.20	4.75	-4.56	26.38	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B2	1852.4	9262	V	19.19	4.84	-4.49	19.54	33.01
			H	25.73	4.84	-4.49	26.08	33.01
	1880.0	9400	V	18.96	4.79	-4.53	19.22	33.01
			H	26.09	4.79	-4.53	26.36	33.01
	1907.6	9538	V	17.55	4.75	-4.56	17.73	33.01
			H	25.94	4.75	-4.56	26.13	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B4	1712.4	1312	V	17.82	5.09	-4.29	18.62	33.01
			H	23.83	5.09	-4.29	24.62	33.01
	1732.6	1413	V	13.68	5.05	-4.32	14.41	33.01
			H	22.96	5.05	-4.31	23.69	33.01
	1752.6	1513	V	16.59	5.01	-4.37	17.24	33.01
			H	23.56	5.01	-4.37	24.20	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B4	1712.4	1312	V	18.50	5.09	-4.29	19.30	33.01
			H	24.37	5.09	-4.29	25.17	33.01
	1732.6	1413	V	14.18	5.05	-4.31	14.92	33.01
			H	23.51	5.05	-4.31	24.25	33.01
	1752.6	1513	V	16.85	5.01	-4.37	17.50	33.01
			H	22.43	5.01	-4.37	23.07	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSUPA B4	1712.4	1312	V	18.14	5.09	-4.29	18.94	33.01
			H	24.05	5.09	-4.29	24.85	33.01
	1732.6	1413	V	14.11	5.05	-4.32	14.85	33.01
			H	23.39	5.05	-4.31	24.13	33.01
	1752.6	1513	V	16.96	5.01	-4.37	17.61	33.01
			H	23.96	5.01	-4.37	24.60	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	10.04	3.46	-2.95	10.55	38.45
			H	17.89	3.46	-2.94	18.41	38.45
	836.6	4183	V	10.16	3.46	-2.97	10.65	38.45
			H	17.82	3.46	-2.97	18.31	38.45
	846.6	4233	V	8.92	3.47	-3.00	9.38	38.45
			H	17.73	3.47	-3.00	18.20	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B5	826.4	4132	V	11.00	3.46	-2.94	11.51	38.45
			H	18.30	3.46	-2.94	18.81	38.45
	836.6	4183	V	11.43	3.46	-2.97	11.92	38.45
			H	18.74	3.46	-2.97	19.22	38.45
	846.6	4233	V	9.47	3.47	-3.00	9.94	38.45
			H	18.29	3.47	-3.00	18.75	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B5	826.4	4132	V	10.48	3.46	-2.94	11.00	38.45
			H	17.72	3.46	-2.94	18.23	38.45
	836.6	4183	V	11.58	3.46	-2.97	12.06	38.45
			H	17.61	3.46	-2.97	18.10	38.45
	846.6	4233	V	9.01	3.47	-3.00	9.47	38.45
			H	18.02	3.47	-3.00	18.48	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA BC0	824.7	1013	V	16.21	3.45	-2.94	16.73	38.45
			H	17.21	3.45	-2.94	17.73	38.45
	836.52	384	V	15.67	3.46	-2.97	16.15	38.45
			H	16.34	3.46	-2.97	16.83	38.45
	848.31	777	V	15.61	3.47	-3.01	16.07	38.45
			H	16.64	3.47	-3.01	17.10	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EVDO 2000 BC0	824.7	1013	V	15.50	3.45	-2.94	16.02	38.45
			H	16.58	3.45	-2.94	17.09	38.45
	836.52	384	V	14.84	3.46	-2.97	15.33	38.45
			H	15.22	3.46	-2.97	15.70	38.45
	848.31	777	V	14.73	3.47	-3.01	15.19	38.45
			H	15.80	3.47	-3.01	16.27	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
CDMA BC1	1851.25	25	V	17.21	4.84	-4.49	17.56	33.00
			H	24.80	4.84	-4.49	25.15	33.00
	1880.0	600	V	13.19	4.79	-4.53	13.46	33.00
			H	21.24	4.79	-4.53	21.51	33.00
	1908.75	1175	V	15.54	4.75	-4.56	15.72	33.00
			H	21.63	4.75	-4.56	21.81	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
EVDO 2000 BC1	1851.25	25	V	15.43	4.84	-4.49	15.78	33.00
			H	24.13	4.84	-4.49	24.48	33.00
	1880.0	600	V	13.21	4.79	-4.53	13.48	33.00
			H	20.48	4.79	-4.53	20.75	33.00
	1908.75	1175	V	15.07	4.75	-4.56	15.25	33.00
			H	20.79	4.75	-4.56	20.97	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA BC10	817.9	476	V	15.82	3.45	-2.92	16.35	50.00
			H	17.22	3.45	-2.92	17.76	50.00
	820.5	580	V	16.22	3.45	-2.93	16.75	50.00
			H	17.14	3.45	-2.93	17.67	50.00
	823.1	684	V	16.07	3.45	-2.93	16.59	50.00
			H	17.17	3.45	-2.93	17.69	50.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EVDO 2000 BC10	817.9	476	V	14.68	3.45	-2.92	15.22	50.00
			H	16.41	3.45	-2.92	16.95	50.00
	820.5	580	V	15.44	3.45	-2.93	15.97	50.00
			H	16.55	3.45	-2.93	17.07	50.00
	823.1	684	V	15.23	3.45	-2.93	15.75	50.00
			H	16.36	3.45	-2.93	16.88	50.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	24.48	4.84	-4.49	24.84	33.01
			H	26.91	4.84	-4.49	27.27	33.01
	1880.0	18900	V	25.03	4.79	-4.53	25.30	33.01
			H	25.71	4.80	-4.52	25.99	33.01
	1909.3	19193	V	22.97	4.75	-4.56	23.16	33.01
			H	26.32	4.75	-4.56	26.50	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	24.40	4.84	-4.49	24.75	33.01
			H	26.86	4.84	-4.49	27.21	33.01
	1880.0	18900	V	24.99	4.79	-4.53	25.26	33.01
			H	25.64	4.79	-4.53	25.91	33.01
	1909.3	19193	V	22.76	4.75	-4.56	22.94	33.01
			H	26.26	4.74	-4.57	26.43	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	25.36	4.84	-4.49	25.72	33.01
			H	27.85	4.84	-4.49	28.21	33.01
	1880.0	18900	V	26.05	4.79	-4.53	26.32	33.01
			H	26.68	4.79	-4.53	26.95	33.01
	1909.3	19193	V	23.96	4.75	-4.56	24.14	33.01
			H	27.55	4.75	-4.56	27.74	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	25.09	4.84	-4.49	25.45	33.01
			H	27.60	4.84	-4.49	27.95	33.01
	1880.0	18900	V	25.97	4.79	-4.53	26.24	33.01
			H	26.61	4.79	-4.53	26.88	33.01
	1909.3	19193	V	23.85	4.75	-4.56	24.03	33.01
			H	27.05	4.75	-4.56	27.23	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	24.42	4.84	-4.49	24.77	33.01
			H	26.77	4.84	-4.49	27.12	33.01
	1880.0	18900	V	25.00	4.80	-4.52	25.28	33.01
			H	25.67	4.80	-4.52	25.94	33.01
	1908.5	19185	V	23.14	4.75	-4.56	23.32	33.01
			H	26.61	4.75	-4.56	26.79	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	24.34	4.84	-4.49	24.69	33.01
			H	26.39	4.84	-4.49	26.74	33.01
	1880.0	18900	V	24.86	4.79	-4.53	25.13	33.01
			H	25.21	4.79	-4.53	25.48	33.01
	1908.5	19185	V	22.64	4.75	-4.56	22.82	33.01
			H	25.48	4.75	-4.56	25.66	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	25.30	4.84	-4.49	25.66	33.01
			H	27.58	4.84	-4.49	27.94	33.01
	1880.0	18900	V	25.72	4.80	-4.52	25.99	33.01
			H	26.36	4.80	-4.52	26.64	33.01
	1908.5	19185	V	24.12	4.75	-4.56	24.31	33.01
			H	27.56	4.75	-4.56	27.75	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	24.88	4.84	-4.49	25.24	33.01
			H	26.94	4.84	-4.49	27.30	33.01
	1880.0	18900	V	25.71	4.79	-4.53	25.97	33.01
			H	26.03	4.79	-4.53	26.30	33.01
	1908.5	19185	V	23.72	4.75	-4.56	23.90	33.01
			H	26.53	4.75	-4.56	26.72	33.01

Remark :

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

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	24.55	4.84	-4.49	24.91	33.01
			H	26.85	4.84	-4.49	27.20	33.01
	1880.0	18900	V	24.98	4.80	-4.52	25.26	33.01
			H	25.60	4.80	-4.52	25.88	33.01
	1907.5	19175	V	24.65	4.75	-4.56	24.84	33.01
			H	25.42	4.75	-4.56	25.61	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	23.80	4.84	-4.49	24.15	33.01
			H	26.35	4.84	-4.49	26.70	33.01
	1880.0	18900	V	23.88	4.79	-4.53	24.15	33.01
			H	25.13	4.79	-4.53	25.39	33.01
	1907.5	19175	V	23.66	4.75	-4.56	23.84	33.01
			H	25.77	4.75	-4.56	25.95	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	25.38	4.84	-4.49	25.74	33.01
			H	27.64	4.84	-4.49	28.00	33.01
	1880.0	18900	V	25.57	4.80	-4.52	25.84	33.01
			H	26.24	4.80	-4.52	26.51	33.01
	1907.5	19175	V	25.25	4.75	-4.56	25.44	33.01
			H	26.15	4.75	-4.56	26.34	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	24.27	4.84	-4.49	24.61	33.01
			H	26.83	4.84	-4.49	27.18	33.01
	1880.0	18900	V	24.76	4.79	-4.53	25.02	33.01
			H	26.02	4.79	-4.53	26.29	33.01
	1907.5	19175	V	24.77	4.75	-4.56	24.95	33.01
			H	26.92	4.74	-4.57	27.10	33.01

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	24.49	4.84	-4.49	24.85	33.01
			H	26.84	4.84	-4.49	27.20	33.01
	1880.0	18900	V	24.50	4.80	-4.52	24.78	33.01
			H	25.53	4.80	-4.52	25.81	33.01
	1905.0	19150	V	24.21	4.76	-4.55	24.42	33.01
			H	25.81	4.76	-4.55	26.02	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	23.52	4.83	-4.50	23.85	33.01
			H	26.18	4.83	-4.50	26.51	33.01
	1880.0	18900	V	24.78	4.79	-4.53	25.03	33.01
			H	24.29	4.79	-4.53	24.55	33.01
	1905.0	19150	V	23.98	4.75	-4.56	24.16	33.01
			H	24.37	4.75	-4.56	24.56	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	25.30	4.84	-4.49	25.66	33.01
			H	27.65	4.84	-4.49	28.01	33.01
	1880.0	18900	V	24.79	4.80	-4.52	25.07	33.01
			H	25.79	4.80	-4.52	26.07	33.01
	1905.0	19150	V	24.55	4.76	-4.55	24.76	33.01
			H	25.97	4.76	-4.55	26.18	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	24.15	4.83	-4.50	24.48	33.01
			H	26.76	4.83	-4.50	27.09	33.01
	1880.0	18900	V	25.63	4.79	-4.53	25.88	33.01
			H	25.20	4.79	-4.53	25.45	33.01
	1905.0	19150	V	24.22	4.75	-4.56	24.40	33.01
			H	25.53	4.75	-4.56	25.71	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	24.50	4.84	-4.49	24.85	33.01
			H	26.53	4.84	-4.49	26.88	33.01
	1880.0	18900	V	24.65	4.81	-4.52	24.94	33.01
			H	25.52	4.81	-4.52	25.81	33.01
	1902.5	19125	V	24.91	4.77	-4.55	25.13	33.01
			H	25.31	4.77	-4.55	25.53	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	24.91	4.82	-4.50	25.23	33.01
			H	25.93	4.82	-4.50	26.24	33.01
	1880.0	18900	V	25.29	4.78	-4.53	25.54	33.01
			H	25.39	4.78	-4.53	25.64	33.01
	1902.5	19125	V	23.07	4.75	-4.56	23.26	33.01
			H	25.02	4.75	-4.56	25.21	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	25.41	4.84	-4.49	25.76	33.01
			H	27.30	4.84	-4.49	27.65	33.01
	1880.0	18900	V	24.70	4.80	-4.52	24.99	33.01
			H	25.60	4.81	-4.52	25.89	33.01
	1902.5	19125	V	25.55	4.77	-4.55	25.77	33.01
			H	25.94	4.77	-4.55	26.16	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	25.64	4.82	-4.50	25.95	33.01
			H	26.62	4.82	-4.50	26.94	33.01
	1880.0	18900	V	26.25	4.78	-4.53	26.50	33.01
			H	25.75	4.78	-4.53	26.00	33.01
	1902.5	19125	V	24.17	4.75	-4.56	24.35	33.01
			H	26.07	4.75	-4.56	26.25	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	24.56	4.84	-4.49	24.92	33.01
			H	26.66	4.84	-4.49	27.01	33.01
	1880.0	18900	V	24.73	4.81	-4.51	25.02	33.01
			H	25.31	4.81	-4.51	25.60	33.01
	1900.0	19100	V	25.73	4.78	-4.54	25.97	33.01
			H	25.13	4.78	-4.54	25.37	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	24.84	4.81	-4.51	25.14	33.01
			H	26.03	4.81	-4.51	26.34	33.01
	1880.0	18900	V	25.66	4.78	-4.54	25.90	33.01
			H	25.13	4.78	-4.54	25.37	33.01
	1900.0	19100	V	24.09	4.75	-4.56	24.28	33.01
			H	25.07	4.75	-4.56	25.25	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	25.25	4.84	-4.49	25.60	33.01
			H	27.37	4.84	-4.49	27.73	33.01
	1880.0	18900	V	25.43	4.81	-4.51	25.73	33.01
			H	26.04	4.81	-4.51	26.34	33.01
	1900.0	19100	V	26.40	4.78	-4.54	26.64	33.01
			H	25.73	4.78	-4.54	25.96	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	25.58	4.81	-4.51	25.89	33.01
			H	26.69	4.81	-4.51	26.99	33.01
	1880.0	18900	V	26.36	4.78	-4.54	26.60	33.01
			H	25.93	4.78	-4.54	26.17	33.01
	1900.0	19100	V	25.00	4.75	-4.56	25.18	33.01
			H	26.04	4.75	-4.56	26.23	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	18.08	5.09	-4.29	18.88	30.00
			H	27.10	5.09	-4.29	27.90	30.00
	1732.5	20175	V	16.88	5.05	-4.31	17.63	30.00
			H	25.88	5.05	-4.31	26.62	30.00
	1754.3	20393	V	19.47	5.01	-4.37	20.11	30.00
			H	27.45	5.01	-4.37	28.10	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	18.11	5.09	-4.29	18.91	30.00
			H	27.11	5.09	-4.29	27.91	30.00
	1732.5	20175	V	17.08	5.05	-4.31	17.82	30.00
			H	26.26	5.05	-4.31	27.00	30.00
	1754.3	20393	V	19.16	5.01	-4.38	19.79	30.00
			H	27.52	5.01	-4.37	28.16	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	18.52	5.09	-4.29	19.32	30.00
			H	27.70	5.09	-4.29	28.50	30.00
	1732.5	20175	V	17.11	5.05	-4.31	17.85	30.00
			H	26.10	5.05	-4.31	26.84	30.00
	1754.3	20393	V	19.76	5.01	-4.37	20.39	30.00
			H	27.85	5.01	-4.37	28.49	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	18.56	5.09	-4.29	19.36	30.00
			H	27.71	5.09	-4.29	28.51	30.00
	1732.5	20175	V	17.36	5.05	-4.31	18.09	30.00
			H	26.45	5.05	-4.31	27.19	30.00
	1754.3	20393	V	19.51	5.01	-4.37	20.15	30.00
			H	27.83	5.01	-4.37	28.46	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	17.48	5.09	-4.29	18.28	30.00
			H	26.88	5.09	-4.29	27.68	30.00
	1732.5	20175	V	14.54	5.05	-4.31	15.28	30.00
			H	25.30	5.05	-4.31	26.04	30.00
	1753.5	20385	V	19.12	5.01	-4.37	19.76	30.00
			H	27.55	5.01	-4.37	28.20	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	17.37	5.09	-4.29	18.17	30.00
			H	26.94	5.09	-4.29	27.74	30.00
	1732.5	20175	V	14.35	5.05	-4.32	15.07	30.00
			H	26.10	5.05	-4.32	26.84	30.00
	1753.5	20385	V	18.80	5.01	-4.37	19.43	30.00
			H	27.23	5.01	-4.37	27.87	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	17.67	5.09	-4.29	18.47	30.00
			H	27.24	5.09	-4.29	28.04	30.00
	1732.5	20175	V	14.75	5.05	-4.31	15.49	30.00
			H	25.61	5.05	-4.31	26.35	30.00
	1753.5	20385	V	19.33	5.01	-4.37	19.97	30.00
			H	27.83	5.01	-4.37	28.48	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	17.91	5.09	-4.29	18.71	30.00
			H	27.46	5.09	-4.29	28.26	30.00
	1732.5	20175	V	14.68	5.05	-4.32	15.41	30.00
			H	26.43	5.05	-4.32	27.16	30.00
	1753.5	20385	V	19.21	5.01	-4.37	19.84	30.00
			H	27.52	5.01	-4.37	28.16	30.00

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	17.52	5.09	-4.29	18.32	30.00
			H	26.81	5.09	-4.29	27.61	30.00
	1732.5	20175	V	16.16	5.05	-4.31	16.91	30.00
			H	24.84	5.05	-4.31	25.59	30.00
	1752.5	20375	V	19.04	5.02	-4.36	19.69	30.00
			H	27.76	5.02	-4.36	28.42	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	17.15	5.08	-4.29	17.94	30.00
			H	26.81	5.08	-4.29	27.60	30.00
	1732.5	20175	V	16.71	5.05	-4.32	17.44	30.00
			H	26.43	5.05	-4.32	27.16	30.00
	1752.5	20375	V	18.54	5.01	-4.37	19.18	30.00
			H	27.41	5.01	-4.37	28.04	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	17.94	5.09	-4.29	18.74	30.00
			H	27.48	5.09	-4.29	28.28	30.00
	1732.5	20175	V	16.44	5.05	-4.31	17.19	30.00
			H	25.18	5.05	-4.31	25.93	30.00
	1752.5	20375	V	19.85	5.02	-4.36	20.51	30.00
			H	28.63	5.02	-4.36	29.29	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	17.82	5.08	-4.29	18.61	30.00
			H	27.44	5.08	-4.29	28.23	30.00
	1732.5	20175	V	17.06	5.04	-4.32	17.78	30.00
			H	26.65	5.05	-4.32	27.38	30.00
	1752.5	20375	V	18.88	5.01	-4.37	19.51	30.00
			H	27.76	5.01	-4.37	28.40	30.00

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	17.47	5.09	-4.29	18.27	30.00
			H	26.86	5.09	-4.29	27.66	30.00
	1732.0	20175	V	15.18	5.06	-4.30	15.93	30.00
			H	24.36	5.06	-4.30	25.12	30.00
	1750.0	20350	V	17.88	5.02	-4.35	18.55	30.00
			H	26.80	5.03	-4.35	27.48	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	15.83	5.07	-4.30	16.61	30.00
			H	25.78	5.07	-4.30	26.56	30.00
	1732.0	20175	V	15.73	5.04	-4.32	16.45	30.00
			H	26.57	5.04	-4.33	27.29	30.00
	1750.0	20350	V	17.73	5.01	-4.37	18.37	30.00
			H	26.85	5.01	-4.37	27.49	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	17.82	5.09	-4.29	18.62	30.00
			H	27.44	5.09	-4.29	28.24	30.00
	1732.0	20175	V	15.30	5.06	-4.30	16.05	30.00
			H	24.56	5.06	-4.30	25.31	30.00
	1750.0	20350	V	18.67	5.02	-4.35	19.34	30.00
			H	27.56	5.03	-4.35	28.23	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	16.22	5.07	-4.30	17.00	30.00
			H	26.21	5.07	-4.30	26.99	30.00
	1732.0	20175	V	16.02	5.04	-4.32	16.73	30.00
			H	26.84	5.04	-4.33	27.56	30.00
	1750.0	20350	V	18.21	5.01	-4.37	18.85	30.00
			H	27.36	5.01	-4.37	28.00	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	17.40	5.09	-4.29	18.20	30.00
			H	26.94	5.09	-4.29	27.74	30.00
	1732.5	20175	V	14.74	5.06	-4.30	15.50	30.00
			H	24.02	5.06	-4.30	24.78	30.00
	1747.5	20325	V	17.06	5.03	-4.34	17.76	30.00
			H	26.30	5.03	-4.34	27.00	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	15.10	5.06	-4.30	15.87	30.00
			H	24.25	5.06	-4.30	25.01	30.00
	1732.5	20175	V	15.48	5.04	-4.33	16.19	30.00
			H	26.21	5.04	-4.33	26.92	30.00
	1747.5	20325	V	17.58	5.01	-4.37	18.22	30.00
			H	27.19	5.01	-4.37	27.84	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	18.03	5.09	-4.29	18.83	30.00
			H	27.49	5.09	-4.29	28.29	30.00
	1732.5	20175	V	14.88	5.06	-4.30	15.63	30.00
			H	24.29	5.06	-4.30	25.05	30.00
	1747.5	20325	V	17.44	5.04	-4.33	18.14	30.00
			H	26.86	5.03	-4.34	27.56	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	15.36	5.06	-4.30	16.13	30.00
			H	24.50	5.06	-4.30	25.26	30.00
	1732.5	20175	V	15.95	5.04	-4.33	16.66	30.00
			H	26.74	5.04	-4.33	27.45	30.00
	1747.5	20325	V	18.10	5.01	-4.37	18.74	30.00
			H	27.93	5.01	-4.37	28.57	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	17.35	5.09	-4.29	18.15	30.00
			H	26.79	5.09	-4.29	27.59	30.00
	1732.5	20175	V	15.28	5.07	-4.30	16.05	30.00
			H	24.34	5.07	-4.30	25.11	30.00
	1745.0	20300	V	16.99	5.04	-4.32	17.71	30.00
			H	26.46	5.04	-4.32	27.18	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	14.24	5.06	-4.30	14.99	30.00
			H	24.32	5.06	-4.30	25.07	30.00
	1732.5	20175	V	17.01	5.03	-4.34	17.71	30.00
			H	26.21	5.03	-4.34	26.91	30.00
	1745.0	20300	V	15.93	5.01	-4.37	16.57	30.00
			H	26.84	5.01	-4.37	27.48	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	16.40	5.09	-4.29	17.20	30.00
			H	27.46	5.09	-4.29	28.26	30.00
	1732.5	20175	V	15.51	5.07	-4.30	16.27	30.00
			H	24.61	5.07	-4.30	25.38	30.00
	1745.0	20300	V	17.47	5.04	-4.32	18.18	30.00
			H	26.94	5.04	-4.32	27.66	30.00
BAND 4 BW: 15M 16QAM RB: 1,99	1720.0	20050	V	14.37	5.06	-4.30	15.12	30.00
			H	24.61	5.06	-4.30	25.36	30.00
	1732.5	20175	V	17.41	5.03	-4.34	18.11	30.00
			H	26.62	5.03	-4.34	27.31	30.00
	1745.0	20300	V	16.59	5.01	-4.37	17.23	30.00
			H	27.51	5.01	-4.37	28.15	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	12.86	3.45	-2.94	13.37	38.45
			H	17.45	3.45	-2.94	17.97	38.45
	836.5	20525	V	9.25	3.46	-2.97	9.74	38.45
			H	14.47	3.46	-2.97	14.96	38.45
	848.3	20643	V	6.71	3.47	-3.01	7.17	38.45
			H	12.79	3.47	-3.00	13.25	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	12.75	3.46	-2.94	13.27	38.45
			H	17.35	3.46	-2.94	17.87	38.45
	836.5	20525	V	9.00	3.46	-2.97	9.49	38.45
			H	14.31	3.46	-2.97	14.80	38.45
	848.3	20643	V	6.45	3.47	-3.01	6.91	38.45
			H	12.71	3.47	-3.00	13.17	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	15.01	3.45	-2.94	15.52	38.45
			H	19.47	3.45	-2.94	19.98	38.45
	836.5	20525	V	11.17	3.46	-2.97	11.65	38.45
			H	16.48	3.46	-2.97	16.97	38.45
	848.3	20643	V	8.73	3.47	-3.00	9.19	38.45
			H	14.90	3.47	-3.00	15.36	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	14.91	3.46	-2.94	15.43	38.45
			H	19.46	3.46	-2.94	19.97	38.45
	836.5	20525	V	11.12	3.46	-2.97	11.61	38.45
			H	16.44	3.46	-2.97	16.93	38.45
	848.3	20643	V	8.48	3.47	-3.01	8.94	38.45
			H	14.80	3.47	-3.01	15.26	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	13.59	3.45	-2.94	14.11	38.45
			H	18.24	3.45	-2.94	18.76	38.45
	836.5	20525	V	11.25	3.46	-2.97	11.74	38.45
			H	16.13	3.46	-2.97	16.62	38.45
	847.5	20635	V	7.87	3.47	-3.00	8.33	38.45
			H	12.70	3.47	-3.00	13.17	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	12.45	3.46	-2.94	12.96	38.45
			H	17.90	3.46	-2.94	18.41	38.45
	836.5	20525	V	9.84	3.46	-2.98	10.33	38.45
			H	14.58	3.46	-2.98	15.06	38.45
	847.5	20635	V	7.89	3.47	-3.01	8.35	38.45
			H	13.13	3.47	-3.01	13.59	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	15.92	3.45	-2.94	16.44	38.45
			H	21.12	3.45	-2.94	21.64	38.45
	836.5	20525	V	12.03	3.46	-2.97	12.52	38.45
			H	17.58	3.46	-2.97	18.07	38.45
	847.5	20635	V	9.36	3.47	-3.01	9.82	38.45
			H	14.50	3.47	-3.00	14.97	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	14.17	3.46	-2.94	14.68	38.45
			H	20.46	3.46	-2.94	20.98	38.45
	836.5	20525	V	11.25	3.46	-2.98	11.74	38.45
			H	15.94	3.46	-2.98	16.42	38.45
	847.5	20635	V	8.78	3.47	-3.01	9.24	38.45
			H	14.26	3.47	-3.01	14.72	38.45

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	13.43	3.46	-2.94	13.94	38.45
			H	18.01	3.45	-2.94	18.53	38.45
	836.5	20525	V	10.52	3.46	-2.97	11.01	38.45
			H	15.91	3.46	-2.97	16.41	38.45
	846.5	20625	V	8.02	3.47	-2.99	8.49	38.45
			H	12.64	3.46	-2.99	13.11	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	13.52	3.46	-2.95	14.03	38.45
			H	18.33	3.46	-2.95	18.83	38.45
	836.5	20525	V	8.72	3.46	-2.98	9.21	38.45
			H	13.92	3.46	-2.98	14.41	38.45
	846.5	20625	V	7.03	3.47	-3.01	7.49	38.45
			H	12.41	3.47	-3.00	12.87	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	15.93	3.45	-2.94	16.45	38.45
			H	20.73	3.45	-2.94	21.25	38.45
	836.5	20525	V	12.89	3.46	-2.97	13.38	38.45
			H	18.26	3.46	-2.97	18.75	38.45
	846.5	20625	V	9.58	3.47	-2.99	10.05	38.45
			H	15.02	3.46	-2.99	15.49	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	14.83	3.46	-2.95	15.34	38.45
			H	19.82	3.46	-2.95	20.33	38.45
	836.5	20525	V	10.20	3.46	-2.98	10.68	38.45
			H	15.43	3.46	-2.98	15.91	38.45
	846.5	20625	V	8.59	3.47	-3.01	9.05	38.45
			H	13.97	3.47	-3.01	14.43	38.45

Remark :

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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	14.56	3.45	-2.94	15.08	38.45
			H	19.28	3.45	-2.94	19.80	38.45
	836.5	20525	V	11.52	3.46	-2.96	12.02	38.45
			H	16.61	3.46	-2.96	17.11	38.45
	844.0	20600	V	9.56	3.46	-2.98	10.04	38.45
			H	14.55	3.46	-2.98	15.03	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	11.64	3.46	-2.97	12.13	38.45
			H	16.66	3.46	-2.97	17.15	38.45
	836.5	20525	V	9.52	3.46	-2.99	10.00	38.45
			H	14.63	3.46	-2.98	15.11	38.45
	844.0	20600	V	7.62	3.47	-3.01	8.08	38.45
			H	12.53	3.47	-3.01	12.99	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	16.04	3.45	-2.94	16.56	38.45
			H	20.93	3.45	-2.94	21.44	38.45
	836.5	20525	V	14.57	3.46	-2.96	15.06	38.45
			H	19.61	3.46	-2.96	20.11	38.45
	844.0	20600	V	11.68	3.46	-2.98	12.16	38.45
			H	16.70	3.46	-2.98	17.19	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	12.97	3.46	-2.97	13.47	38.45
			H	17.96	3.46	-2.97	18.46	38.45
	836.5	20525	V	11.01	3.46	-2.99	11.49	38.45
			H	16.10	3.46	-2.98	16.57	38.45
	844.0	20600	V	8.55	3.47	-3.01	9.01	38.45
			H	14.53	3.47	-3.00	14.99	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	11.24	3.37	-2.77	11.84	34.77
			H	10.67	3.37	-2.77	11.27	34.77
	782.0	23230	V	11.44	3.38	-2.78	12.04	34.77
			H	11.43	3.38	-2.78	12.03	34.77
	784.5	23255	V	10.78	3.39	-2.79	11.38	34.77
			H	10.96	3.38	-2.79	11.55	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	11.02	3.38	-2.78	11.62	34.77
			H	11.39	3.38	-2.79	11.98	34.77
	782.0	23230	V	10.50	3.39	-2.79	11.09	34.77
			H	11.31	3.39	-2.79	11.91	34.77
	784.5	23255	V	10.40	3.40	-2.80	11.00	34.77
			H	11.01	3.40	-2.80	11.60	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	12.58	3.37	-2.77	13.18	34.77
			H	12.74	3.37	-2.77	13.34	34.77
	782.0	23230	V	12.81	3.38	-2.78	13.41	34.77
			H	12.72	3.38	-2.78	13.32	34.77
	784.5	23255	V	12.66	3.38	-2.78	13.26	34.77
			H	12.82	3.38	-2.79	13.42	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	12.05	3.38	-2.78	12.65	34.77
			H	12.74	3.38	-2.78	13.34	34.77
	782.0	23230	V	11.53	3.39	-2.79	12.13	34.77
			H	12.93	3.39	-2.79	13.52	34.77
	784.5	23255	V	11.86	3.40	-2.80	12.46	34.77
			H	12.46	3.40	-2.80	13.06	34.77

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	11.15	3.37	-2.77	11.75	34.77
			H	10.85	3.37	-2.77	11.45	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	10.01	3.40	-2.80	10.61	34.77
			H	10.57	3.40	-2.80	11.17	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	13.24	3.37	-2.77	13.84	34.77
			H	12.86	3.37	-2.77	13.46	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	11.48	3.40	-2.80	12.07	34.77
			H	12.00	3.40	-2.80	12.59	34.77

Remark :

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

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	5.67	3.37	-2.60	6.44	34.77
			H	6.92	3.37	-2.60	7.69	34.77
	710.0	23790	V	6.72	3.37	-2.60	7.49	34.77
			H	7.97	3.37	-2.60	8.74	34.77
	713.5	23825	V	6.61	3.36	-2.60	7.37	34.77
			H	8.70	3.36	-2.60	9.46	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	5.96	3.37	-2.60	6.73	34.77
			H	8.42	3.37	-2.60	9.19	34.77
	710.0	23790	V	6.36	3.36	-2.60	7.11	34.77
			H	8.12	3.36	-2.60	8.88	34.77
	713.5	23825	V	5.86	3.35	-2.61	6.60	34.77
			H	7.49	3.35	-2.61	8.23	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	8.22	3.37	-2.60	8.99	34.77
			H	10.04	3.37	-2.60	10.81	34.77
	710.0	23790	V	8.18	3.37	-2.60	8.95	34.77
			H	9.55	3.37	-2.60	10.32	34.77
	713.5	23825	V	8.00	3.36	-2.60	8.76	34.77
			H	10.20	3.36	-2.60	10.96	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	7.76	3.37	-2.60	8.52	34.77
			H	10.01	3.37	-2.60	10.78	34.77
	710.0	23790	V	7.35	3.36	-2.60	8.11	34.77
			H	9.09	3.36	-2.60	9.84	34.77
	713.5	23825	V	6.31	3.35	-2.61	7.06	34.77
			H	10.39	3.35	-2.61	11.13	34.77

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	5.85	3.37	-2.60	6.62	34.77
			H	6.99	3.37	-2.60	7.76	34.77
	710.0	23790	V	6.23	3.37	-2.60	7.00	34.77
			H	7.69	3.37	-2.60	8.46	34.77
	711.0	23800	V	6.77	3.37	-2.60	7.54	34.77
			H	8.16	3.37	-2.60	8.93	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	5.89	3.36	-2.61	6.64	34.77
			H	7.98	3.36	-2.61	8.73	34.77
	710.0	23790	V	6.49	3.36	-2.61	7.24	34.77
			H	8.12	3.35	-2.61	8.87	34.77
	711.0	23800	V	5.37	3.35	-2.61	6.11	34.77
			H	7.48	3.35	-2.61	8.22	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	8.37	3.37	-2.60	9.14	34.77
			H	9.53	3.37	-2.60	10.30	34.77
	710.0	23790	V	6.91	3.37	-2.60	7.68	34.77
			H	8.09	3.37	-2.60	8.86	34.77
	711.0	23800	V	7.60	3.37	-2.60	8.37	34.77
			H	8.93	3.37	-2.60	9.69	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	7.80	3.36	-2.61	8.55	34.77
			H	9.97	3.36	-2.61	10.72	34.77
	710.0	23790	V	6.90	3.35	-2.61	7.64	34.77
			H	8.46	3.35	-2.61	9.21	34.77
	711.0	23800	V	5.86	3.35	-2.61	6.60	34.77
			H	7.99	3.35	-2.61	8.73	34.77

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 1.4M QPSK RB: 1,0	1850.7	26047	V	19.32	4.84	-4.49	19.68	33.00
			H	26.85	4.84	-4.49	27.21	33.00
	1882.5	26365	V	18.92	4.79	-4.53	19.18	33.00
			H	26.44	4.79	-4.53	26.70	33.00
	1914.3	26683	V	18.62	4.74	-4.57	18.78	33.00
			H	26.58	4.74	-4.57	26.74	33.00
BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	19.43	4.84	-4.49	19.79	33.00
			H	26.44	4.84	-4.49	26.80	33.00
	1882.5	26365	V	18.74	4.79	-4.53	19.00	33.00
			H	26.34	4.79	-4.53	26.60	33.00
	1914.3	26683	V	18.75	4.74	-4.57	18.91	33.00
			H	26.56	4.74	-4.57	26.72	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	20.26	4.84	-4.49	20.62	33.00
			H	27.52	4.84	-4.49	27.88	33.00
	1882.5	26365	V	19.87	4.79	-4.53	20.13	33.00
			H	27.40	4.79	-4.53	27.66	33.00
	1914.3	26683	V	19.06	4.74	-4.57	19.22	33.00
			H	27.10	4.74	-4.57	27.26	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	20.21	4.84	-4.49	20.56	33.00
			H	27.19	4.84	-4.49	27.55	33.00
	1882.5	26365	V	19.72	4.79	-4.53	19.98	33.00
			H	27.33	4.79	-4.53	27.59	33.00
	1914.3	26683	V	19.46	4.74	-4.57	19.62	33.00
			H	27.25	4.74	-4.57	27.41	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	19.41	4.84	-4.49	19.77	33.00
			H	26.69	4.84	-4.49	27.05	33.00
	1882.5	26365	V	19.58	4.79	-4.53	19.84	33.00
			H	26.14	4.79	-4.53	26.40	33.00
	1913.5	26675	V	16.89	4.74	-4.57	17.07	33.00
			H	26.77	4.74	-4.57	26.94	33.00
BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	19.28	4.84	-4.49	19.63	33.00
			H	26.04	4.84	-4.49	26.39	33.00
	1882.5	26365	V	19.57	4.79	-4.53	19.83	33.00
			H	26.00	4.79	-4.53	26.26	33.00
	1913.5	26675	V	16.42	4.74	-4.58	16.58	33.00
			H	26.27	4.74	-4.57	26.43	33.00
BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	20.13	4.84	-4.49	20.48	33.00
			H	27.41	4.84	-4.49	27.76	33.00
	1882.5	26365	V	20.16	4.79	-4.53	20.43	33.00
			H	26.80	4.79	-4.53	27.07	33.00
	1913.5	26675	V	17.22	4.74	-4.57	17.40	33.00
			H	27.09	4.74	-4.57	27.26	33.00
BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	20.34	4.84	-4.49	20.69	33.00
			H	26.59	4.84	-4.49	26.94	33.00
	1882.5	26365	V	20.29	4.79	-4.53	20.55	33.00
			H	26.79	4.79	-4.53	27.05	33.00
	1913.5	26675	V	17.05	4.74	-4.57	17.21	33.00
			H	27.21	4.74	-4.57	27.38	33.00

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	19.39	4.84	-4.49	19.75	33.00
			H	26.86	4.84	-4.49	27.22	33.00
	1882.5	26365	V	20.79	4.79	-4.53	21.06	33.00
			H	25.93	4.79	-4.53	26.20	33.00
	1912.5	26665	V	19.39	4.75	-4.56	19.57	33.00
			H	27.11	4.74	-4.57	27.29	33.00
BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	19.07	4.84	-4.49	19.41	33.00
			H	25.93	4.84	-4.49	26.27	33.00
	1882.5	26365	V	19.38	4.79	-4.53	19.64	33.00
			H	25.75	4.79	-4.53	26.01	33.00
	1912.5	26665	V	17.28	4.74	-4.57	17.45	33.00
			H	26.52	4.74	-4.58	26.68	33.00
BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	20.13	4.84	-4.49	20.49	33.00
			H	27.50	4.84	-4.49	27.86	33.00
	1882.5	26365	V	21.42	4.79	-4.53	21.69	33.00
			H	26.55	4.79	-4.53	26.82	33.00
	1912.5	26665	V	20.01	4.74	-4.57	20.19	33.00
			H	27.76	4.74	-4.57	27.94	33.00
BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	19.53	4.84	-4.49	19.88	33.00
			H	26.39	4.84	-4.49	26.74	33.00
	1882.5	26365	V	20.21	4.79	-4.53	20.47	33.00
			H	26.55	4.79	-4.53	26.80	33.00
	1912.5	26665	V	18.04	4.74	-4.57	18.20	33.00
			H	27.13	4.74	-4.57	27.29	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	19.19	4.84	-4.49	19.54	33.00
			H	26.57	4.84	-4.49	26.93	33.00
	1882.5	26365	V	19.27	4.80	-4.52	19.54	33.00
			H	26.44	4.80	-4.52	26.72	33.00
	1910.0	26640	V	18.76	4.75	-4.56	18.95	33.00
			H	26.80	4.75	-4.56	26.99	33.00
BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	18.44	4.83	-4.50	18.77	33.00
			H	26.29	4.83	-4.50	26.62	33.00
	1882.5	26365	V	18.12	4.78	-4.53	18.37	33.00
			H	25.44	4.78	-4.53	25.69	33.00
	1910.0	26640	V	18.77	4.74	-4.58	18.93	33.00
			H	25.92	4.74	-4.57	26.09	33.00
BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	20.07	4.84	-4.49	20.43	33.00
			H	27.42	4.84	-4.49	27.78	33.00
	1882.5	26365	V	20.12	4.80	-4.52	20.40	33.00
			H	26.62	4.80	-4.52	26.90	33.00
	1910.0	26640	V	18.69	4.75	-4.56	18.88	33.00
			H	27.04	4.75	-4.56	27.24	33.00
BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	19.09	4.83	-4.50	19.42	33.00
			H	26.85	4.83	-4.50	27.18	33.00
	1882.5	26365	V	19.22	4.78	-4.53	19.47	33.00
			H	26.20	4.78	-4.53	26.45	33.00
	1910.0	26640	V	19.48	4.74	-4.57	19.64	33.00
			H	26.66	4.74	-4.57	26.82	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	19.14	4.84	-4.49	19.50	33.00
			H	26.72	4.84	-4.49	27.07	33.00
	1882.5	26365	V	19.54	4.80	-4.52	19.82	33.00
			H	26.16	4.80	-4.52	26.44	33.00
	1907.5	26615	V	18.99	4.76	-4.55	19.20	33.00
			H	25.93	4.76	-4.55	26.14	33.00
BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	18.67	4.82	-4.50	18.99	33.00
			H	26.56	4.82	-4.50	26.88	33.00
	1882.5	26365	V	19.33	4.78	-4.54	19.57	33.00
			H	25.32	4.78	-4.54	25.56	33.00
	1907.5	26615	V	18.11	4.74	-4.57	18.27	33.00
			H	25.21	4.74	-4.57	25.38	33.00
BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	19.90	4.84	-4.49	20.26	33.00
			H	27.06	4.84	-4.49	27.41	33.00
	1882.5	26365	V	19.60	4.80	-4.52	19.88	33.00
			H	26.32	4.80	-4.52	26.60	33.00
	1907.5	26615	V	19.33	4.76	-4.55	19.53	33.00
			H	26.43	4.76	-4.55	26.64	33.00
BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	19.29	4.82	-4.50	19.61	33.00
			H	27.27	4.82	-4.50	27.58	33.00
	1882.5	26365	V	20.10	4.78	-4.54	20.35	33.00
			H	26.09	4.78	-4.54	26.33	33.00
	1907.5	26615	V	18.73	4.74	-4.57	18.90	33.00
			H	25.92	4.74	-4.57	26.09	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	19.17	4.84	-4.49	19.53	33.00
			H	26.36	4.84	-4.49	26.71	33.00
	1882.5	26365	V	19.97	4.81	-4.52	20.26	33.00
			H	26.54	4.81	-4.52	26.83	33.00
	1905.0	26590	V	18.50	4.77	-4.55	18.73	33.00
			H	26.24	4.77	-4.55	26.46	33.00
BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	18.01	4.81	-4.51	18.32	33.00
			H	26.76	4.81	-4.51	27.06	33.00
	1882.5	26365	V	18.81	4.77	-4.54	19.05	33.00
			H	24.87	4.78	-4.54	25.10	33.00
	1905.0	26590	V	17.88	4.74	-4.57	18.04	33.00
			H	25.25	4.74	-4.57	25.41	33.00
BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	19.82	4.84	-4.49	20.17	33.00
			H	27.09	4.84	-4.49	27.44	33.00
	1882.5	26365	V	20.06	4.81	-4.52	20.35	33.00
			H	26.75	4.81	-4.52	27.04	33.00
	1905.0	26590	V	19.06	4.77	-4.55	19.28	33.00
			H	26.76	4.77	-4.55	26.98	33.00
BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	18.75	4.81	-4.51	19.05	33.00
			H	27.55	4.81	-4.51	27.85	33.00
	1882.5	26365	V	19.50	4.77	-4.54	19.74	33.00
			H	25.54	4.78	-4.54	25.78	33.00
	1905.0	26590	V	18.59	4.74	-4.57	18.76	33.00
			H	26.04	4.74	-4.57	26.20	33.00

Remark :

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

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***Antenna Model No.: TRA6927M3**

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
GPRS 850	824.2	128	V	25.52	3.45	-2.94	26.04	38.45
			H	16.89	3.45	-2.94	17.41	38.45
	836.6	190	V	25.28	3.46	-2.97	25.76	38.45
			H	13.59	3.46	-2.97	14.07	38.45
	848.8	251	V	25.09	3.47	-3.01	25.55	38.45
			H	14.71	3.47	-3.01	15.17	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EDGE 850	824.2	128	V	23.60	3.45	-2.94	24.11	38.45
			H	14.18	3.45	-2.94	14.70	38.45
	836.6	190	V	22.64	3.46	-2.97	23.13	38.45
			H	13.31	3.46	-2.97	13.79	38.45
	848.8	251	V	23.55	3.47	-3.01	24.01	38.45
			H	11.93	3.47	-3.01	12.39	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
GPRS 1900	1850.2	512	V	26.17	4.84	-4.49	26.53	33.01
			H	21.77	4.84	-4.49	22.13	33.01
	1880.0	661	V	28.51	4.79	-4.53	28.78	33.01
			H	19.97	4.79	-4.53	20.24	33.01
	1909.8	810	V	25.65	4.74	-4.57	25.83	33.01
			H	17.00	4.74	-4.57	17.18	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
EDGE 1900	1850.2	512	V	27.67	4.84	-4.49	28.02	33.01
			H	20.18	4.84	-4.49	20.53	33.01
	1880.0	661	V	27.13	4.79	-4.53	27.40	33.01
			H	18.62	4.79	-4.53	18.88	33.01
	1909.8	810	V	27.49	4.74	-4.57	27.67	33.01
			H	18.81	4.74	-4.57	18.99	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B2	1852.4	9262	V	26.61	4.84	-4.49	26.96	33.01
			H	18.42	4.84	-4.49	18.78	33.01
	1880.0	9400	V	25.04	4.79	-4.53	25.31	33.01
			H	16.65	4.79	-4.53	16.92	33.01
	1907.6	9538	V	25.30	4.75	-4.56	25.49	33.01
			H	16.65	4.75	-4.56	16.83	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B2	1852.4	9262	V	27.11	4.84	-4.49	27.46	33.01
			H	19.11	4.84	-4.49	19.46	33.01
	1880.0	9400	V	25.43	4.79	-4.53	25.70	33.01
			H	16.85	4.79	-4.53	17.12	33.01
	1907.6	9538	V	25.31	4.75	-4.56	25.50	33.01
			H	16.74	4.75	-4.56	16.92	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B2	1852.4	9262	V	26.66	4.84	-4.49	27.02	33.01
			H	18.76	4.84	-4.49	19.11	33.01
	1880.0	9400	V	25.19	4.79	-4.53	25.46	33.01
			H	16.62	4.79	-4.53	16.89	33.01
	1907.6	9538	V	24.87	4.75	-4.56	25.06	33.01
			H	16.47	4.75	-4.56	16.65	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
WCDMA B4	1712.4	1312	V	26.60	5.09	-4.29	27.39	33.01
			H	22.90	5.09	-4.29	23.69	33.01
	1732.6	1413	V	25.13	5.05	-4.31	25.86	33.01
			H	22.30	5.05	-4.31	23.03	33.01
	1752.6	1513	V	27.79	5.01	-4.37	28.43	33.01
			H	22.89	5.01	-4.37	23.53	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
HSDPA B4	1712.4	1312	V	26.42	5.08	-4.29	27.21	33.01
			H	23.12	5.09	-4.29	23.92	33.01
	1732.6	1413	V	24.96	5.05	-4.31	25.70	33.01
			H	22.40	5.05	-4.31	23.14	33.01
	1752.6	1513	V	28.47	5.01	-4.37	29.12	33.01
			H	23.65	5.01	-4.37	24.29	33.01

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B4	1712.4	1312	V	26.28	5.08	-4.29	27.07	33.01
			H	22.58	5.09	-4.29	23.38	33.01
	1732.6	1413	V	24.71	5.05	-4.31	25.45	33.01
			H	22.32	5.05	-4.31	23.06	33.01
	1752.6	1513	V	28.01	5.01	-4.37	28.65	33.01
			H	23.44	5.01	-4.37	24.08	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
WCDMA B5	826.4	4132	V	20.72	3.46	-2.94	21.23	38.45
			H	3.13	3.46	-2.94	3.64	38.45
	836.6	4183	V	17.92	3.46	-2.97	18.41	38.45
			H	8.33	3.46	-2.97	8.81	38.45
	846.6	4233	V	19.05	3.47	-3.00	19.51	38.45
			H	6.97	3.47	-3.00	7.44	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSDPA B5	826.4	4132	V	21.46	3.46	-2.94	21.97	38.45
			H	10.85	3.46	-2.94	11.36	38.45
	836.6	4183	V	19.99	3.46	-2.97	20.48	38.45
			H	10.17	3.46	-2.97	10.66	38.45
	846.6	4233	V	20.66	3.47	-3.00	21.12	38.45
			H	8.65	3.47	-3.00	9.11	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
HSUPA B5	826.4	4132	V	21.26	3.46	-2.94	21.78	38.45
			H	10.46	3.46	-2.94	10.98	38.45
	836.6	4183	V	20.43	3.46	-2.97	20.92	38.45
			H	10.43	3.46	-2.97	10.92	38.45
	846.6	4233	V	20.20	3.47	-3.00	20.67	38.45
			H	8.18	3.47	-3.00	8.65	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA BC0	824.7	1013	V	21.26	3.45	-2.94	21.78	38.45
			H	10.29	3.45	-2.94	10.80	38.45
	836.52	384	V	20.83	3.46	-2.98	21.32	38.45
			H	8.15	3.46	-2.98	8.63	38.45
	848.31	777	V	19.03	3.47	-3.01	19.50	38.45
			H	8.85	3.47	-3.01	9.31	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EVDO 2000 BC0	824.7	1013	V	21.08	3.45	-2.94	21.60	38.45
			H	9.73	3.46	-2.94	10.24	38.45
	836.52	384	V	20.57	3.46	-2.97	21.06	38.45
			H	7.37	3.46	-2.97	7.86	38.45
	848.31	777	V	17.83	3.47	-3.01	18.30	38.45
			H	8.36	3.47	-3.01	8.82	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA BC1	1851.25	25	V	25.21	4.84	-4.49	25.57	33.00
			H	16.73	4.84	-4.49	17.09	33.00
	1880.0	600	V	23.90	4.79	-4.53	24.17	33.00
			H	16.29	4.79	-4.53	16.56	33.00
	1908.75	1175	V	24.56	4.75	-4.56	24.74	33.00
			H	19.11	4.75	-4.56	19.30	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dB	dB	dBm	dBm
EVDO 2000 BC1	1851.25	25	V	24.36	4.84	-4.49	24.71	33.00
			H	14.42	4.84	-4.49	14.78	33.00
	1880.0	600	V	23.03	4.79	-4.53	23.30	33.00
			H	15.03	4.79	-4.53	15.30	33.00
	1908.75	1175	V	23.93	4.75	-4.56	24.11	33.00
			H	16.54	4.75	-4.56	16.72	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA BC10	817.9	476	V	20.84	3.45	-2.92	21.38	50.00
			H	10.05	3.45	-2.92	10.59	50.00
	820.5	580	V	20.84	3.45	-2.93	21.37	50.00
			H	9.29	3.45	-2.92	9.82	50.00
	823.1	684	V	20.84	3.45	-2.93	21.36	50.00
			H	9.08	3.45	-2.93	9.60	50.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EVDO 2000 BC10	817.9	476	V	20.44	3.45	-2.92	20.98	50.00
			H	9.65	3.45	-2.92	10.19	50.00
	820.5	580	V	19.69	3.45	-2.93	20.22	50.00
			H	8.60	3.45	-2.93	9.13	50.00
	823.1	684	V	19.97	3.45	-2.93	20.49	50.00
			H	8.72	3.45	-2.93	9.24	50.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	29.31	4.84	-4.49	29.67	33.01
			H	19.71	4.84	-4.49	20.07	33.01
	1880.0	18900	V	26.64	4.80	-4.52	26.91	33.01
			H	18.92	4.80	-4.52	19.19	33.01
	1909.3	19193	V	18.95	4.75	-4.56	19.14	33.01
			H	19.69	4.75	-4.56	19.87	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	29.29	4.84	-4.49	29.65	33.01
			H	19.73	4.84	-4.49	20.08	33.01
	1880.0	18900	V	26.93	4.79	-4.53	27.20	33.01
			H	19.04	4.79	-4.53	19.31	33.01
	1909.3	19193	V	25.43	4.74	-4.57	25.61	33.01
			H	19.24	4.74	-4.57	19.41	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	30.34	4.84	-4.49	30.70	33.01
			H	20.72	4.84	-4.49	21.08	33.01
	1880.0	18900	V	27.64	4.80	-4.52	27.91	33.01
			H	19.83	4.80	-4.52	20.10	33.01
	1909.3	19193	V	26.50	4.75	-4.56	26.68	33.01
			H	20.59	4.75	-4.56	20.77	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	30.31	4.84	-4.49	30.66	33.01
			H	20.79	4.84	-4.49	21.15	33.01
	1880.0	18900	V	27.88	4.79	-4.53	28.15	33.01
			H	19.95	4.79	-4.53	20.22	33.01
	1909.3	19193	V	26.27	4.75	-4.56	26.46	33.01
			H	20.00	4.75	-4.56	20.18	33.01

Remark :

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

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	29.21	4.84	-4.49	29.57	33.01
			H	19.62	4.84	-4.49	19.98	33.01
	1880.0	18900	V	26.42	4.80	-4.52	26.69	33.01
			H	19.80	4.80	-4.52	20.07	33.01
	1908.5	19185	V	21.34	4.75	-4.56	21.53	33.01
			H	18.54	4.75	-4.56	18.72	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	28.84	4.84	-4.49	29.19	33.01
			H	19.65	4.84	-4.49	20.00	33.01
	1880.0	18900	V	27.36	4.79	-4.53	27.63	33.01
			H	19.97	4.79	-4.53	20.24	33.01
	1908.5	19185	V	20.01	4.75	-4.56	20.19	33.01
			H	17.93	4.75	-4.56	18.12	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	30.03	4.84	-4.49	30.39	33.01
			H	20.54	4.84	-4.49	20.89	33.01
	1880.0	18900	V	27.16	4.80	-4.52	27.43	33.01
			H	20.65	4.80	-4.52	20.92	33.01
	1908.5	19185	V	21.97	4.75	-4.56	22.16	33.01
			H	19.18	4.75	-4.56	19.37	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	29.64	4.84	-4.49	29.99	33.01
			H	20.31	4.84	-4.49	20.66	33.01
	1880.0	18900	V	28.08	4.79	-4.53	28.34	33.01
			H	20.75	4.79	-4.53	21.02	33.01
	1908.5	19185	V	20.77	4.75	-4.56	20.96	33.01
			H	18.71	4.75	-4.56	18.89	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	29.35	4.84	-4.49	29.70	33.01
			H	20.01	4.84	-4.49	20.37	33.01
	1880.0	18900	V	25.89	4.80	-4.52	26.17	33.01
			H	17.45	4.80	-4.52	17.72	33.01
	1907.5	19175	V	22.89	4.75	-4.56	23.08	33.01
			H	20.00	4.75	-4.56	20.20	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	28.06	4.84	-4.49	28.41	33.01
			H	19.98	4.84	-4.49	20.32	33.01
	1880.0	18900	V	27.49	4.79	-4.53	27.75	33.01
			H	18.33	4.79	-4.53	18.59	33.01
	1907.5	19175	V	20.06	4.75	-4.56	20.24	33.01
			H	18.60	4.75	-4.56	18.78	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	30.11	4.84	-4.49	30.46	33.01
			H	20.76	4.84	-4.49	21.12	33.01
	1880.0	18900	V	26.69	4.80	-4.52	26.97	33.01
			H	18.21	4.80	-4.52	18.48	33.01
	1907.5	19175	V	23.34	4.75	-4.56	23.54	33.01
			H	20.40	4.75	-4.56	20.60	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	28.79	4.84	-4.49	29.13	33.01
			H	20.70	4.84	-4.49	21.05	33.01
	1880.0	18900	V	27.98	4.79	-4.53	28.24	33.01
			H	18.82	4.79	-4.53	19.08	33.01
	1907.5	19175	V	20.74	4.75	-4.56	20.92	33.01
			H	19.30	4.75	-4.56	19.48	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	28.62	4.84	-4.49	28.97	33.01
			H	20.08	4.84	-4.49	20.44	33.01
	1880.0	18900	V	19.99	4.80	-4.52	20.28	33.01
			H	20.10	4.80	-4.52	20.38	33.01
	1905.0	19150	V	25.81	4.76	-4.55	26.02	33.01
			H	20.20	4.76	-4.55	20.41	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	27.30	4.83	-4.50	27.64	33.01
			H	17.92	4.83	-4.50	18.26	33.01
	1880.0	18900	V	24.61	4.79	-4.53	24.87	33.01
			H	19.36	4.79	-4.53	19.61	33.01
	1905.0	19150	V	20.26	4.75	-4.56	20.44	33.01
			H	18.36	4.75	-4.56	18.54	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	29.15	4.84	-4.49	29.51	33.01
			H	20.54	4.84	-4.49	20.90	33.01
	1880.0	18900	V	20.51	4.80	-4.52	20.79	33.01
			H	20.59	4.80	-4.52	20.86	33.01
	1905.0	19150	V	26.59	4.76	-4.55	26.80	33.01
			H	21.01	4.76	-4.55	21.22	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	27.72	4.83	-4.50	28.05	33.01
			H	18.31	4.83	-4.50	18.64	33.01
	1880.0	18900	V	24.88	4.79	-4.53	25.14	33.01
			H	19.62	4.79	-4.53	19.88	33.01
	1905.0	19150	V	20.41	4.75	-4.56	20.60	33.01
			H	18.49	4.75	-4.56	18.67	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	29.36	4.84	-4.49	29.72	33.01
			H	20.22	4.84	-4.49	20.58	33.01
	1880.0	18900	V	27.85	4.81	-4.52	28.14	33.01
			H	20.02	4.81	-4.52	20.31	33.01
	1902.5	19125	V	26.70	4.77	-4.55	26.93	33.01
			H	20.58	4.77	-4.55	20.80	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	20.68	4.82	-4.50	21.00	33.01
			H	17.08	4.82	-4.50	17.40	33.01
	1880.0	18900	V	24.13	4.78	-4.53	24.38	33.01
			H	18.42	4.78	-4.53	18.67	33.01
	1902.5	19125	V	20.57	4.75	-4.56	20.75	33.01
			H	18.41	4.75	-4.56	18.59	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	30.22	4.84	-4.49	30.57	33.01
			H	21.00	4.84	-4.49	21.36	33.01
	1880.0	18900	V	28.67	4.81	-4.52	28.96	33.01
			H	20.87	4.80	-4.52	21.15	33.01
	1902.5	19125	V	27.50	4.77	-4.55	27.72	33.01
			H	21.42	4.77	-4.55	21.64	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	21.33	4.82	-4.50	21.65	33.01
			H	17.74	4.82	-4.50	18.05	33.01
	1880.0	18900	V	24.99	4.78	-4.53	25.24	33.01
			H	19.22	4.78	-4.53	19.47	33.01
	1902.5	19125	V	20.76	4.75	-4.56	20.94	33.01
			H	18.59	4.75	-4.56	18.77	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	29.18	4.84	-4.49	29.53	33.01
			H	20.11	4.84	-4.49	20.47	33.01
	1880.0	18900	V	27.82	4.81	-4.51	28.12	33.01
			H	20.12	4.81	-4.51	20.41	33.01
	1900.0	19100	V	26.72	4.78	-4.54	26.95	33.01
			H	19.64	4.78	-4.54	19.87	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	21.26	4.81	-4.51	21.56	33.01
			H	16.01	4.81	-4.51	16.32	33.01
	1880.0	18900	V	22.49	4.78	-4.54	22.73	33.01
			H	15.65	4.78	-4.54	15.89	33.01
	1900.0	19100	V	20.26	4.75	-4.56	20.44	33.01
			H	16.95	4.75	-4.56	17.13	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	29.70	4.84	-4.49	30.06	33.01
			H	20.55	4.84	-4.49	20.91	33.01
	1880.0	18900	V	28.30	4.81	-4.51	28.60	33.01
			H	20.42	4.81	-4.51	20.71	33.01
	1900.0	19100	V	27.18	4.78	-4.54	27.41	33.01
			H	20.15	4.78	-4.54	20.38	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	22.02	4.81	-4.51	22.32	33.01
			H	16.67	4.81	-4.51	16.97	33.01
	1880.0	18900	V	23.17	4.78	-4.54	23.41	33.01
			H	16.34	4.78	-4.54	16.58	33.01
	1900.0	19100	V	20.38	4.75	-4.56	20.56	33.01
			H	17.18	4.75	-4.56	17.36	33.01

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	26.96	5.09	-4.29	27.76	30.00
			H	19.50	5.09	-4.29	20.30	30.00
	1732.5	20175	V	25.70	5.05	-4.31	26.44	30.00
			H	16.56	5.05	-4.31	17.30	30.00
	1754.3	20393	V	28.56	5.01	-4.37	29.20	30.00
			H	20.49	5.01	-4.37	21.13	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	26.86	5.09	-4.29	27.66	30.00
			H	19.35	5.09	-4.29	20.15	30.00
	1732.5	20175	V	26.03	5.05	-4.31	26.76	30.00
			H	16.78	5.05	-4.32	17.51	30.00
	1754.3	20393	V	28.42	5.01	-4.37	29.05	30.00
			H	20.33	5.01	-4.37	20.96	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	27.75	5.09	-4.29	28.56	30.00
			H	20.25	5.09	-4.29	21.05	30.00
	1732.5	20175	V	25.84	5.05	-4.31	26.58	30.00
			H	16.62	5.05	-4.31	17.36	30.00
	1754.3	20393	V	28.52	5.01	-4.37	29.16	30.00
			H	21.47	5.01	-4.37	22.11	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	27.46	5.09	-4.29	28.26	30.00
			H	19.88	5.09	-4.29	20.68	30.00
	1732.5	20175	V	26.12	5.05	-4.31	26.85	30.00
			H	16.88	5.05	-4.31	17.61	30.00
	1754.3	20393	V	28.81	5.01	-4.37	29.45	30.00
			H	21.19	5.01	-4.37	21.83	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	26.76	5.09	-4.29	27.56	30.00
			H	19.57	5.09	-4.29	20.37	30.00
	1732.5	20175	V	25.39	5.05	-4.31	26.13	30.00
			H	16.47	5.05	-4.31	17.21	30.00
	1753.5	20385	V	28.65	5.01	-4.37	29.29	30.00
			H	20.67	5.01	-4.37	21.32	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	26.58	5.09	-4.29	27.38	30.00
			H	19.04	5.09	-4.29	19.84	30.00
	1732.5	20175	V	26.19	5.05	-4.31	26.92	30.00
			H	16.92	5.05	-4.32	17.65	30.00
	1753.5	20385	V	28.63	5.01	-4.38	29.26	30.00
			H	20.32	5.01	-4.37	20.96	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	27.40	5.09	-4.29	28.20	30.00
			H	20.08	5.09	-4.29	20.88	30.00
	1732.5	20175	V	25.52	5.05	-4.31	26.26	30.00
			H	16.47	5.05	-4.31	17.22	30.00
	1753.5	20385	V	28.89	5.01	-4.37	29.53	30.00
			H	21.32	5.01	-4.37	21.97	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	26.92	5.09	-4.29	27.72	30.00
			H	19.38	5.09	-4.29	20.18	30.00
	1732.5	20175	V	26.50	5.05	-4.32	27.23	30.00
			H	17.23	5.05	-4.32	17.96	30.00
	1753.5	20385	V	28.18	5.01	-4.37	28.82	30.00
			H	21.02	5.01	-4.37	21.65	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	26.81	5.09	-4.29	27.62	30.00
			H	19.62	5.09	-4.29	20.42	30.00
	1732.5	20175	V	25.26	5.05	-4.31	26.00	30.00
			H	16.58	5.05	-4.31	17.33	30.00
	1752.5	20375	V	28.47	5.02	-4.36	29.13	30.00
			H	20.87	5.02	-4.36	21.53	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	26.55	5.08	-4.29	27.34	30.00
			H	19.05	5.08	-4.29	19.84	30.00
	1732.5	20175	V	26.62	5.05	-4.32	27.35	30.00
			H	16.66	5.05	-4.32	17.39	30.00
	1752.5	20375	V	28.42	5.01	-4.37	29.05	30.00
			H	20.21	5.01	-4.37	20.85	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	27.50	5.09	-4.29	28.30	30.00
			H	20.27	5.09	-4.29	21.07	30.00
	1732.5	20175	V	25.42	5.05	-4.31	26.16	30.00
			H	16.77	5.05	-4.31	17.51	30.00
	1752.5	20375	V	28.35	5.02	-4.36	29.01	30.00
			H	21.74	5.02	-4.36	22.40	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	26.85	5.08	-4.29	27.64	30.00
			H	19.34	5.08	-4.29	20.13	30.00
	1732.5	20175	V	26.78	5.05	-4.32	27.51	30.00
			H	16.87	5.05	-4.32	17.60	30.00
	1752.5	20375	V	28.02	5.01	-4.37	28.65	30.00
			H	21.03	5.01	-4.37	21.67	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	26.81	5.09	-4.29	27.61	30.00
			H	19.41	5.09	-4.29	20.21	30.00
	1732.0	20175	V	25.07	5.06	-4.30	25.82	30.00
			H	17.27	5.06	-4.30	18.03	30.00
	1750.0	20350	V	28.29	5.02	-4.35	28.97	30.00
			H	20.03	5.03	-4.35	20.70	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	26.43	5.07	-4.30	27.20	30.00
			H	19.38	5.07	-4.30	20.15	30.00
	1732.0	20175	V	27.57	5.04	-4.32	28.29	30.00
			H	16.54	5.04	-4.33	17.26	30.00
	1750.0	20350	V	26.88	5.01	-4.37	27.52	30.00
			H	19.53	5.01	-4.37	20.17	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	27.36	5.09	-4.29	28.16	30.00
			H	19.86	5.09	-4.29	20.66	30.00
	1732.0	20175	V	25.27	5.06	-4.30	26.02	30.00
			H	17.47	5.06	-4.30	18.22	30.00
	1750.0	20350	V	28.74	5.03	-4.35	29.42	30.00
			H	20.52	5.03	-4.35	21.19	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	26.81	5.07	-4.30	27.59	30.00
			H	19.75	5.07	-4.30	20.52	30.00
	1732.0	20175	V	28.09	5.04	-4.32	28.80	30.00
			H	17.02	5.04	-4.32	17.73	30.00
	1750.0	20350	V	27.46	5.01	-4.37	28.10	30.00
			H	20.23	5.01	-4.37	20.86	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	26.70	5.09	-4.29	27.50	30.00
			H	19.36	5.09	-4.29	20.16	30.00
	1732.5	20175	V	25.19	5.06	-4.30	25.95	30.00
			H	18.24	5.06	-4.30	19.00	30.00
	1747.5	20325	V	28.40	5.03	-4.34	29.10	30.00
			H	18.95	5.03	-4.34	19.64	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	24.76	5.06	-4.30	25.53	30.00
			H	17.97	5.06	-4.30	18.73	30.00
	1732.5	20175	V	28.20	5.04	-4.33	28.91	30.00
			H	17.16	5.04	-4.33	17.86	30.00
	1747.5	20325	V	25.65	5.01	-4.37	26.28	30.00
			H	19.34	5.01	-4.37	19.98	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	27.43	5.09	-4.29	28.23	30.00
			H	20.18	5.09	-4.29	20.98	30.00
	1732.5	20175	V	25.51	5.06	-4.30	26.27	30.00
			H	18.52	5.06	-4.30	19.28	30.00
	1747.5	20325	V	28.74	5.03	-4.34	29.44	30.00
			H	19.90	5.04	-4.33	20.60	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	25.14	5.06	-4.30	25.90	30.00
			H	18.35	5.06	-4.30	19.12	30.00
	1732.5	20175	V	29.03	5.04	-4.33	29.74	30.00
			H	18.09	5.04	-4.33	18.80	30.00
	1747.5	20325	V	26.65	5.01	-4.37	27.29	30.00
			H	20.39	5.01	-4.37	21.03	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	26.72	5.09	-4.29	27.52	30.00
			H	19.35	5.09	-4.29	20.15	30.00
	1732.5	20175	V	25.25	5.07	-4.30	26.02	30.00
			H	19.30	5.06	-4.30	20.06	30.00
	1745.0	20300	V	27.13	5.04	-4.32	27.85	30.00
			H	17.76	5.04	-4.32	18.48	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	21.65	5.06	-4.30	22.40	30.00
			H	16.20	5.06	-4.30	16.95	30.00
	1732.5	20175	V	28.38	5.03	-4.34	29.08	30.00
			H	18.51	5.03	-4.34	19.21	30.00
	1745.0	20300	V	25.84	5.01	-4.37	26.48	30.00
			H	19.60	5.01	-4.37	20.24	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	27.28	5.09	-4.29	28.08	30.00
			H	19.89	5.09	-4.29	20.69	30.00
	1732.5	20175	V	25.56	5.06	-4.30	26.32	30.00
			H	19.54	5.07	-4.30	20.31	30.00
	1745.0	20300	V	27.62	5.04	-4.32	28.34	30.00
			H	18.22	5.04	-4.32	18.94	30.00
BAND 4 BW: 15M 16QAM RB: 1,99	1720.0	20050	V	21.82	5.06	-4.30	22.57	30.00
			H	16.38	5.06	-4.30	17.13	30.00
	1732.5	20175	V	29.03	5.03	-4.34	29.72	30.00
			H	19.07	5.03	-4.34	19.76	30.00
	1745.0	20300	V	26.76	5.01	-4.37	27.40	30.00
			H	20.51	5.01	-4.37	21.15	30.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	22.93	3.46	-2.94	23.44	38.45
			H	12.60	3.45	-2.94	13.12	38.45
	836.5	20525	V	20.96	3.46	-2.97	21.45	38.45
			H	13.60	3.46	-2.97	14.09	38.45
	848.3	20643	V	21.48	3.47	-3.01	21.94	38.45
			H	13.72	3.47	-3.00	14.19	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	22.61	3.46	-2.94	23.13	38.45
			H	12.20	3.46	-2.94	12.71	38.45
	836.5	20525	V	20.34	3.46	-2.97	20.82	38.45
			H	13.17	3.46	-2.97	13.66	38.45
	848.3	20643	V	21.35	3.47	-3.01	21.81	38.45
			H	13.47	3.47	-3.01	13.93	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	23.52	3.45	-2.94	24.04	38.45
			H	13.72	3.45	-2.94	14.23	38.45
	836.5	20525	V	22.01	3.46	-2.97	22.50	38.45
			H	14.39	3.46	-2.97	14.88	38.45
	848.3	20643	V	21.85	3.47	-3.01	22.31	38.45
			H	14.32	3.47	-3.00	14.78	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	23.51	3.46	-2.94	24.02	38.45
			H	13.63	3.46	-2.94	14.14	38.45
	836.5	20525	V	21.48	3.46	-2.97	21.97	38.45
			H	14.33	3.46	-2.97	14.82	38.45
	848.3	20643	V	21.95	3.47	-3.01	22.41	38.45
			H	14.10	3.47	-3.01	14.56	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	22.63	3.45	-2.94	23.15	38.45
			H	12.64	3.45	-2.94	13.16	38.45
	836.5	20525	V	21.09	3.46	-2.97	21.58	38.45
			H	11.73	3.46	-2.97	12.22	38.45
	847.5	20635	V	21.56	3.47	-3.00	22.02	38.45
			H	13.90	3.47	-3.00	14.37	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	21.91	3.46	-2.94	22.42	38.45
			H	12.26	3.46	-2.94	12.78	38.45
	836.5	20525	V	19.89	3.46	-2.98	20.38	38.45
			H	12.37	3.46	-2.98	12.86	38.45
	847.5	20635	V	21.38	3.47	-3.01	21.84	38.45
			H	13.09	3.47	-3.01	13.55	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	23.08	3.46	-2.94	23.60	38.45
			H	13.34	3.45	-2.94	13.86	38.45
	836.5	20525	V	21.93	3.46	-2.97	22.42	38.45
			H	12.63	3.46	-2.97	13.12	38.45
	847.5	20635	V	22.12	3.47	-3.00	22.58	38.45
			H	14.46	3.47	-3.00	14.93	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	22.94	3.46	-2.95	23.45	38.45
			H	13.02	3.46	-2.94	13.54	38.45
	836.5	20525	V	20.63	3.46	-2.97	21.12	38.45
			H	13.10	3.46	-2.97	13.59	38.45
	847.5	20635	V	21.79	3.47	-3.01	22.25	38.45
			H	13.57	3.47	-3.01	14.03	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	22.55	3.46	-2.94	23.06	38.45
			H	12.61	3.45	-2.94	13.13	38.45
	836.5	20525	V	21.37	3.46	-2.97	21.86	38.45
			H	12.80	3.46	-2.97	13.29	38.45
	846.5	20625	V	21.91	3.46	-2.99	22.38	38.45
			H	14.53	3.46	-2.99	15.00	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	21.26	3.46	-2.95	21.77	38.45
			H	12.05	3.46	-2.95	12.56	38.45
	836.5	20525	V	19.43	3.46	-2.98	19.92	38.45
			H	13.07	3.46	-2.98	13.55	38.45
	846.5	20625	V	21.63	3.47	-3.01	22.09	38.45
			H	13.58	3.47	-3.01	14.04	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	23.20	3.45	-2.94	23.72	38.45
			H	13.44	3.45	-2.94	13.95	38.45
	836.5	20525	V	22.39	3.46	-2.97	22.88	38.45
			H	13.86	3.46	-2.97	14.36	38.45
	846.5	20625	V	22.42	3.46	-2.99	22.89	38.45
			H	15.15	3.46	-2.99	15.62	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	22.70	3.46	-2.95	23.21	38.45
			H	13.02	3.46	-2.95	13.53	38.45
	836.5	20525	V	20.20	3.46	-2.98	20.68	38.45
			H	14.34	3.46	-2.98	14.82	38.45
	846.5	20625	V	22.09	3.47	-3.01	22.56	38.45
			H	14.10	3.47	-3.00	14.56	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	22.73	3.46	-2.94	23.25	38.45
			H	12.77	3.45	-2.94	13.28	38.45
	836.5	20525	V	21.18	3.46	-2.96	21.67	38.45
			H	11.73	3.46	-2.96	12.23	38.45
	844.0	20600	V	20.35	3.46	-2.98	20.83	38.45
			H	13.07	3.46	-2.98	13.55	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	20.20	3.46	-2.97	20.69	38.45
			H	12.27	3.46	-2.97	12.77	38.45
	836.5	20525	V	18.74	3.46	-2.99	19.22	38.45
			H	13.59	3.46	-2.99	14.07	38.45
	844.0	20600	V	21.61	3.47	-3.01	22.07	38.45
			H	13.80	3.47	-3.01	14.27	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	23.38	3.46	-2.94	23.90	38.45
			H	13.54	3.45	-2.94	14.06	38.45
	836.5	20525	V	22.51	3.46	-2.96	23.01	38.45
			H	13.10	3.46	-2.96	13.60	38.45
	844.0	20600	V	21.08	3.46	-2.98	21.56	38.45
			H	13.94	3.46	-2.98	14.42	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	20.93	3.46	-2.97	21.43	38.45
			H	13.11	3.46	-2.96	13.61	38.45
	836.5	20525	V	19.62	3.46	-2.99	20.10	38.45
			H	14.44	3.46	-2.99	14.92	38.45
	844.0	20600	V	22.14	3.47	-3.01	22.60	38.45
			H	14.21	3.47	-3.01	14.67	38.45

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	22.62	3.37	-2.77	23.22	34.77
			H	12.50	3.37	-2.77	13.10	34.77
	782.0	23230	V	22.21	3.38	-2.78	22.81	34.77
			H	12.97	3.38	-2.78	13.57	34.77
	784.5	23255	V	19.34	3.38	-2.78	19.94	34.77
			H	11.23	3.39	-2.79	11.83	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	19.94	3.38	-2.78	20.54	34.77
			H	11.64	3.38	-2.78	12.24	34.77
	782.0	23230	V	18.31	3.39	-2.79	18.91	34.77
			H	11.74	3.39	-2.80	12.34	34.77
	784.5	23255	V	19.18	3.40	-2.80	19.78	34.77
			H	13.54	3.40	-2.80	14.14	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	23.18	3.37	-2.77	23.78	34.77
			H	13.21	3.37	-2.77	13.81	34.77
	782.0	23230	V	23.08	3.38	-2.78	23.68	34.77
			H	13.94	3.38	-2.78	14.54	34.77
	784.5	23255	V	19.76	3.38	-2.79	20.36	34.77
			H	11.79	3.38	-2.79	12.39	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	20.48	3.38	-2.78	21.08	34.77
			H	12.26	3.38	-2.78	12.86	34.77
	782.0	23230	V	18.87	3.39	-2.79	19.46	34.77
			H	12.19	3.39	-2.79	12.79	34.77
	784.5	23255	V	19.93	3.40	-2.80	20.53	34.77
			H	14.39	3.40	-2.80	14.99	34.77

Remark :

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	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	22.65	3.37	-2.77	23.26	34.77
			H	12.54	3.37	-2.77	13.14	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	18.77	3.40	-2.80	19.37	34.77
			H	13.25	3.40	-2.80	13.85	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	23.33	3.37	-2.77	23.93	34.77
			H	13.39	3.37	-2.77	13.99	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	19.55	3.40	-2.80	20.15	34.77
			H	14.10	3.40	-2.80	14.70	34.77

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	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	20.21	3.37	-2.60	20.98	34.77
			H	11.40	3.37	-2.60	12.17	34.77
	710.0	23790	V	18.58	3.37	-2.60	19.35	34.77
			H	10.18	3.37	-2.60	10.95	34.77
	713.5	23825	V	18.30	3.36	-2.60	19.06	34.77
			H	9.82	3.36	-2.60	10.58	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	18.38	3.37	-2.60	19.14	34.77
			H	10.00	3.37	-2.60	10.77	34.77
	710.0	23790	V	18.75	3.36	-2.60	19.51	34.77
			H	9.93	3.36	-2.60	10.69	34.77
	713.5	23825	V	17.60	3.35	-2.61	18.34	34.77
			H	8.76	3.35	-2.61	9.50	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	21.55	3.37	-2.60	22.32	34.77
			H	12.71	3.37	-2.60	13.48	34.77
	710.0	23790	V	19.66	3.37	-2.60	20.43	34.77
			H	11.23	3.37	-2.60	11.99	34.77
	713.5	23825	V	19.87	3.36	-2.60	20.63	34.77
			H	11.46	3.36	-2.60	12.22	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	19.09	3.37	-2.60	19.85	34.77
			H	10.67	3.37	-2.60	11.44	34.77
	710.0	23790	V	19.62	3.36	-2.60	20.38	34.77
			H	10.84	3.36	-2.60	11.59	34.77
	713.5	23825	V	18.27	3.35	-2.61	19.01	34.77
			H	9.49	3.35	-2.61	10.23	34.77

Remark :

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	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	20.11	3.37	-2.60	20.88	34.77
			H	11.42	3.37	-2.60	12.19	34.77
	710.0	23790	V	20.30	3.37	-2.60	21.06	34.77
			H	11.23	3.37	-2.60	11.99	34.77
	711.0	23800	V	19.28	3.37	-2.60	20.05	34.77
			H	10.82	3.37	-2.60	11.59	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	18.49	3.36	-2.61	19.24	34.77
			H	9.31	3.36	-2.61	10.06	34.77
	710.0	23790	V	18.54	3.36	-2.61	19.29	34.77
			H	9.28	3.36	-2.61	10.03	34.77
	711.0	23800	V	17.53	3.35	-2.61	18.27	34.77
			H	8.08	3.35	-2.61	8.82	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	21.45	3.37	-2.60	22.22	34.77
			H	12.17	3.37	-2.60	12.94	34.77
	710.0	23790	V	21.08	3.37	-2.60	21.85	34.77
			H	12.13	3.37	-2.60	12.90	34.77
	711.0	23800	V	20.19	3.37	-2.60	20.96	34.77
			H	11.70	3.37	-2.60	12.46	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	19.49	3.36	-2.61	20.24	34.77
			H	10.35	3.36	-2.61	11.10	34.77
	710.0	23790	V	19.45	3.36	-2.61	20.20	34.77
			H	10.31	3.36	-2.61	11.06	34.77
	711.0	23800	V	18.34	3.35	-2.61	19.08	34.77
			H	8.88	3.35	-2.61	9.62	34.77

Remark :

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EUT			Measurement					
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	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 1.4M QPSK RB: 1,0	1850.7	26047	V	28.98	4.84	-4.49	29.34	33.00
			H	20.38	4.84	-4.49	20.73	33.00
	1882.5	26365	V	26.53	4.79	-4.53	26.79	33.00
			H	19.85	4.79	-4.53	20.12	33.00
	1914.3	26683	V	24.05	4.74	-4.57	24.22	33.00
			H	16.80	4.74	-4.57	16.97	33.00
BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	28.99	4.84	-4.49	29.35	33.00
			H	20.40	4.84	-4.49	20.75	33.00
	1882.5	26365	V	26.52	4.79	-4.53	26.78	33.00
			H	19.52	4.79	-4.53	19.78	33.00
	1914.3	26683	V	24.30	4.74	-4.57	24.46	33.00
			H	16.84	4.74	-4.57	17.01	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	29.95	4.84	-4.49	30.31	33.00
			H	21.36	4.84	-4.49	21.72	33.00
	1882.5	26365	V	27.38	4.79	-4.53	27.64	33.00
			H	20.34	4.79	-4.53	20.60	33.00
	1914.3	26683	V	24.44	4.74	-4.57	24.61	33.00
			H	17.19	4.74	-4.57	17.35	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	30.03	4.84	-4.49	30.38	33.00
			H	21.44	4.84	-4.49	21.80	33.00
	1882.5	26365	V	27.44	4.79	-4.53	27.70	33.00
			H	20.45	4.79	-4.53	20.71	33.00
	1914.3	26683	V	25.19	4.74	-4.57	25.35	33.00
			H	17.69	4.74	-4.57	17.85	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	28.85	4.84	-4.49	29.21	33.00
			H	20.50	4.84	-4.49	20.85	33.00
	1882.5	26365	V	26.52	4.79	-4.53	26.79	33.00
			H	19.29	4.79	-4.53	19.55	33.00
	1913.5	26675	V	23.61	4.74	-4.57	23.78	33.00
			H	16.98	4.74	-4.57	17.15	33.00
BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	28.74	4.84	-4.49	29.09	33.00
			H	20.54	4.84	-4.49	20.89	33.00
	1882.5	26365	V	26.24	4.79	-4.53	26.50	33.00
			H	19.41	4.79	-4.53	19.67	33.00
	1913.5	26675	V	24.28	4.74	-4.57	24.44	33.00
			H	16.91	4.74	-4.57	17.07	33.00
BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	29.61	4.84	-4.49	29.97	33.00
			H	21.35	4.84	-4.49	21.71	33.00
	1882.5	26365	V	27.18	4.79	-4.53	27.45	33.00
			H	19.99	4.79	-4.53	20.25	33.00
	1913.5	26675	V	23.80	4.74	-4.57	23.98	33.00
			H	17.14	4.74	-4.57	17.31	33.00
BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	29.59	4.84	-4.49	29.94	33.00
			H	21.35	4.84	-4.49	21.70	33.00
	1882.5	26365	V	28.35	4.79	-4.53	28.61	33.00
			H	20.14	4.79	-4.53	20.40	33.00
	1913.5	26675	V	25.00	4.74	-4.57	25.16	33.00
			H	17.57	4.74	-4.57	17.73	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	29.00	4.84	-4.49	29.36	33.00
			H	20.57	4.84	-4.49	20.92	33.00
	1882.5	26365	V	26.60	4.79	-4.53	26.87	33.00
			H	19.45	4.79	-4.53	19.72	33.00
	1912.5	26665	V	23.65	4.74	-4.57	23.83	33.00
			H	17.89	4.74	-4.57	18.07	33.00
BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	28.47	4.84	-4.49	28.82	33.00
			H	20.43	4.84	-4.49	20.77	33.00
	1882.5	26365	V	26.01	4.79	-4.53	26.27	33.00
			H	19.51	4.79	-4.53	19.76	33.00
	1912.5	26665	V	24.33	4.74	-4.57	24.49	33.00
			H	16.13	4.74	-4.57	16.30	33.00
BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	29.66	4.84	-4.49	30.02	33.00
			H	21.41	4.84	-4.49	21.77	33.00
	1882.5	26365	V	27.06	4.79	-4.53	27.33	33.00
			H	19.98	4.79	-4.53	20.25	33.00
	1912.5	26665	V	24.26	4.75	-4.56	24.44	33.00
			H	18.53	4.74	-4.57	18.71	33.00
BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	29.21	4.84	-4.49	29.55	33.00
			H	21.09	4.84	-4.49	21.44	33.00
	1882.5	26365	V	26.84	4.79	-4.53	27.10	33.00
			H	20.34	4.79	-4.53	20.59	33.00
	1912.5	26665	V	24.95	4.74	-4.57	25.12	33.00
			H	16.89	4.74	-4.57	17.05	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	28.97	4.84	-4.49	29.32	33.00
			H	20.61	4.84	-4.49	20.96	33.00
	1882.5	26365	V	26.87	4.80	-4.52	27.15	33.00
			H	19.44	4.80	-4.52	19.71	33.00
	1910.0	26640	V	26.79	4.75	-4.56	26.98	33.00
			H	20.02	4.75	-4.56	20.21	33.00
BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	27.16	4.83	-4.50	27.49	33.00
			H	18.50	4.83	-4.50	18.83	33.00
	1882.5	26365	V	25.58	4.78	-4.54	25.83	33.00
			H	18.97	4.78	-4.54	19.21	33.00
	1910.0	26640	V	18.15	4.74	-4.57	18.33	33.00
			H	16.06	4.74	-4.57	16.22	33.00
BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	29.48	4.84	-4.49	29.84	33.00
			H	20.93	4.84	-4.49	21.29	33.00
	1882.5	26365	V	27.08	4.80	-4.52	27.35	33.00
			H	19.64	4.80	-4.52	19.92	33.00
	1910.0	26640	V	26.90	4.75	-4.56	27.09	33.00
			H	20.16	4.75	-4.56	20.35	33.00
BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	27.44	4.83	-4.50	27.77	33.00
			H	18.76	4.83	-4.50	19.09	33.00
	1882.5	26365	V	26.38	4.78	-4.53	26.63	33.00
			H	19.79	4.78	-4.53	20.04	33.00
	1910.0	26640	V	18.97	4.74	-4.57	19.14	33.00
			H	16.77	4.74	-4.57	16.93	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	28.98	4.84	-4.49	29.33	33.00
			H	20.58	4.84	-4.49	20.94	33.00
	1882.5	26365	V	27.00	4.80	-4.52	27.28	33.00
			H	19.12	4.80	-4.52	19.41	33.00
	1907.5	26615	V	27.08	4.76	-4.55	27.29	33.00
			H	19.61	4.76	-4.55	19.82	33.00
BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	26.43	4.82	-4.51	26.74	33.00
			H	17.01	4.82	-4.50	17.33	33.00
	1882.5	26365	V	24.67	4.78	-4.54	24.91	33.00
			H	18.08	4.78	-4.54	18.33	33.00
	1907.5	26615	V	22.82	4.74	-4.57	22.99	33.00
			H	15.98	4.74	-4.57	16.15	33.00
BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	29.93	4.84	-4.49	30.28	33.00
			H	21.60	4.84	-4.49	21.96	33.00
	1882.5	26365	V	27.72	4.80	-4.52	28.00	33.00
			H	20.06	4.80	-4.52	20.34	33.00
	1907.5	26615	V	27.86	4.76	-4.55	28.07	33.00
			H	20.34	4.76	-4.55	20.55	33.00
BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	27.11	4.82	-4.50	27.43	33.00
			H	17.71	4.82	-4.50	18.02	33.00
	1882.5	26365	V	25.38	4.78	-4.54	25.62	33.00
			H	18.65	4.78	-4.54	18.89	33.00
	1907.5	26615	V	23.51	4.74	-4.57	23.68	33.00
			H	16.67	4.74	-4.58	16.84	33.00

Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	28.83	4.84	-4.49	29.19	33.00
			H	20.56	4.84	-4.49	20.92	33.00
	1882.5	26365	V	27.30	4.81	-4.52	27.59	33.00
			H	19.01	4.80	-4.52	19.30	33.00
	1905.0	26590	V	26.43	4.77	-4.55	26.65	33.00
			H	19.24	4.77	-4.55	19.46	33.00
BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	25.90	4.81	-4.51	26.21	33.00
			H	17.41	4.81	-4.51	17.71	33.00
	1882.5	26365	V	24.08	4.78	-4.54	24.31	33.00
			H	18.10	4.78	-4.54	18.33	33.00
	1905.0	26590	V	21.31	4.74	-4.57	21.47	33.00
			H	15.51	4.74	-4.57	15.67	33.00
BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	29.31	4.84	-4.49	29.66	33.00
			H	21.09	4.84	-4.49	21.45	33.00
	1882.5	26365	V	28.00	4.80	-4.52	28.28	33.00
			H	19.78	4.81	-4.52	20.07	33.00
	1905.0	26590	V	26.88	4.77	-4.55	27.11	33.00
			H	19.76	4.77	-4.55	19.98	33.00
BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	26.44	4.81	-4.51	26.74	33.00
			H	17.60	4.81	-4.51	17.91	33.00
	1882.5	26365	V	24.67	4.78	-4.54	24.91	33.00
			H	18.65	4.78	-4.54	18.89	33.00
	1905.0	26590	V	22.00	4.74	-4.57	22.16	33.00
			H	16.18	4.74	-4.57	16.34	33.00

Remark :

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

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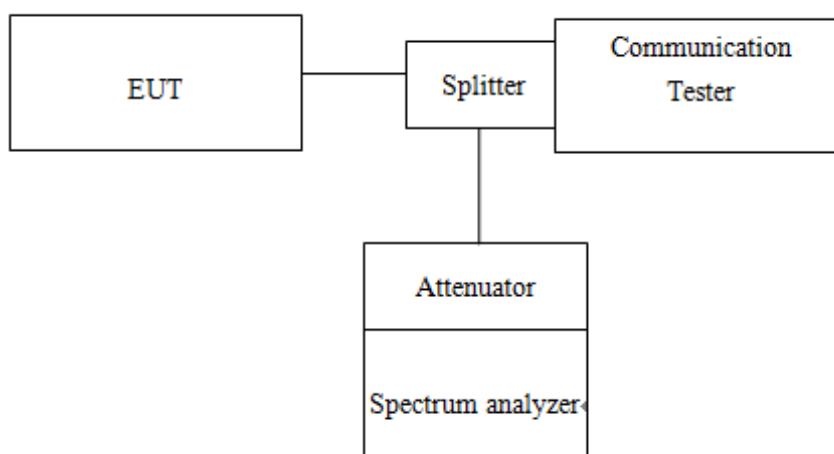
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

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

8.2. Test Set-up



8.3. Measurement Procedure

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

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

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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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8.5. Measurement Result

99% Bandwidth

Frequency (MHz)	CH	99% Bandwidth (kHz)	
		GPRS 850	EDGE 850
824.20	128	249.700	243.477
836.60	190	242.431	244.729
848.80	251	240.446	246.825

Frequency (MHz)	CH	99% Bandwidth (kHz)	
		GPRS 1900	EDGE 1900
1850.20	512	243.466	246.774
1880.00	661	240.671	241.026
1909.80	810	241.762	246.892

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.1637	4.1474	4.1478
1880.00	9400	4.1801	4.1519	4.1694
1909.80	9538	4.1605	4.1516	4.1529

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	4.1557	4.1715	4.1331
1732.6	1413	4.1452	4.1472	4.1496
1752.6	1513	4.1499	4.1496	4.1568

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Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.1559	4.1636	4.1603
836.60	4183	4.1332	4.1584	4.1675
846.60	4233	4.1493	4.1547	4.1717

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC0	EVDO BC0
824.7	1013	1.2659	1.2573
836.52	384	1.2669	1.2635
848.31	777	1.2701	1.2675

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC1	EVDO BC1
1851.25	25	1.2680	1.2670
1880	600	1.2693	1.2692
1908.75	1175	1.2703	1.2725

Frequency (MHz)	CH	99% Bandwidth (MHz)	
		CDMA BC10	EVDO BC10
817.9	476	1.2675	1.2670
820.5	580	1.2723	1.2663
823.1	684	1.2657	1.2651

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LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1850.7	18607	1.0959	1.1017	1851.5	18615	2.7151	2.7074
1880.0	18900	1.0950	1.1007	1880.0	18900	2.7116	2.7122
1909.3	19193	1.0988	1.0985	1908.5	19185	2.6998	2.7087

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1852.5	18625	4.4984	4.4904	1855.0	18650	8.9458	8.9438
1880.0	18900	4.5099	4.5064	1880.0	18900	9.0304	8.9618
1907.5	19175	4.5067	4.4942	1905.0	19150	8.9737	8.9813

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1857.5	18675	13.4584	13.4236	1860.0	18700	17.8963	17.8171
1880.0	18900	13.4350	13.4933	1880.0	18900	17.9934	17.9733
1902.5	19125	13.5223	13.5122	1900.0	19100	17.9770	17.9766

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.0985	1.1023	1711.5	19965	2.7006	2.7158
1732.5	20175	1.1012	1.0986	1732.5	20175	2.7125	2.7117
1754.3	20393	1.0985	1.1016	1753.5	20385	2.7079	2.7035

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	4.5075	4.4930	1715.0	20000	8.9529	8.9466
1732.5	20175	4.5113	4.4923	1732.5	20175	8.9712	8.9573
1752.5	20375	4.5158	4.5077	1750.0	20350	9.0069	8.9678

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	13.4289	13.4287	1720.0	20050	17.8704	17.8426
1732.5	20175	13.4536	13.4627	1732.5	20175	17.8893	17.9067
1747.5	20325	13.4452	13.4928	1745.0	20300	17.9380	17.9000

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.0981	1.1009	825.5	20415	2.7057	2.6983
836.5	20525	1.0959	1.0993	836.5	20525	2.6988	2.7121
848.3	20643	1.1001	1.0979	847.5	20635	2.6980	2.7067

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
826.5	20425	4.4933	4.4781	829.0	20450	8.9912	8.9467
836.5	20525	4.5033	4.4902	836.5	20525	8.9627	8.9761
846.5	20625	4.4951	4.5016	844.0	20600	8.9960	8.9689

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
779.5	23205	4.5128	4.5283	23230	782	8.9018	8.9285
782.0	23230	4.4892	4.5158				
784.5	23255	4.4928	4.4836				

LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
706.5	23755	4.4878	4.4850	709	23780	8.9633	8.9366
710.0	23790	4.5150	4.5087	710	23790	8.9817	8.9712
713.5	23825	4.5206	4.5135	711	23800	9.0113	8.9617

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LTE BAND 25							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1850.7	26047	1.0987	1.1042	1851.5	26055	2.7086	2.7018
1882.5	26365	1.0966	1.1001	1882.5	26365	2.6955	2.7051
1914.3	26683	1.0945	1.1052	1913.5	26675	2.7049	2.7088

LTE BAND 25							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1852.5	26065	4.5006	4.4875	1855.0	26090	8.9842	8.9444
1882.5	26365	4.5029	4.4865	1882.5	26365	8.9500	8.9481
1912.5	26665	4.4847	4.4847	1910.0	26640	8.9633	8.9155

LTE BAND 25							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)		Frequency (MHz)	CH	99% Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
1857.5	26115	13.4749	13.4196	1860.0	26140	17.8291	17.8639
1882.5	26365	13.4585	13.4823	1882.5	26365	17.9392	17.9078
1907.5	26615	13.4323	13.4208	1905.0	26590	17.9334	17.9549

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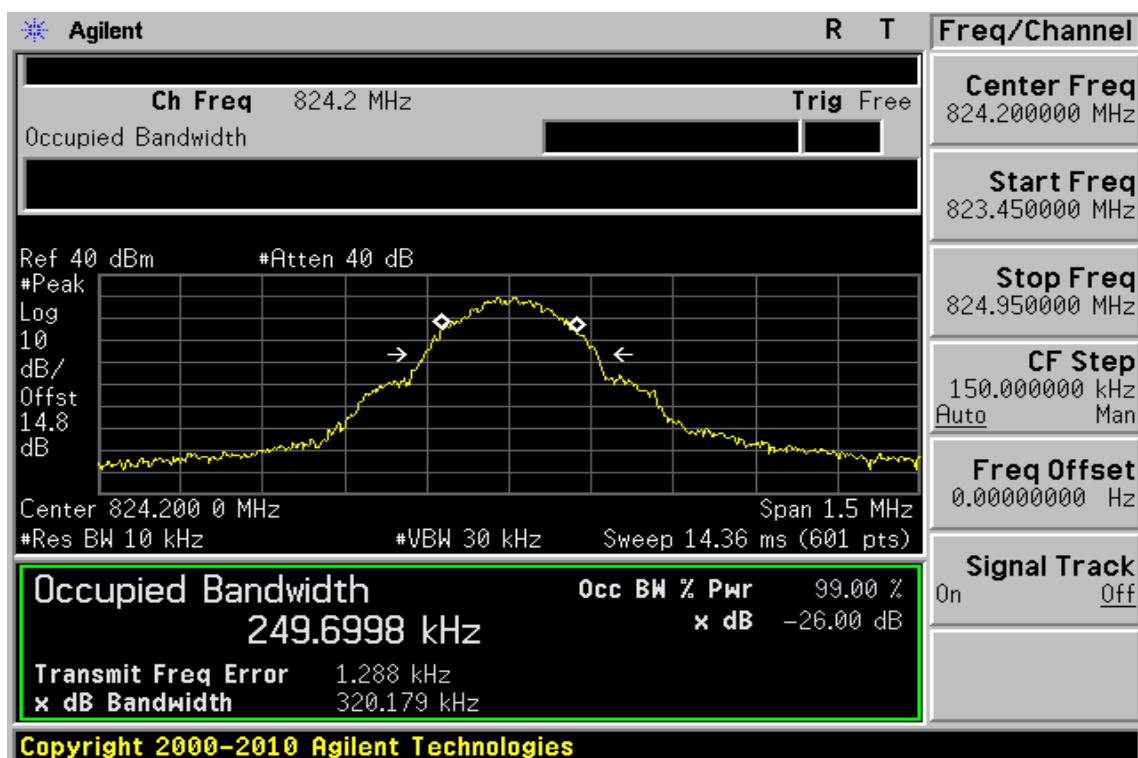
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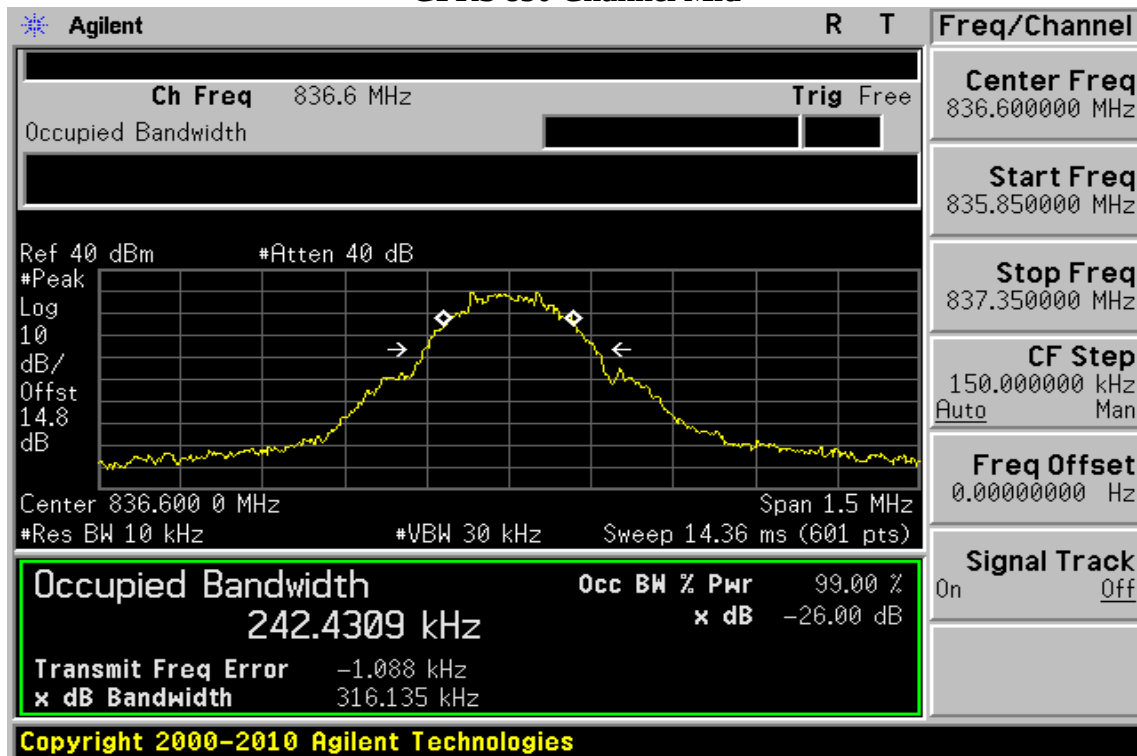
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99% Bandwidth Test Data

GPRS 850 Channel Low



GPRS 850 Channel Mid



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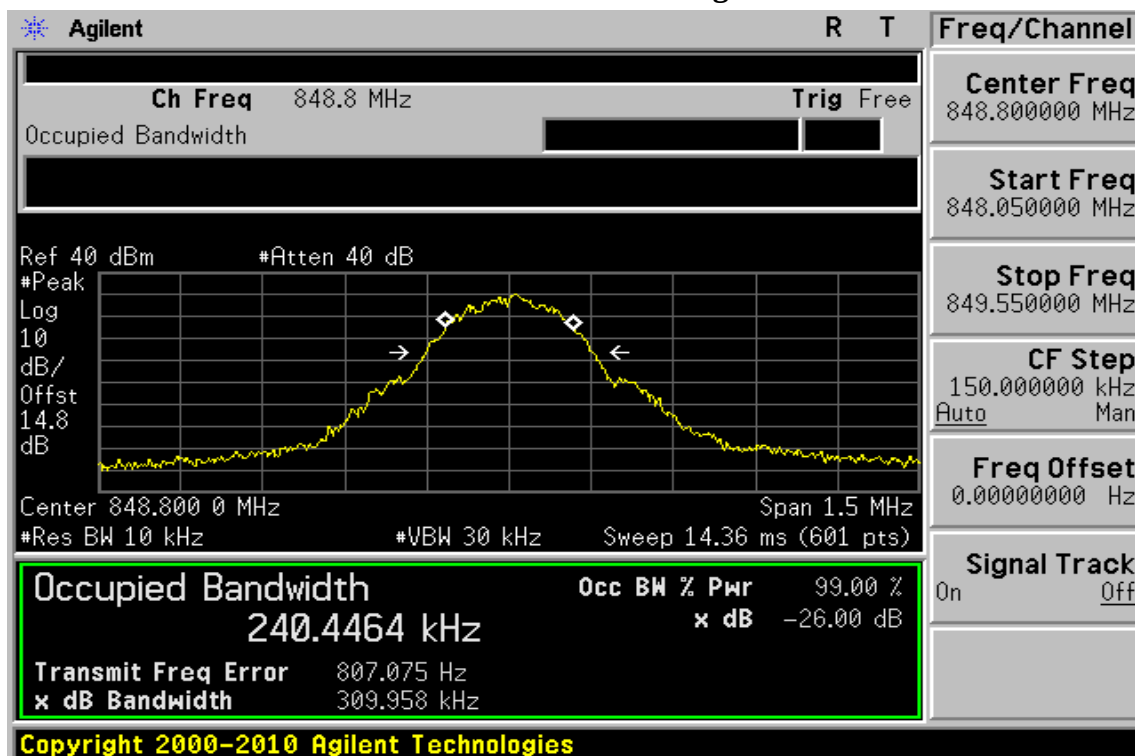
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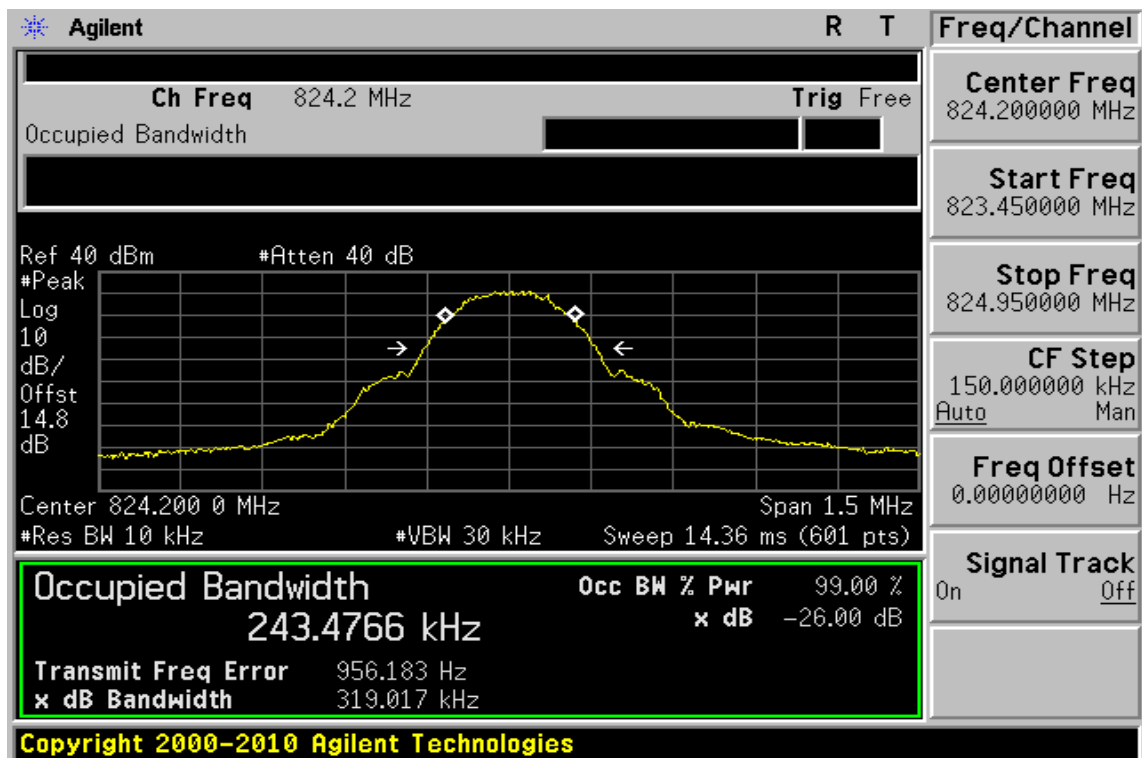
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GPRS 850 Channel High



EDGE 850 Channel Low



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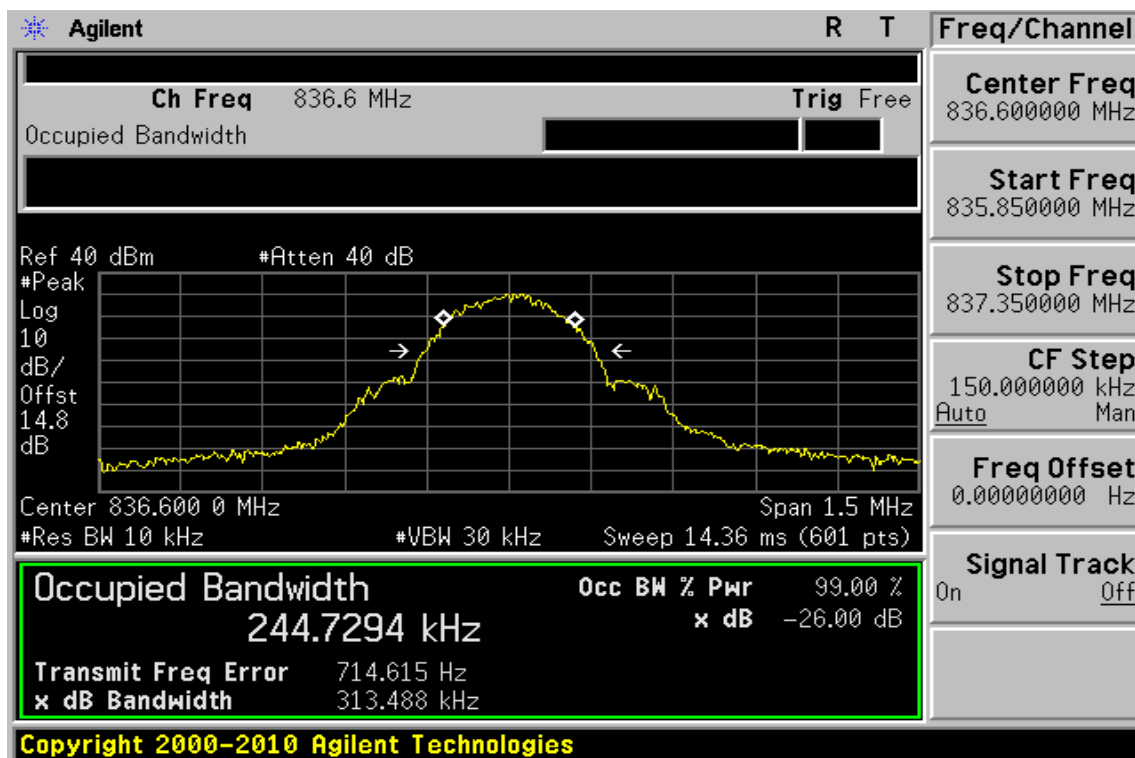
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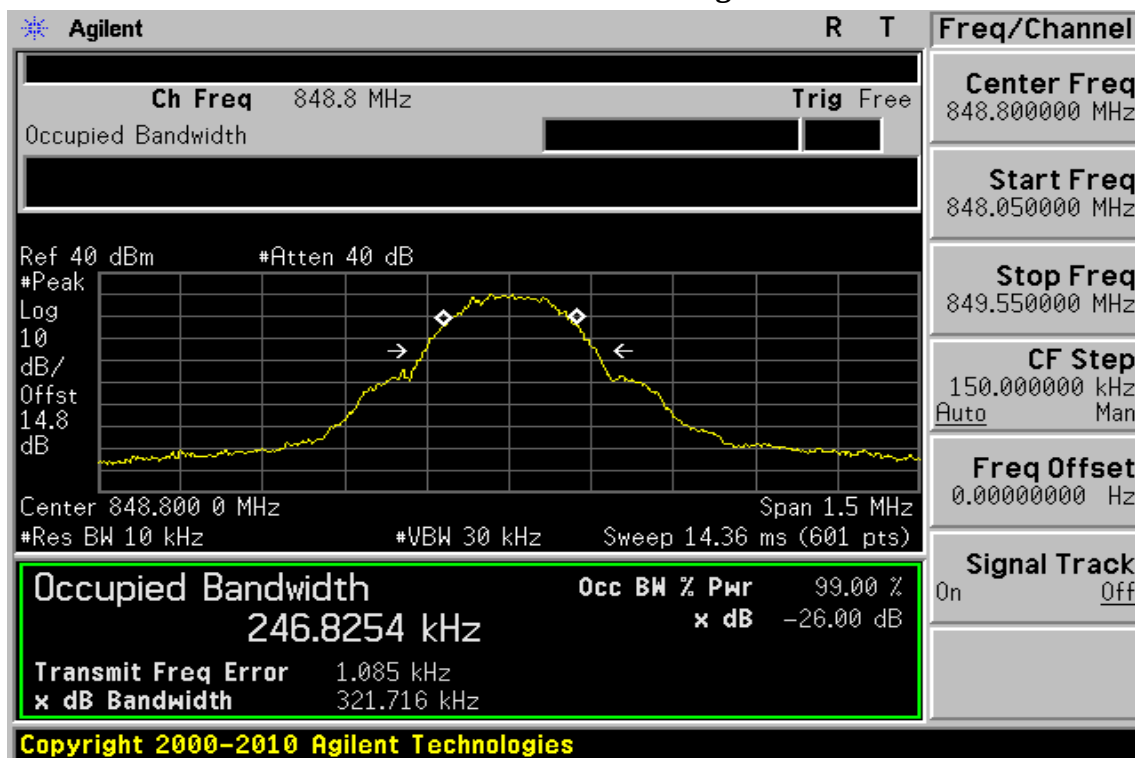
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Member of SGS Group

EDGE 850 Channel Mid



EDGE 850 Channel High



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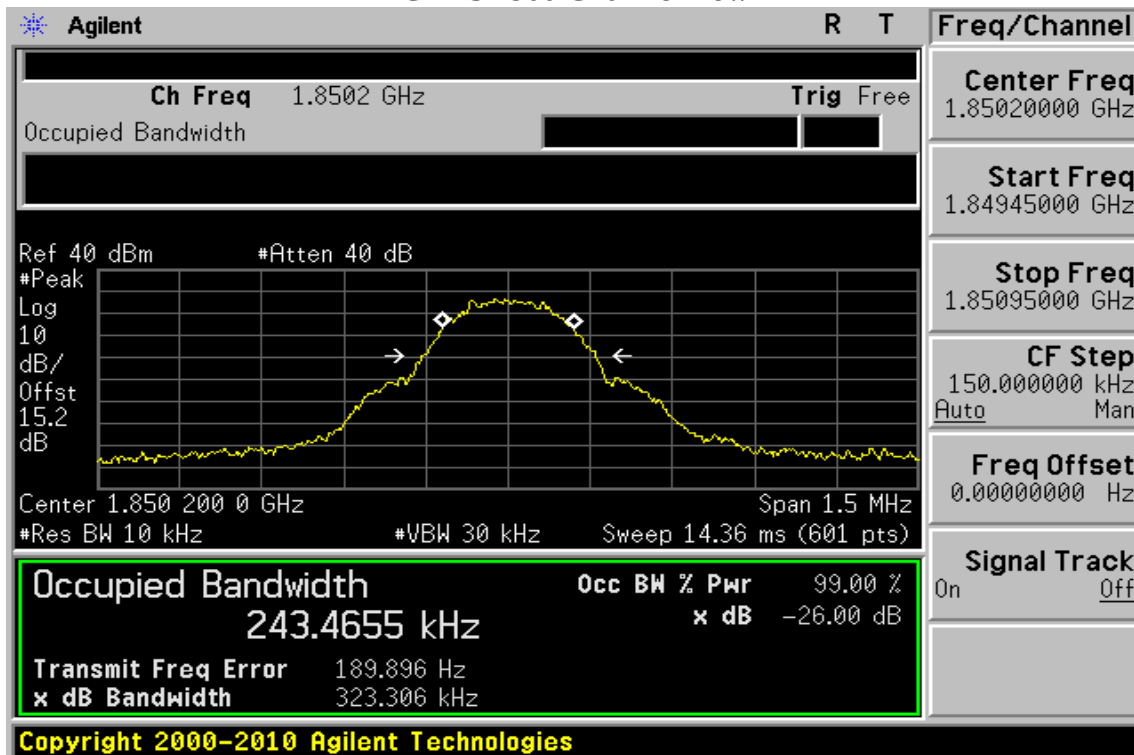
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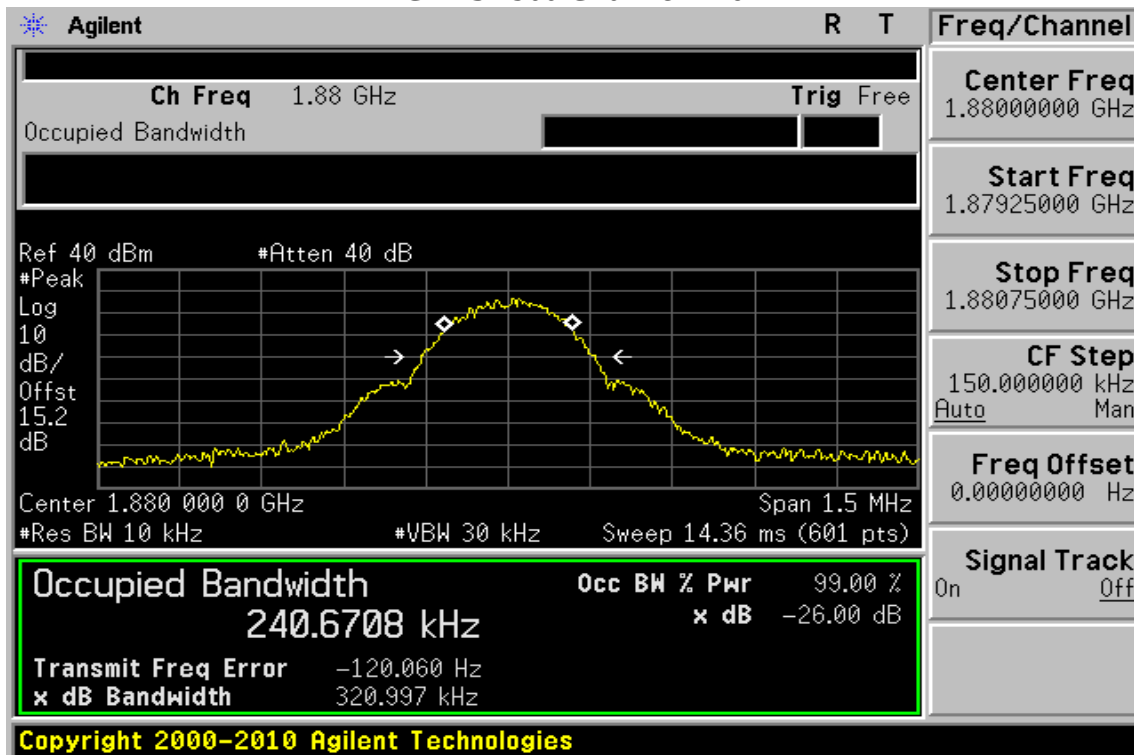
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GPRS 1900 Channel Low



GPRS 1900 Channel Mid



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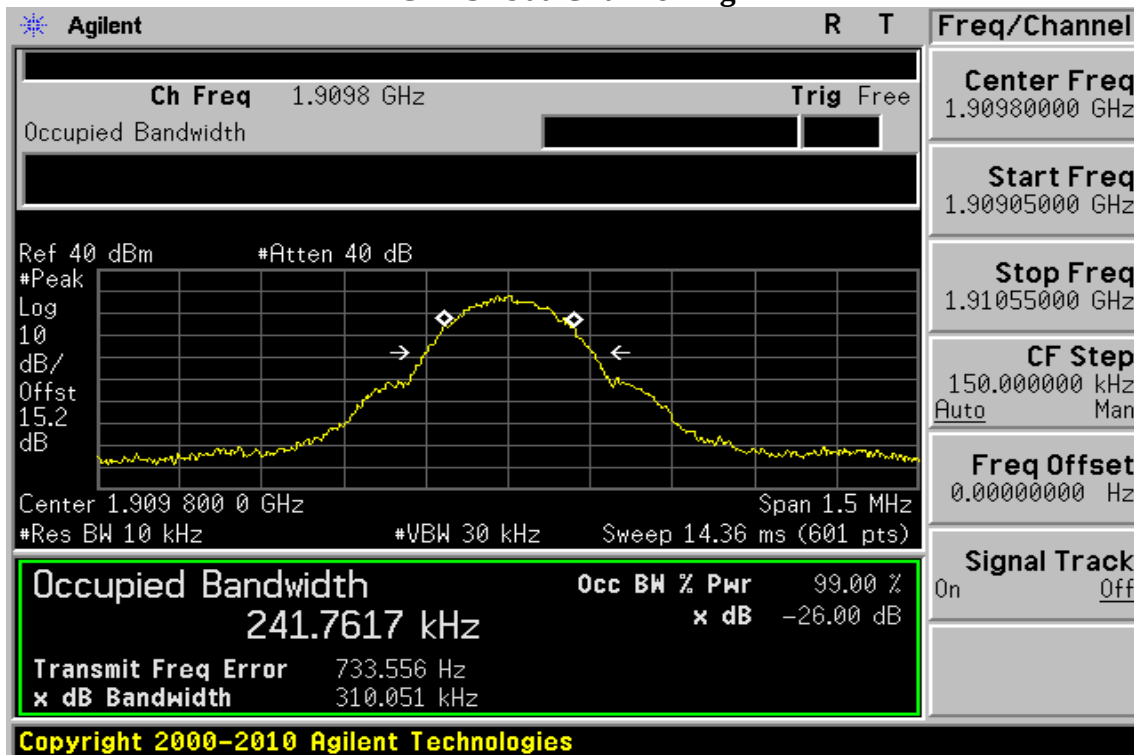
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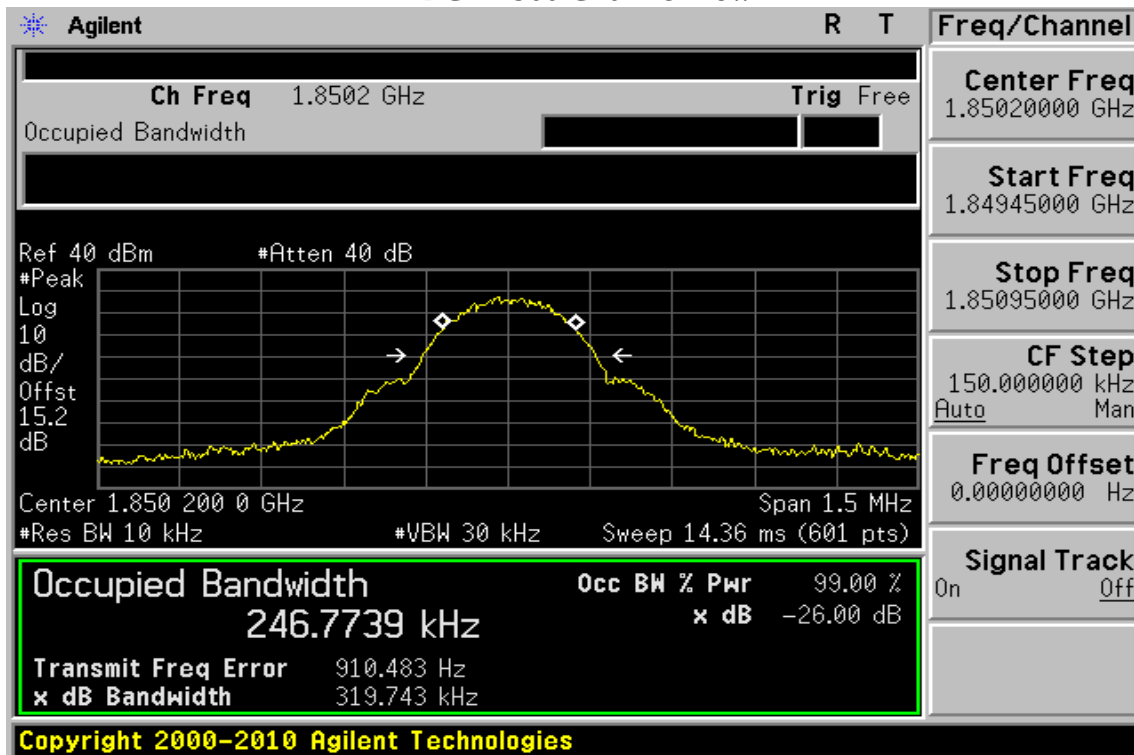
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GPRS 1900 Channel High



EDGE 1900 Channel Low



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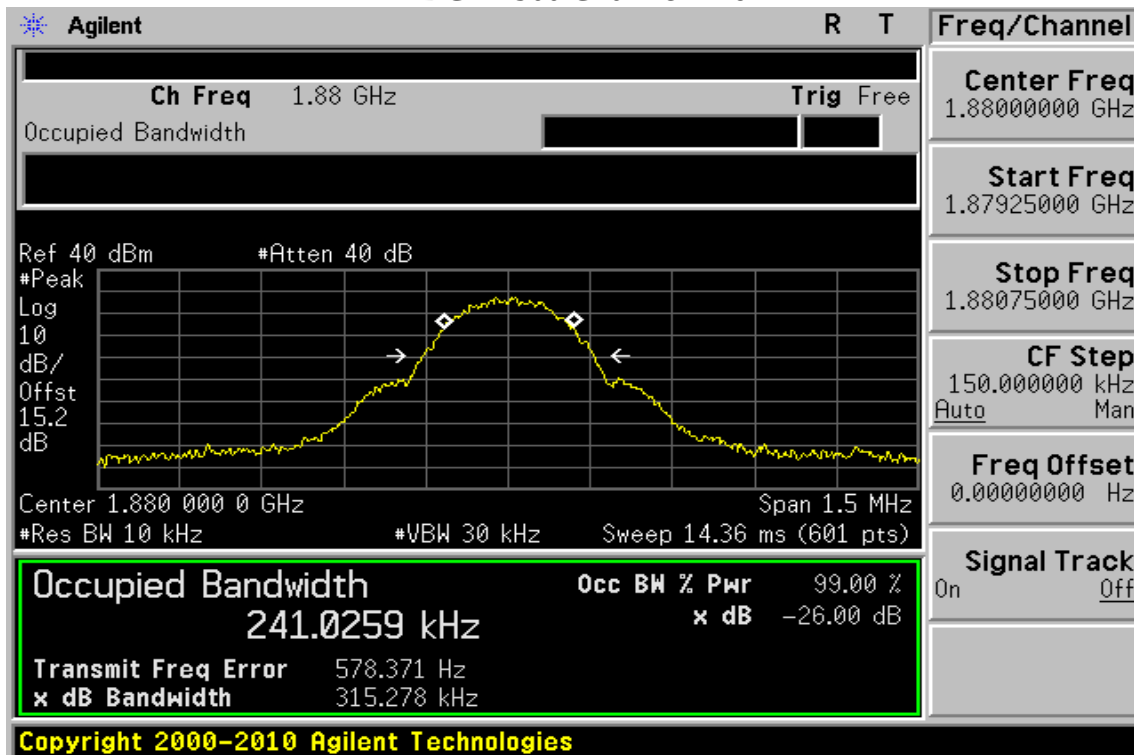
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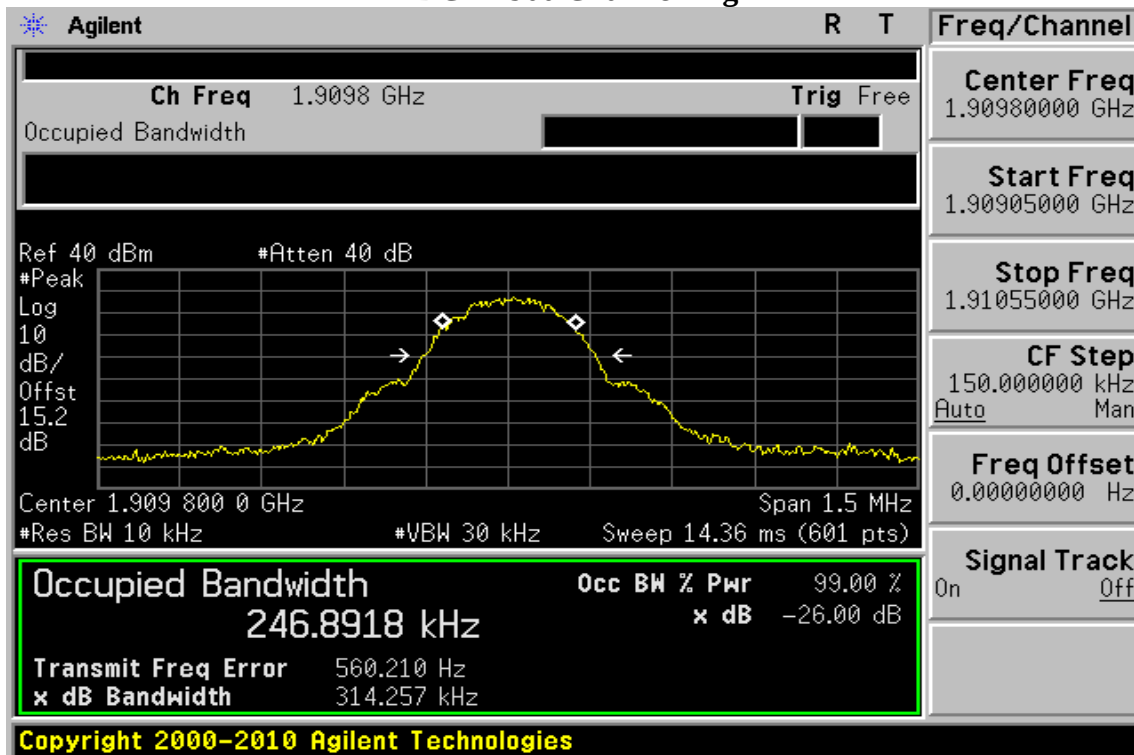
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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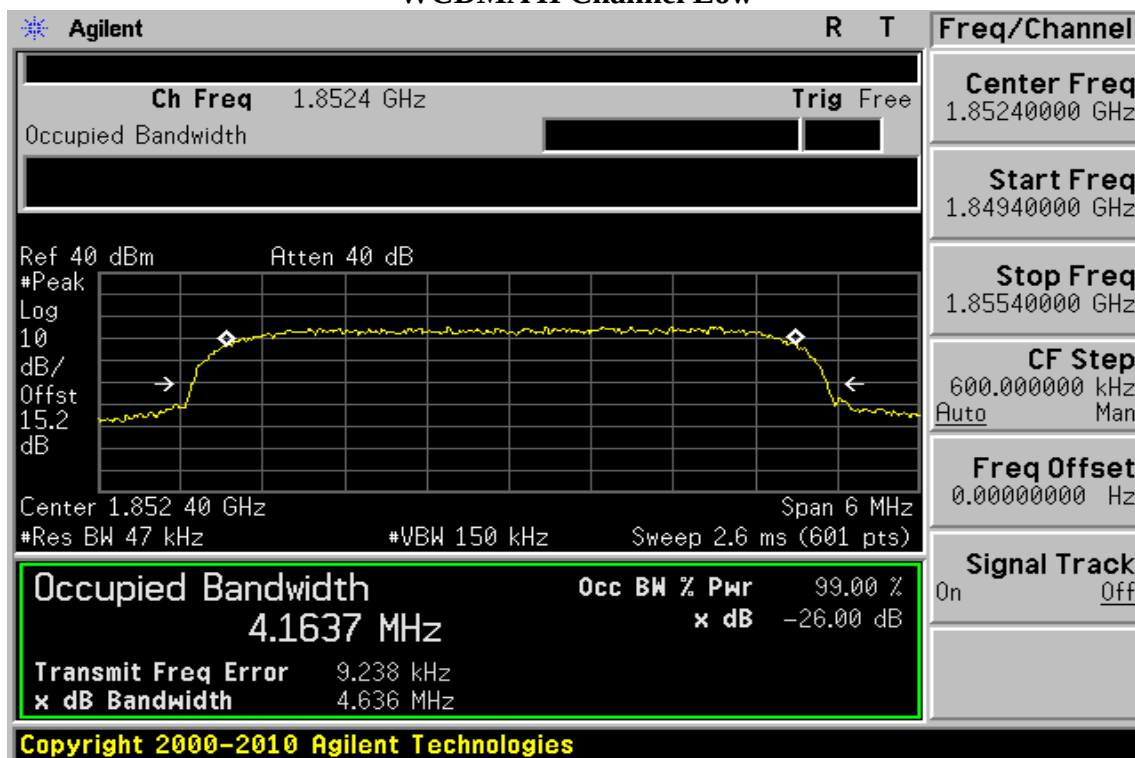
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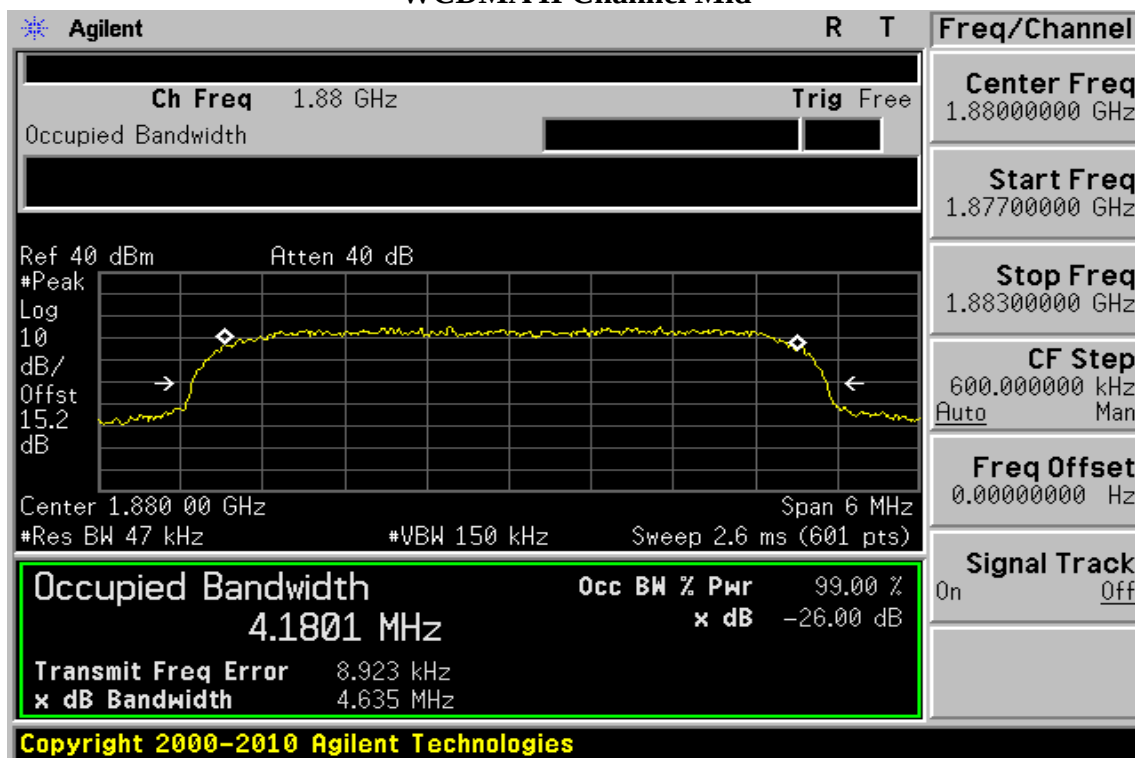
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WCDMA II Channel Low



WCDMA II Channel Mid



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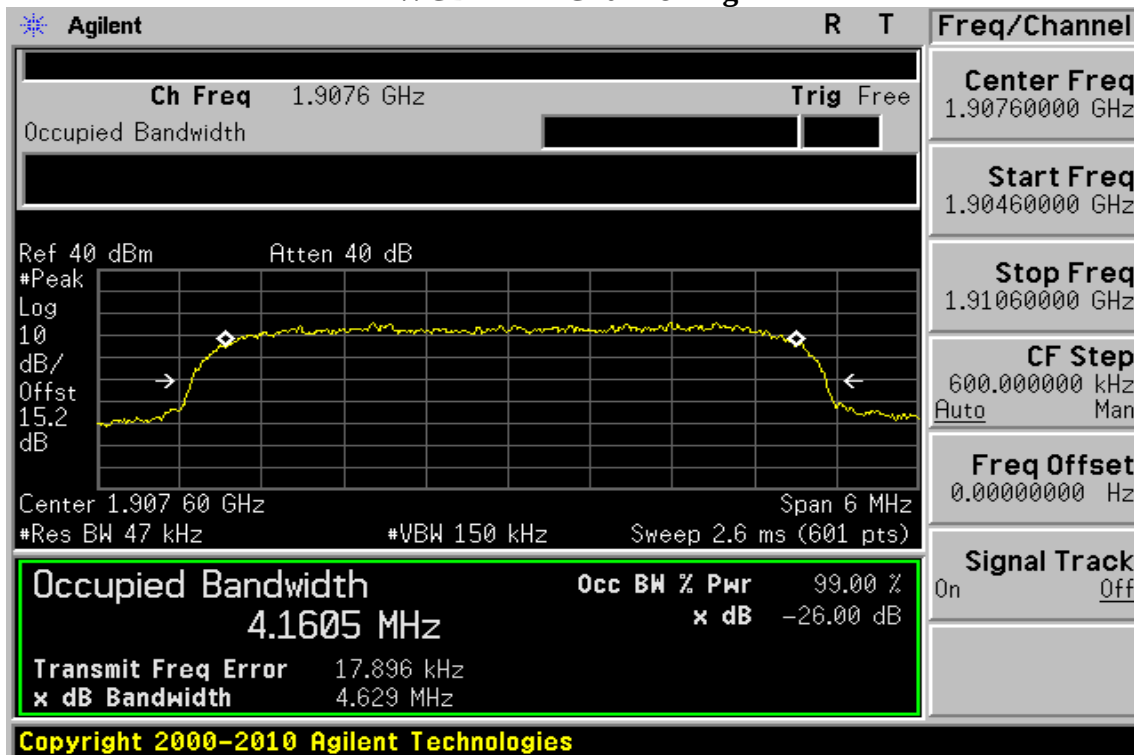
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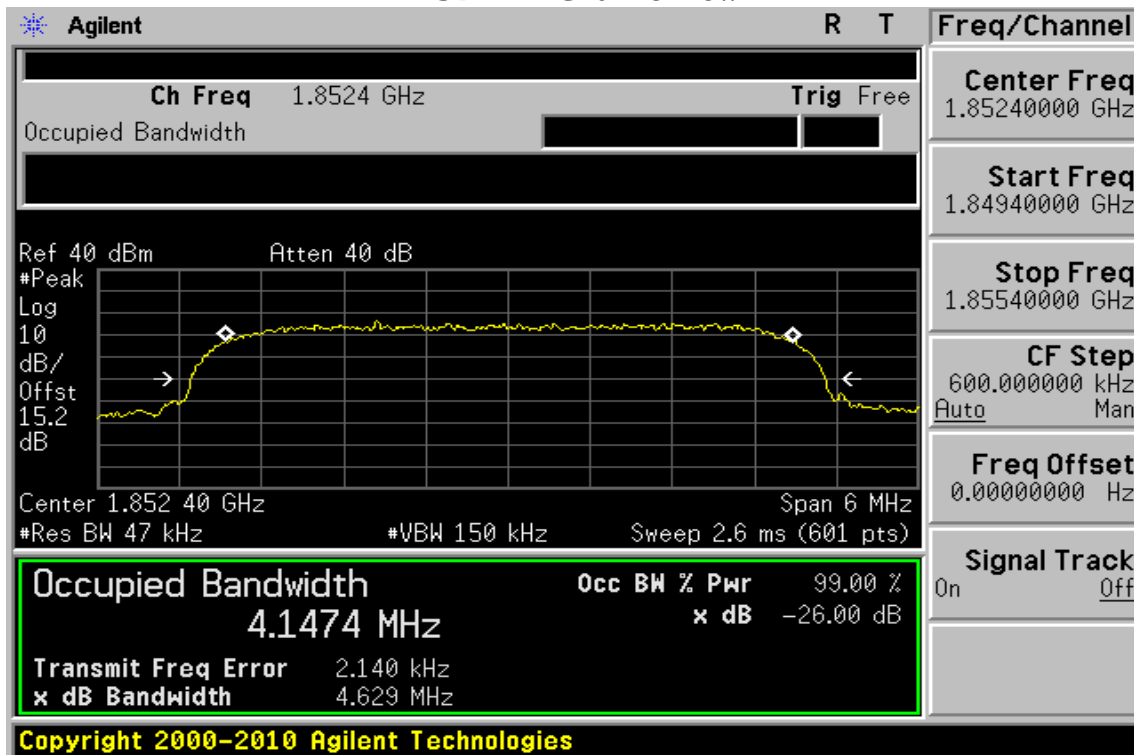
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WCDMA II Channel High



HSDPA II Channel Low



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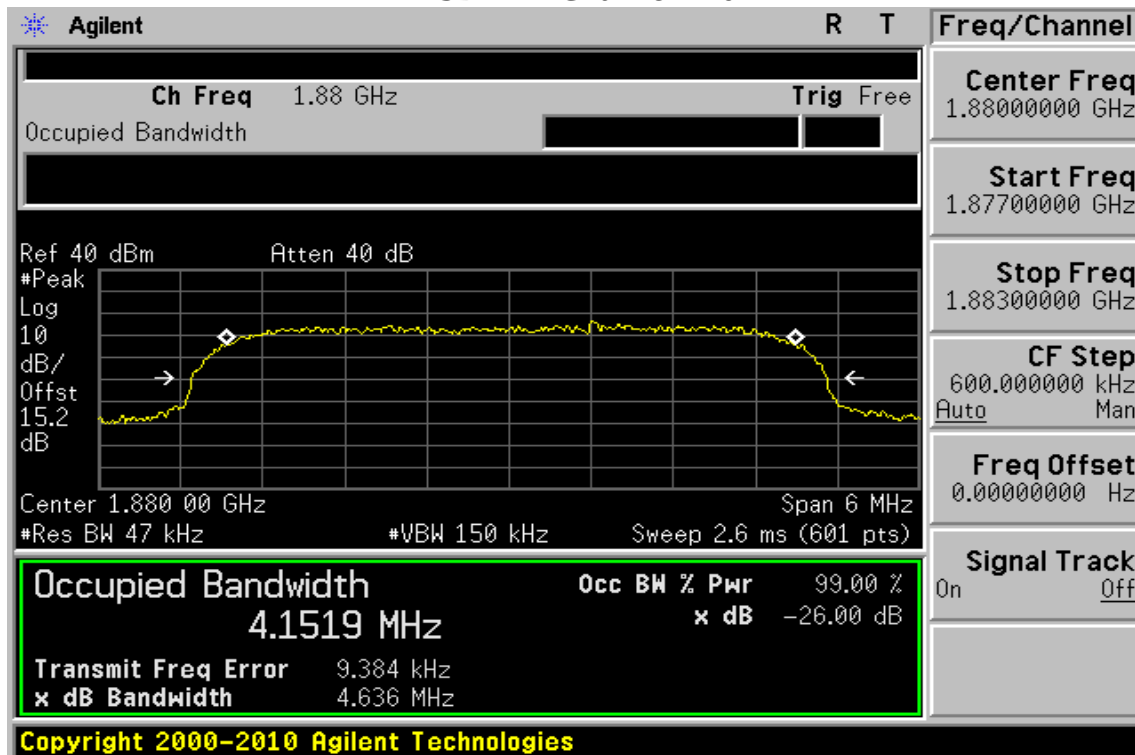
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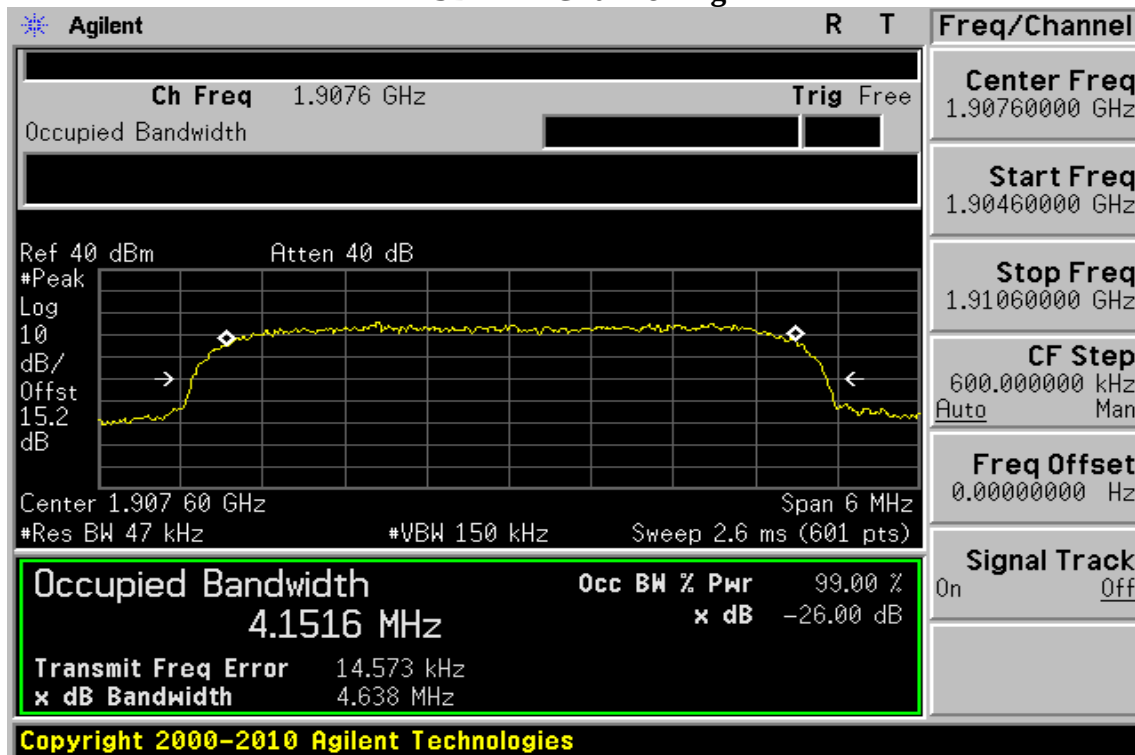
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HSDPA II Channel Mid



HSDPA II Channel High



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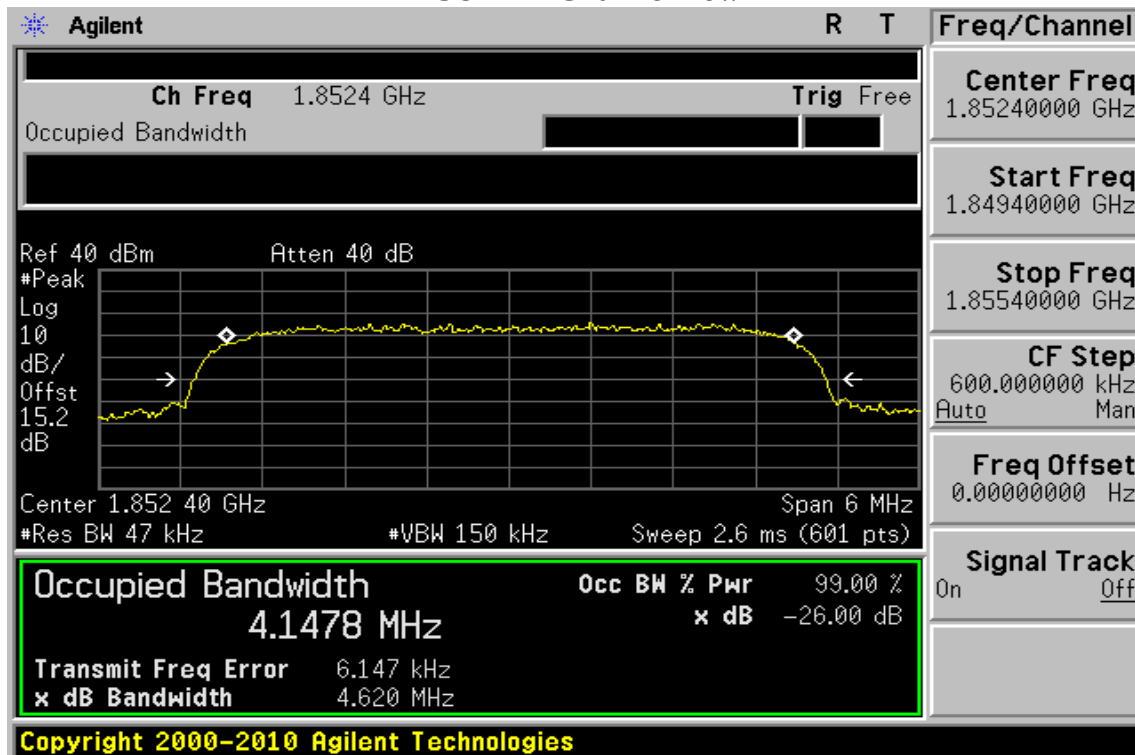
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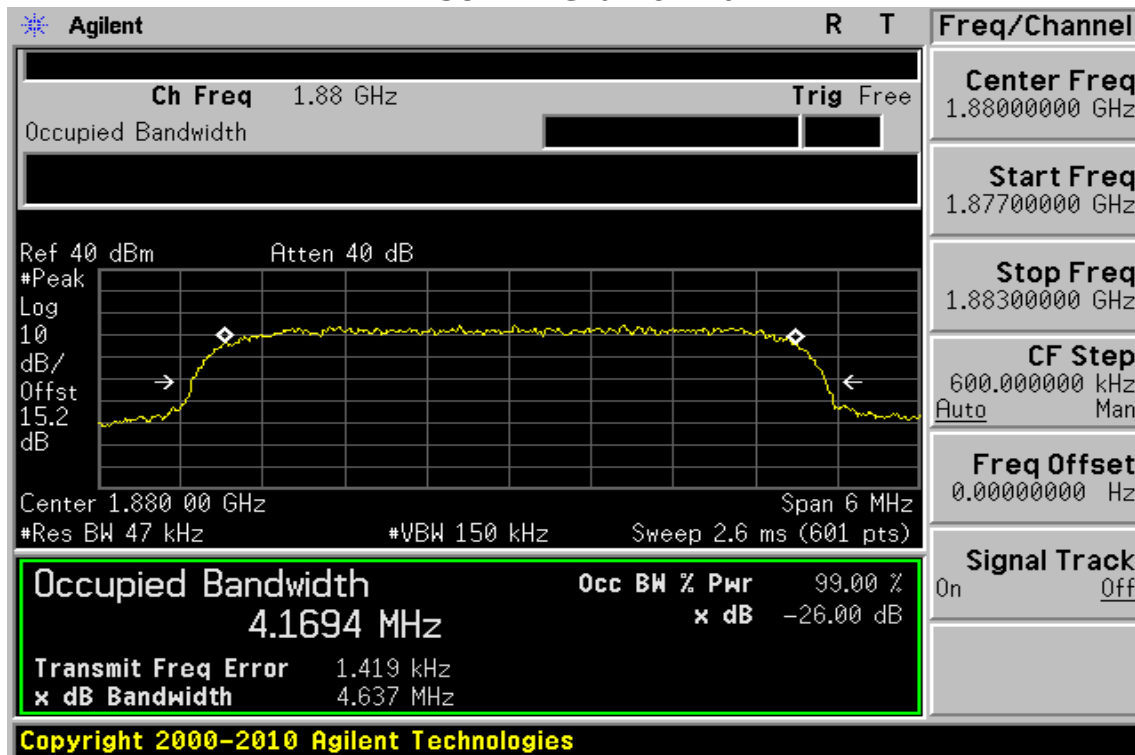
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HSUPA II Channel Low



HSUPA II Channel Mid



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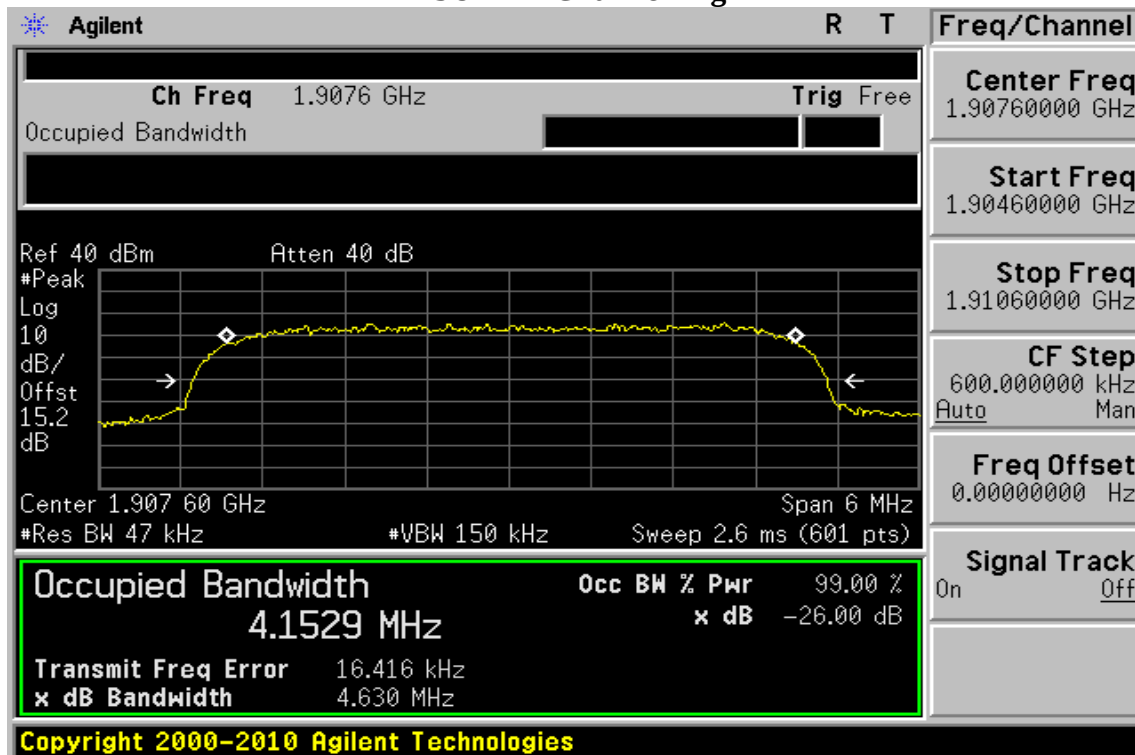
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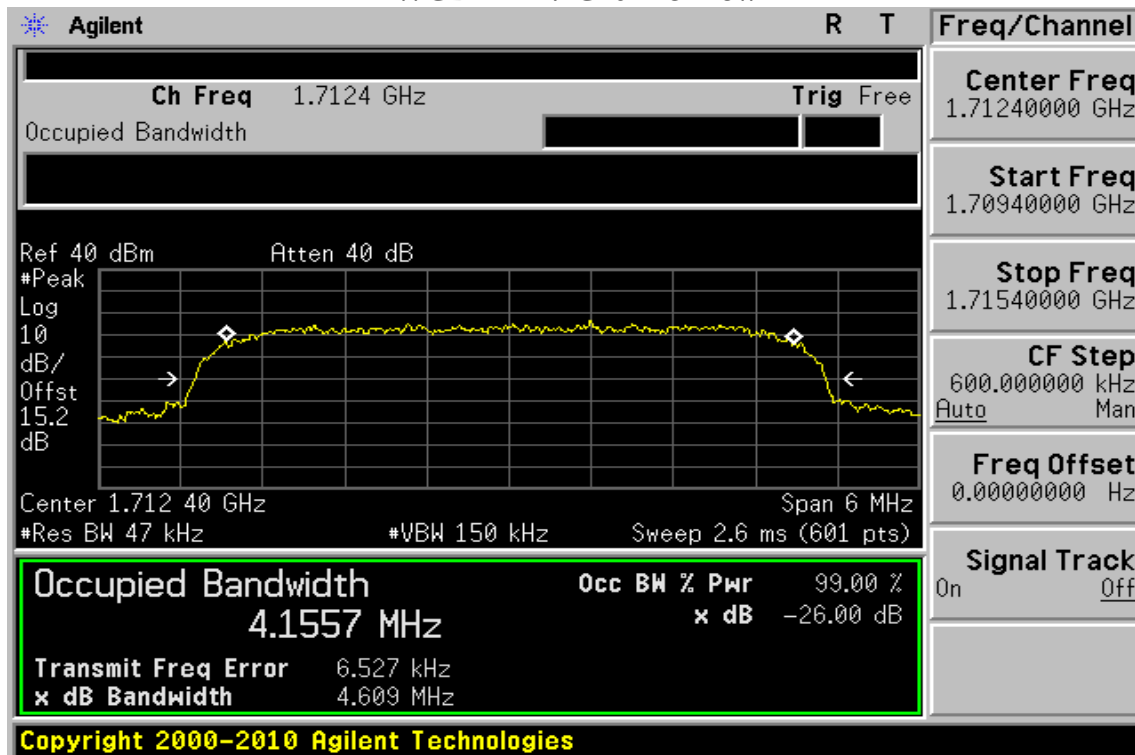
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HSUPA II Channel High



WCDMA IV Channel Low



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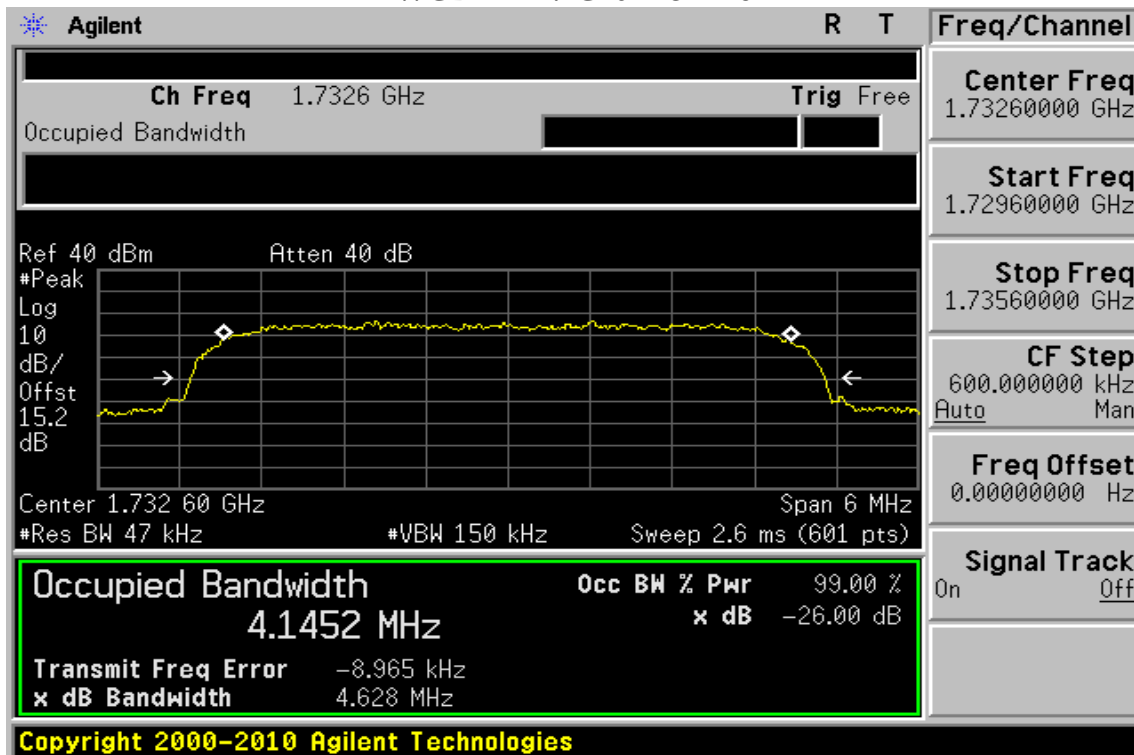
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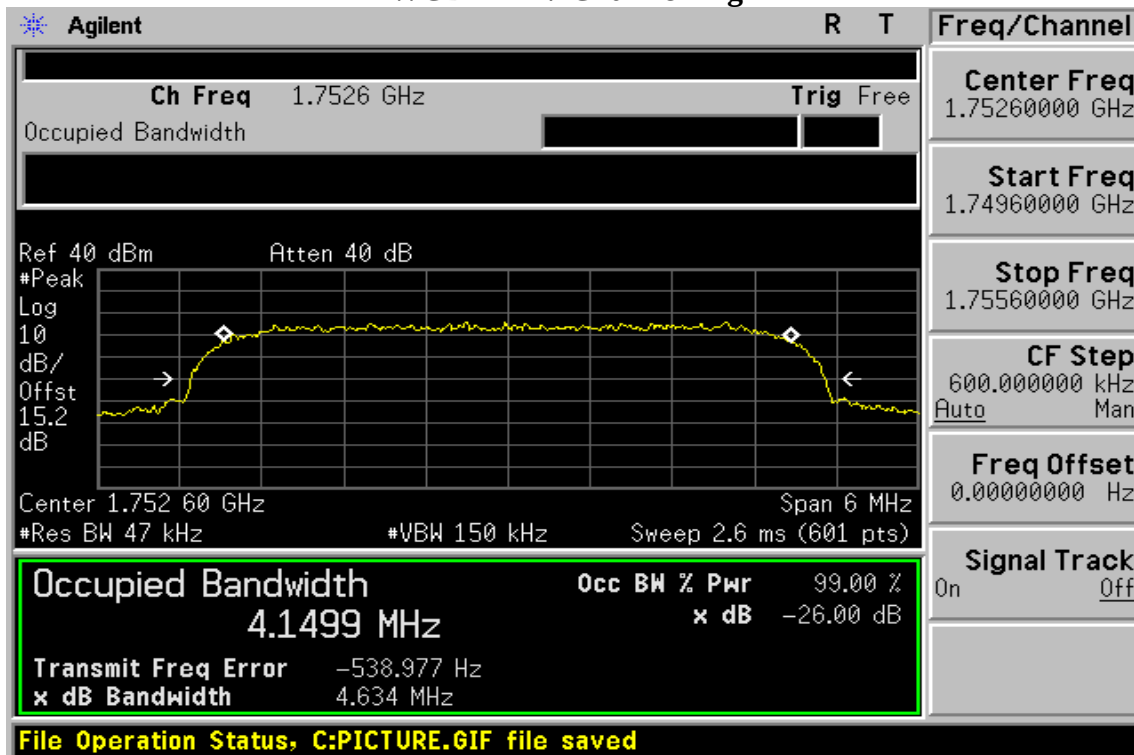
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WCDMA IV Channel Mid



WCDMA IV Channel High



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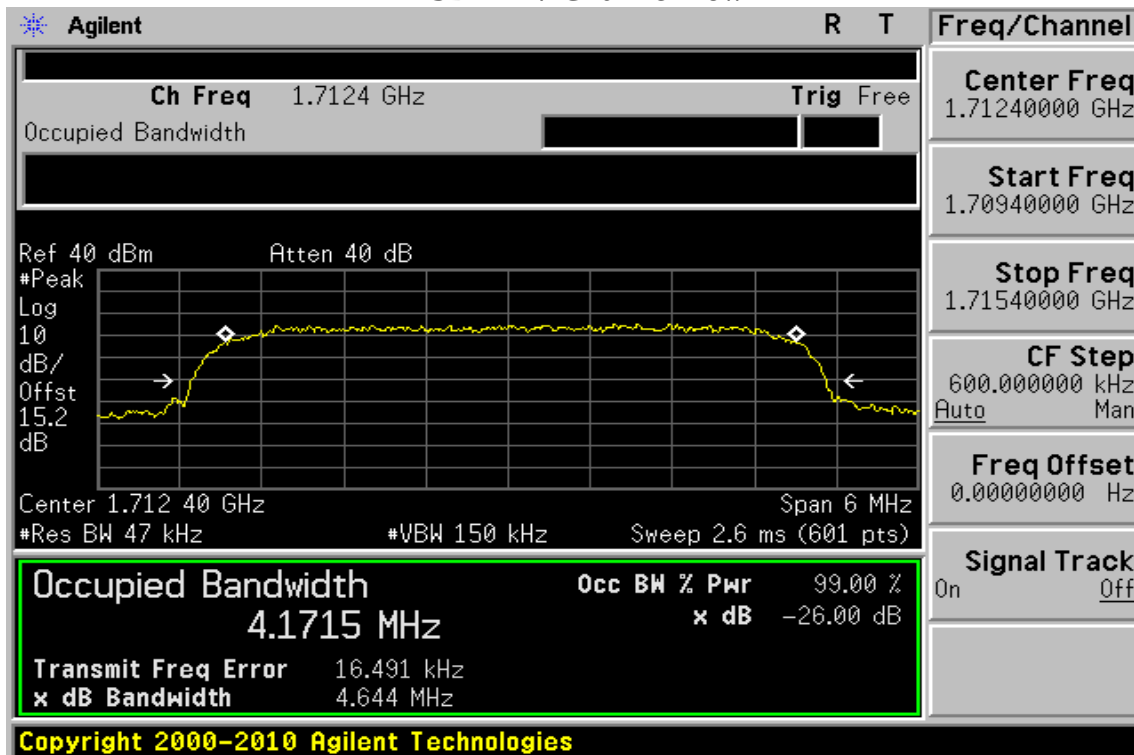
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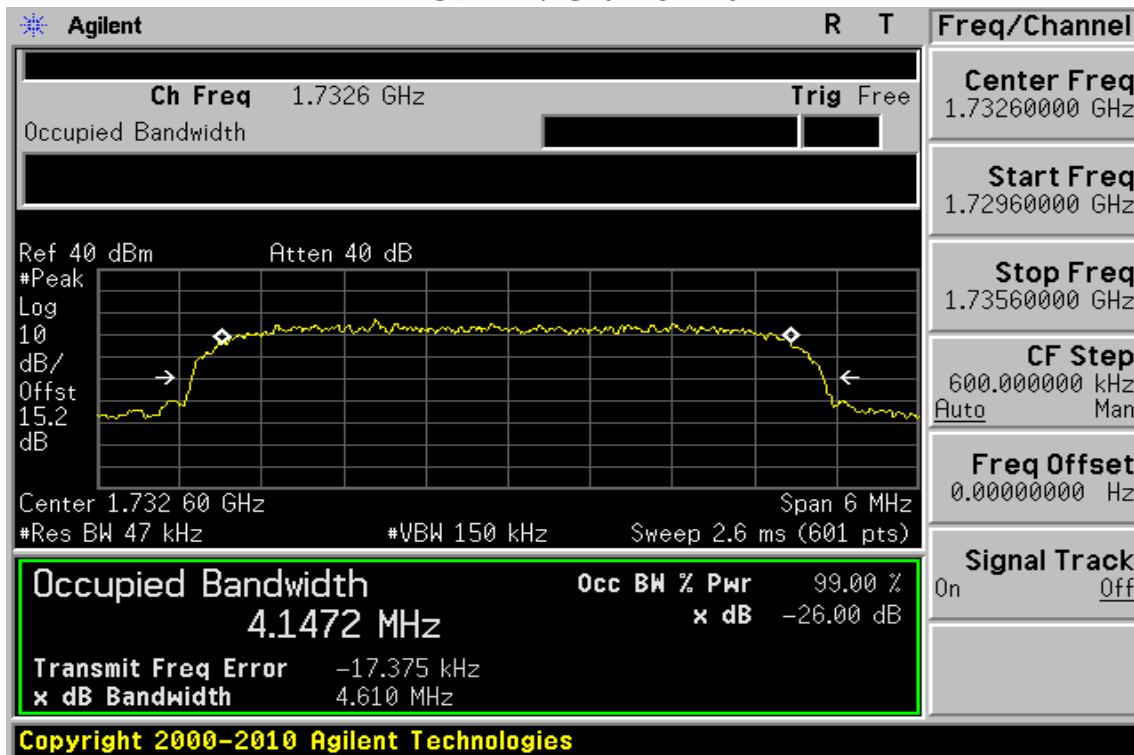
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HSDPA IV Channel Low



HSDPA IV Channel Mid



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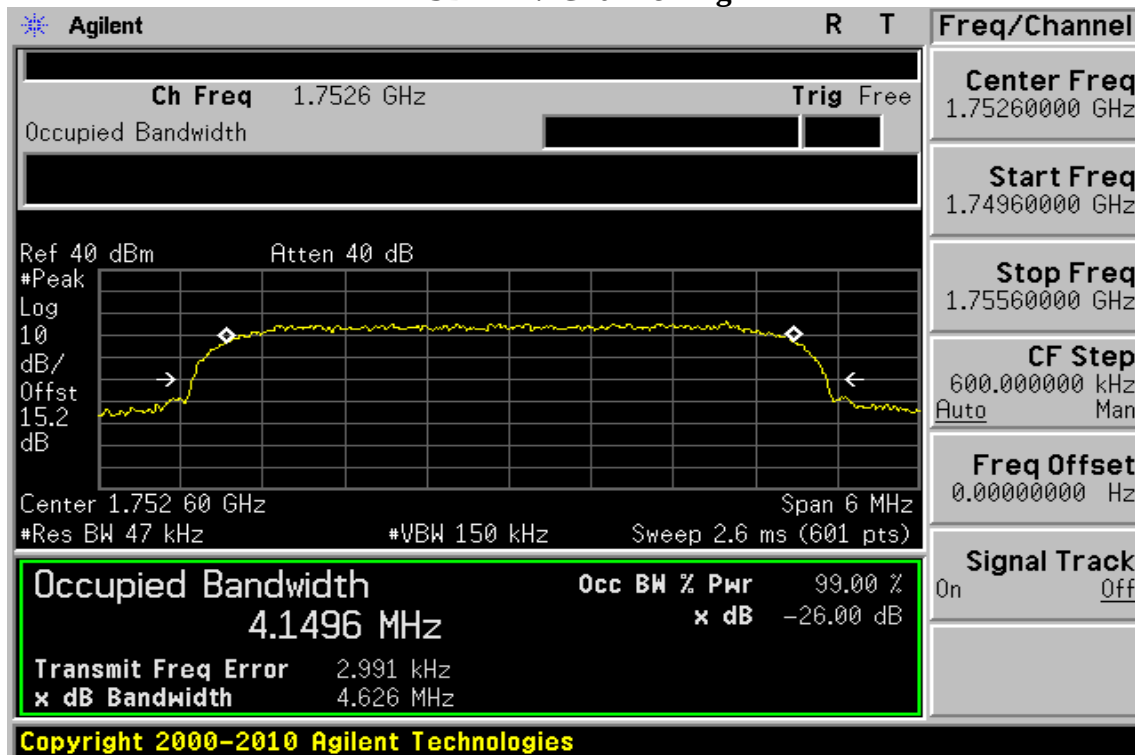
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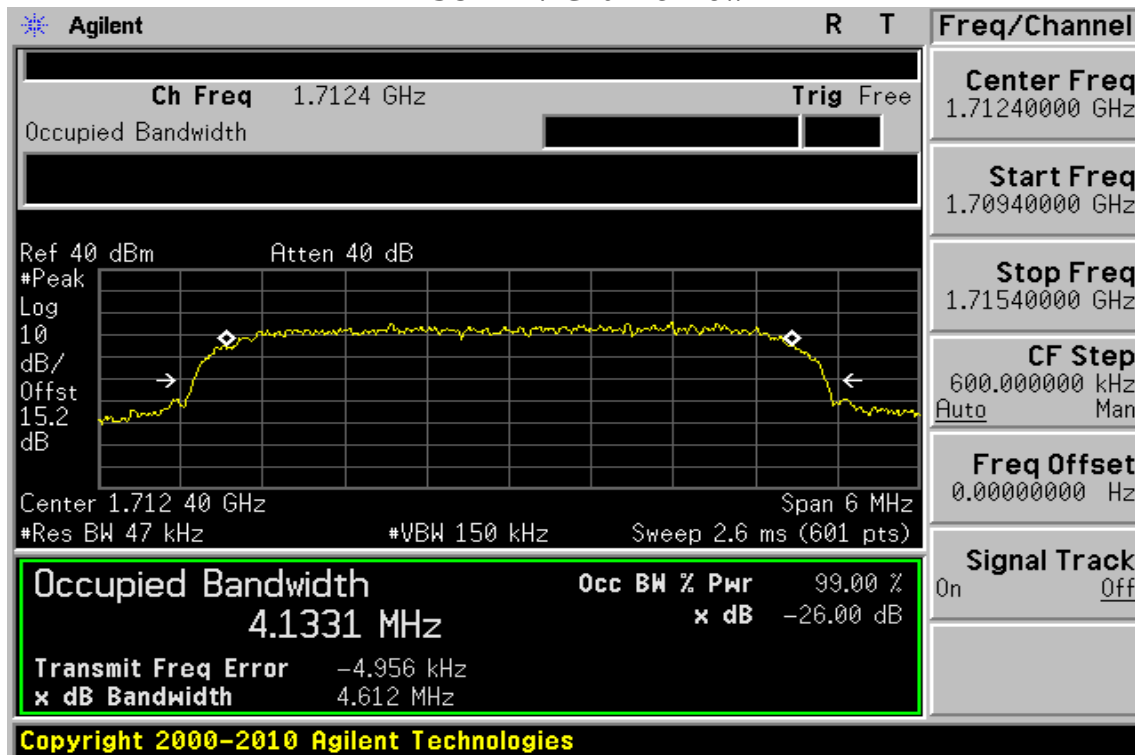
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HSDPA IV Channel High



HSUPA IV Channel Low



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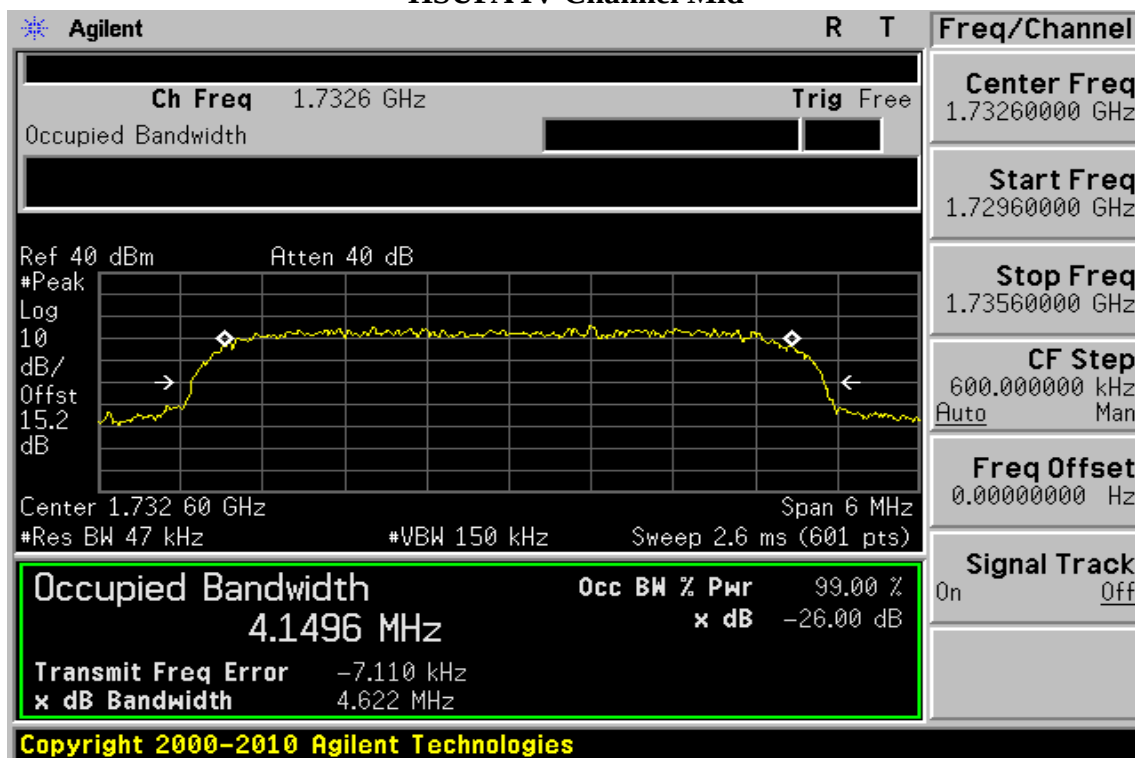
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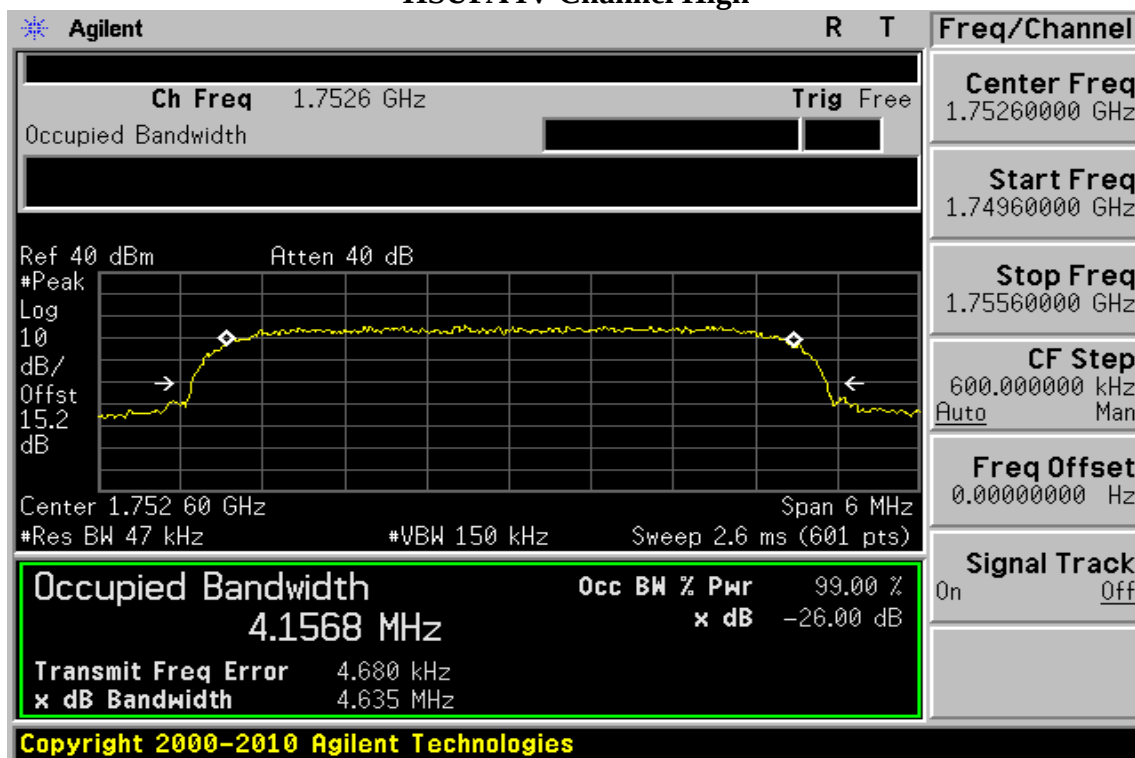
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HSUPA IV Channel Mid



HSUPA IV Channel High



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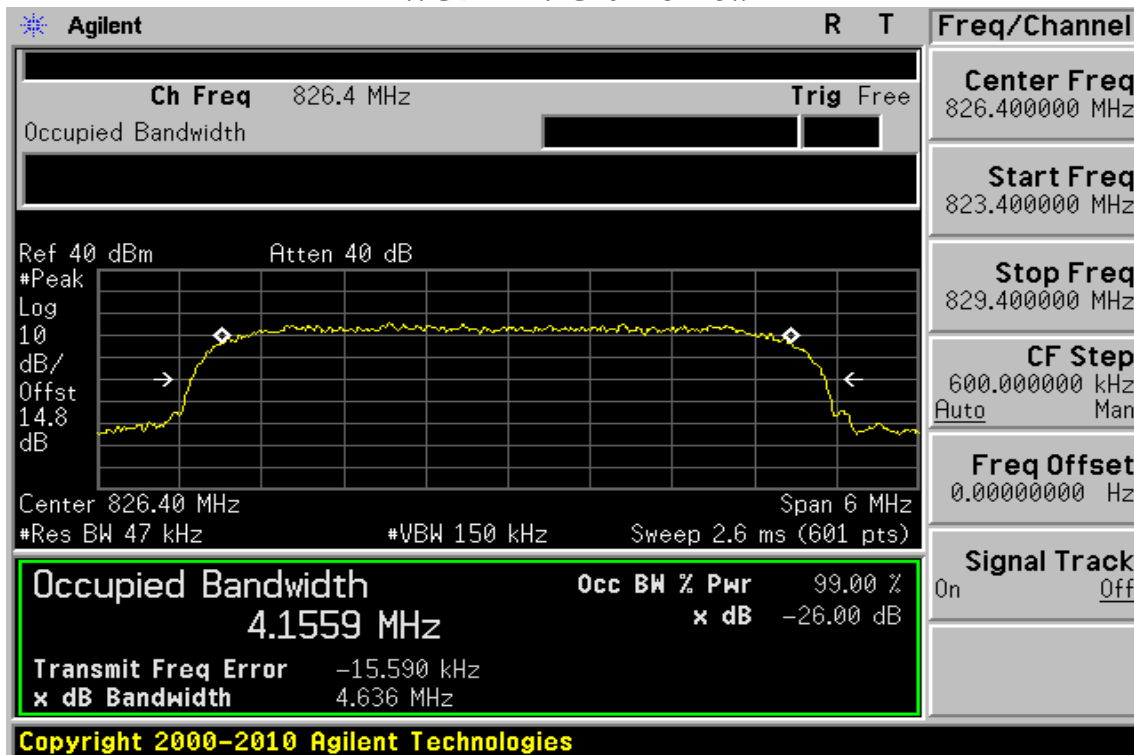
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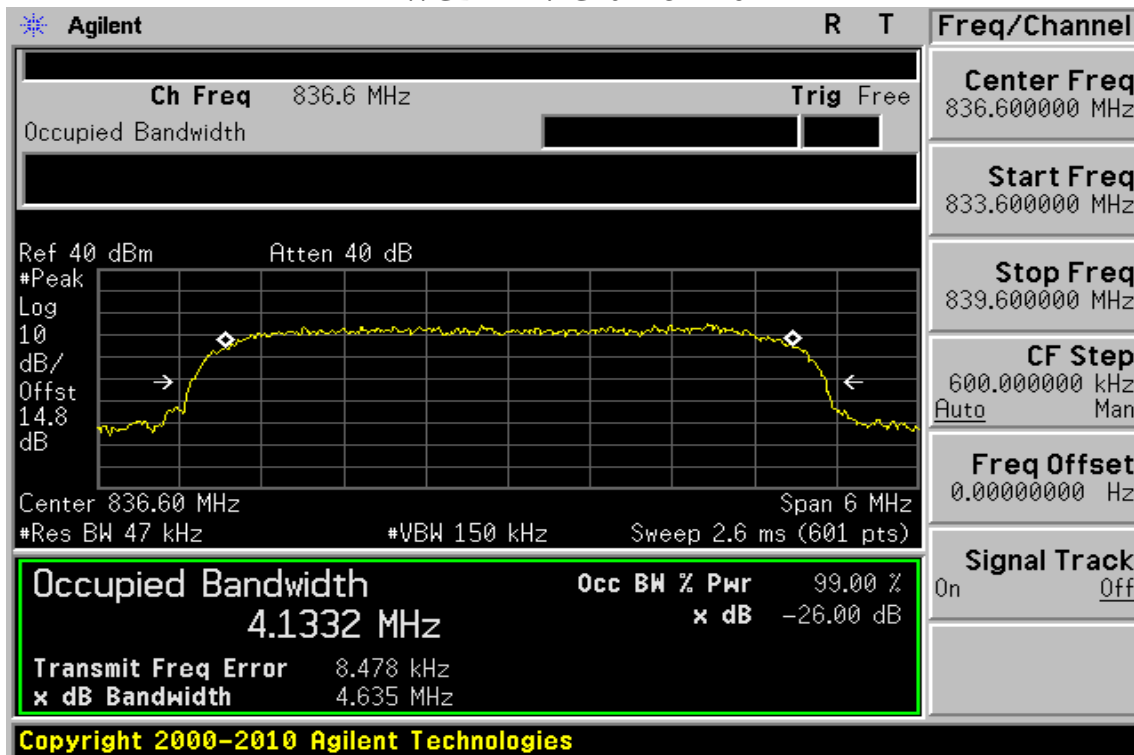
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WCDMA V Channel Low



WCDMA V Channel Mid



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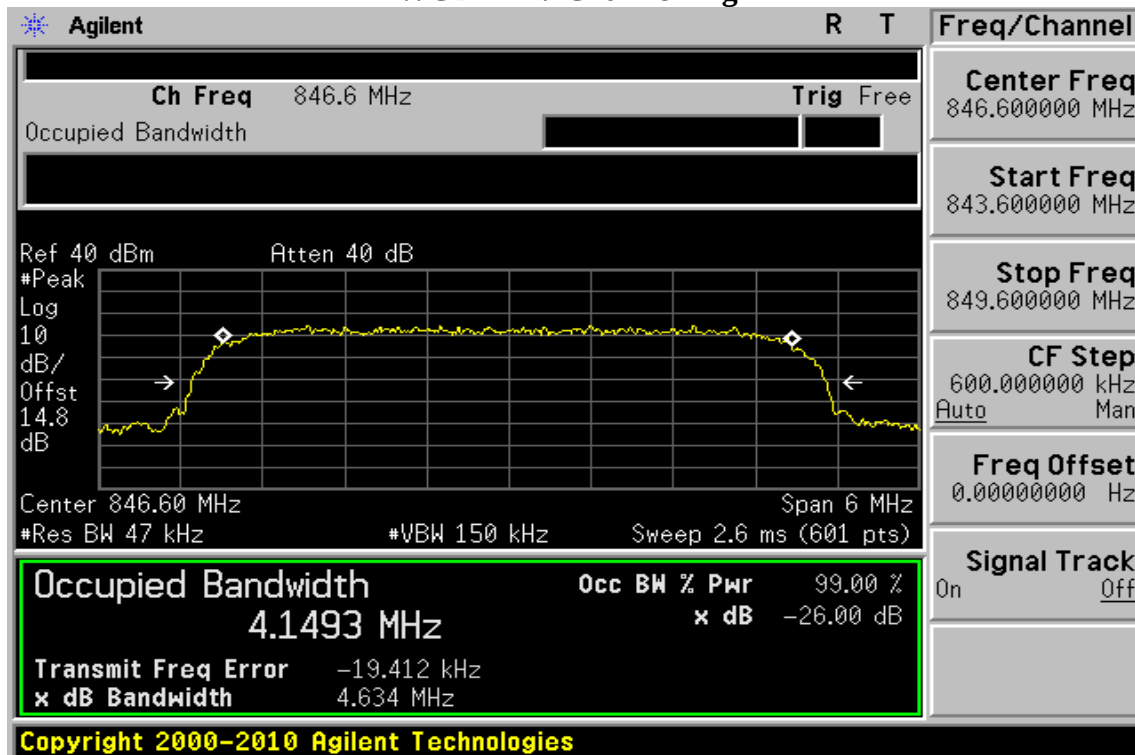
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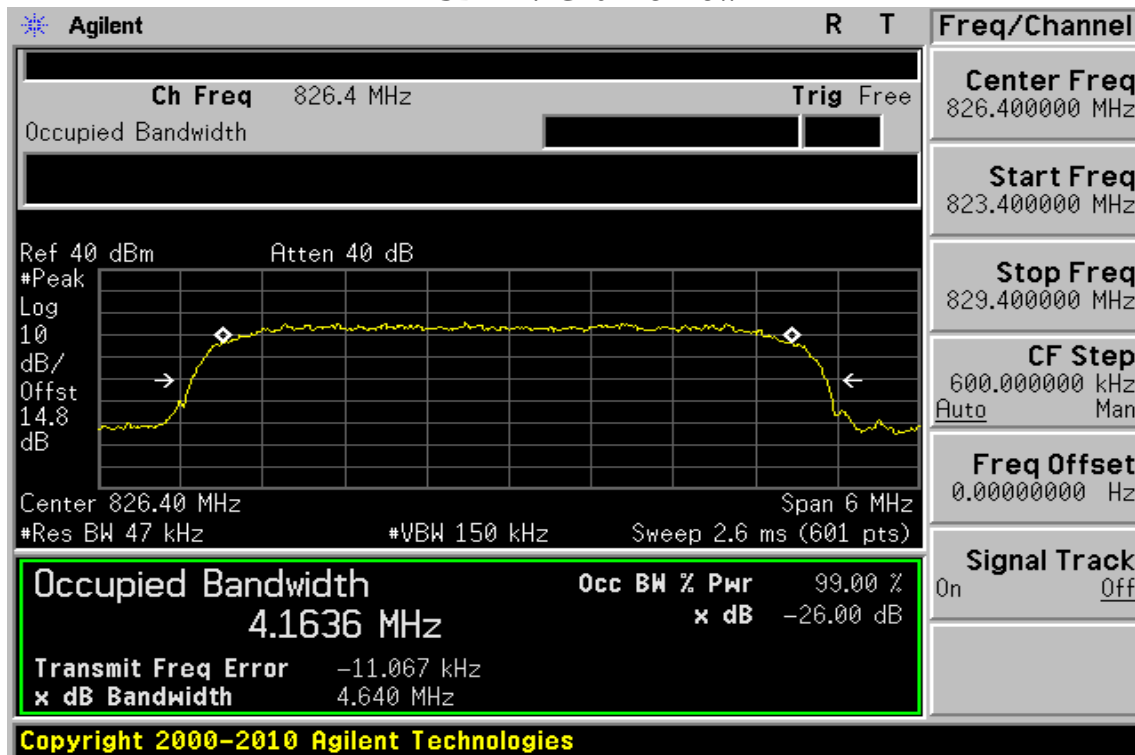
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WCDMA V Channel High



HSDPA V Channel Low



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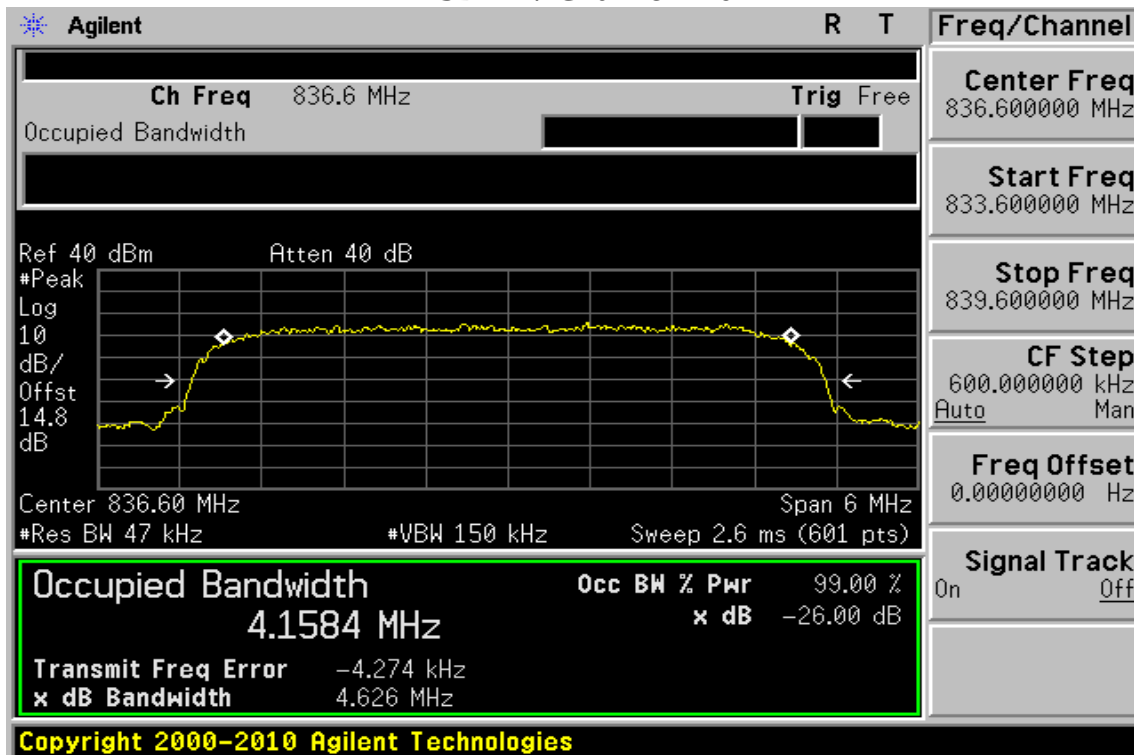
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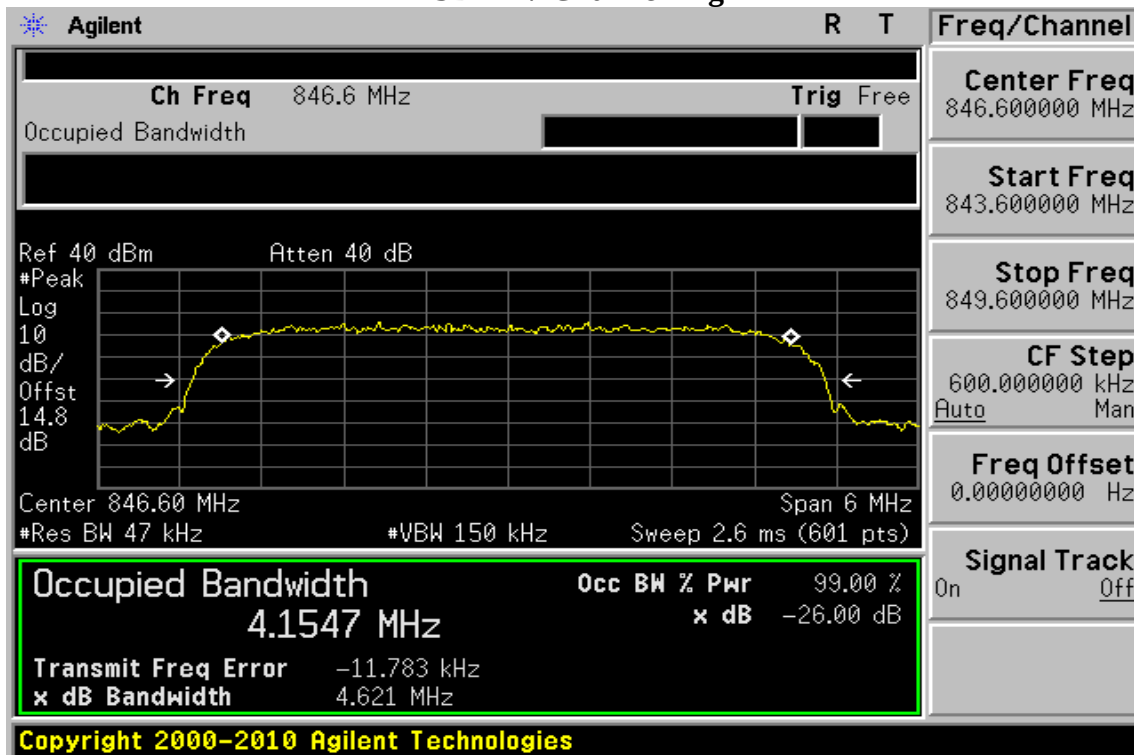
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HSDPA V Channel Mid



HSDPA V Channel High



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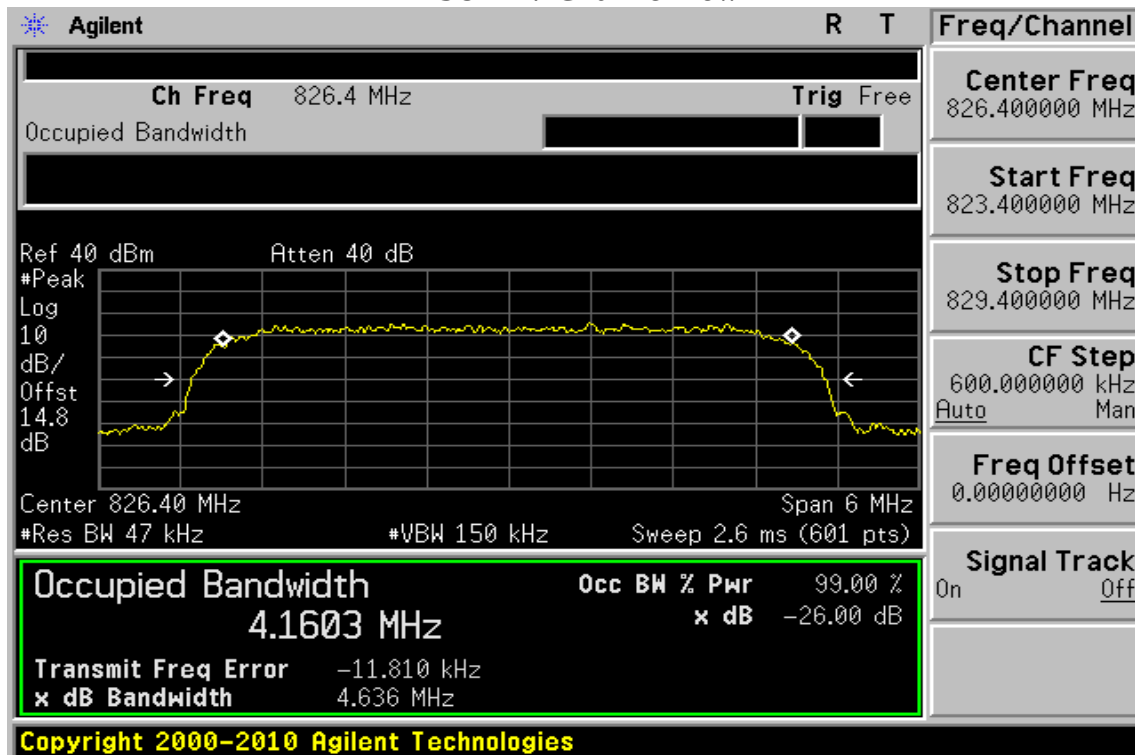
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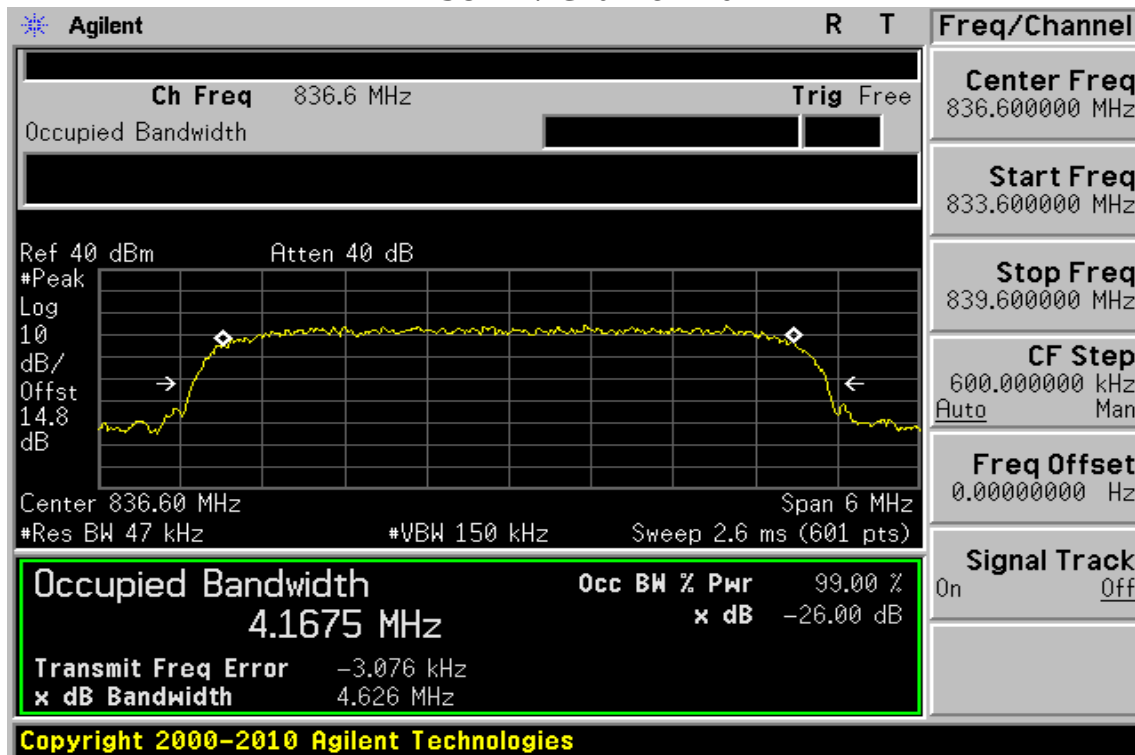
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HSUPA V Channel Low



HSUPA V Channel Mid



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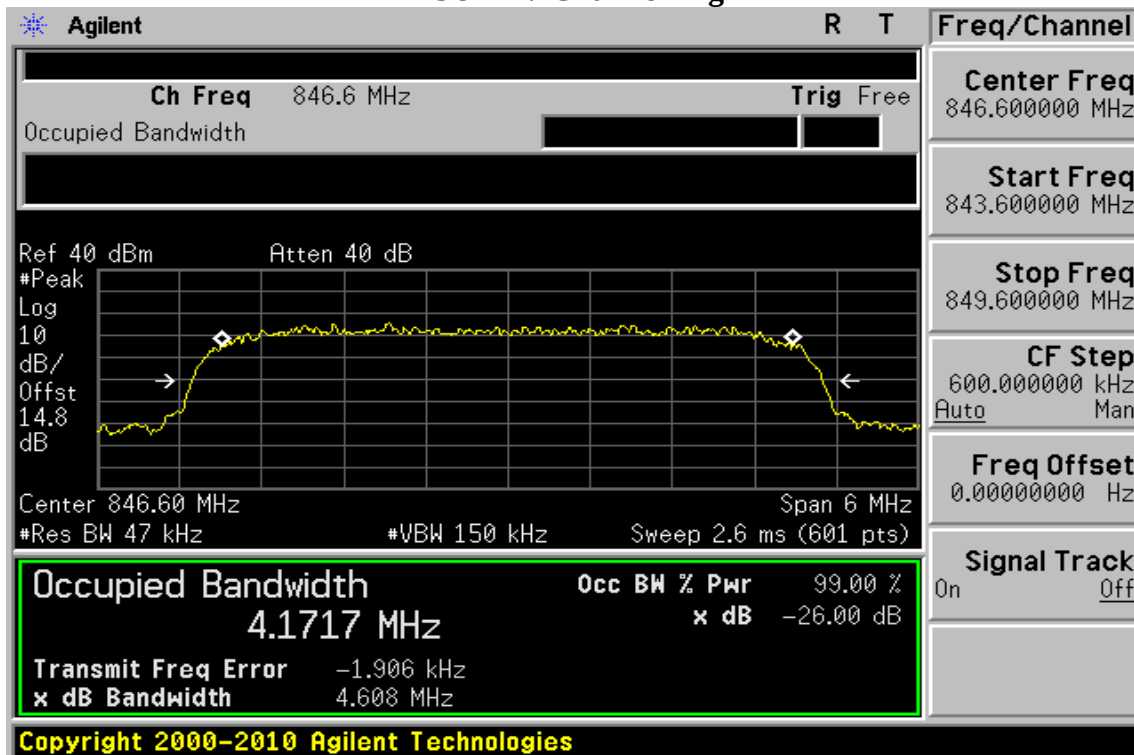
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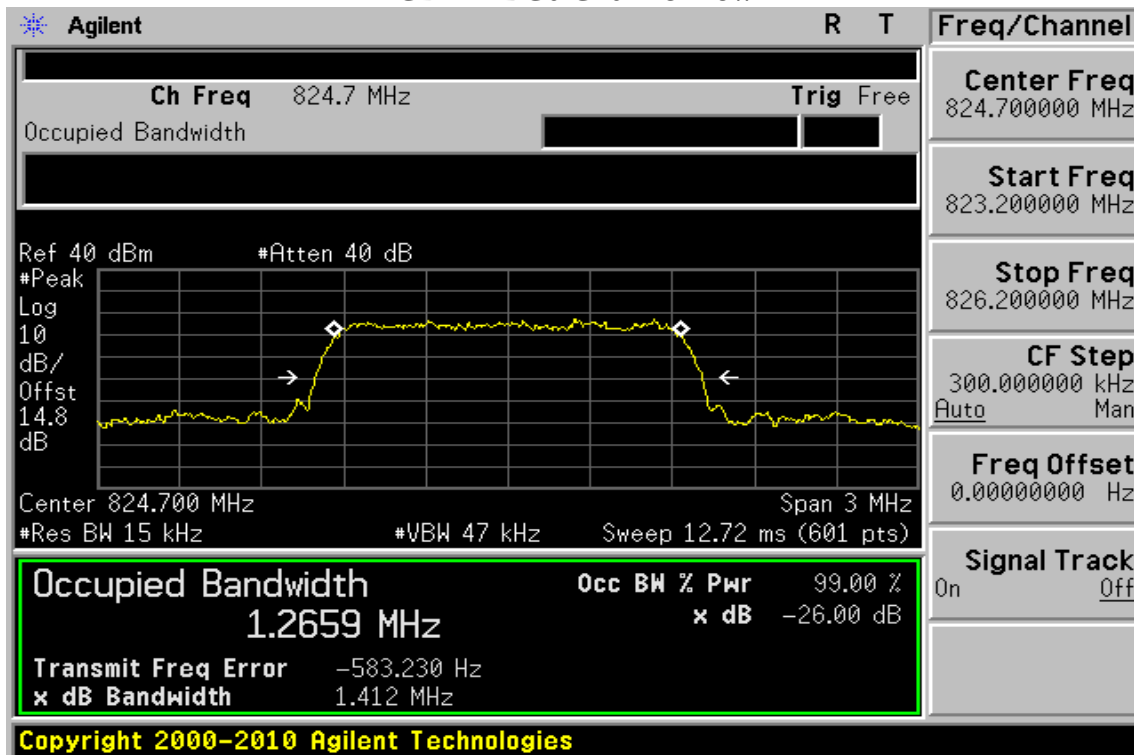
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HSUPA V Channel High



CDMA BC0 Channel Low



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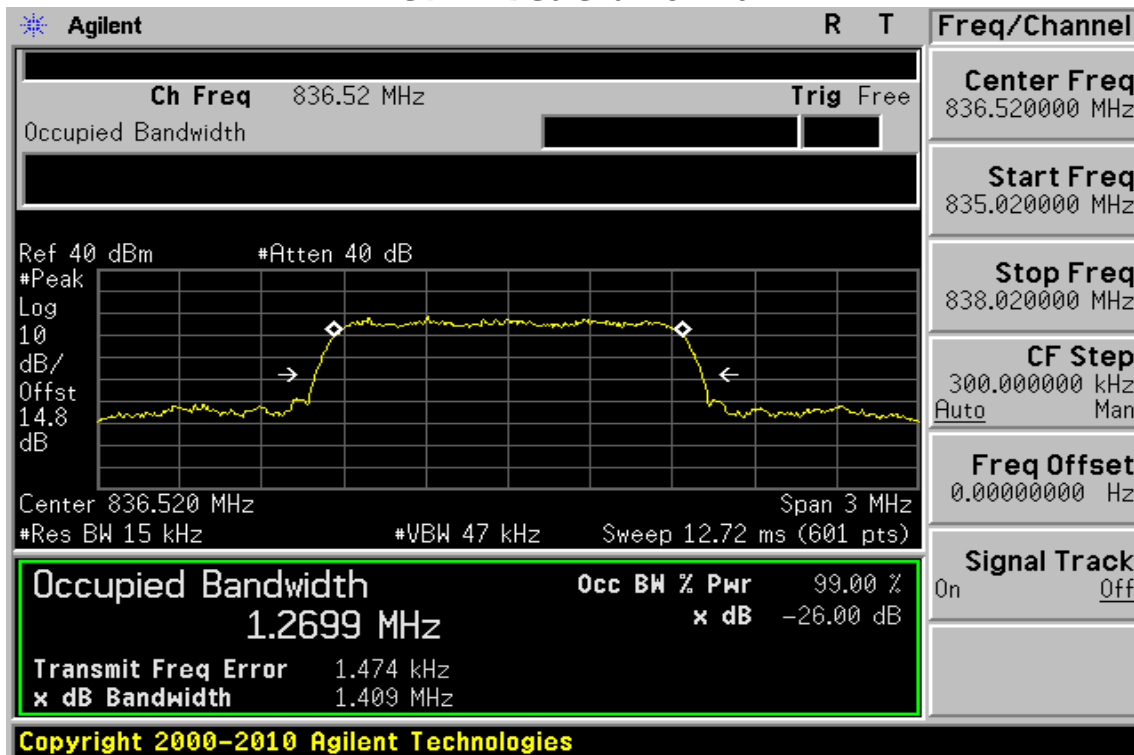
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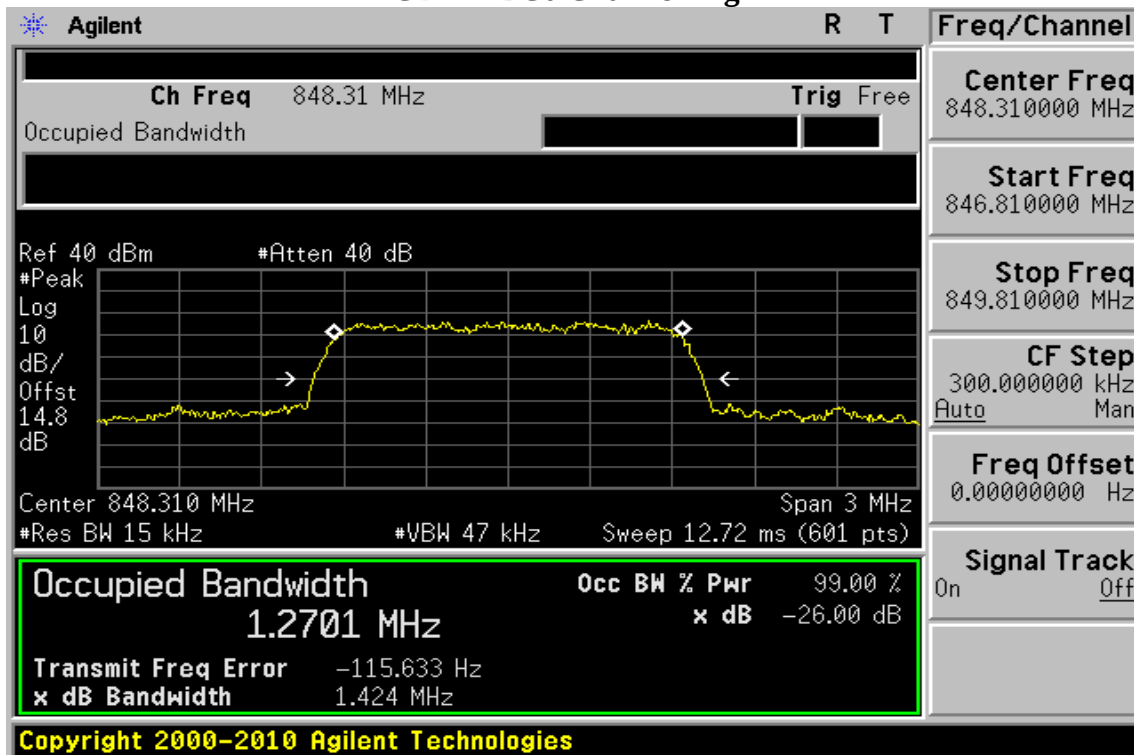
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CDMA BC0 Channel Mid



CDMA BC0 Channel High



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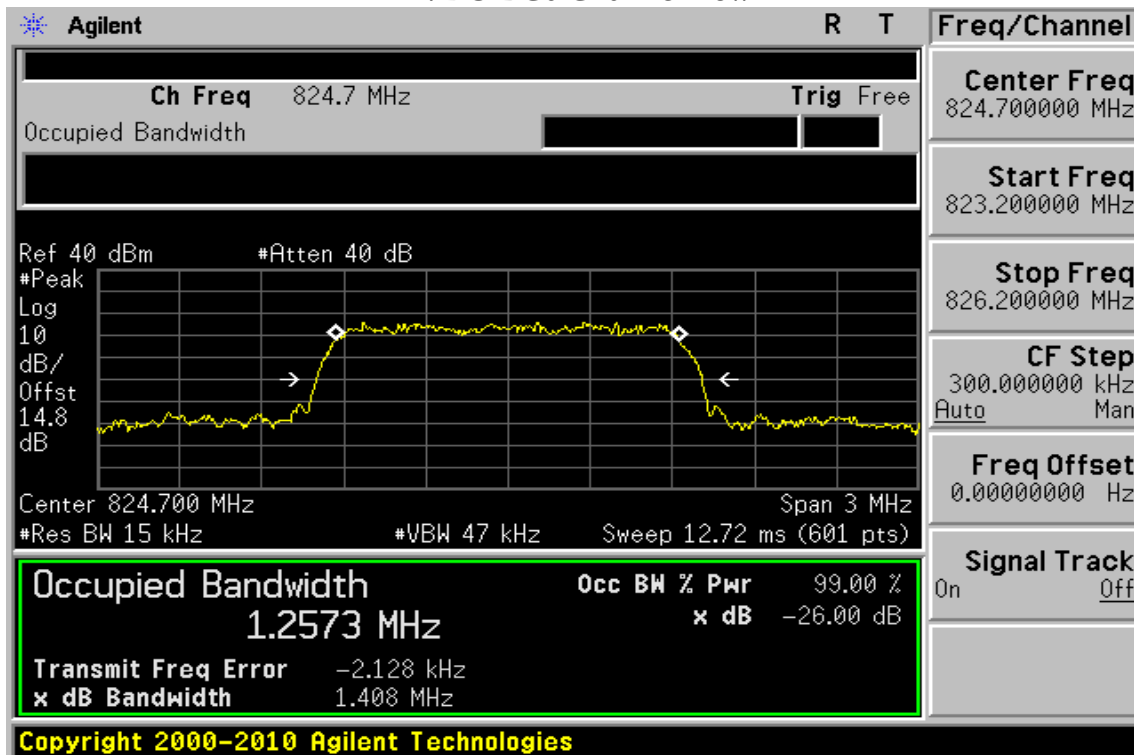
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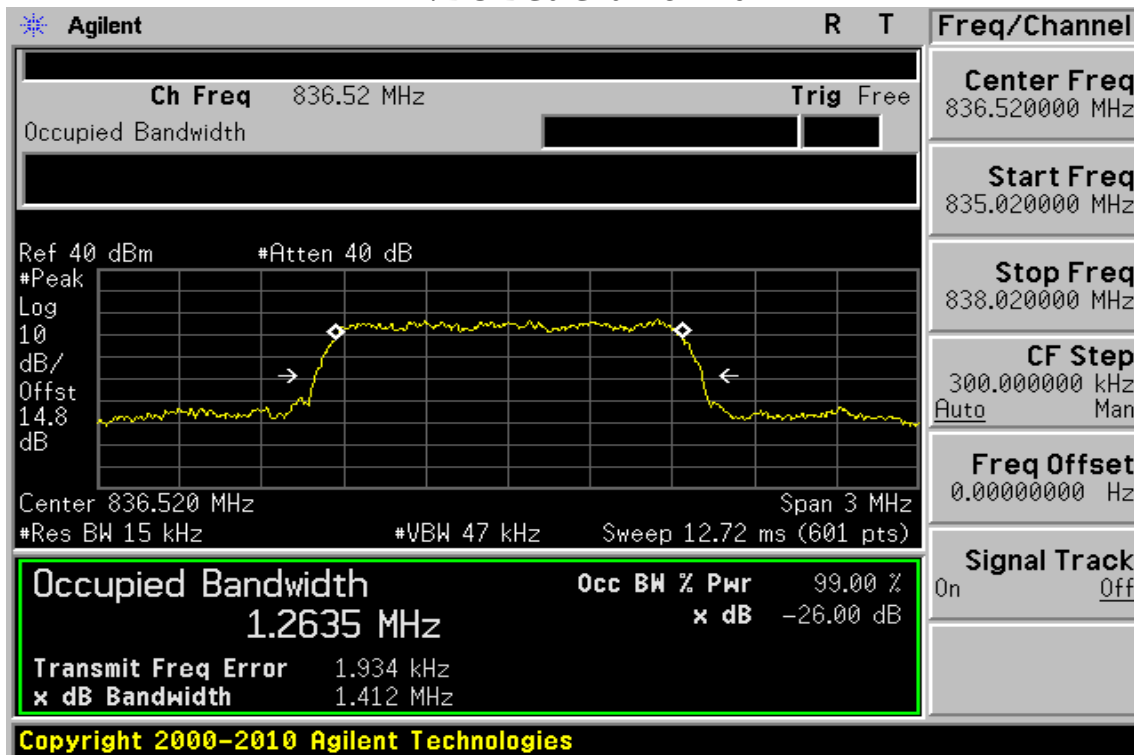
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EVDO BC0 Channel Low



EVDO BC0 Channel Mid



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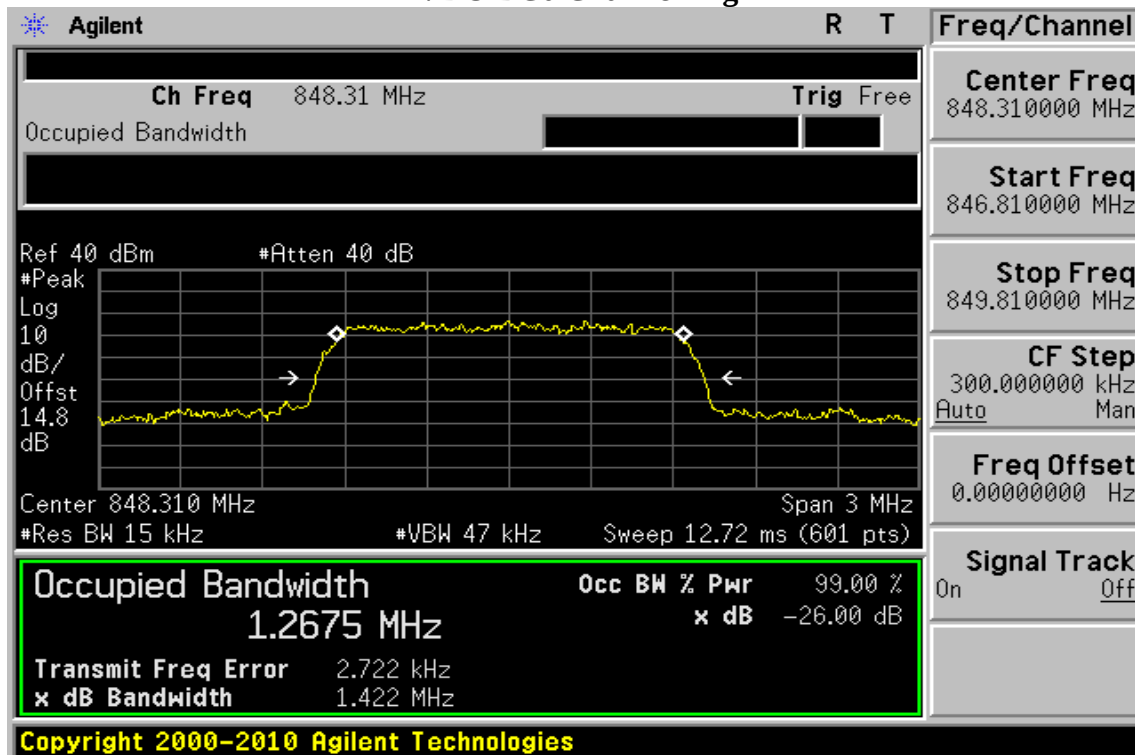
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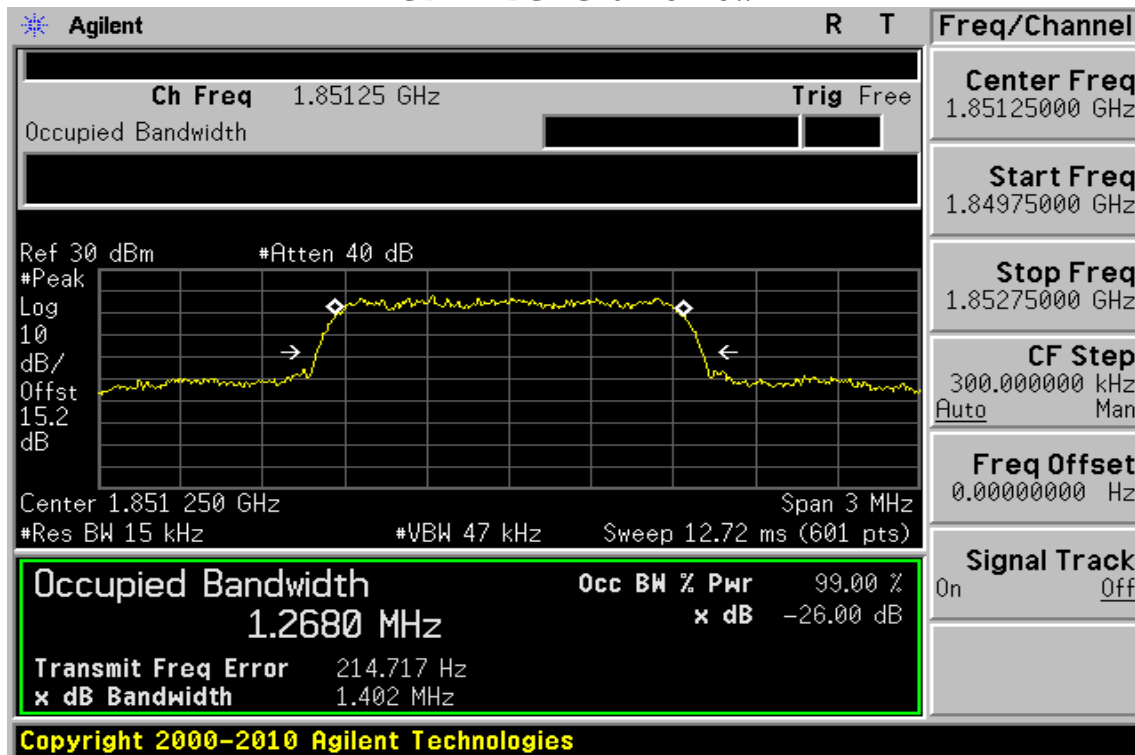
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EVDO BC0 Channel High



CDMA BC1 Channel Low



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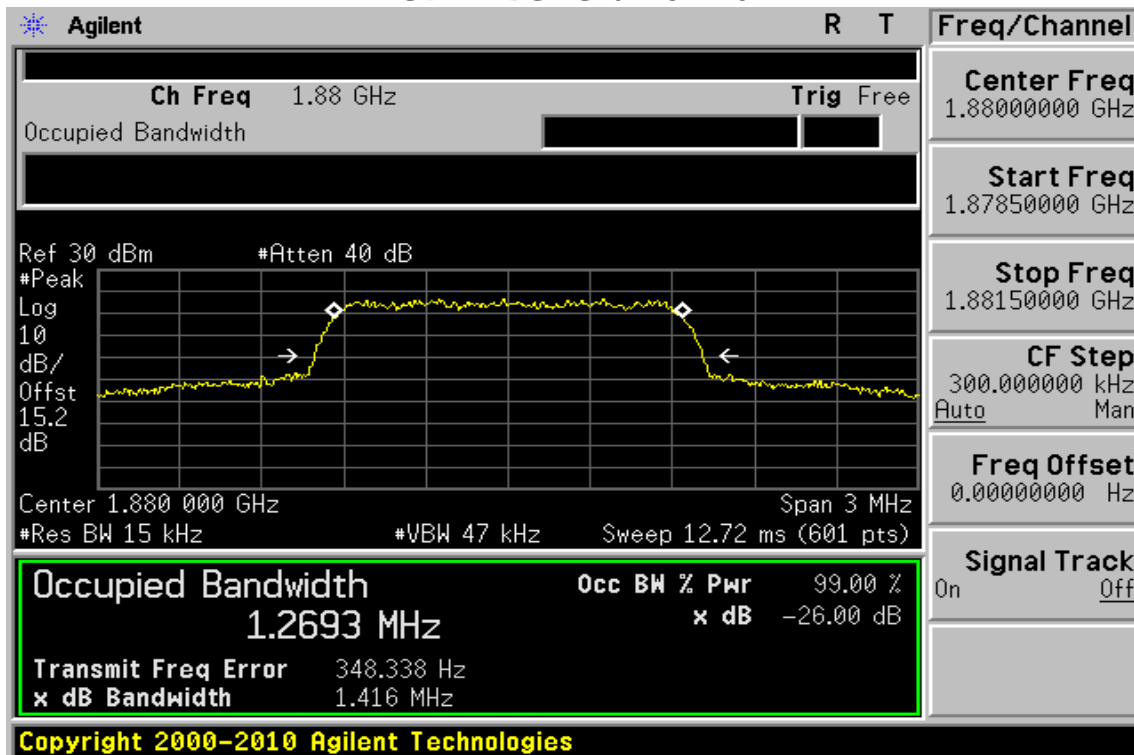
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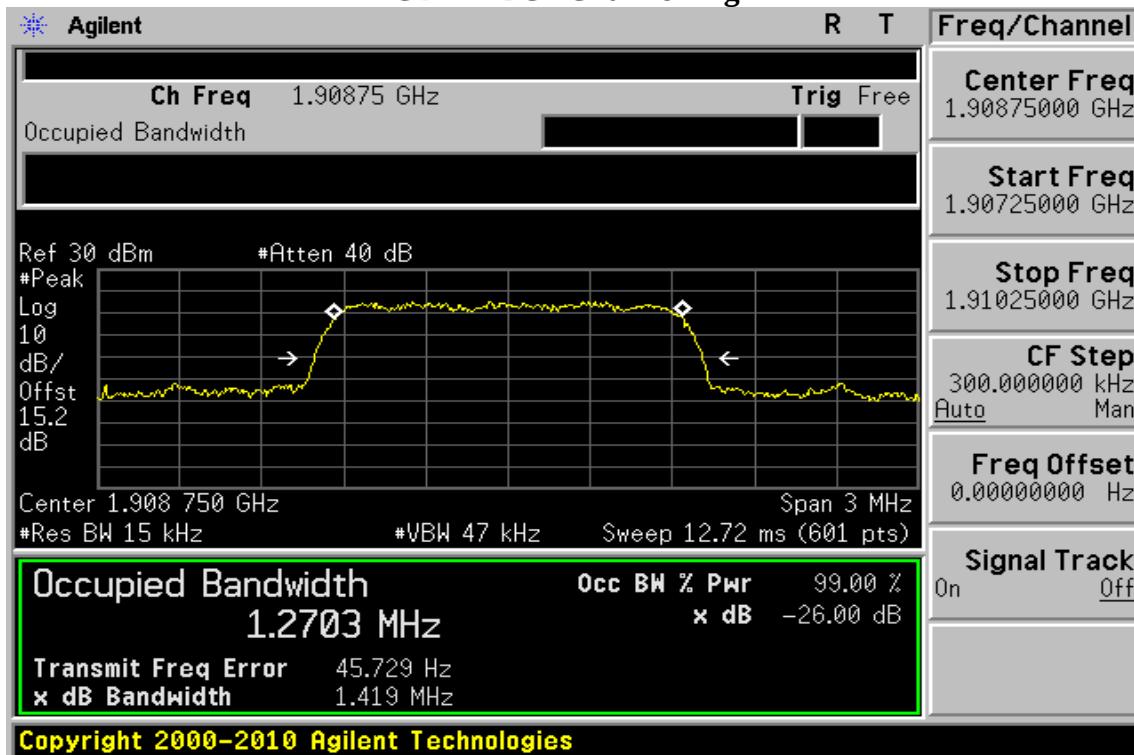
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CDMA BC1 Channel Mid



CDMA BC1 Channel High



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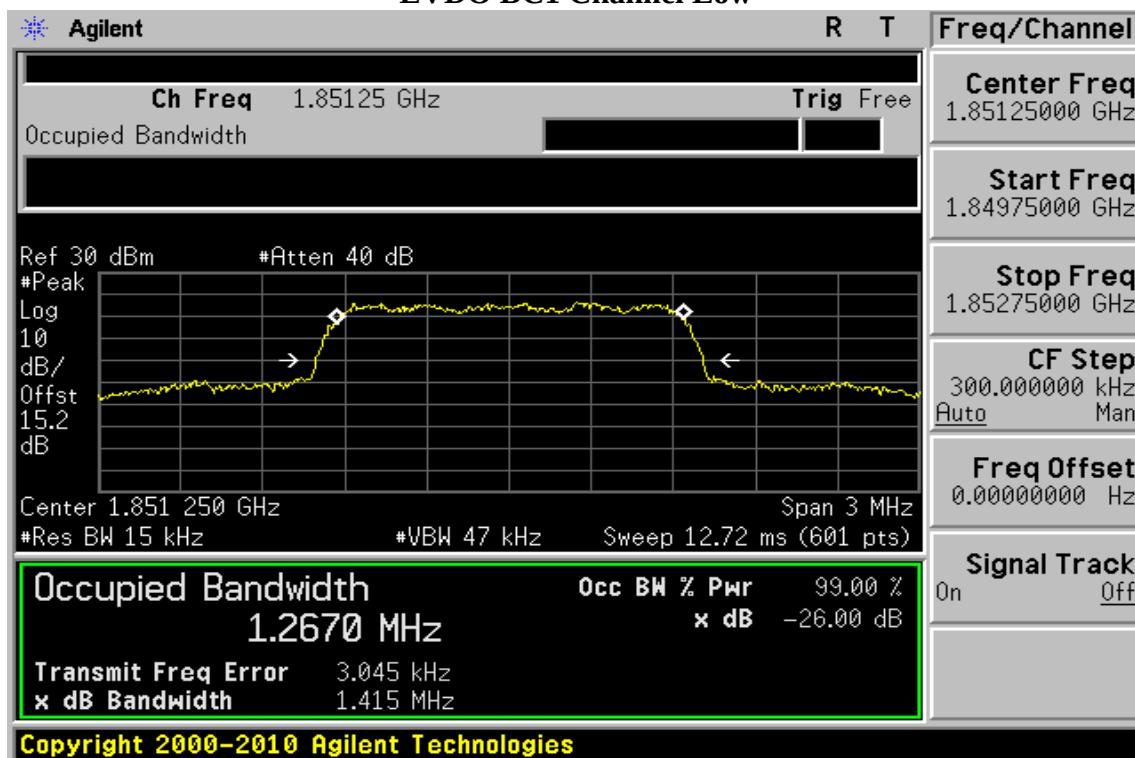
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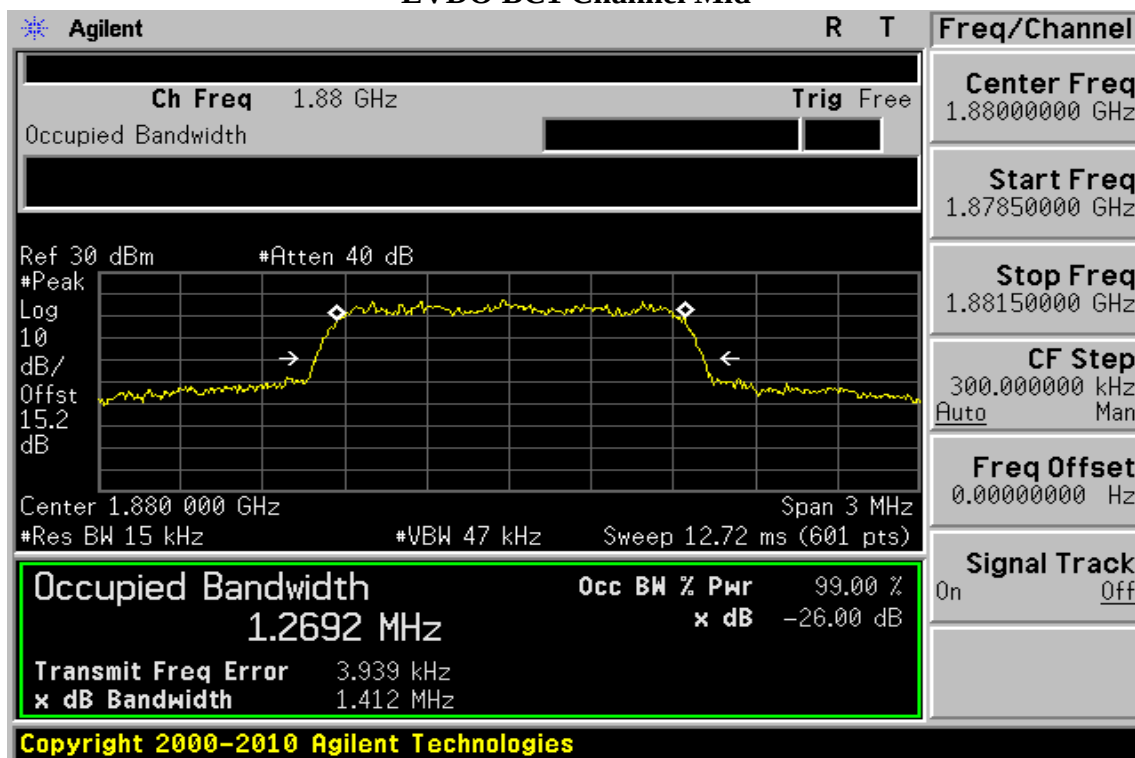
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EVDO BC1 Channel Low



EVDO BC1 Channel Mid



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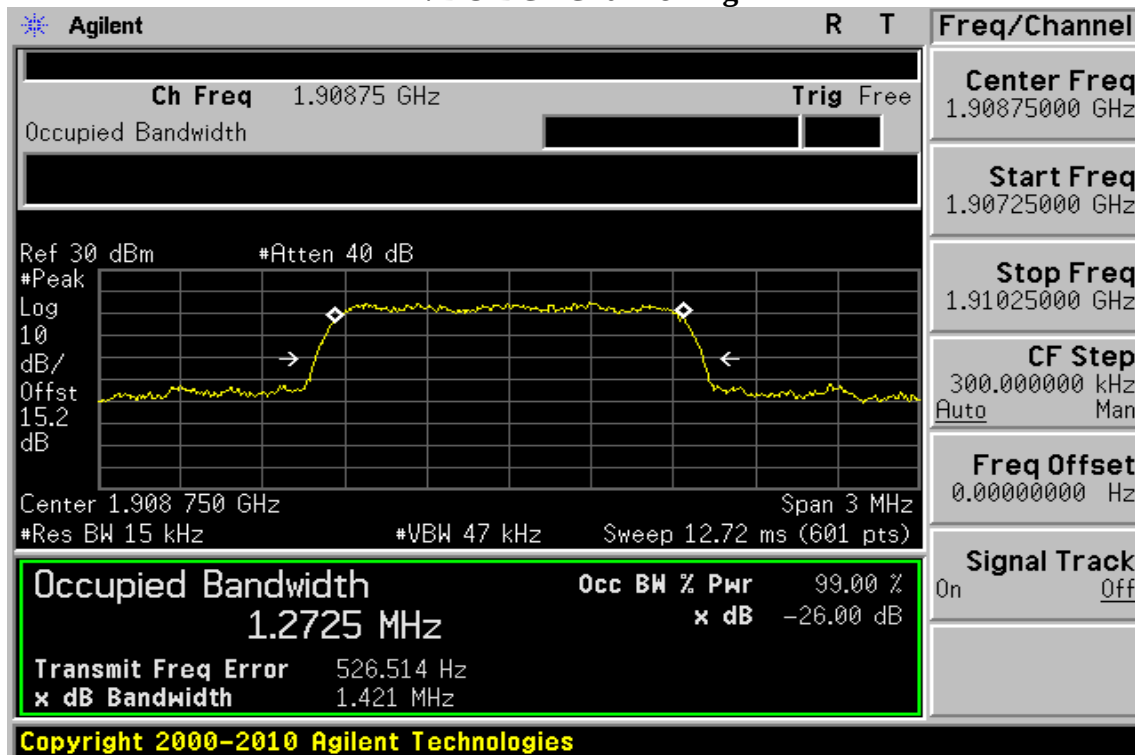
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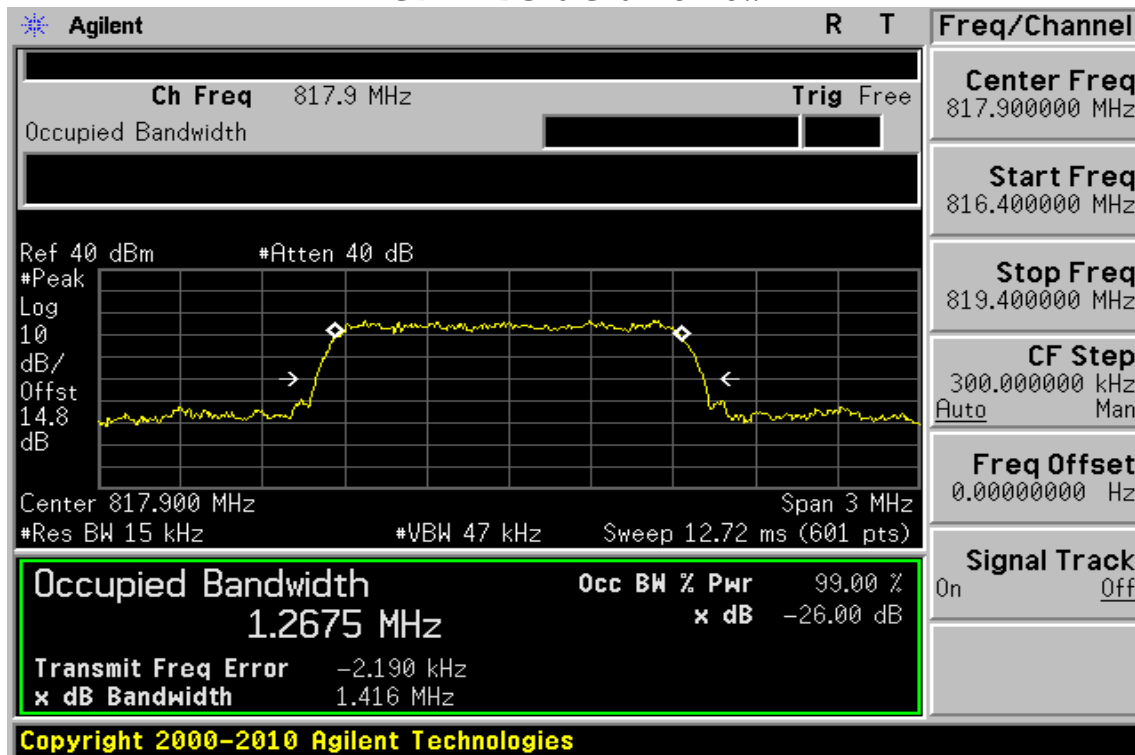
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EVDO BC1 Channel High



CDMA BC10 Channel Low



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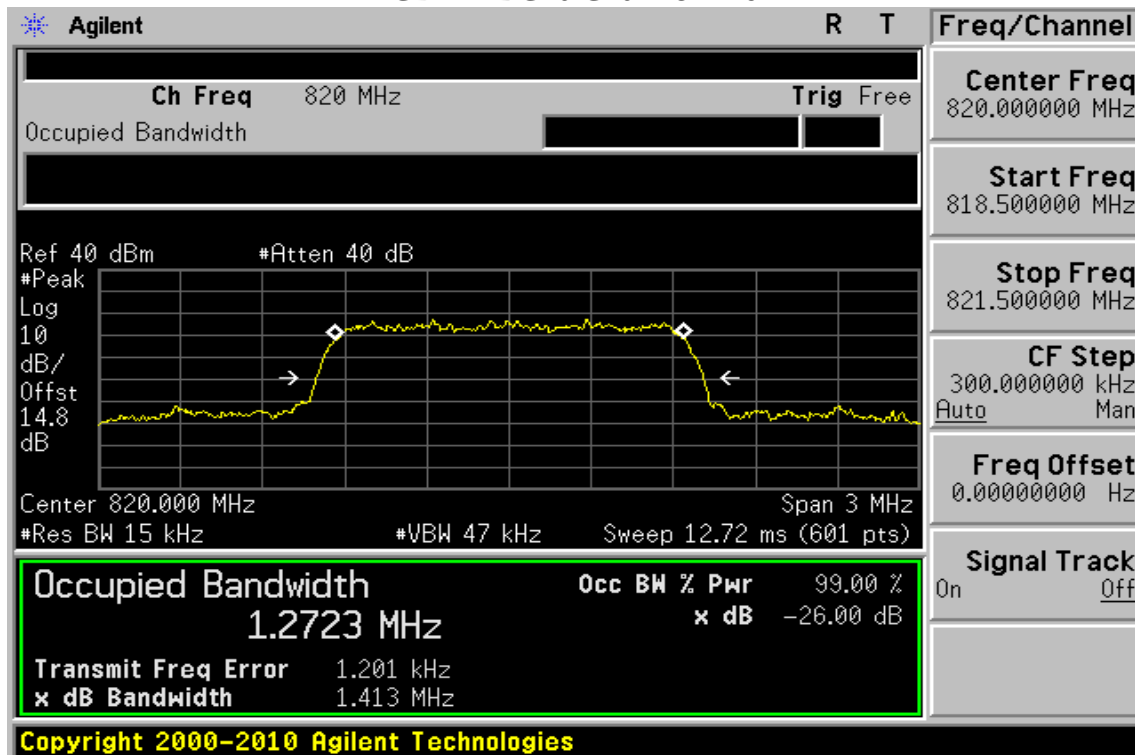
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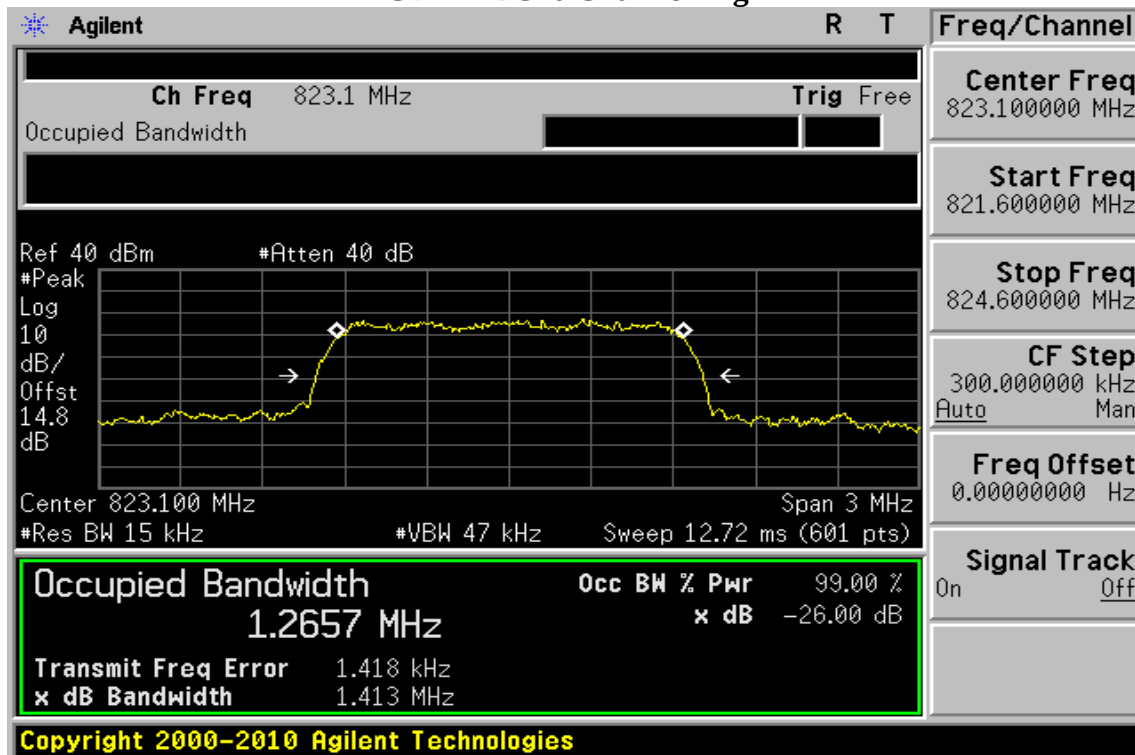
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CDMA BC10 Channel Mid



CDMA BC10 Channel High



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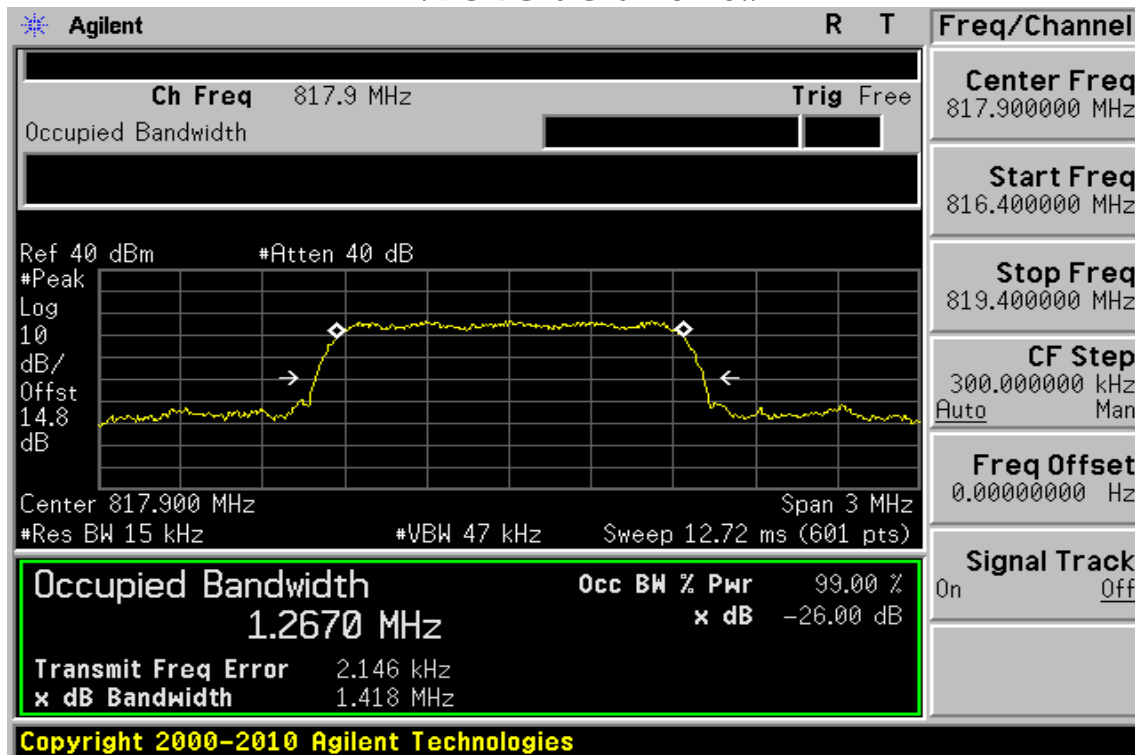
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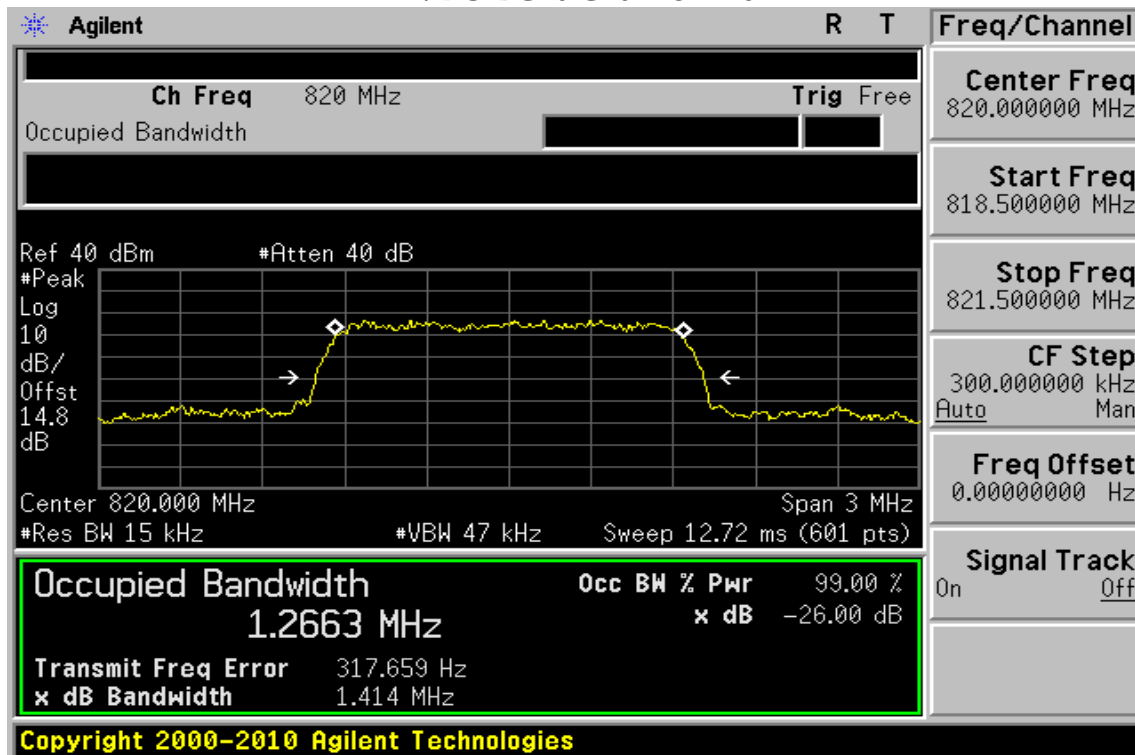
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EVDO BC10 Channel Low



EVDO BC10 Channel Mid



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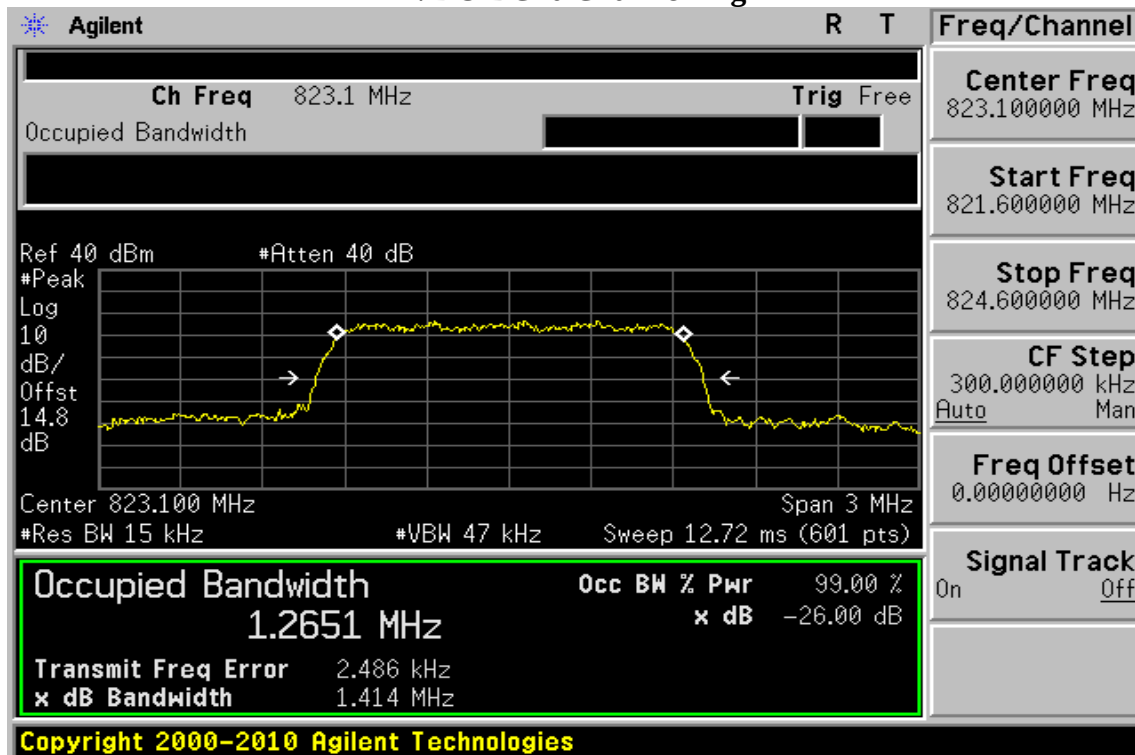
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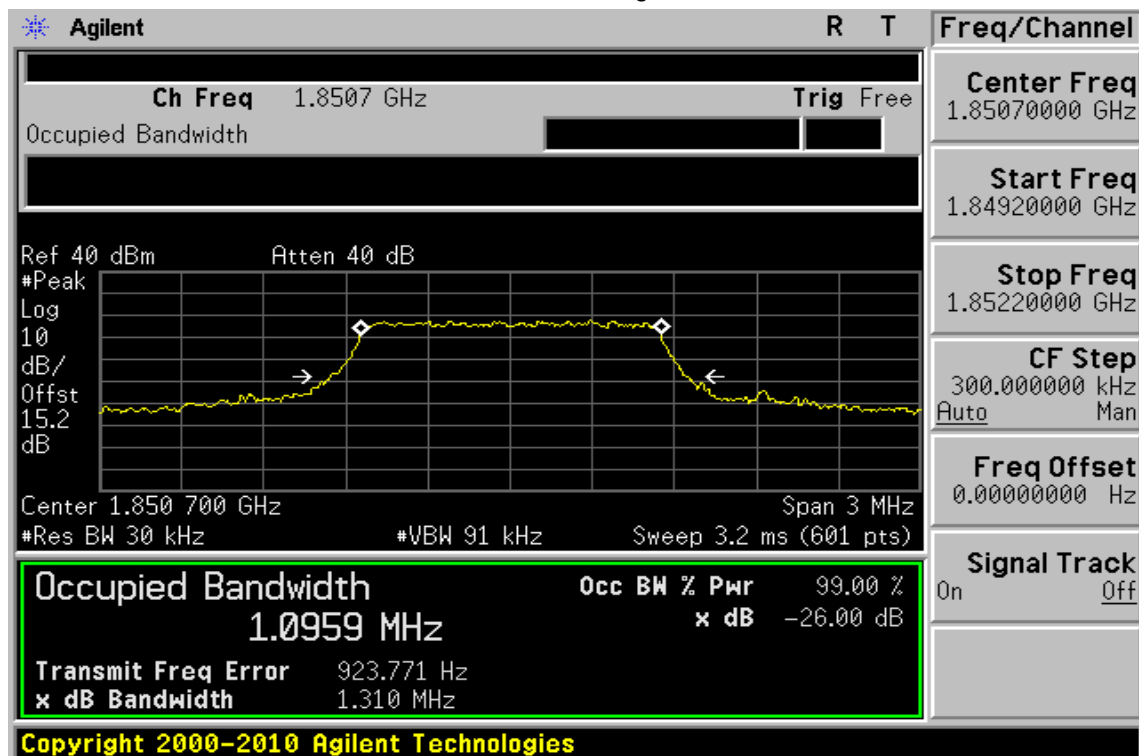
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EVDO BC10 Channel High



1.4MHz BW LTE-Band 2 QPSK Channel Low



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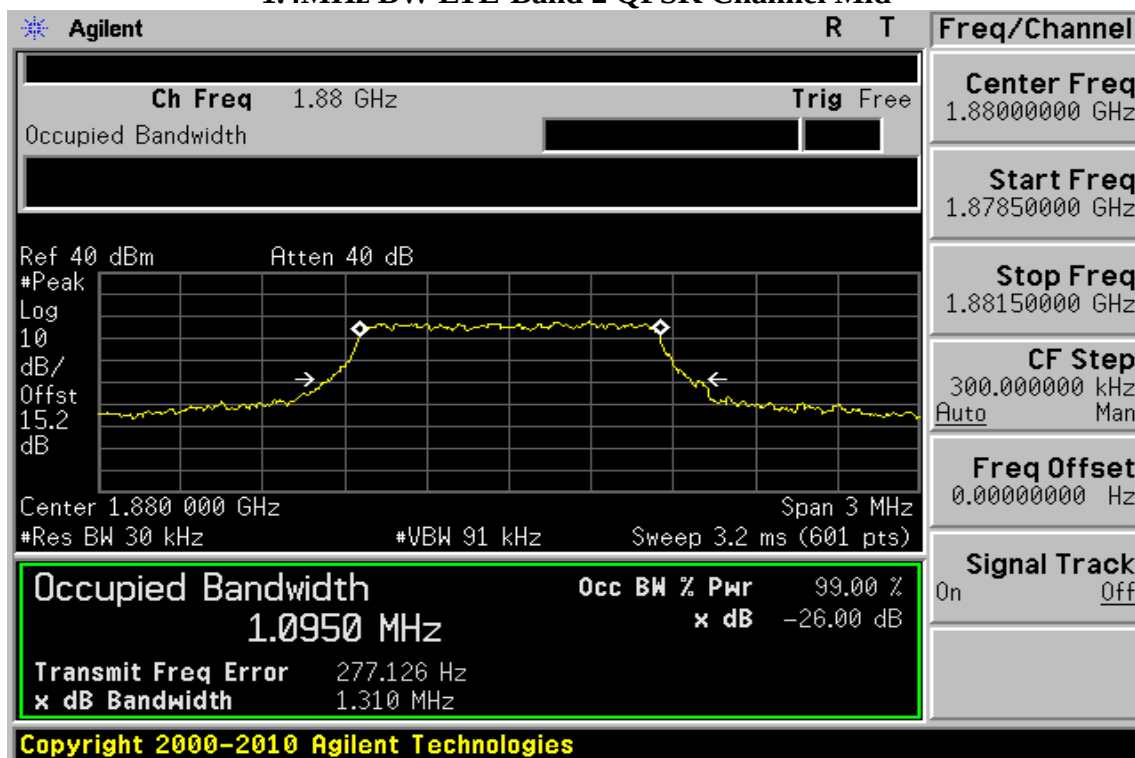
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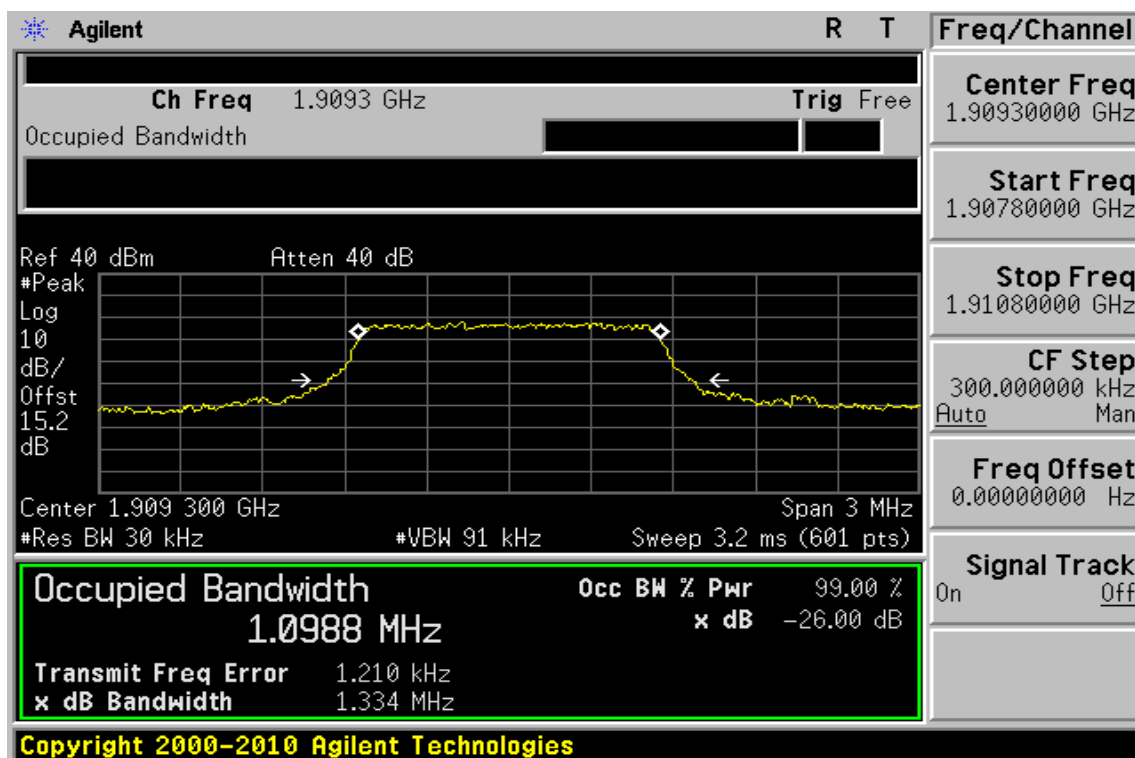
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1.4MHz BW LTE-Band 2 QPSK Channel Mid



.4MHz BW LTE-Band 2 QPSK Channel High



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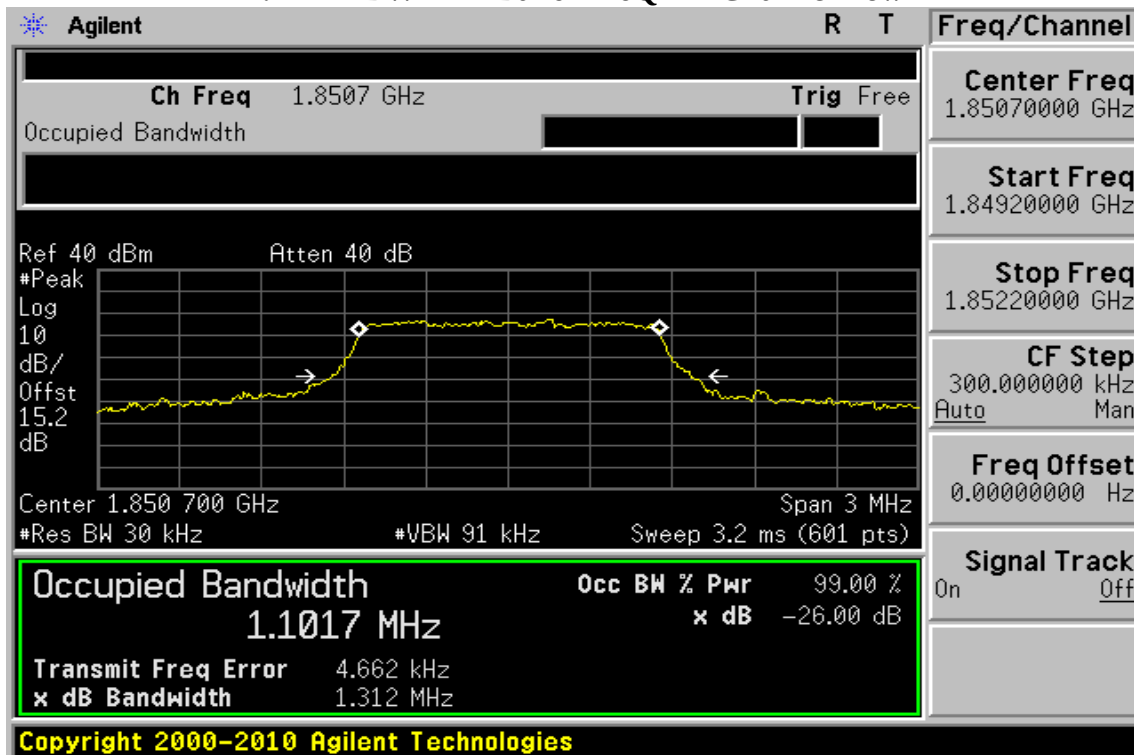
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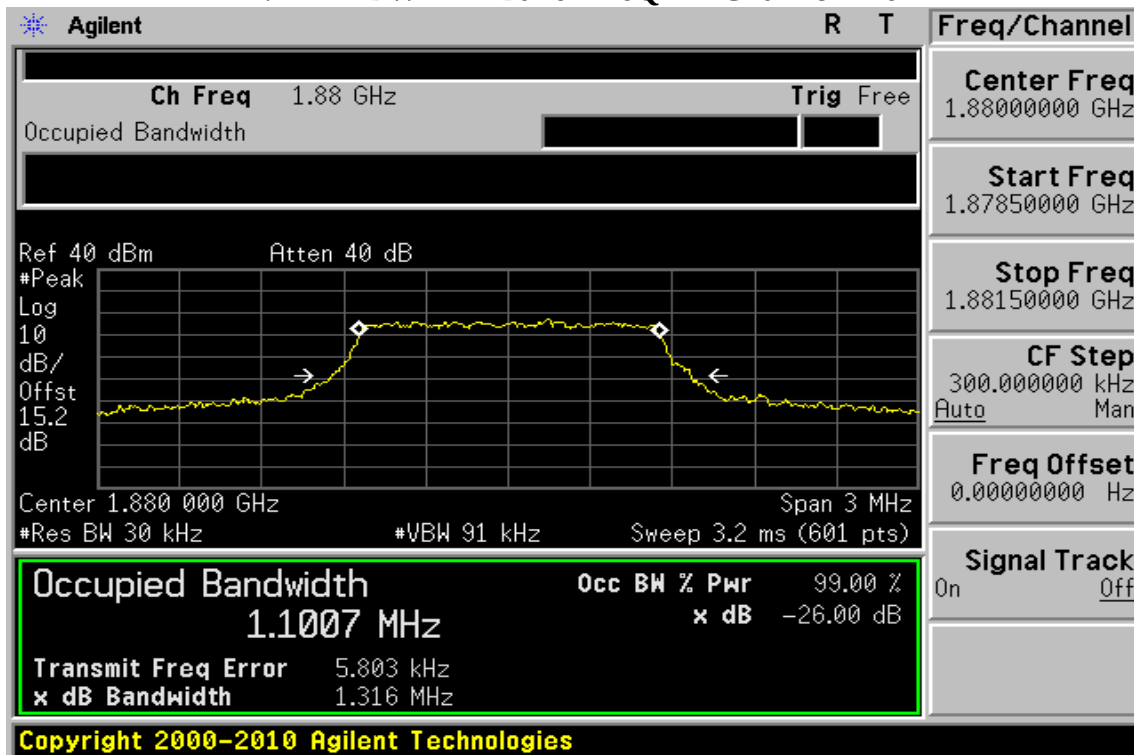
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1.4MHz BW LTE-Band 2 16QAM Channel Low



1.4MHz BW LTE-Band 2 16QAM Channel Mid



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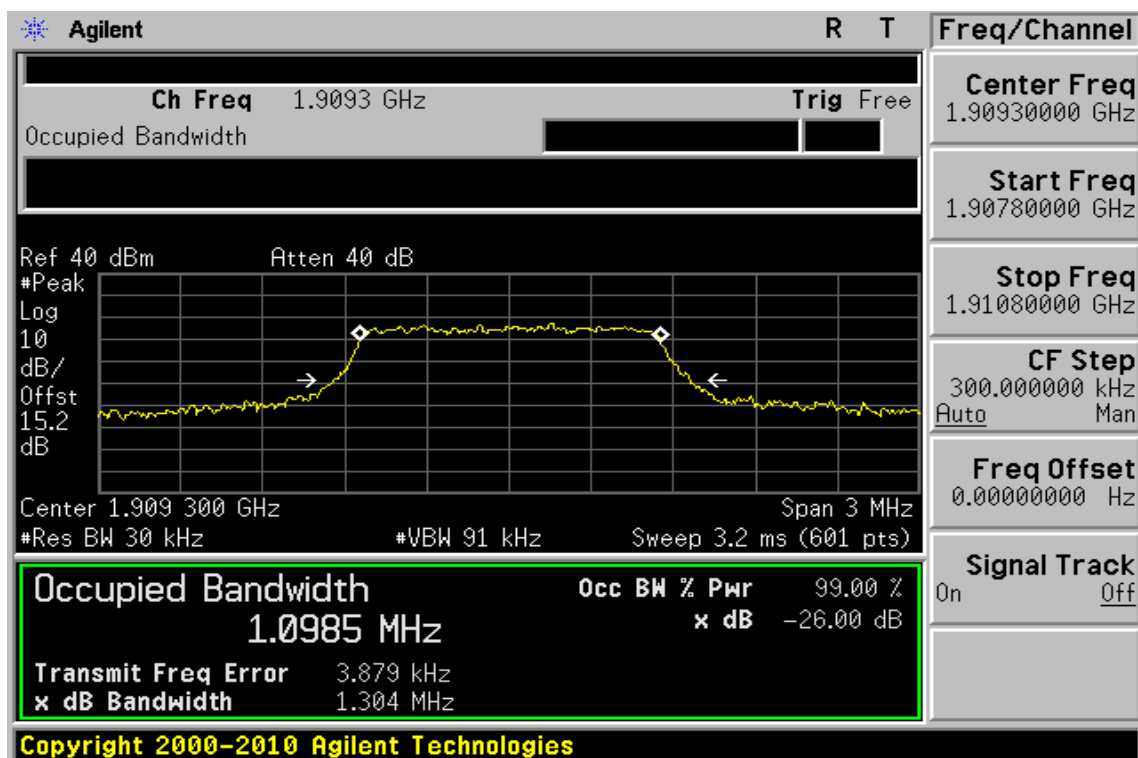
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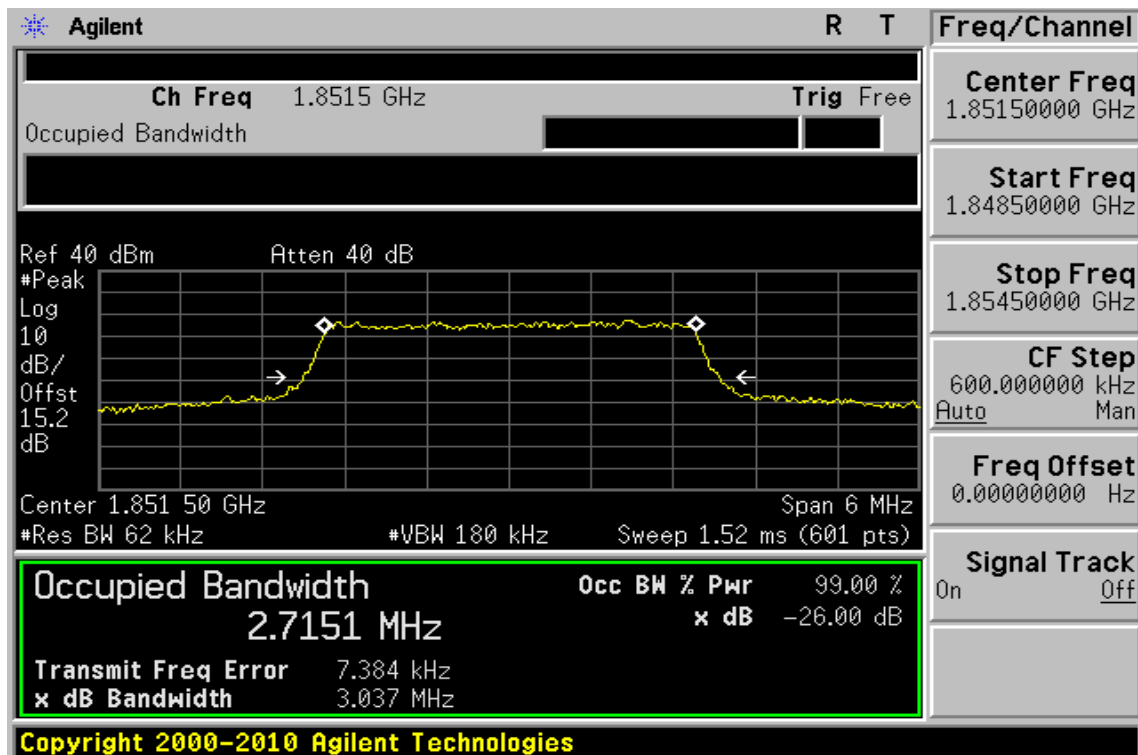
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1.4MHz BW LTE-Band 2 16QAM Channel High



3MHz BW LTE-Band 2 QPSK Channel Low



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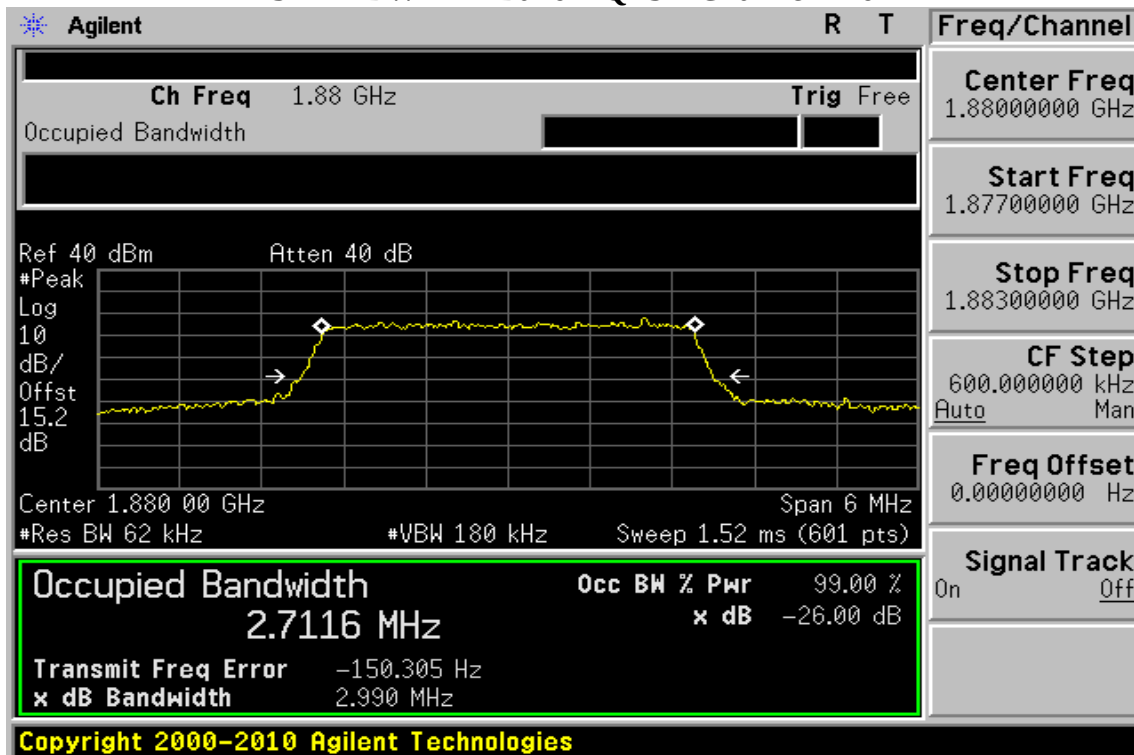
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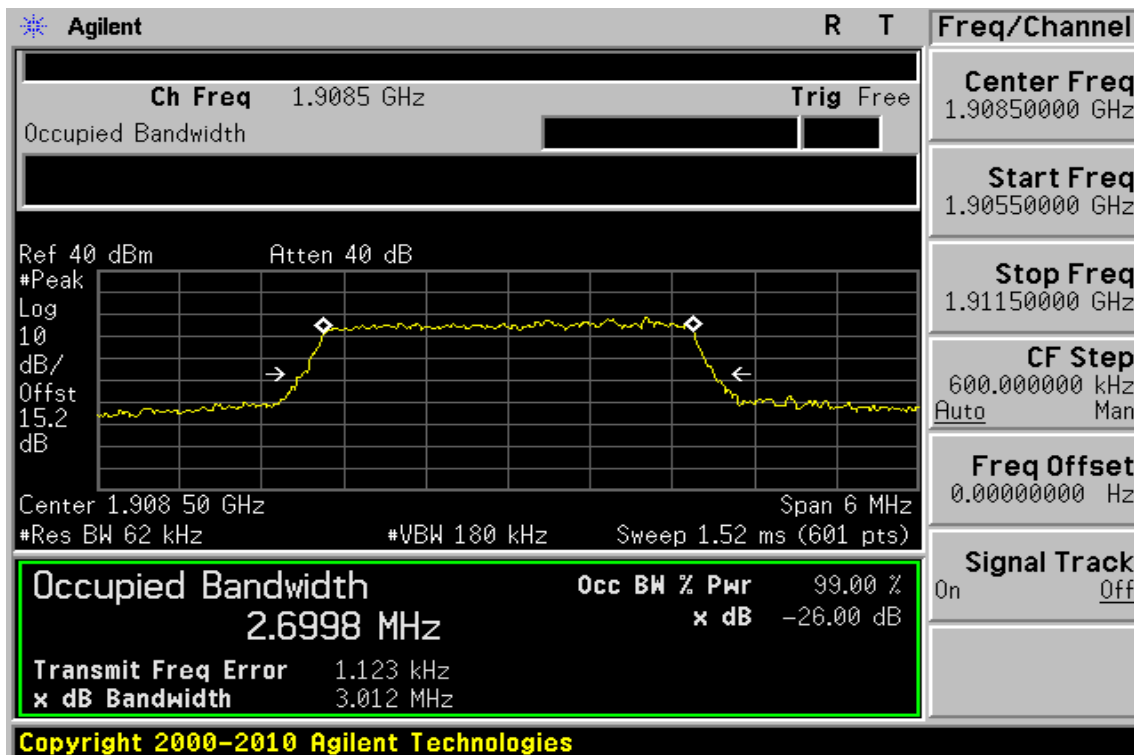
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3MHz BW LTE-Band 2 QPSK Channel Mid



3MHz BW LTE-Band 2 QPSK Channel High



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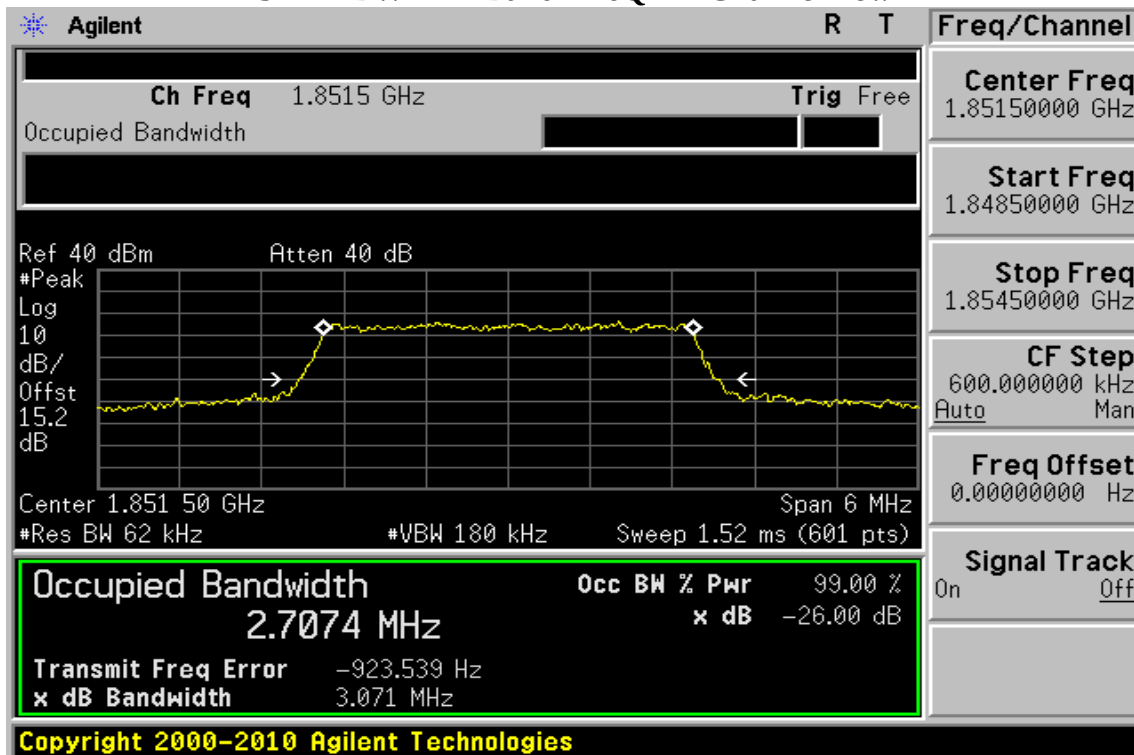
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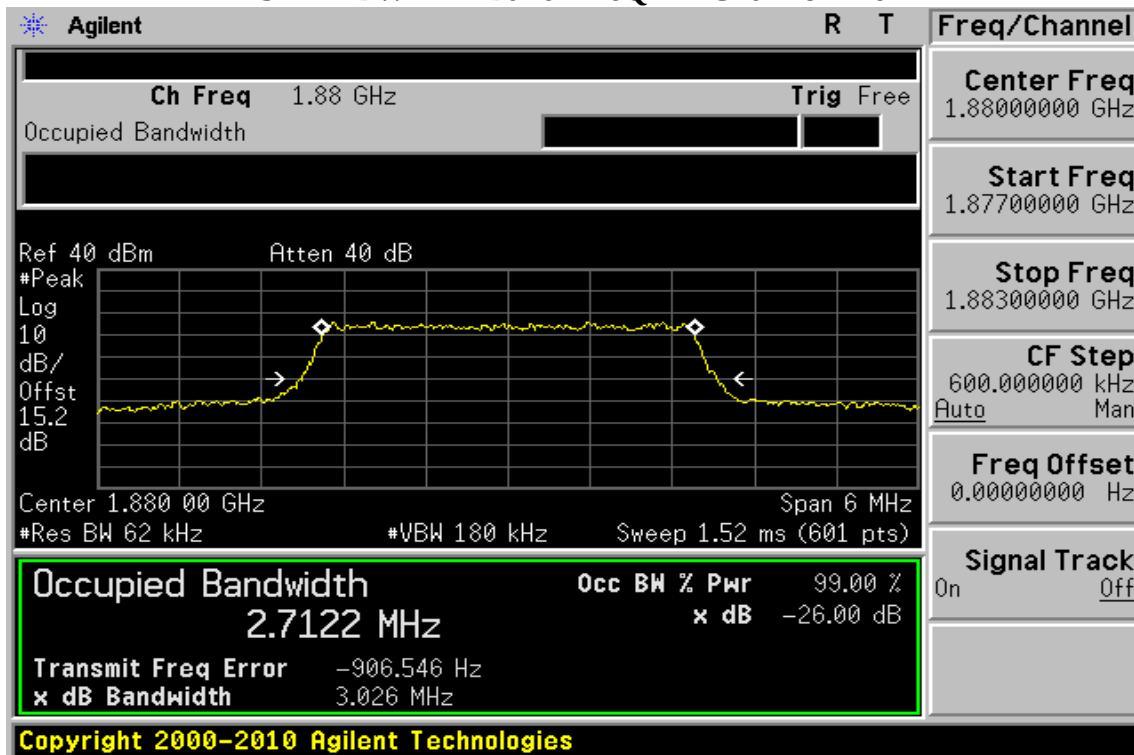
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3MHz BW LTE-Band 2 16QAM Channel Low



3MHz BW LTE-Band 2 16QAM Channel Mid



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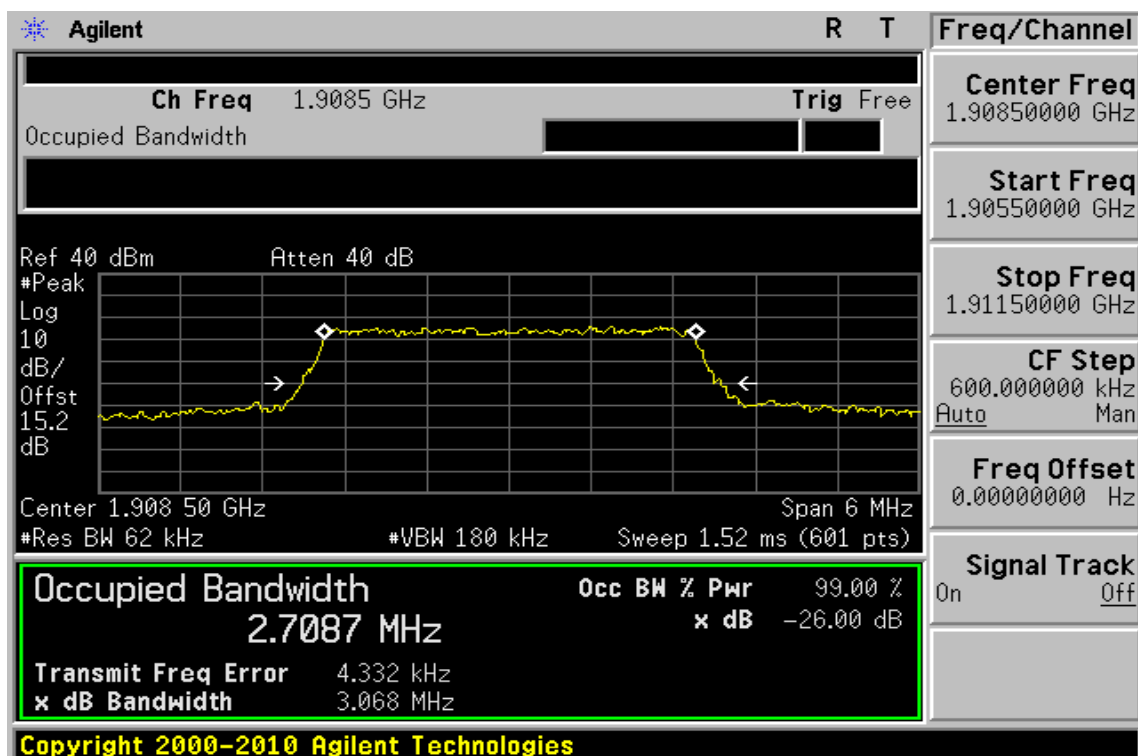
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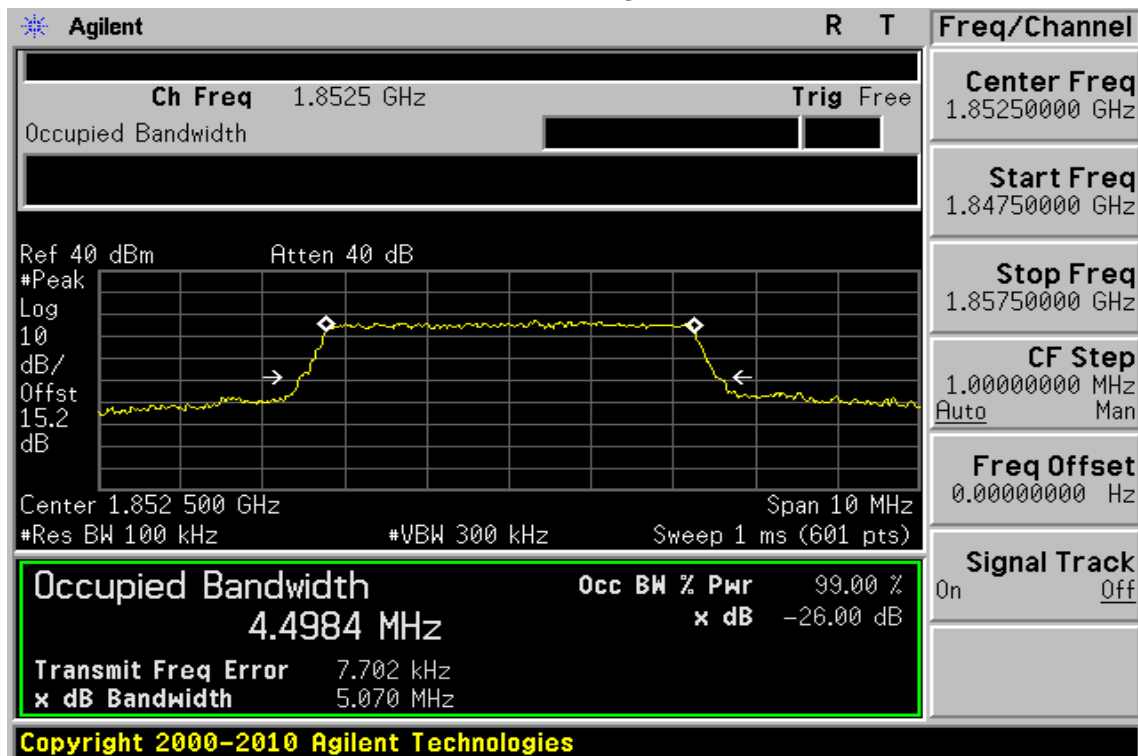
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3MHz BW LTE-Band 2 16QAM Channel High



5MHz BW LTE-Band 2 QPSK Channel Low



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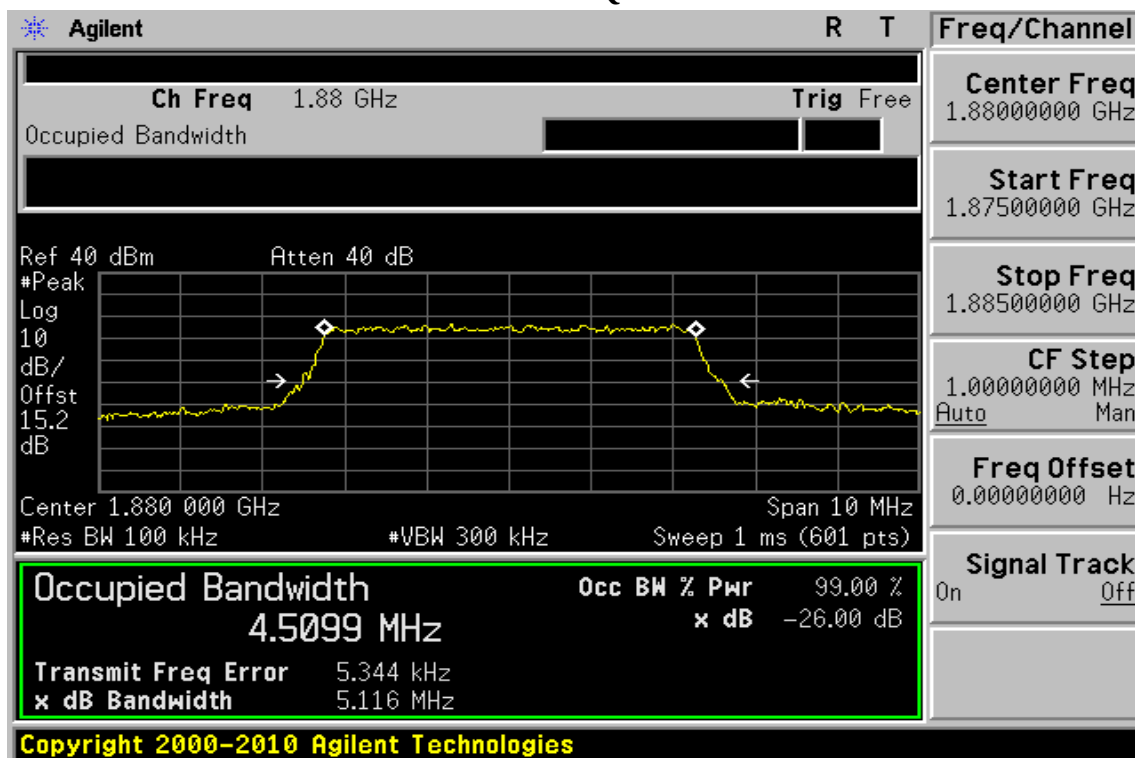
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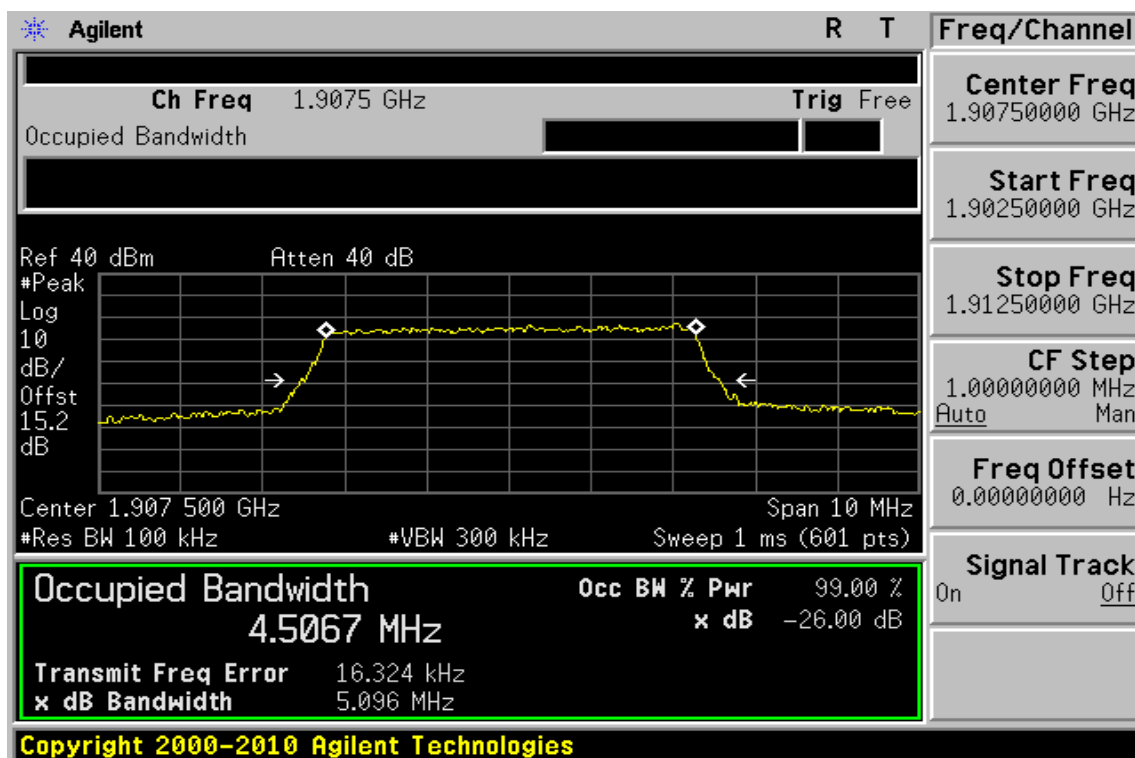
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5MHz BW LTE-Band 2 QPSK Channel Mid



5MHz BW LTE-Band 2 QPSK Channel High



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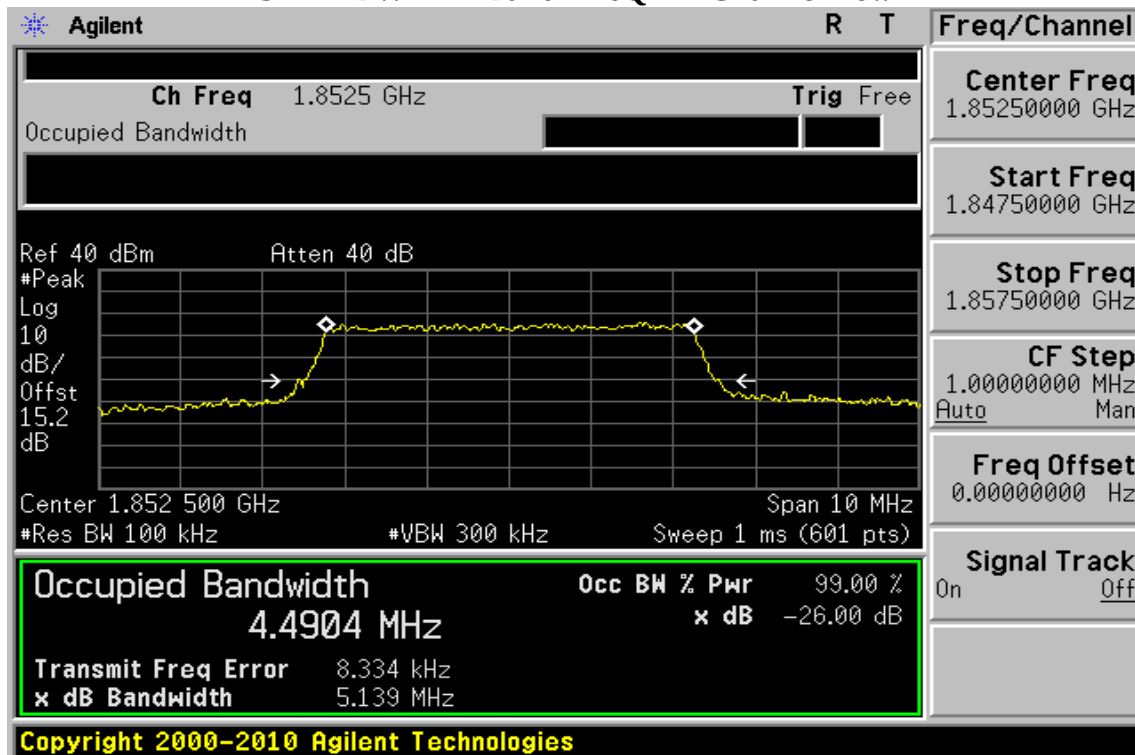
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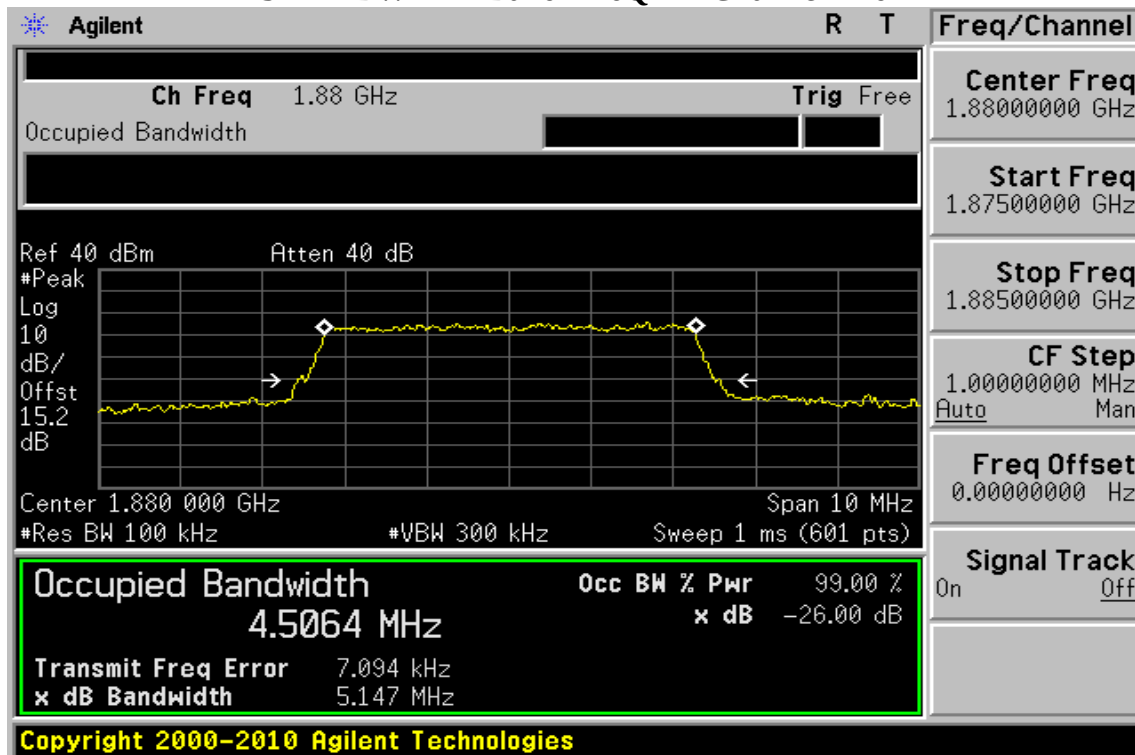
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5MHz BW LTE-Band 2 16QAM Channel Low



5MHz BW LTE-Band 2 16QAM Channel Mid



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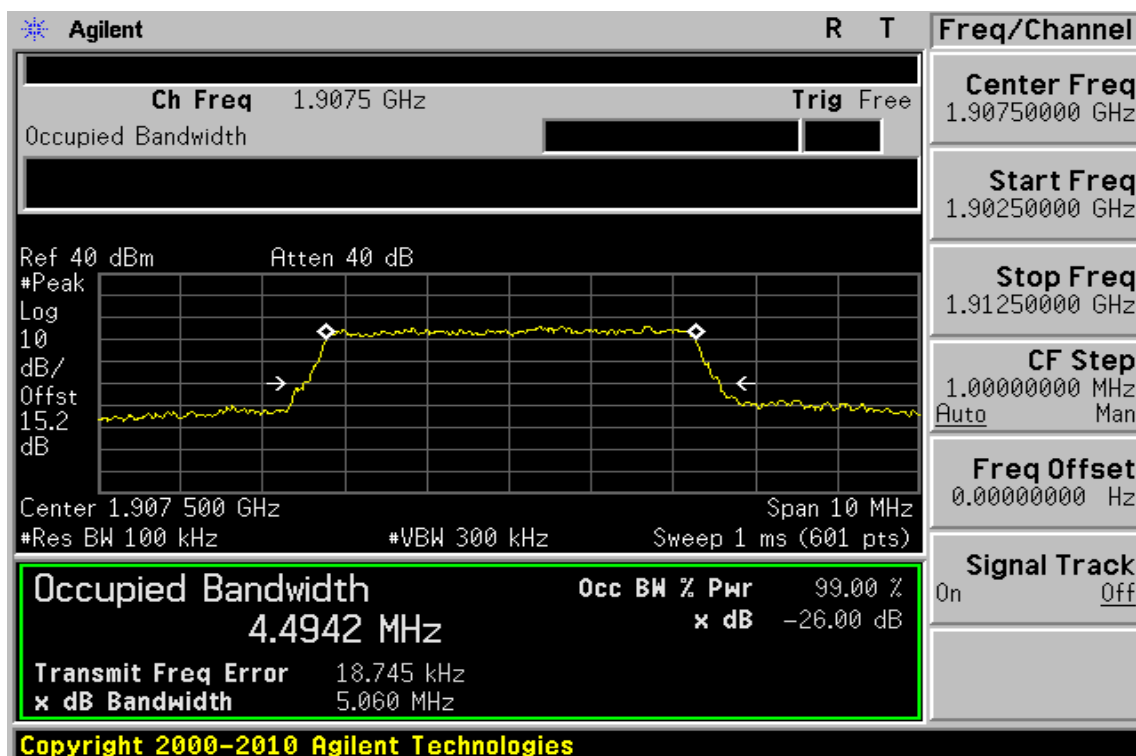
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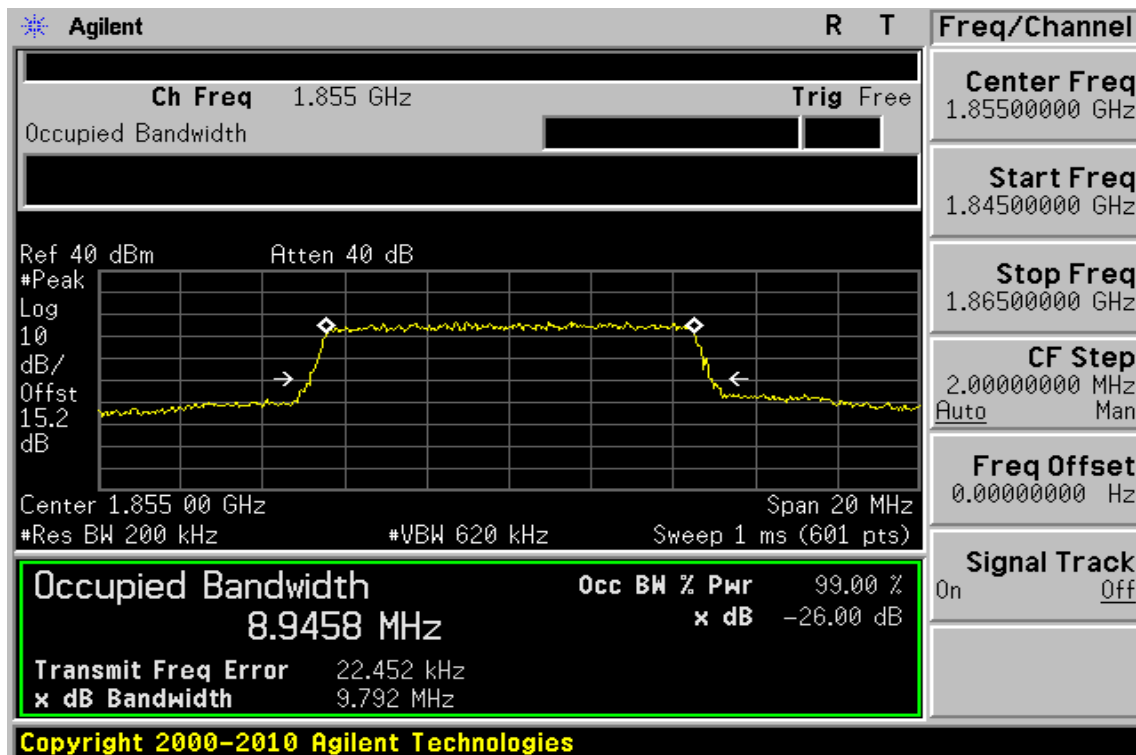
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5MHz BW LTE-Band 2 16QAM Channel High



10MHz BW LTE-Band 2 QPSK Channel Low



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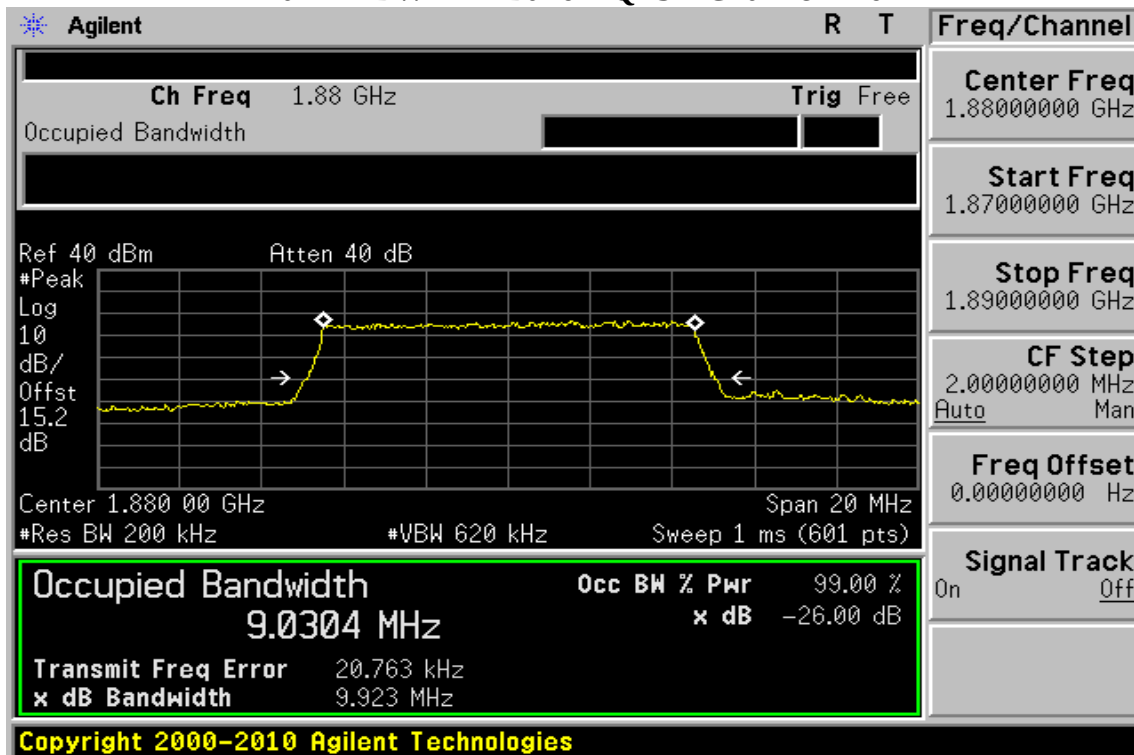
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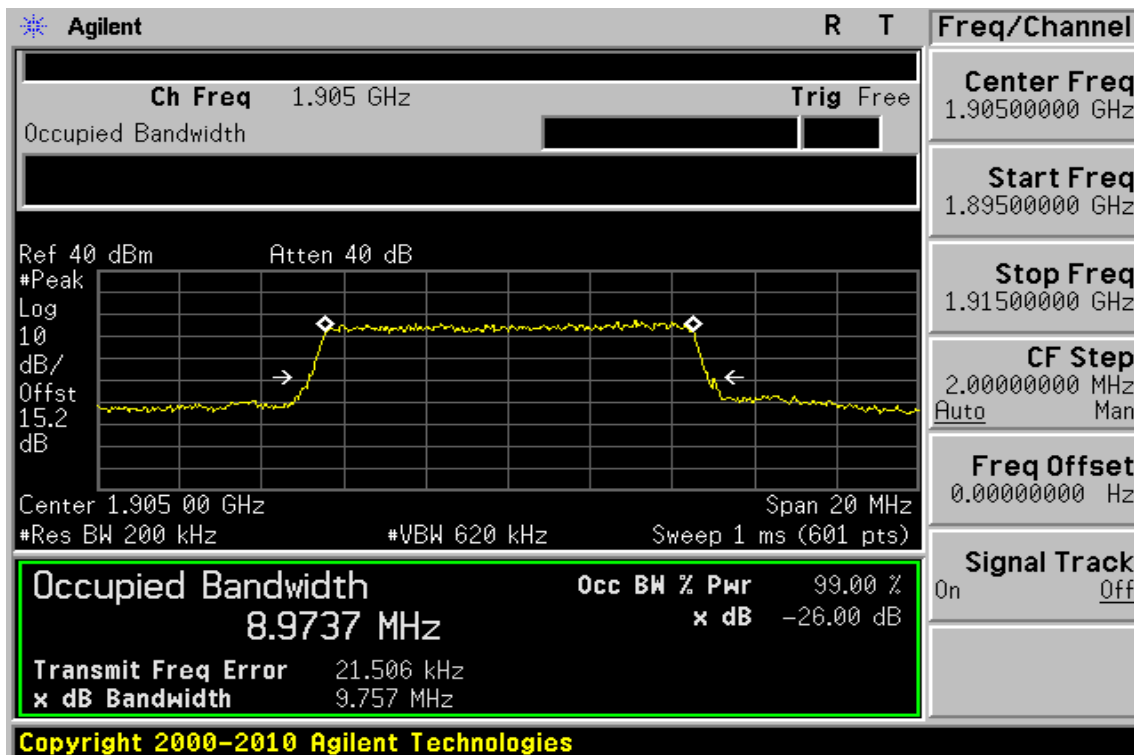
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10MHz BW LTE-Band 2 QPSK Channel Mid



10MHz BW LTE-Band 2 QPSK Channel High



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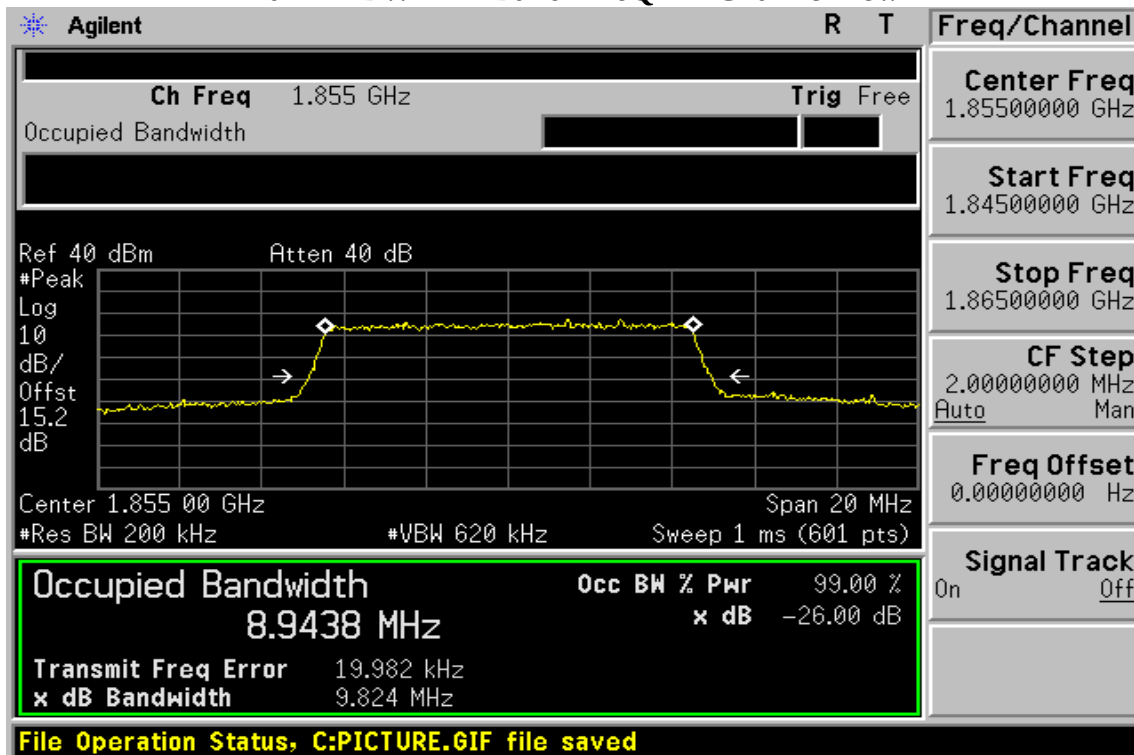
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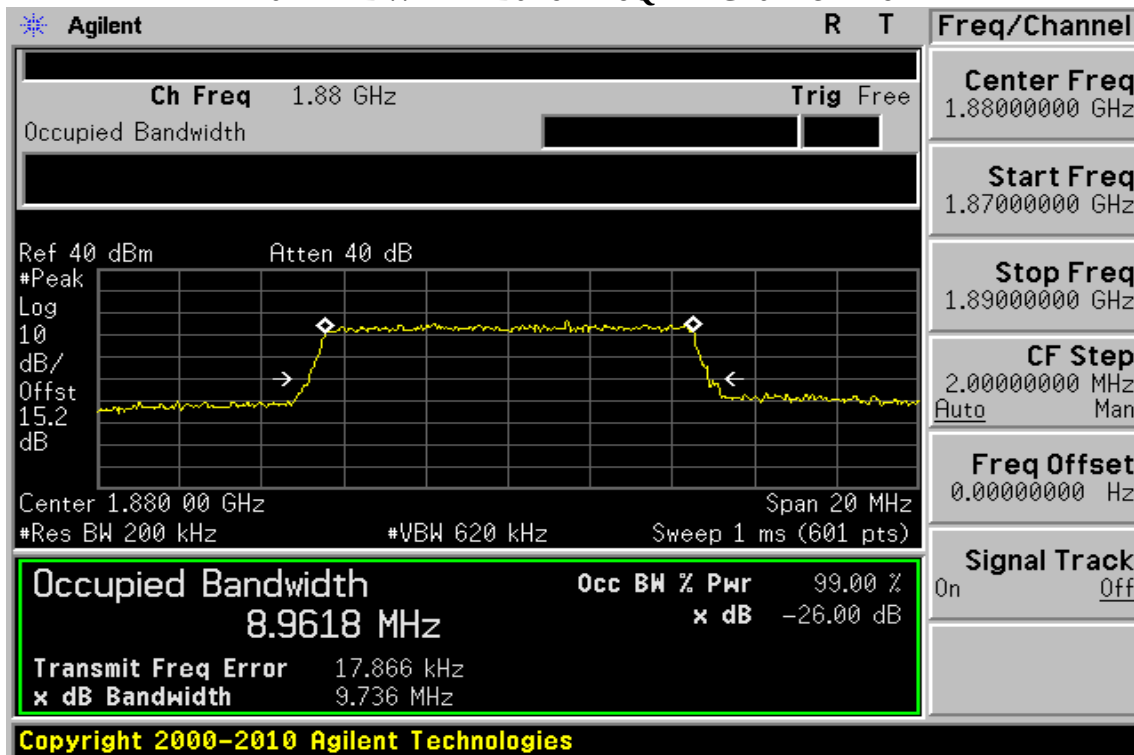
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10MHz BW LTE-Band 2 16QAM Channel Low



10MHz BW LTE-Band 2 16QAM Channel Mid



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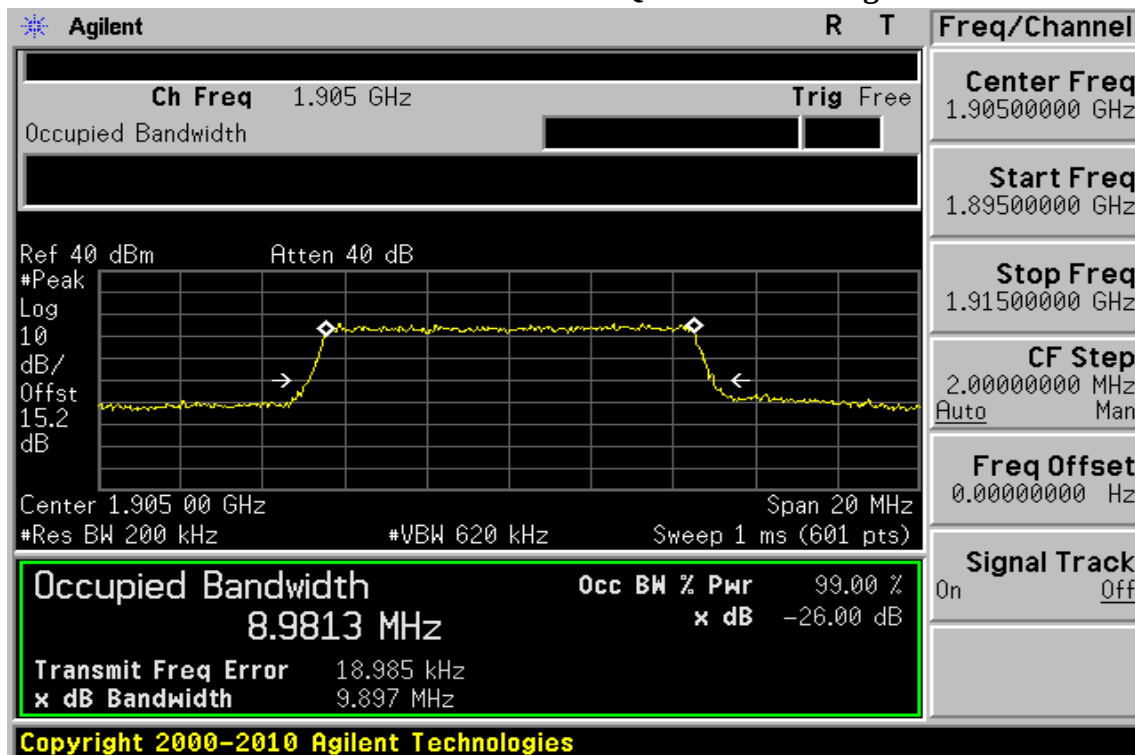
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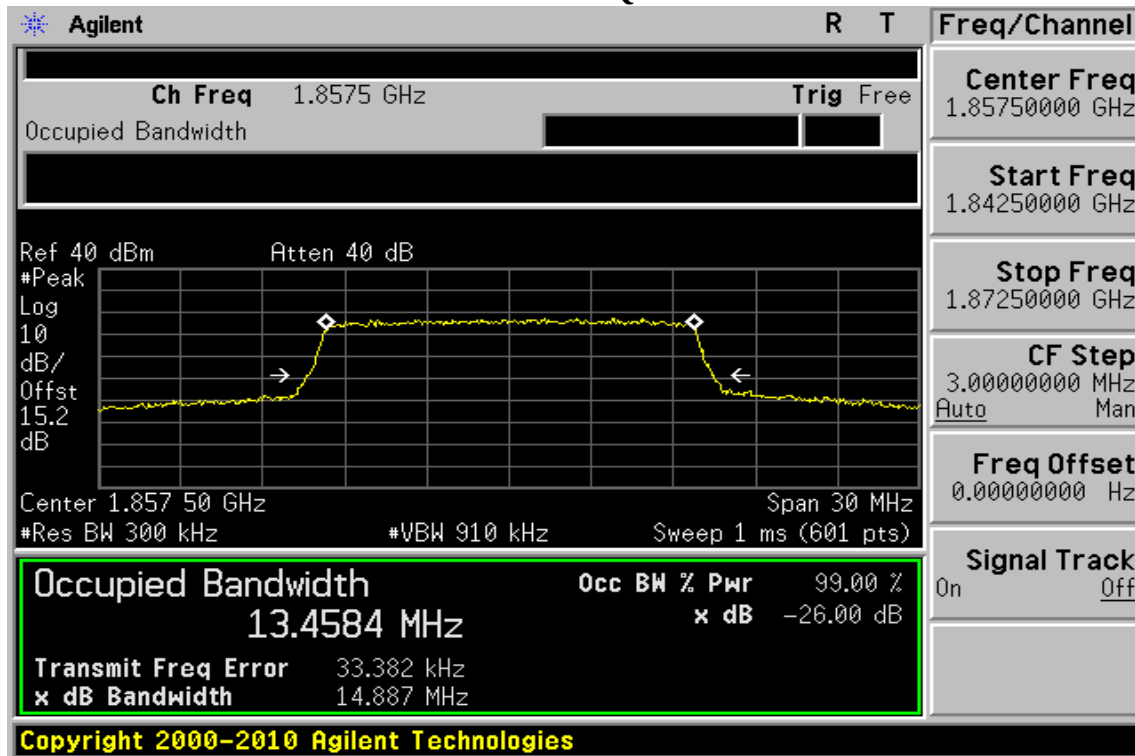
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10MHz BW LTE-Band 2 16QAM Channel High



15MHz BW LTE-Band 2 QPSK Channel Low



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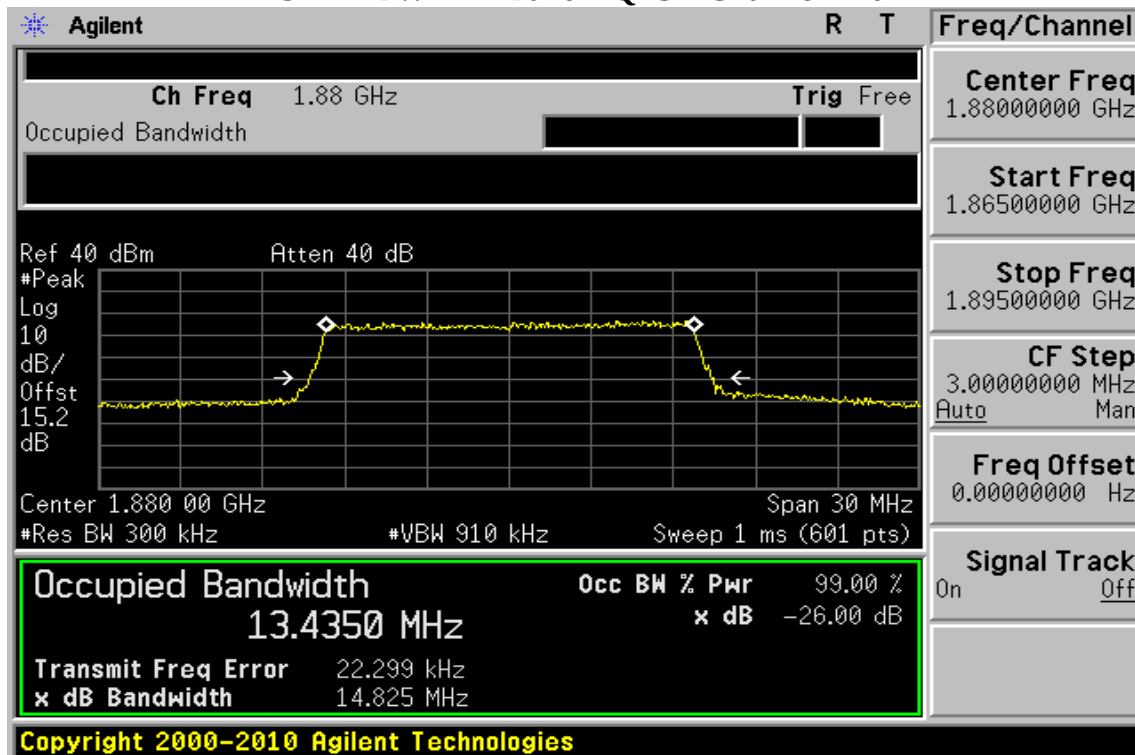
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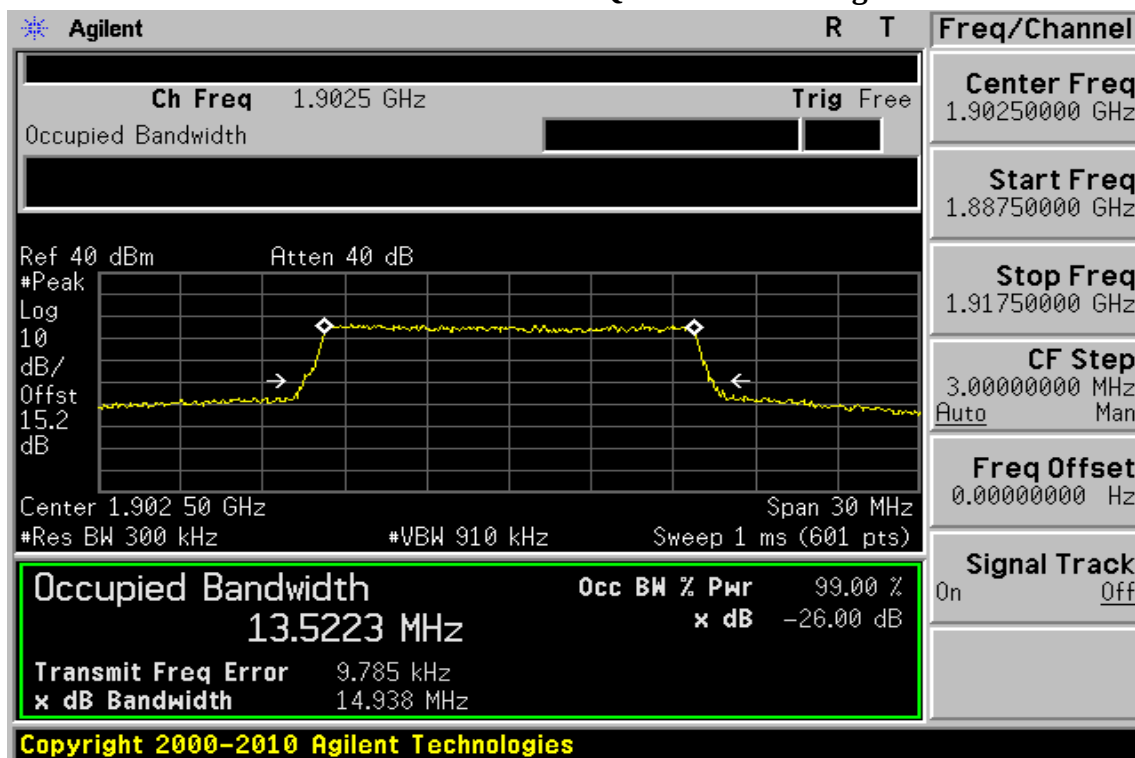
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15MHz BW LTE-Band 2 QPSK Channel Mid



15MHz BW LTE-Band 2 QPSK Channel High



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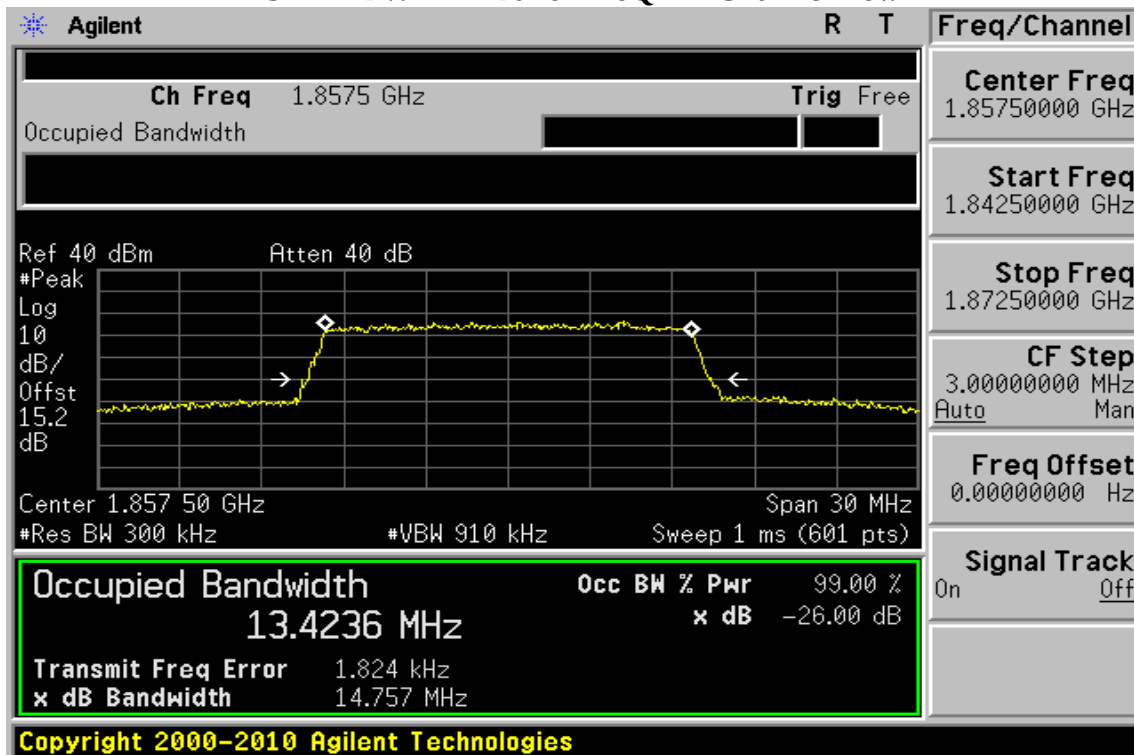
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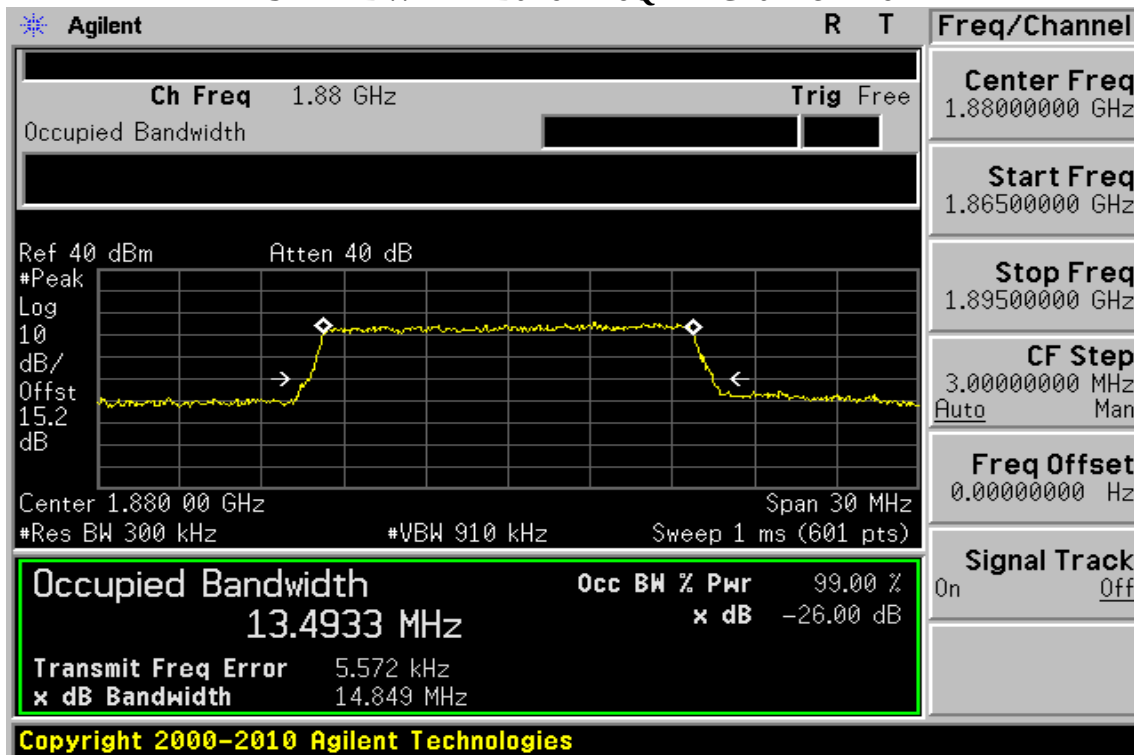
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15MHz BW LTE-Band 2 16QAM Channel Low



15MHz BW LTE-Band 2 16QAM Channel Mid



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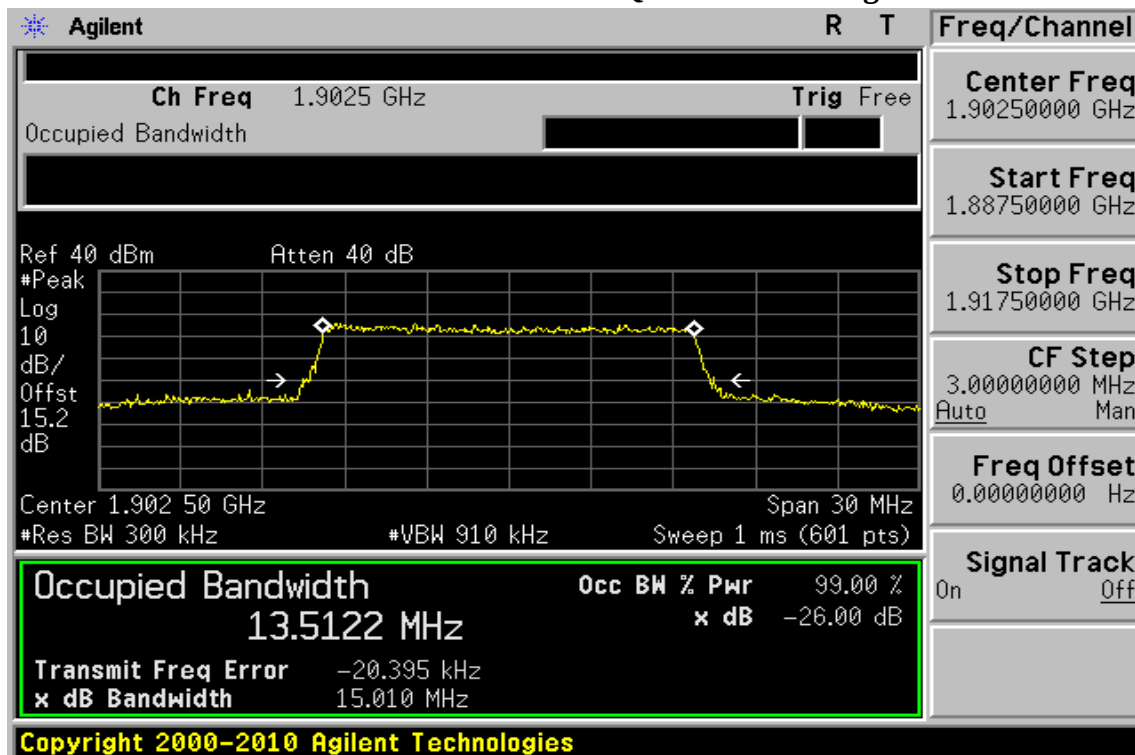
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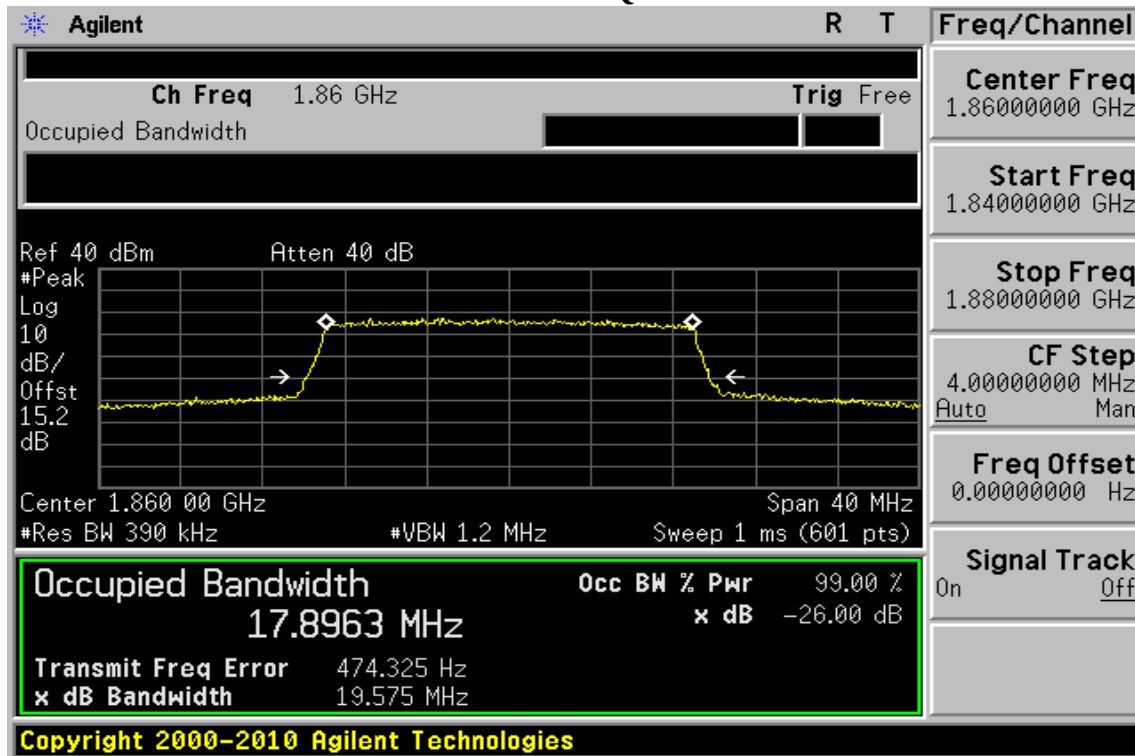
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15MHz BW LTE-Band 2 16QAM Channel High



20MHz BW LTE-Band 2 QPSK Channel Low



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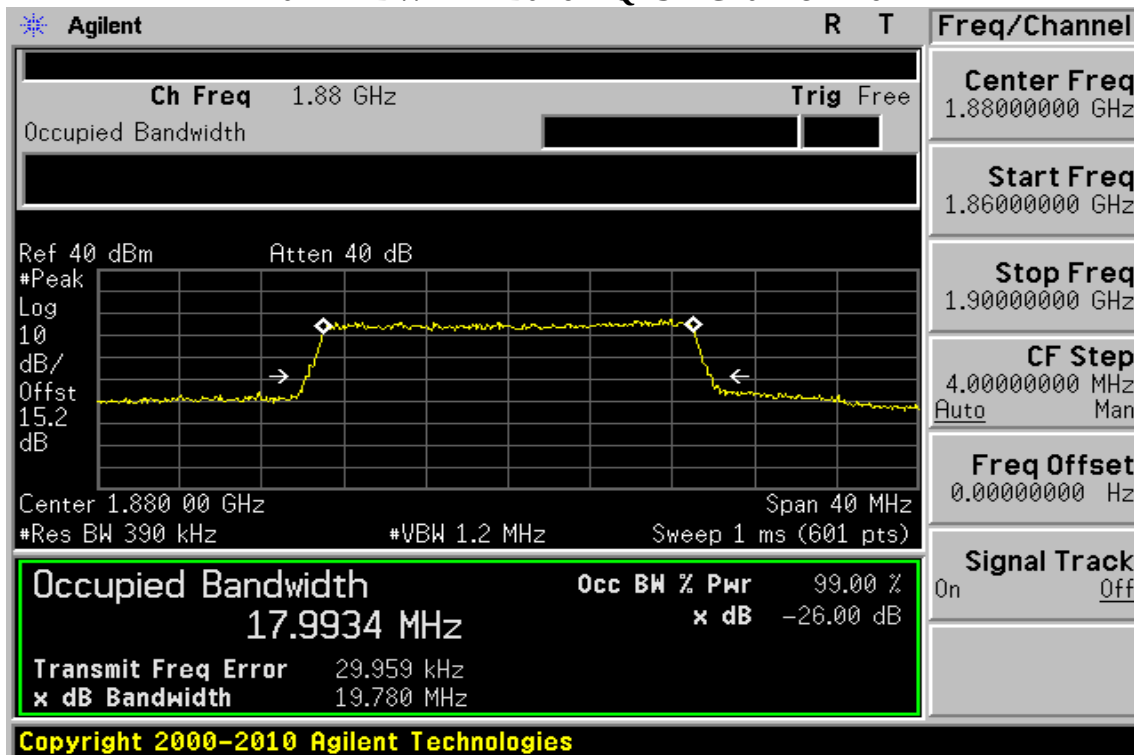
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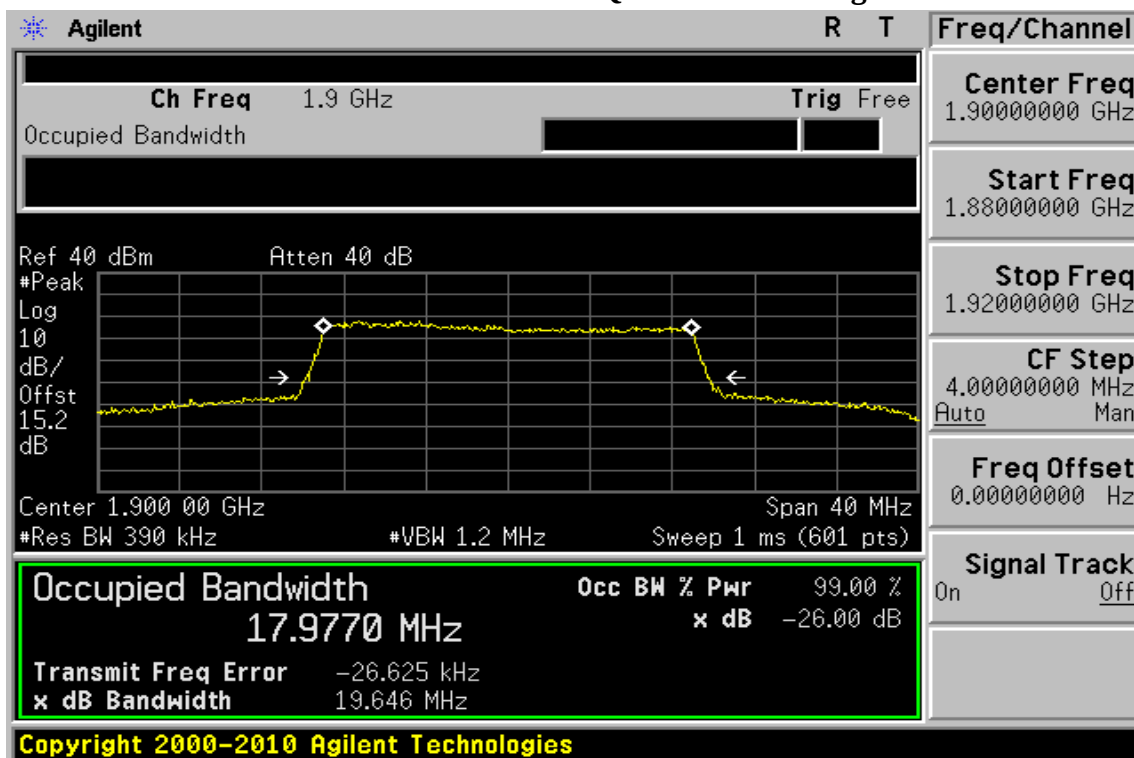
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20MHz BW LTE-Band 2 QPSK Channel Mid



20MHz BW LTE-Band 2 QPSK Channel High



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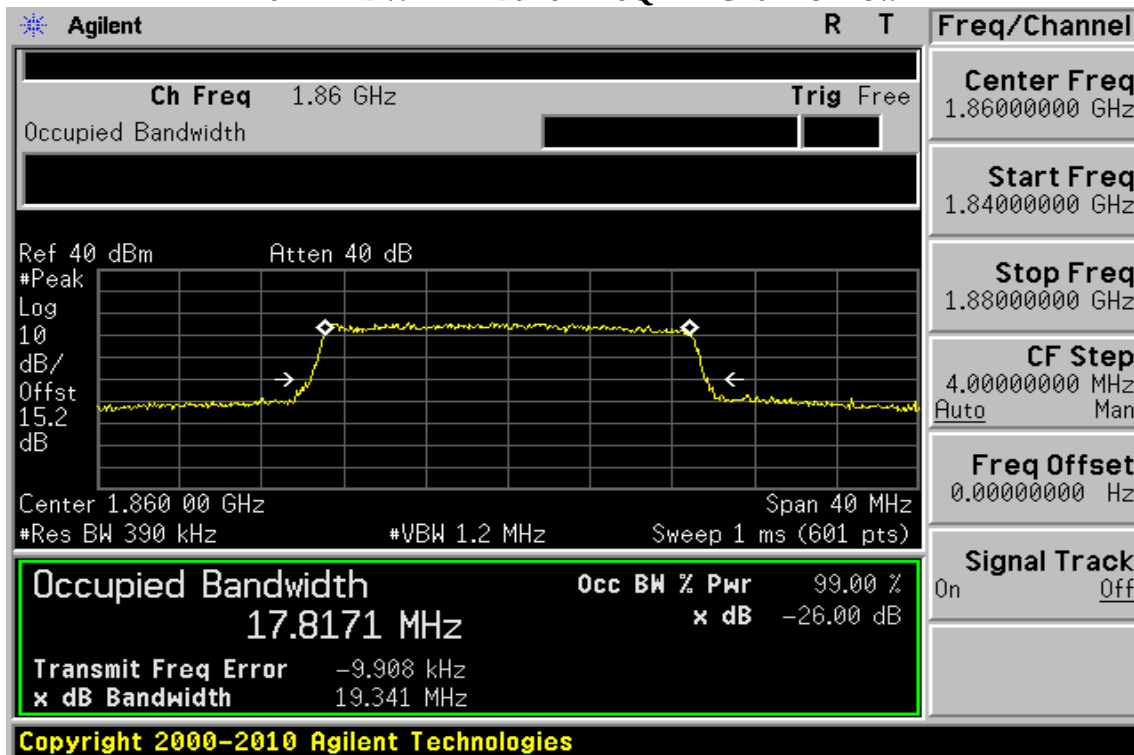
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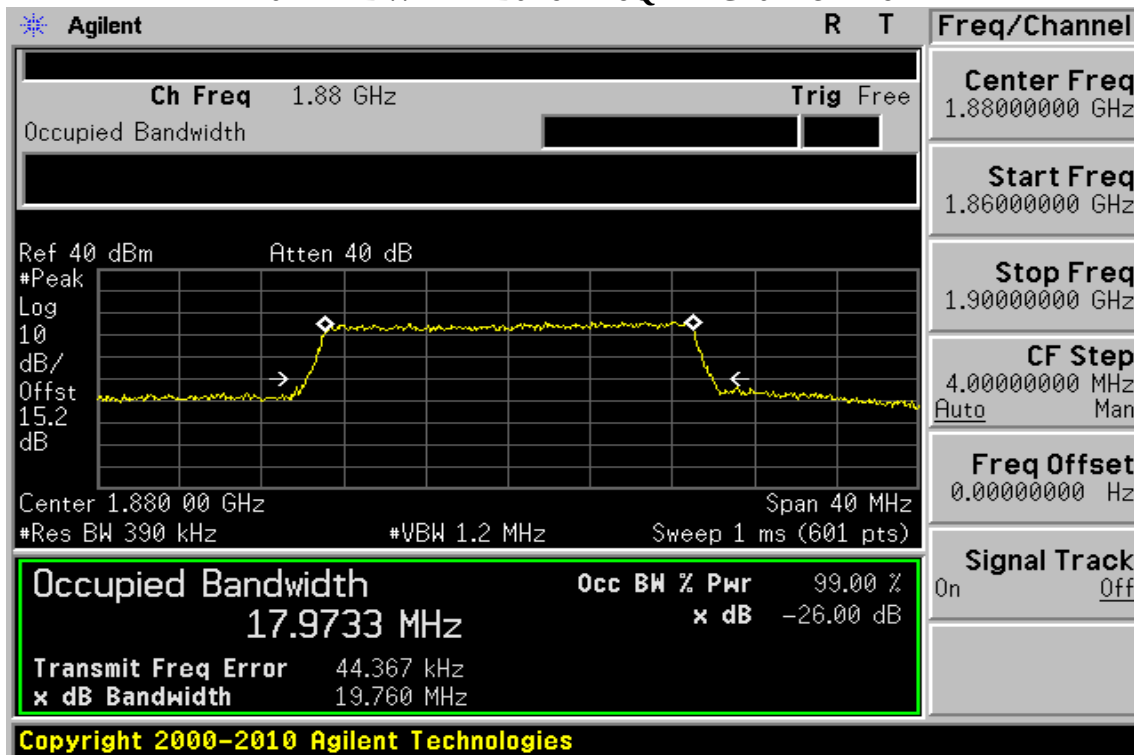
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20MHz BW LTE-Band 2 16QAM Channel Low



20MHz BW LTE-Band 2 16QAM Channel Mid



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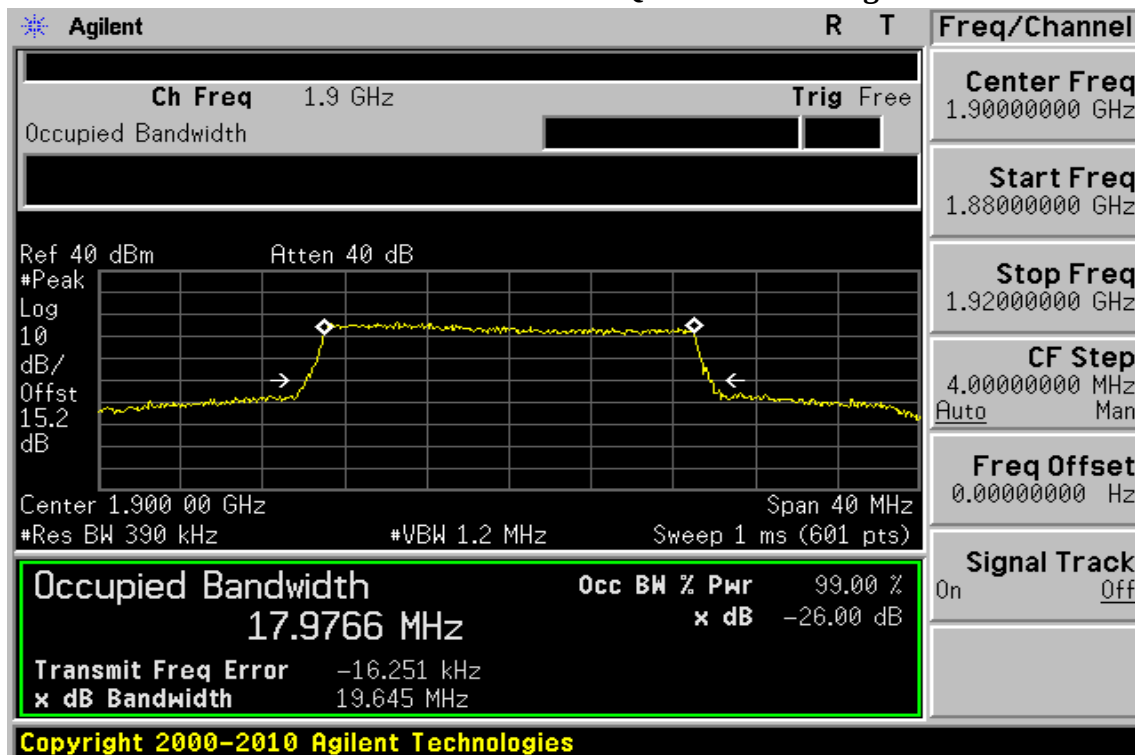
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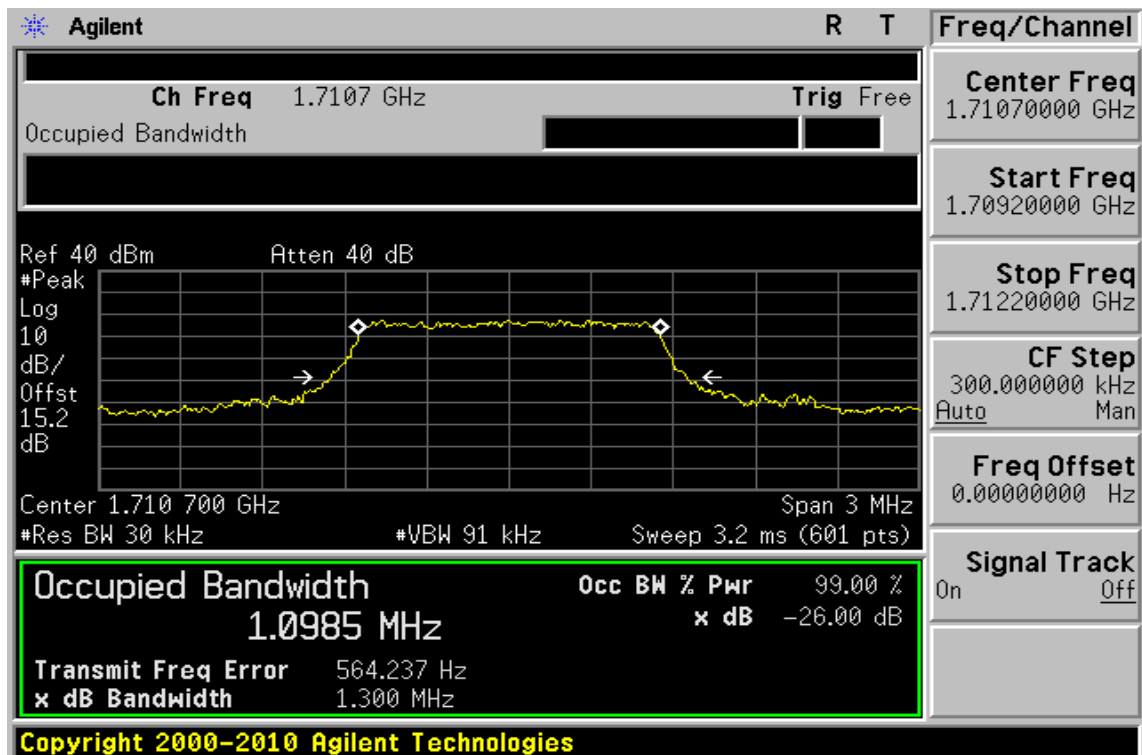
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20MHz BW LTE-Band 2 16QAM Channel High



1.4MHz BW LTE-Band 4 QPSK Channel Low



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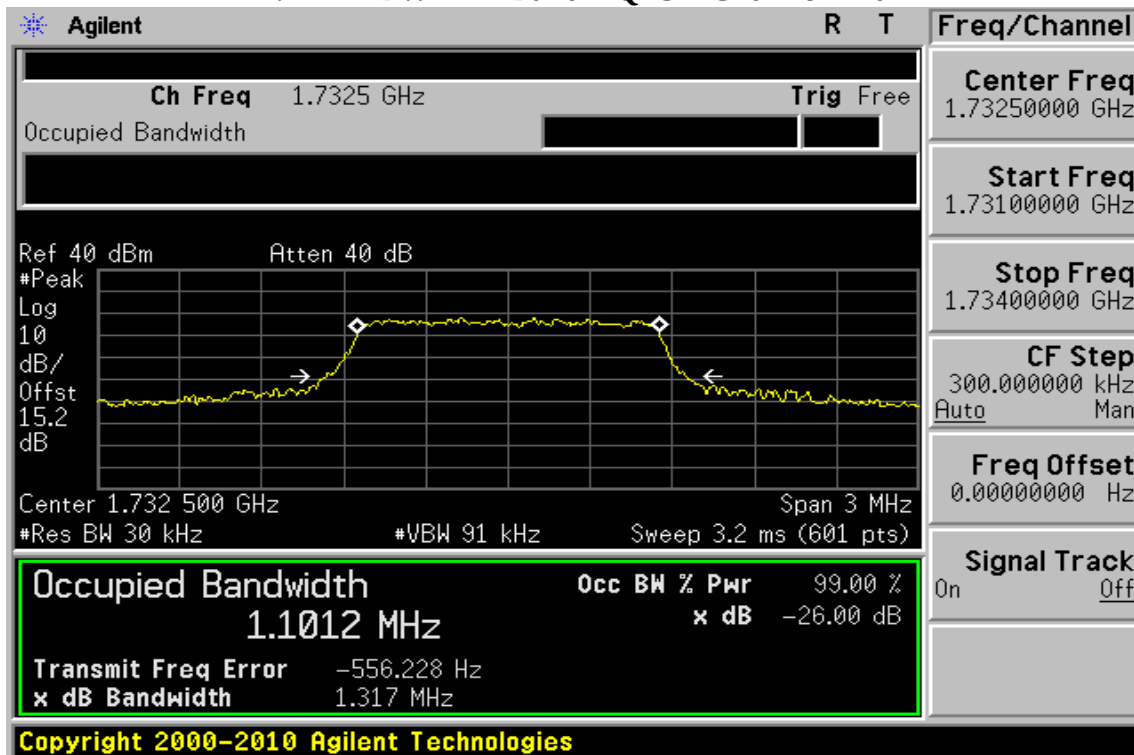
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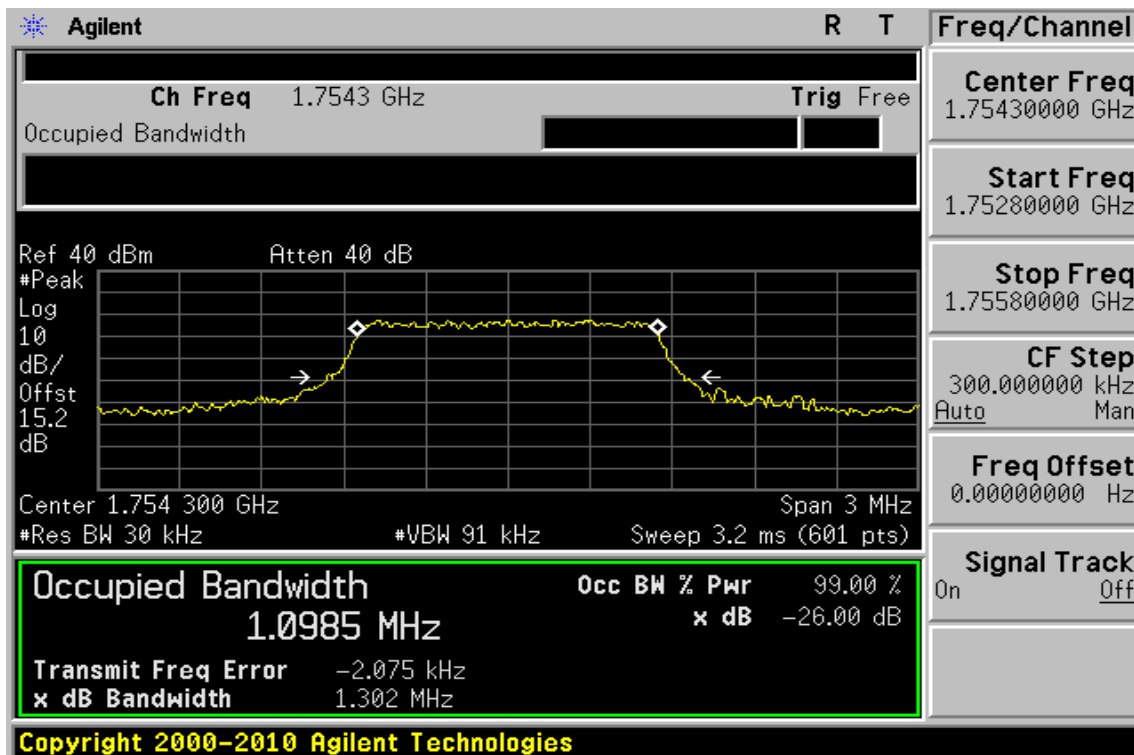
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1.4MHz BW LTE-Band 4 QPSK Channel Mid



1.4MHz BW LTE-Band 4 QPSK Channel High



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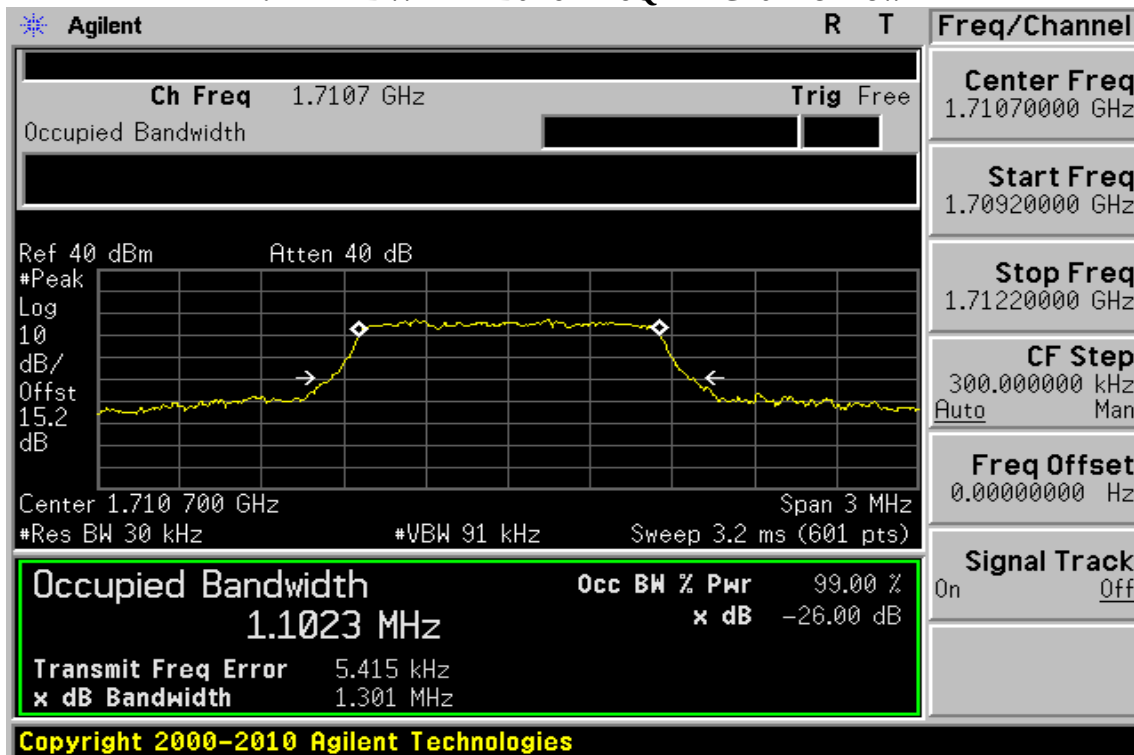
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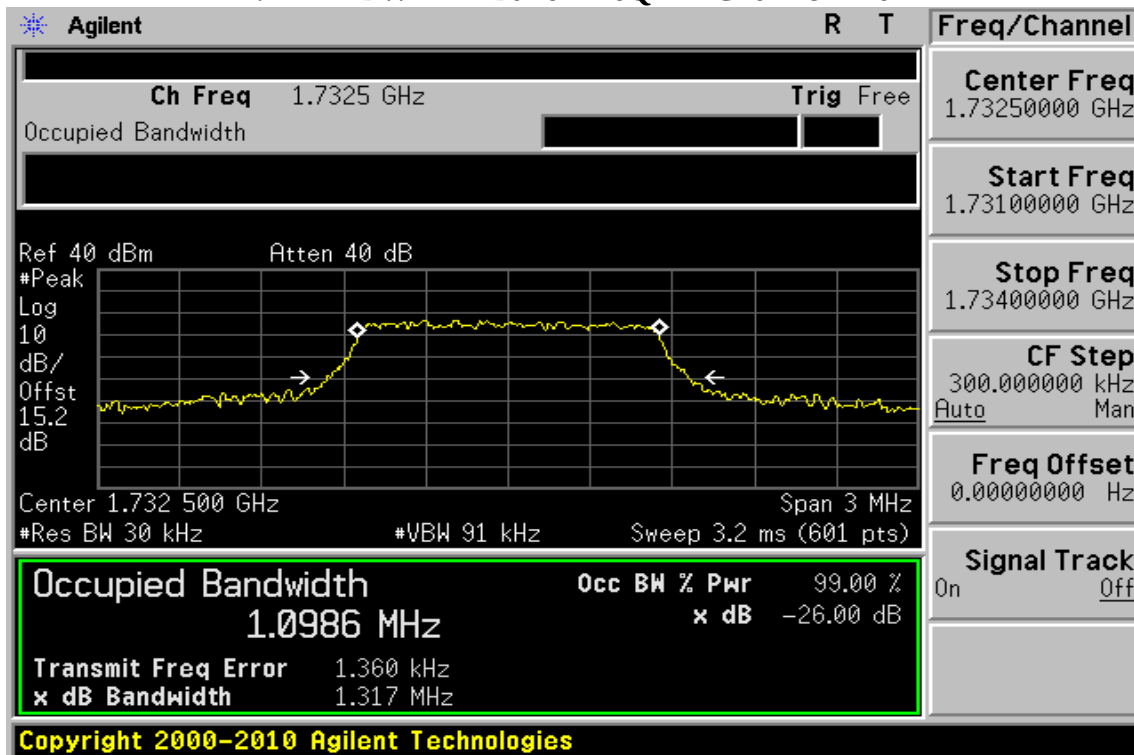
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1.4MHz BW LTE-Band 4 16QAM Channel Low



.4MHz BW LTE-Band 4 16QAM Channel Mid



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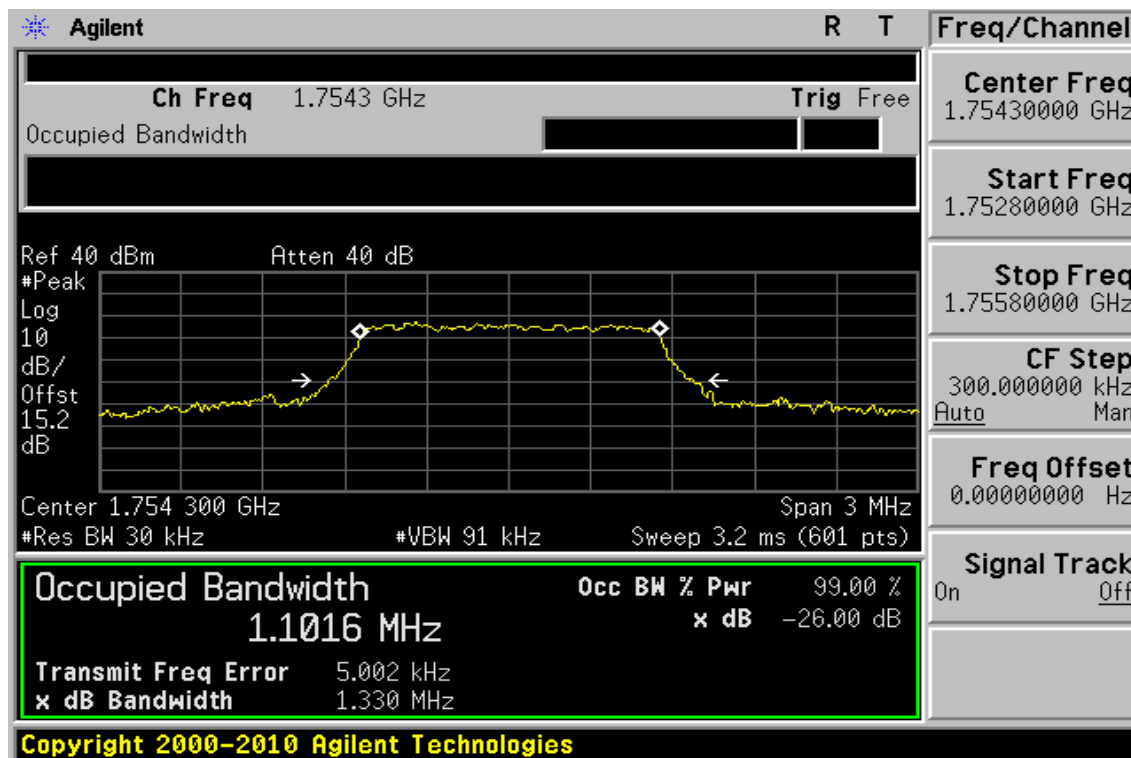
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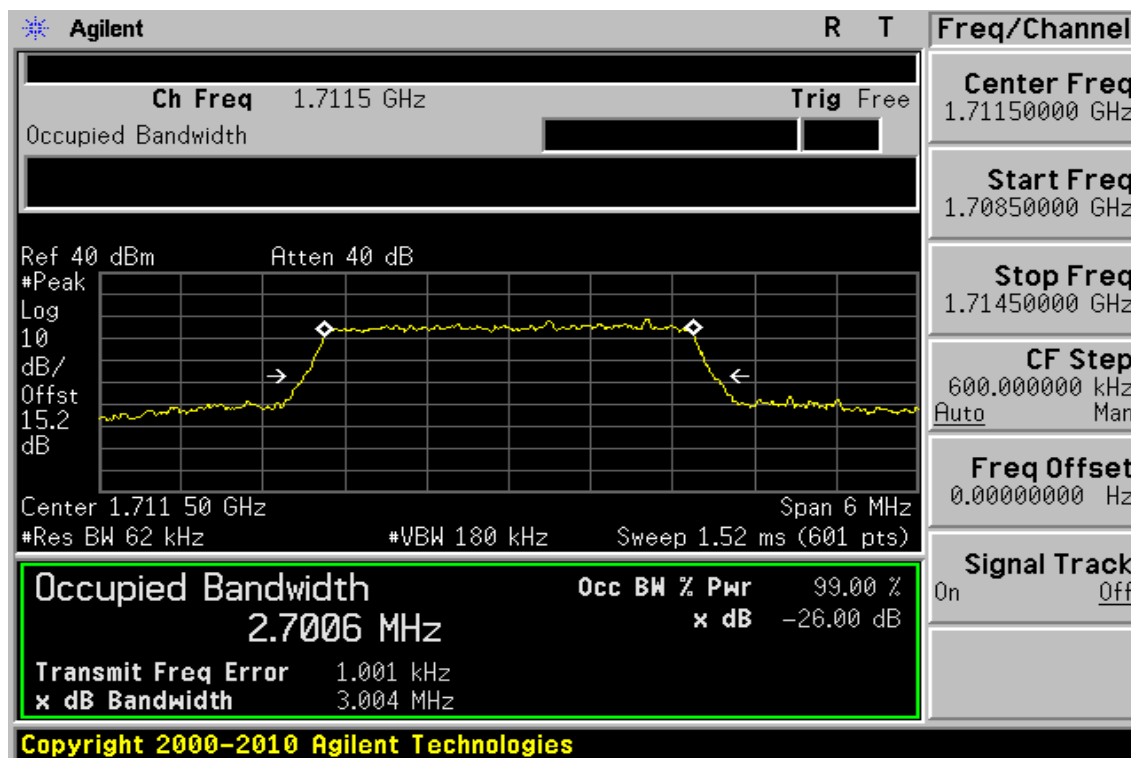
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1.4MHz BW LTE-Band 4 16QAM Channel High



3MHz BW LTE-Band 4 QPSK Channel Low



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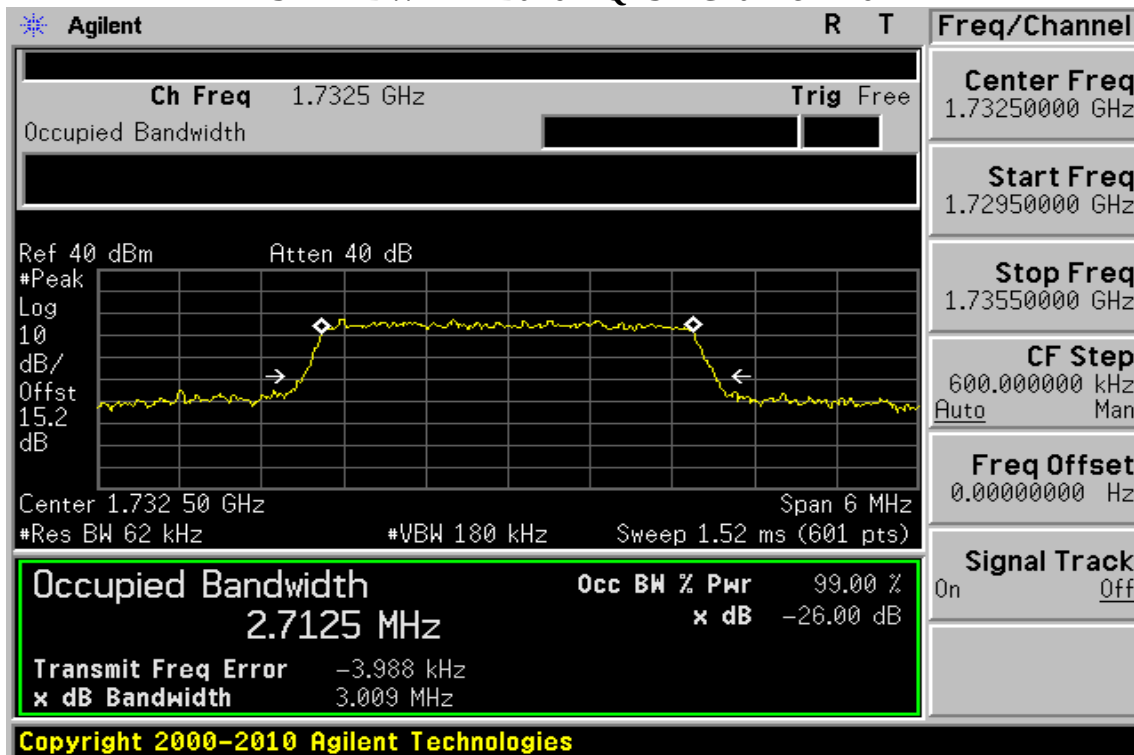
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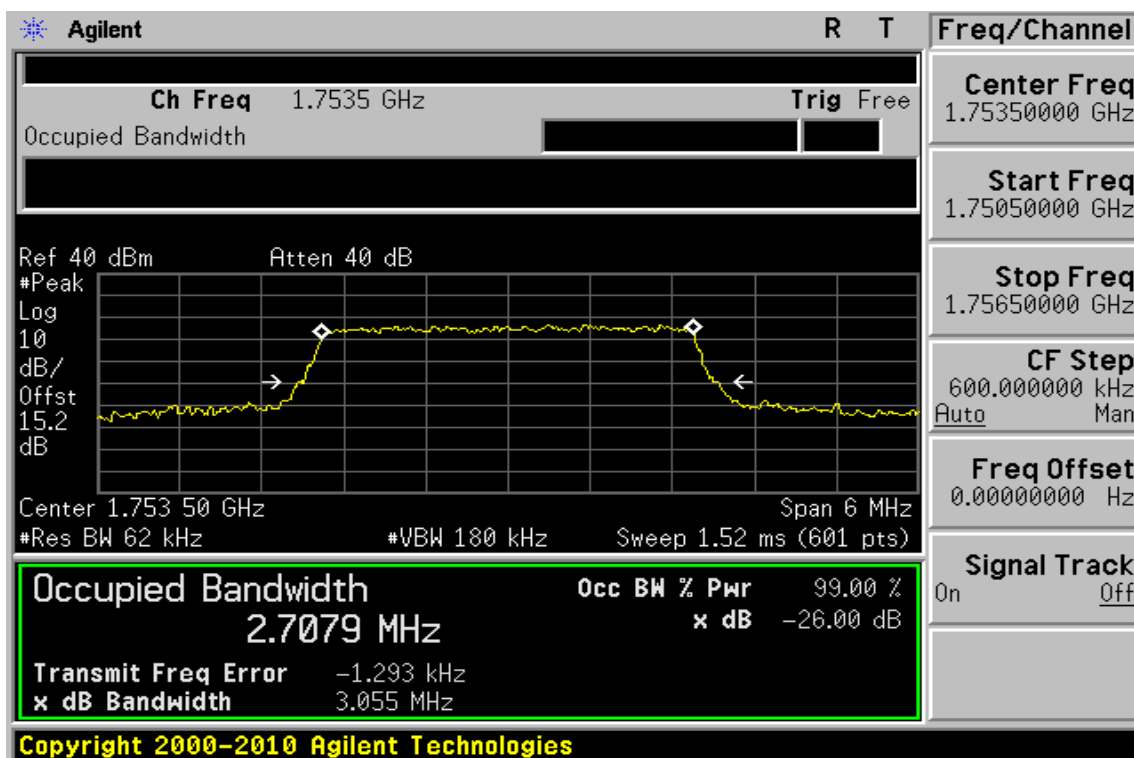
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3MHz BW LTE-Band 4 QPSK Channel Mid



3MHz BW LTE-Band 4 QPSK Channel High



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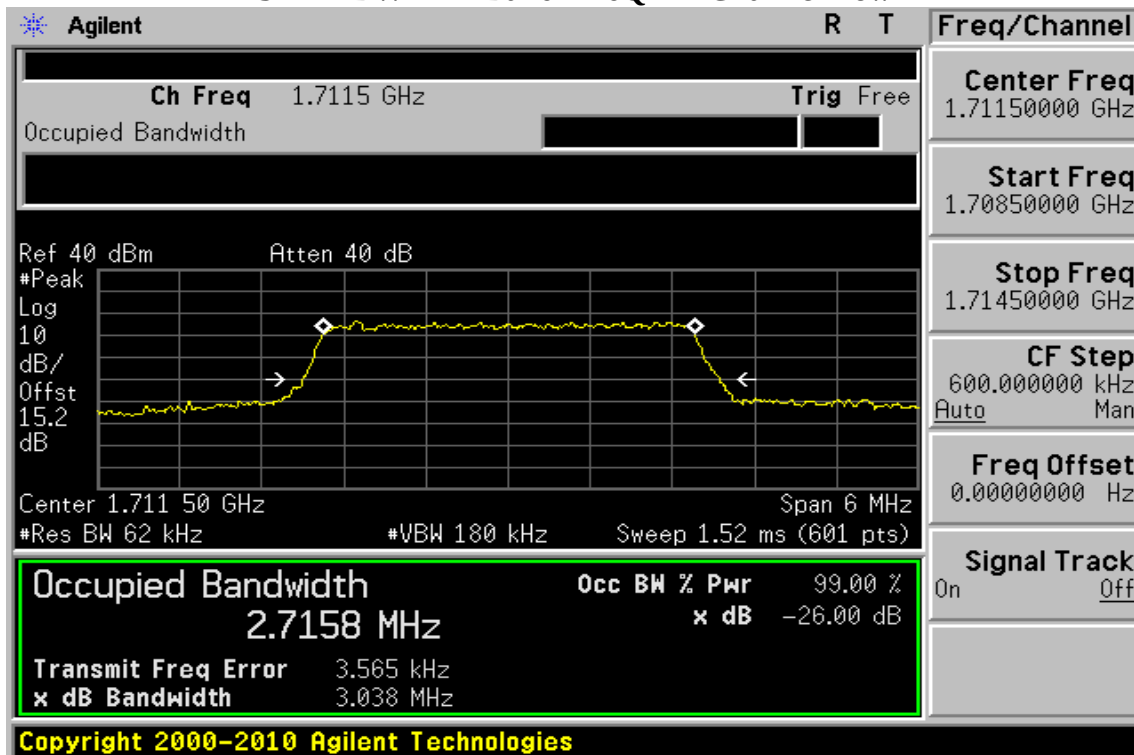
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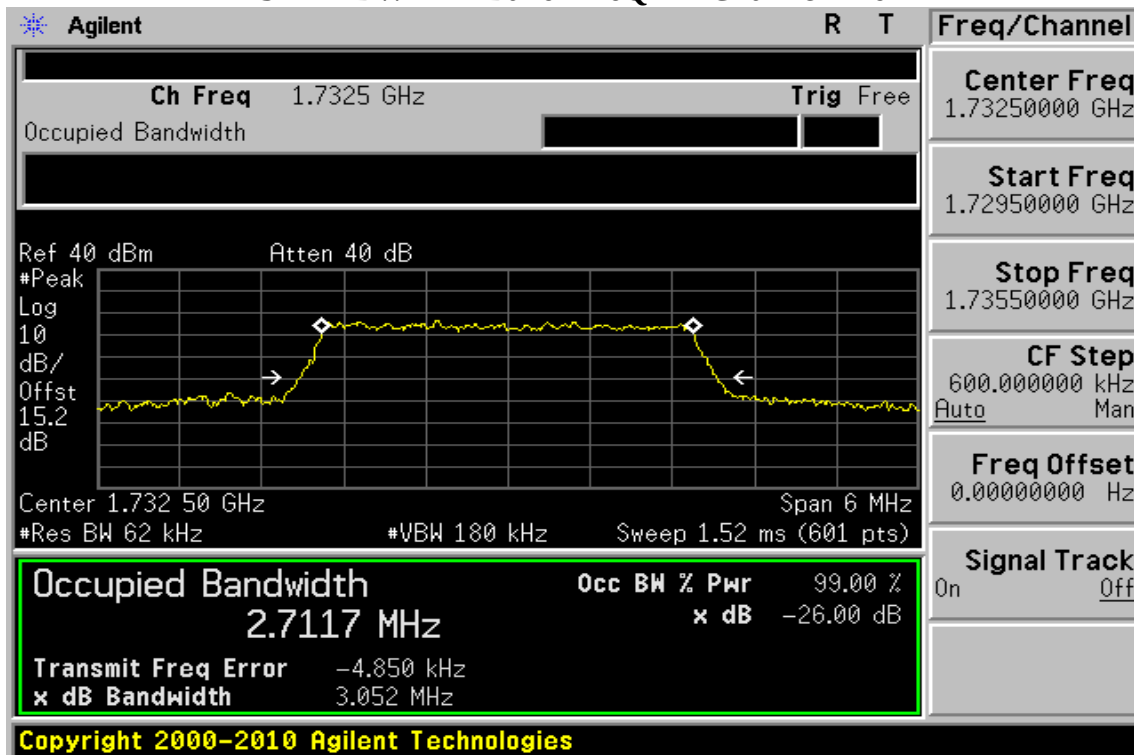
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3MHz BW LTE-Band 4 16QAM Channel Low



3MHz BW LTE-Band 4 16QAM Channel Mid



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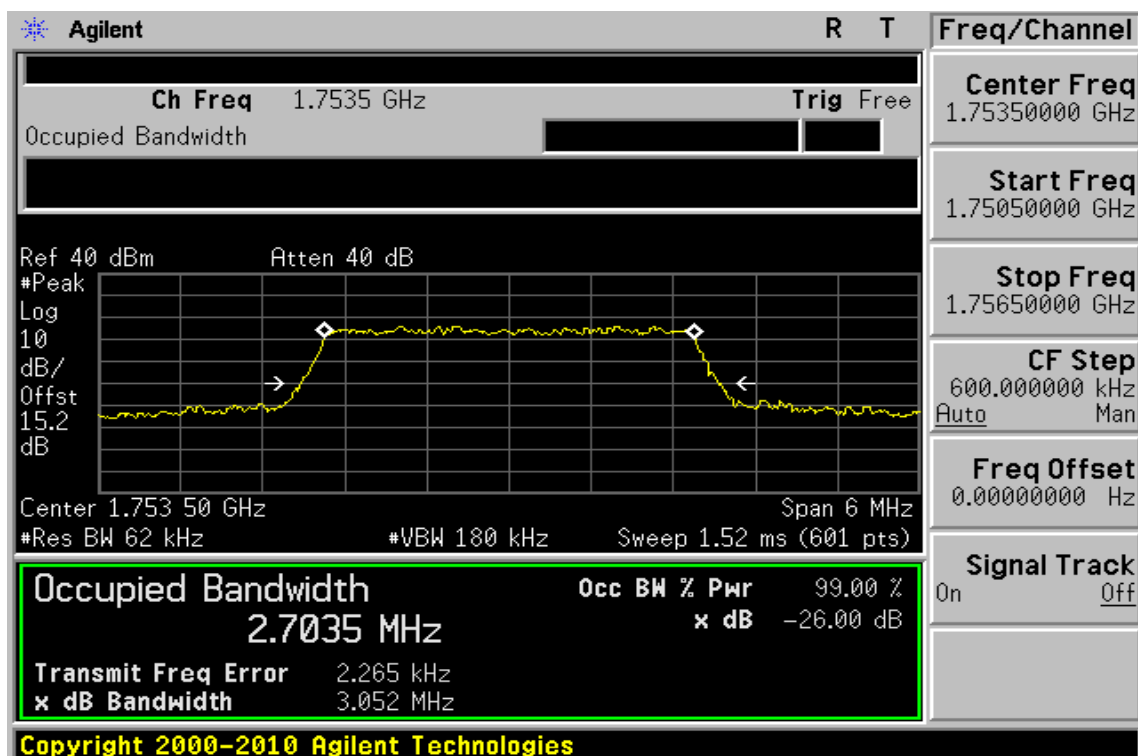
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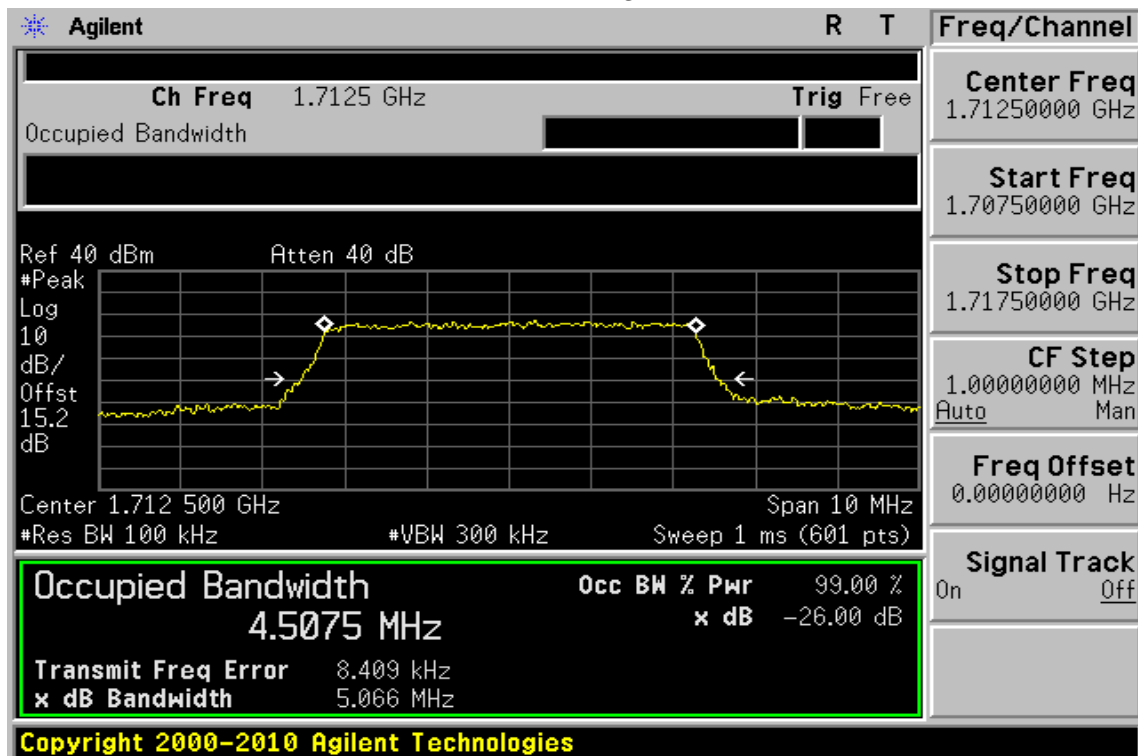
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3MHz BW LTE-Band 4 16QAM Channel High



5MHz BW LTE-Band 4 QPSK Channel Low



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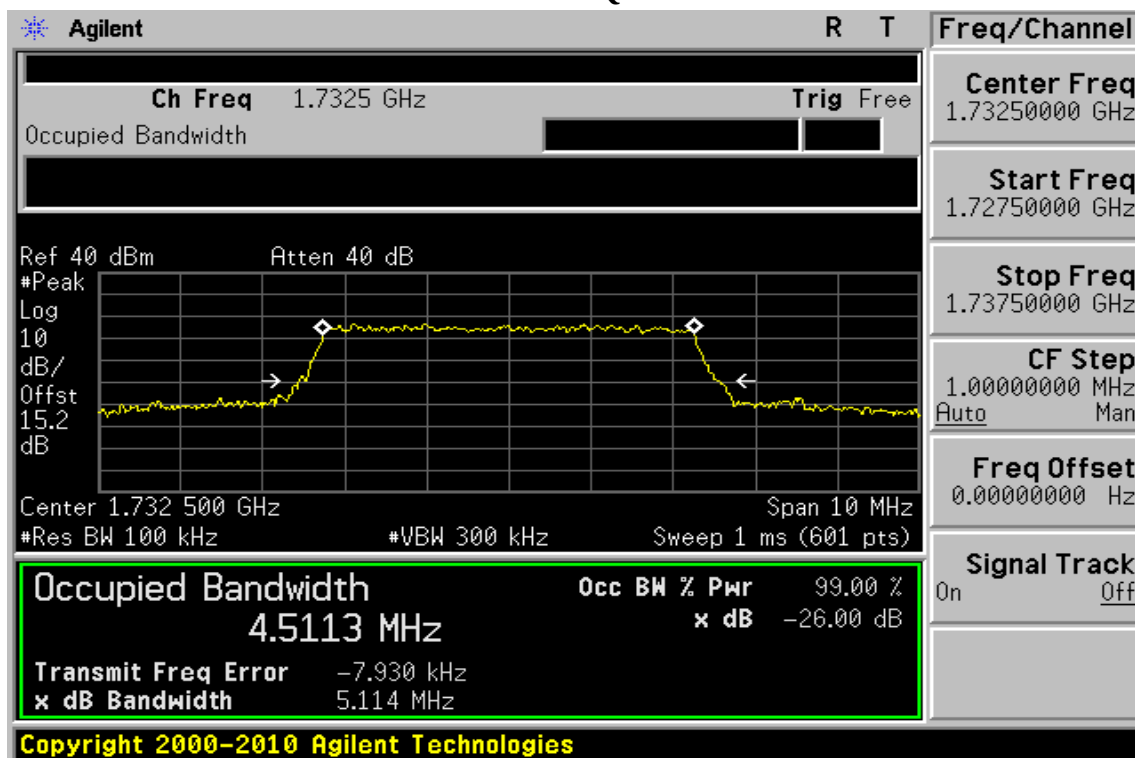
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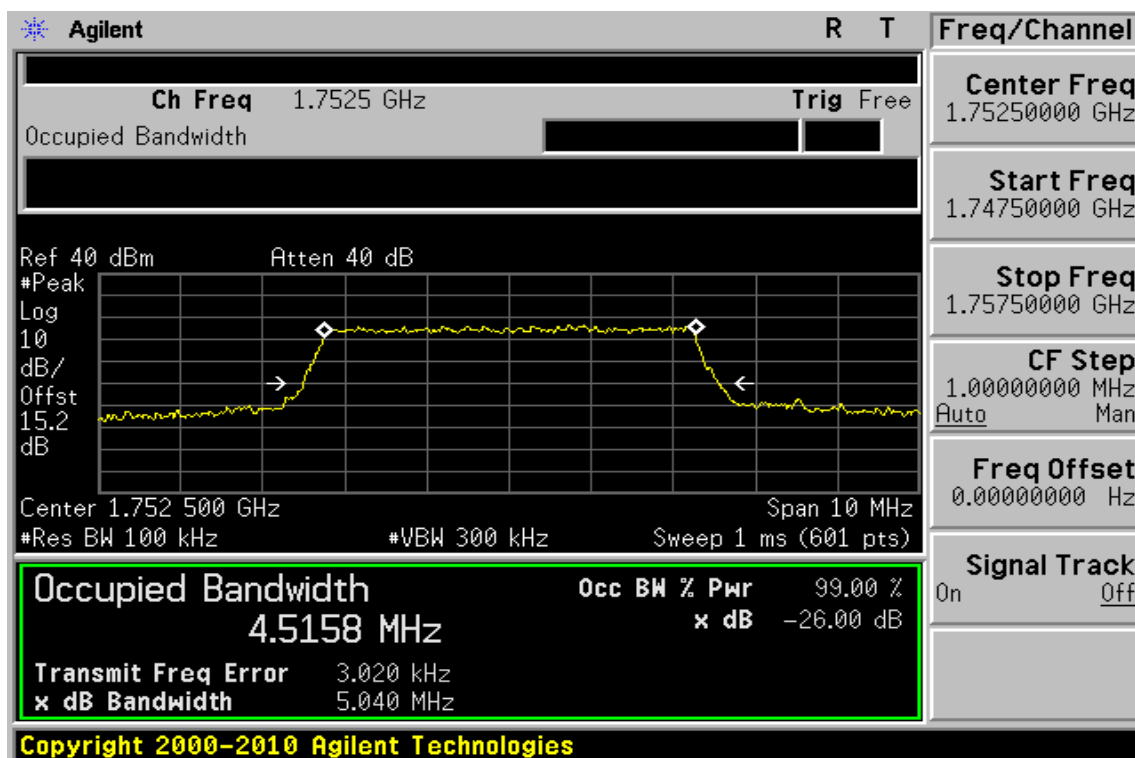
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5MHz BW LTE-Band 4 QPSK Channel Mid



5MHz BW LTE-Band 4 QPSK Channel High



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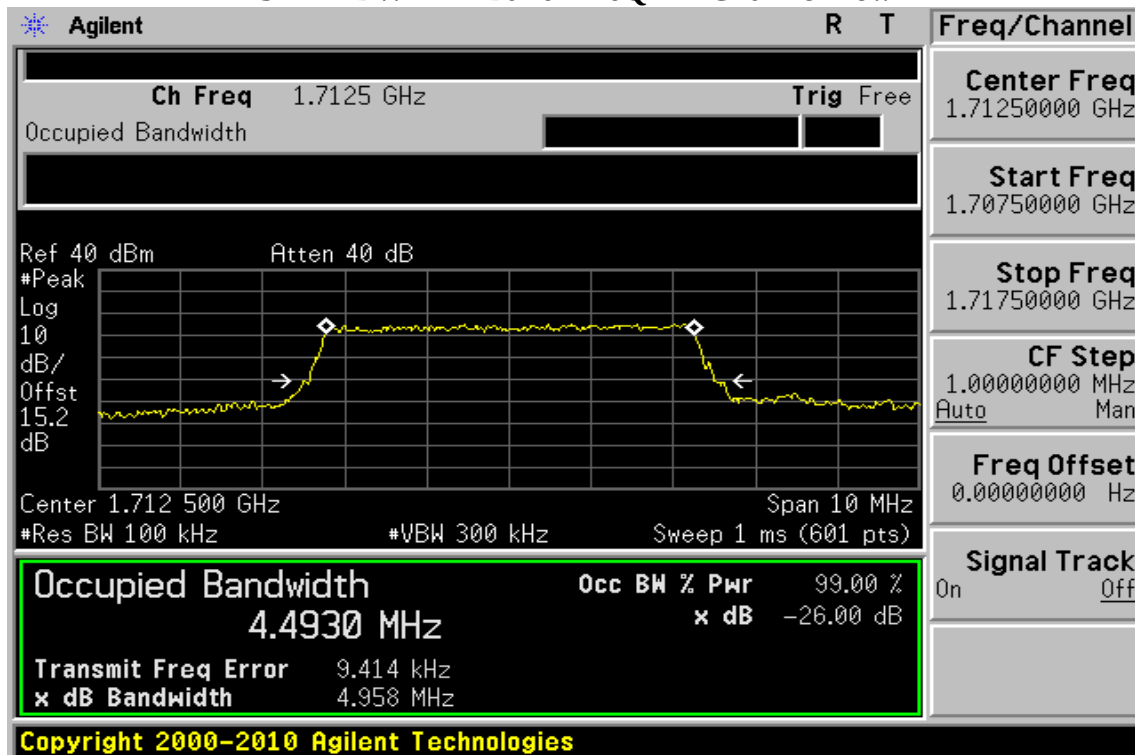
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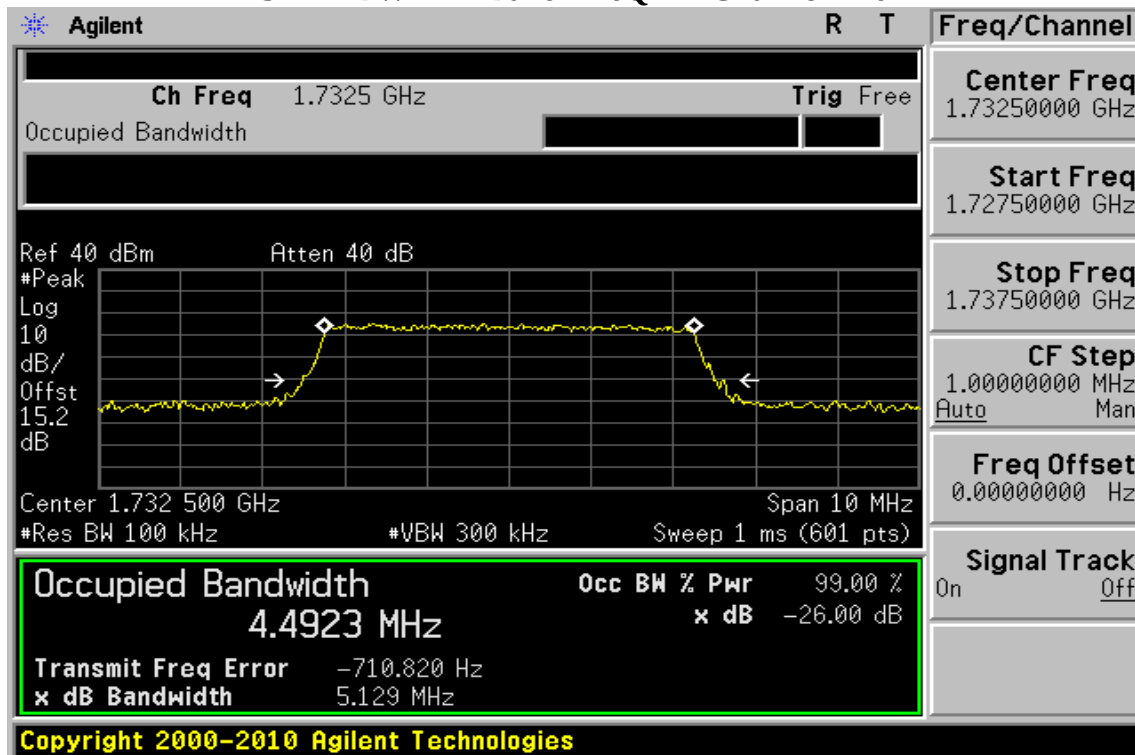
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5MHz BW LTE-Band 4 16QAM Channel Low



5MHz BW LTE-Band 4 16QAM Channel Mid



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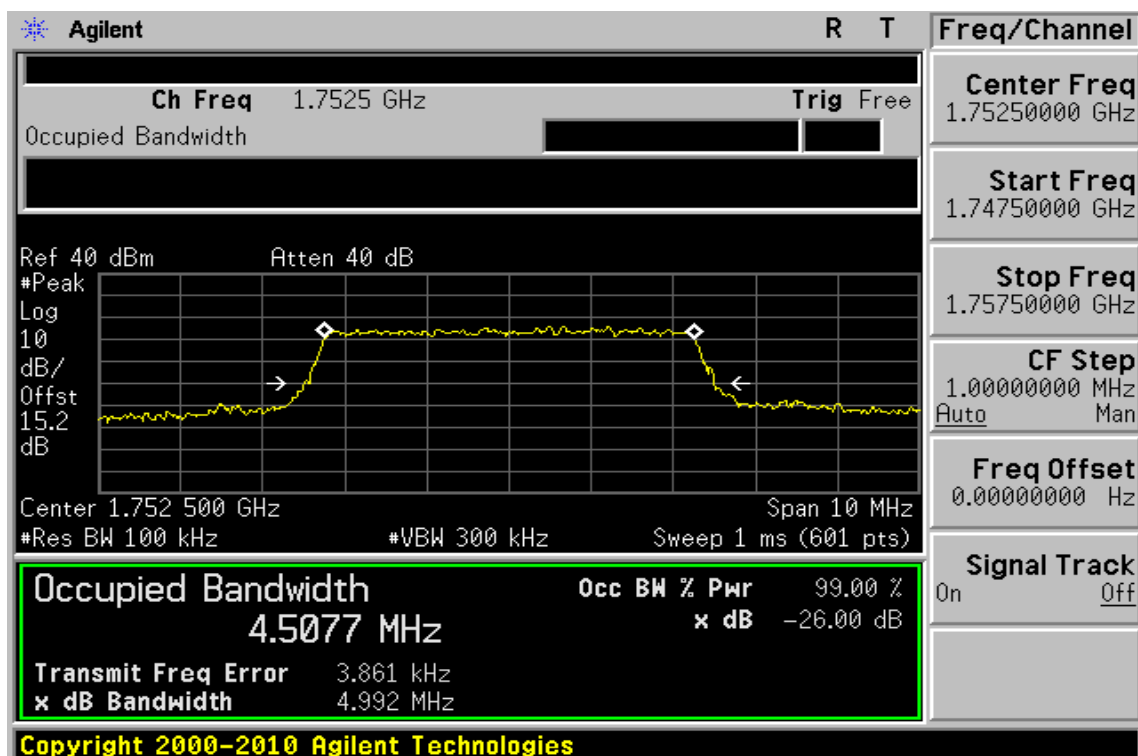
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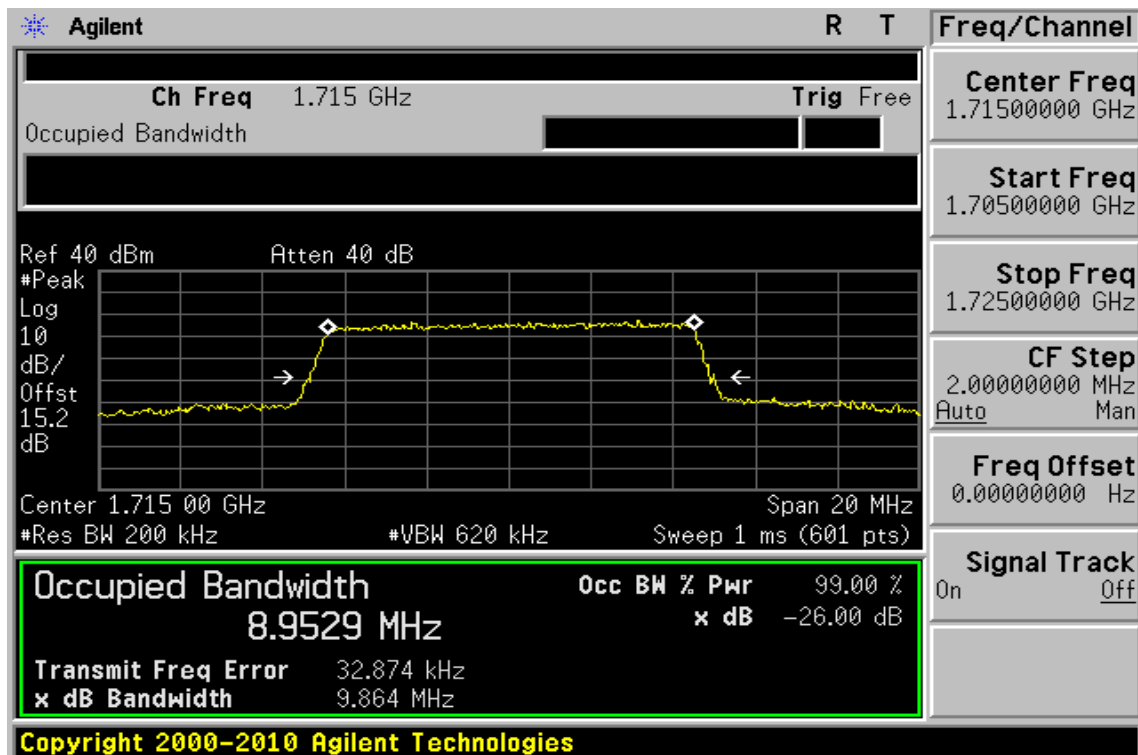
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5MHz BW LTE-Band 4 16QAM Channel High



10MHz BW LTE-Band 4 QPSK Channel Low



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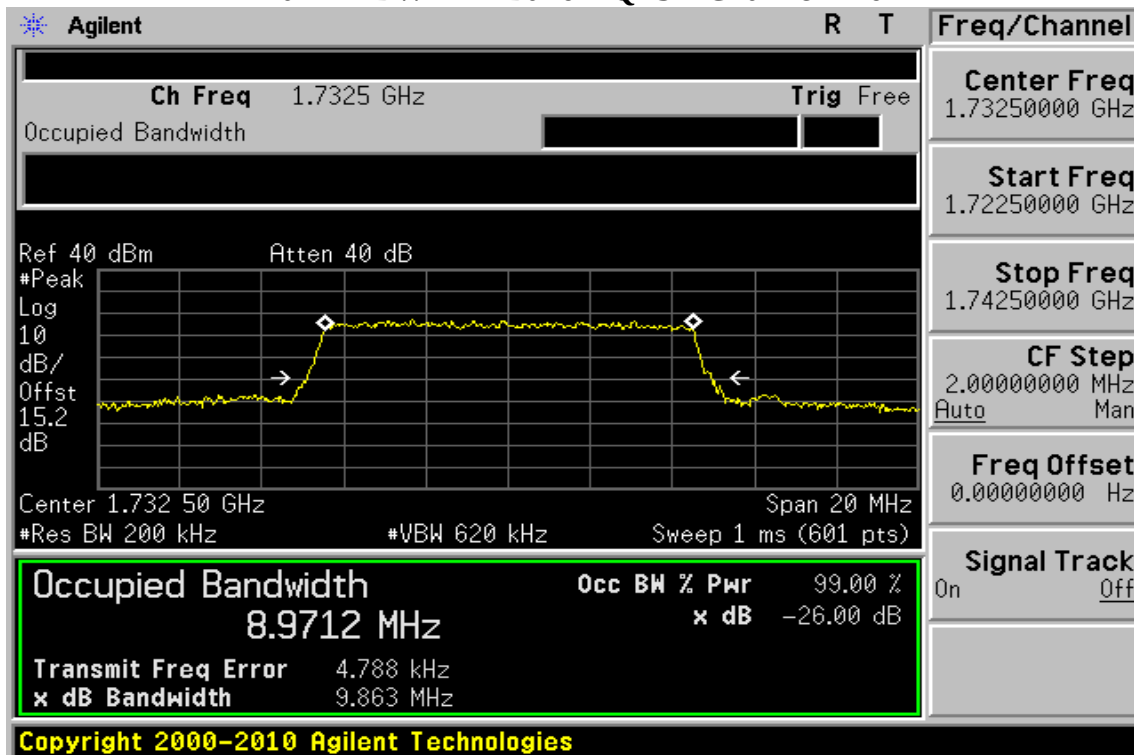
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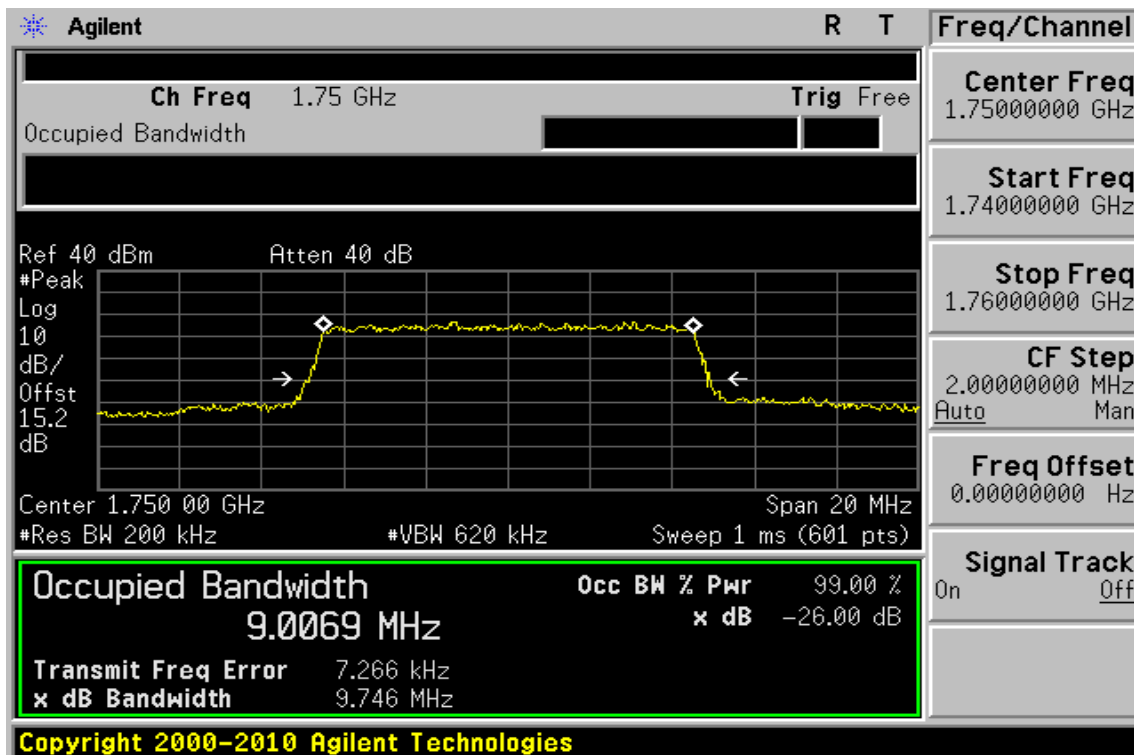
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10MHz BW LTE-Band 4 QPSK Channel Mid



10MHz BW LTE-Band 4 QPSK Channel High



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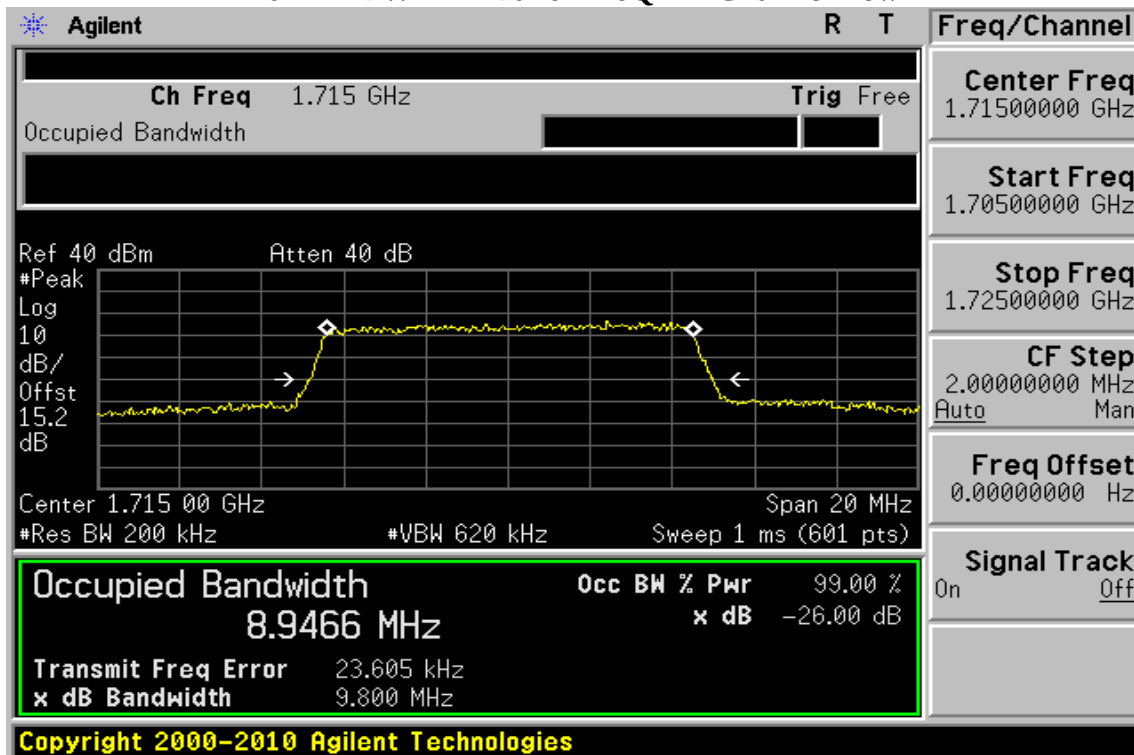
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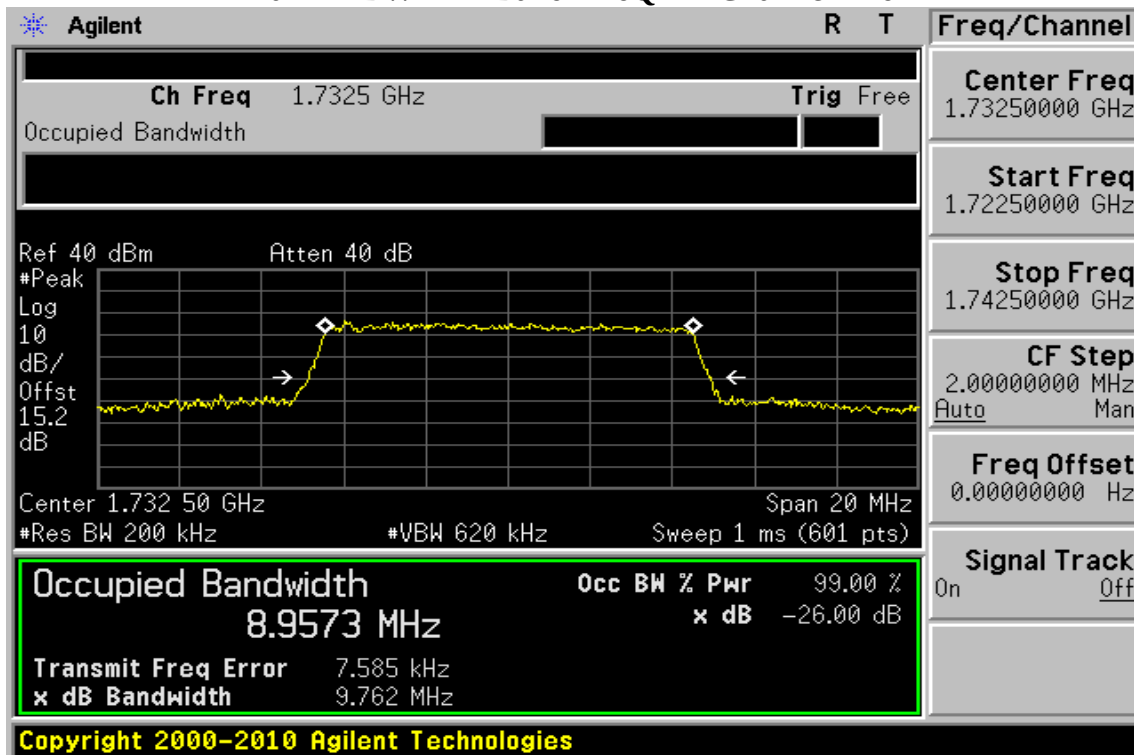
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10MHz BW LTE-Band 4 16QAM Channel Low



10MHz BW LTE-Band 4 16QAM Channel Mid



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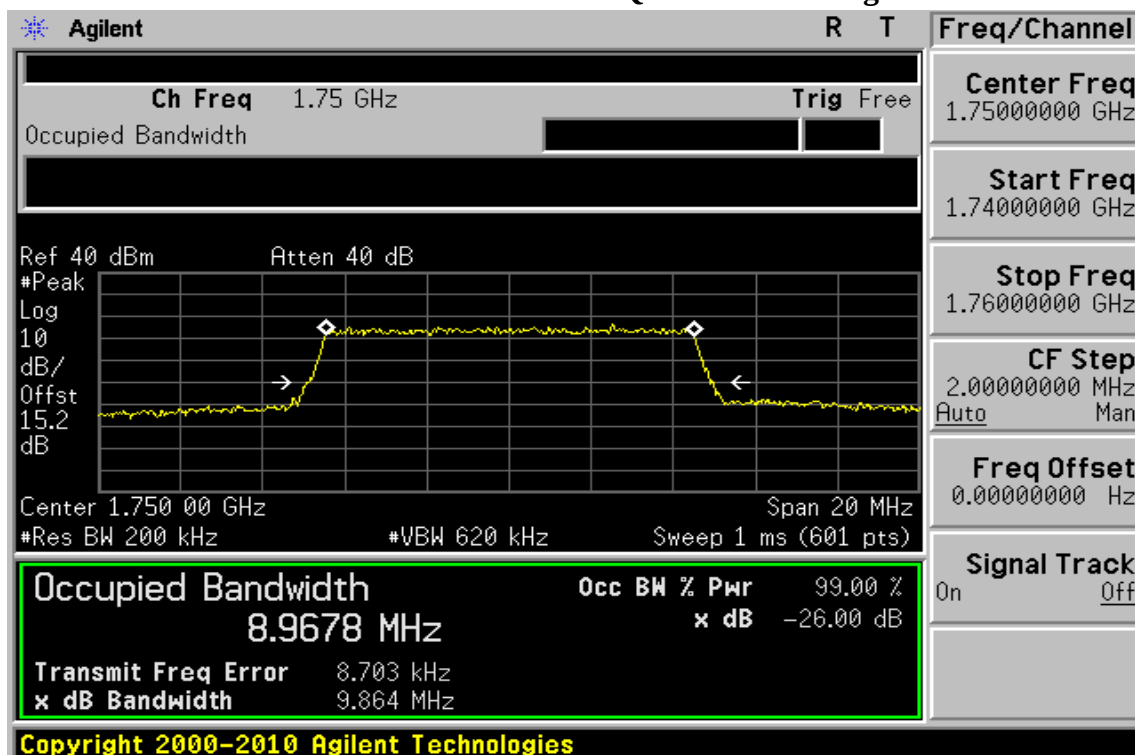
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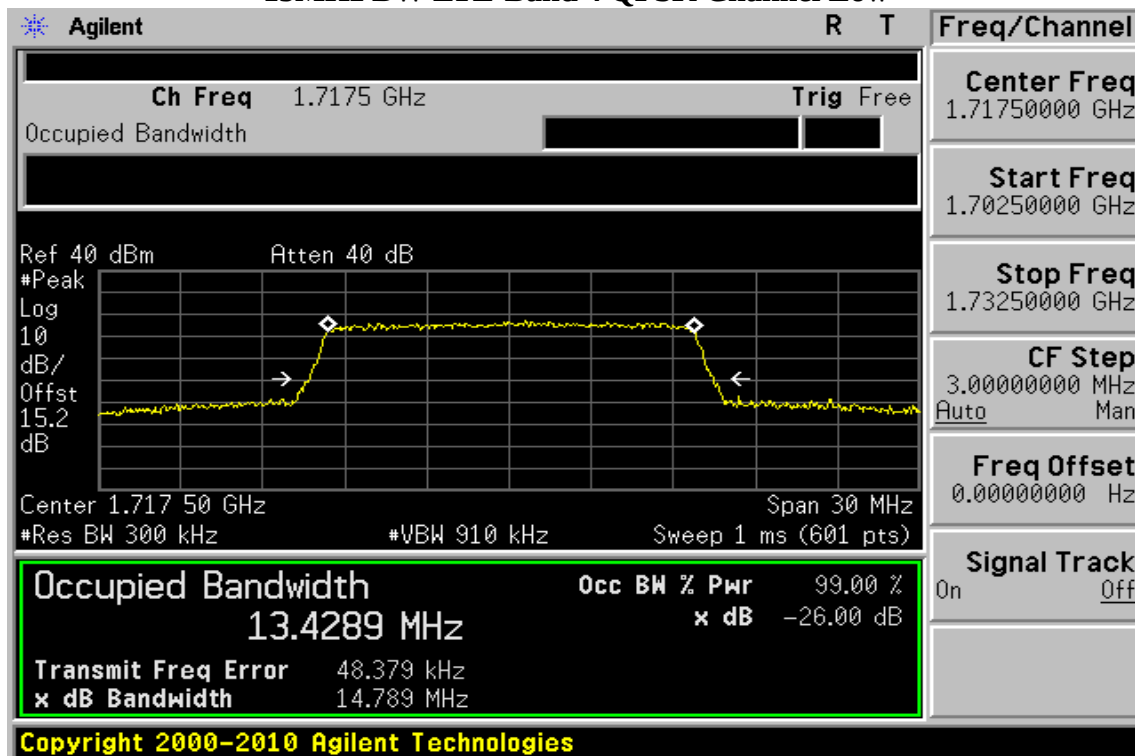
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10MHz BW LTE-Band 4 16QAM Channel High



15MHz BW LTE-Band 4 QPSK Channel Low



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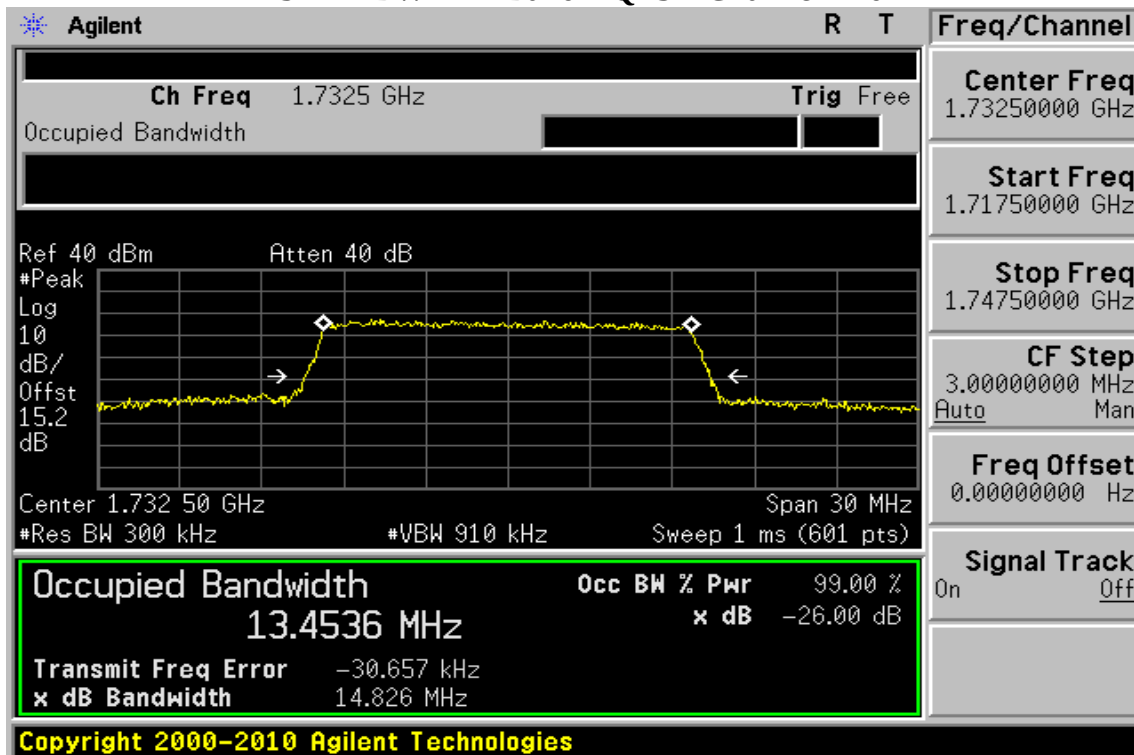
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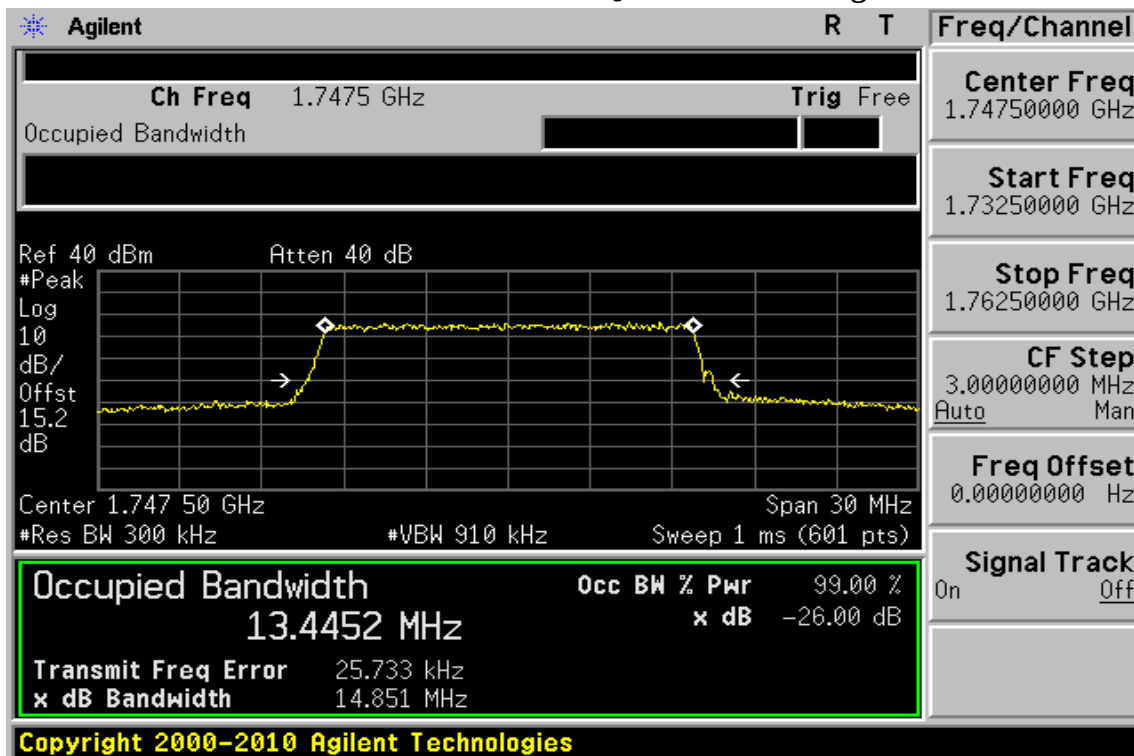
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15MHz BW LTE-Band 4 QPSK Channel Mid



15MHz BW LTE-Band 4 QPSK Channel High



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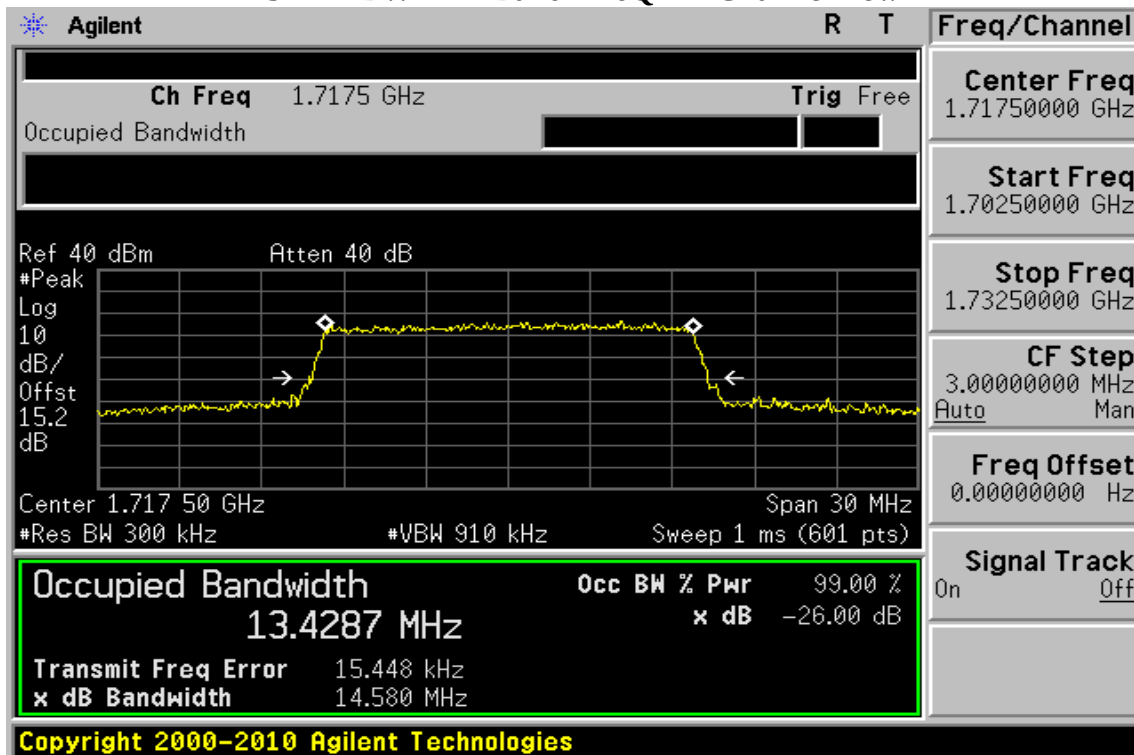
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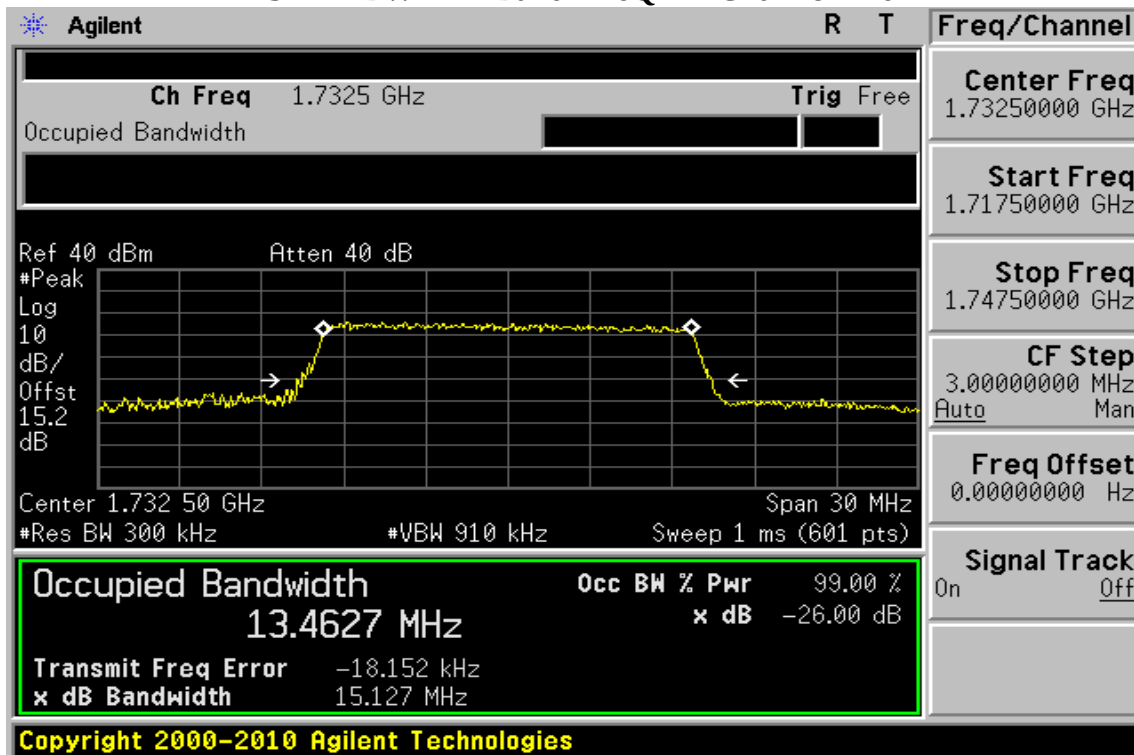
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15MHz BW LTE-Band 4 16QAM Channel Low



15MHz BW LTE-Band 4 16QAM Channel Mid



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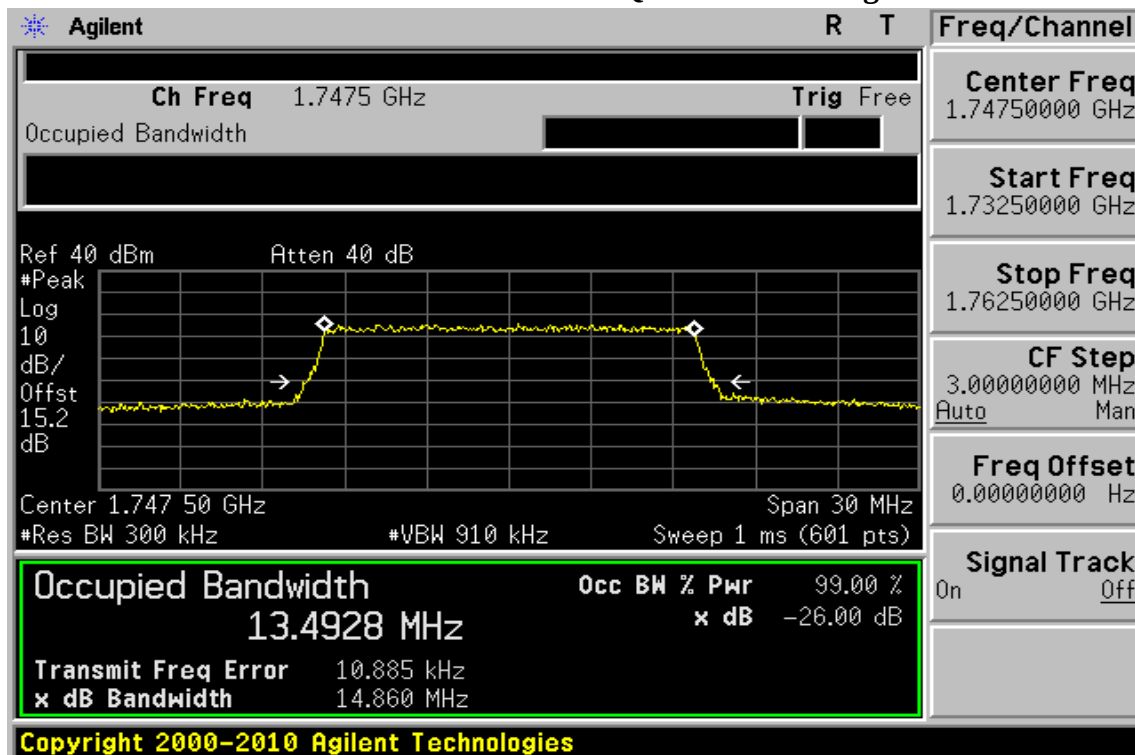
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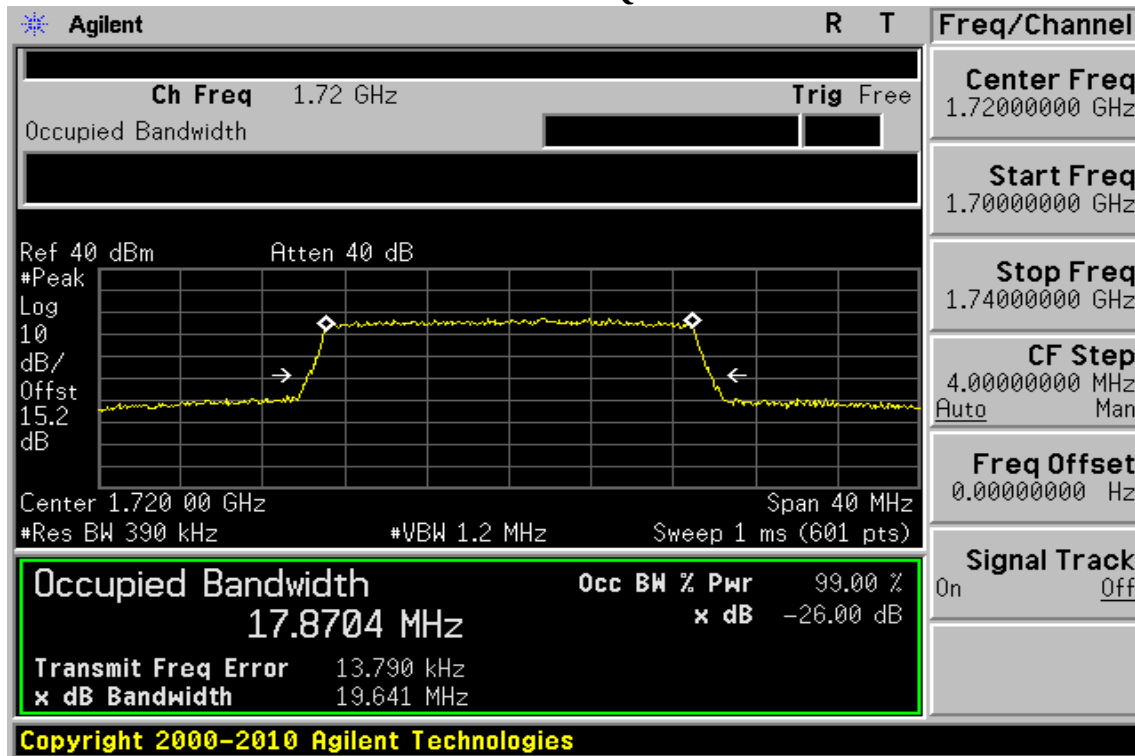
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15MHz BW LTE-Band 4 16QAM Channel High



20MHz BW LTE-Band 4 QPSK Channel Low



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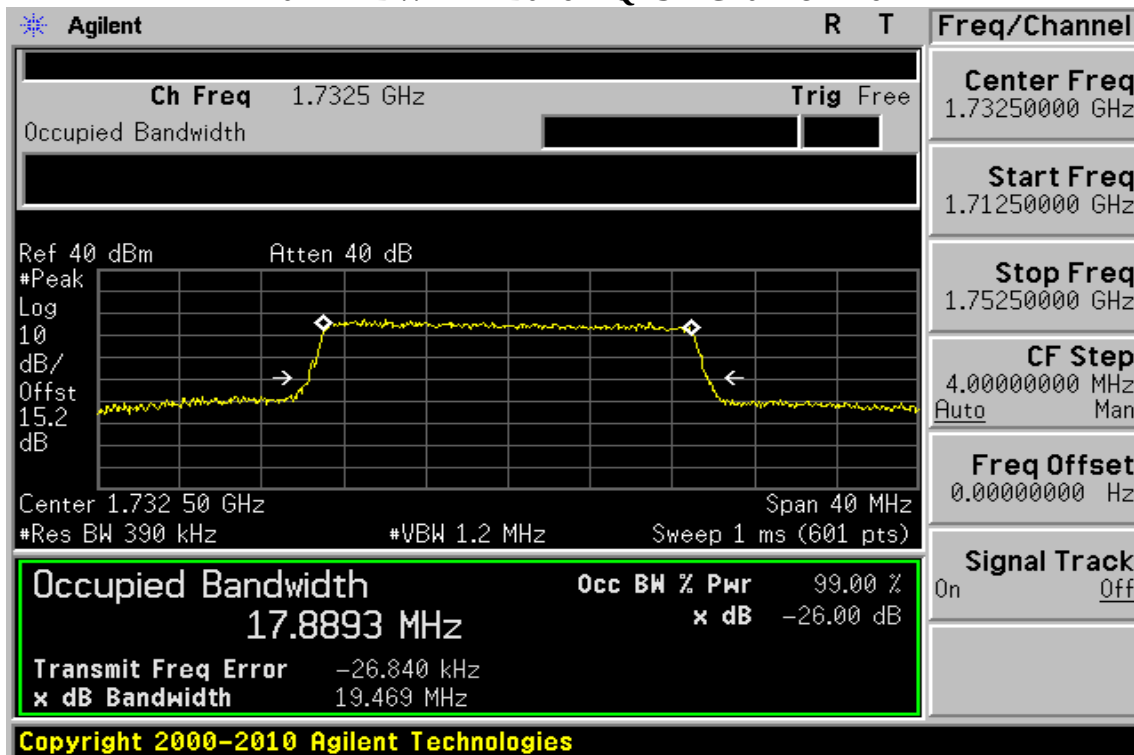
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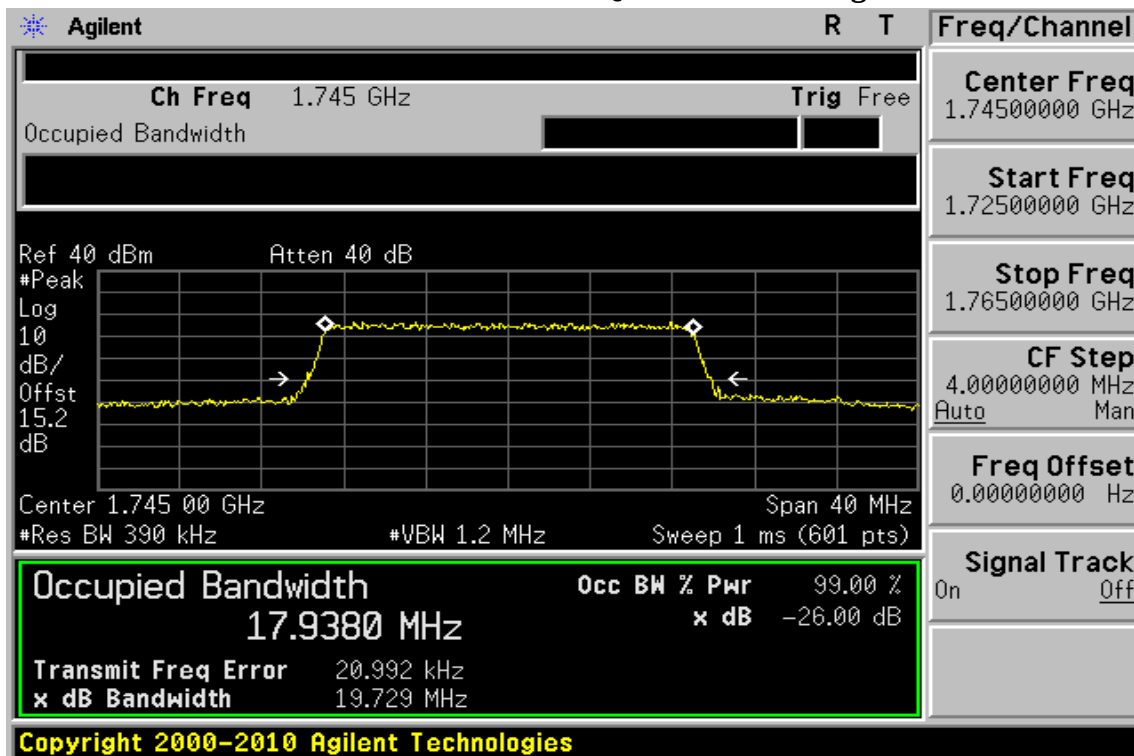
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20MHz BW LTE-Band 4 QPSK Channel Mid



20MHz BW LTE-Band 4 QPSK Channel High



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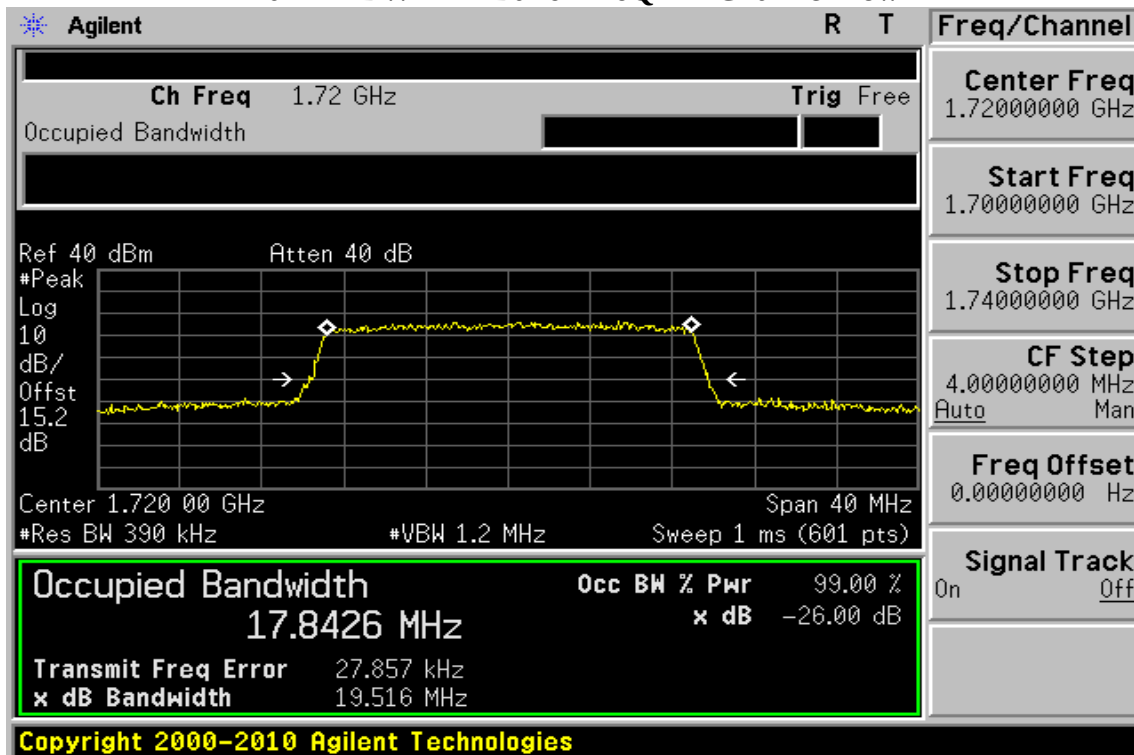
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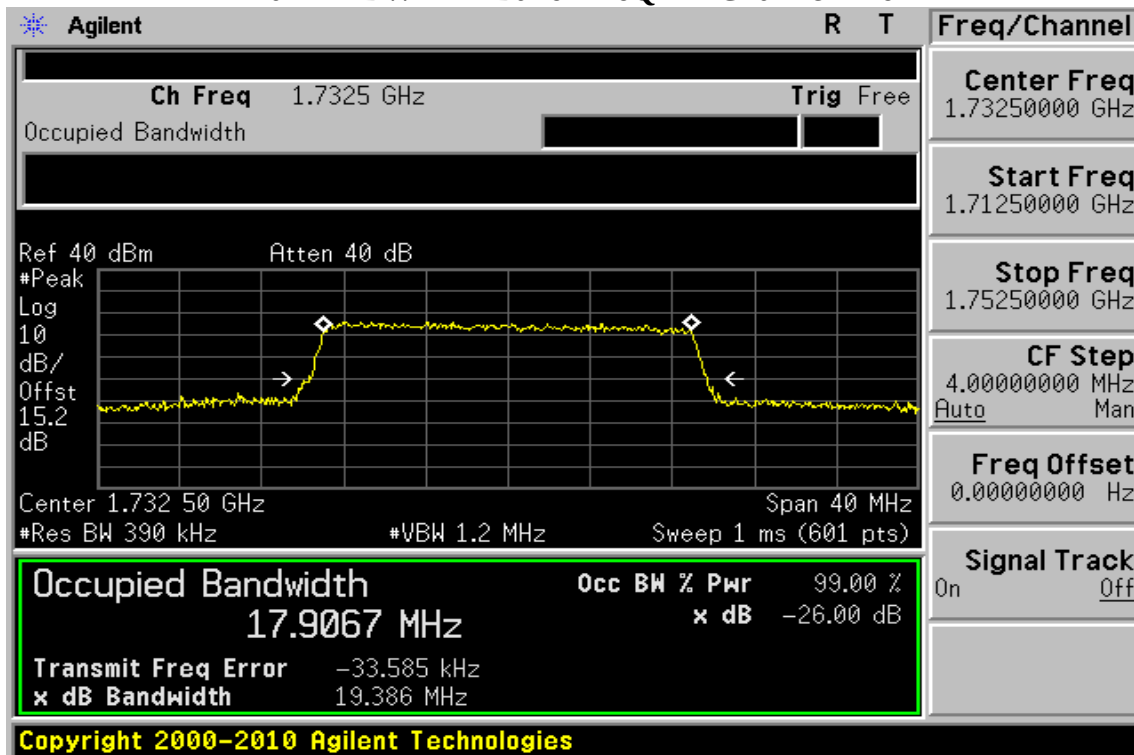
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20MHz BW LTE-Band 4 16QAM Channel Low



20MHz BW LTE-Band 4 16QAM Channel Mid



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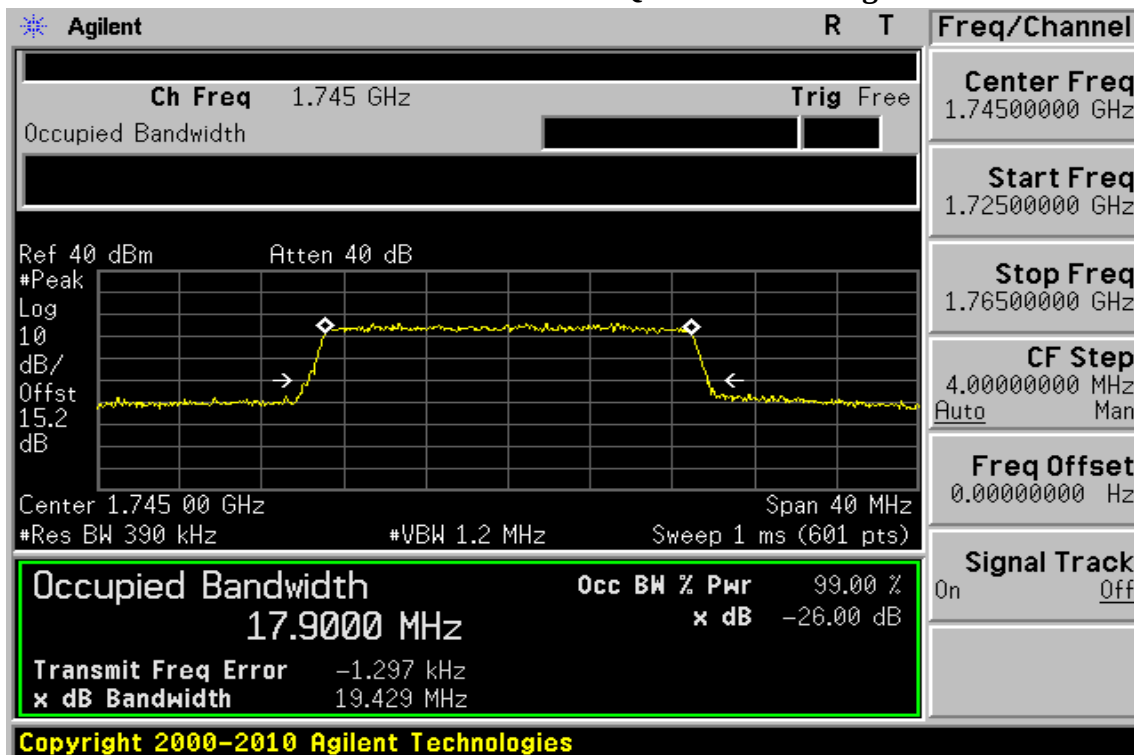
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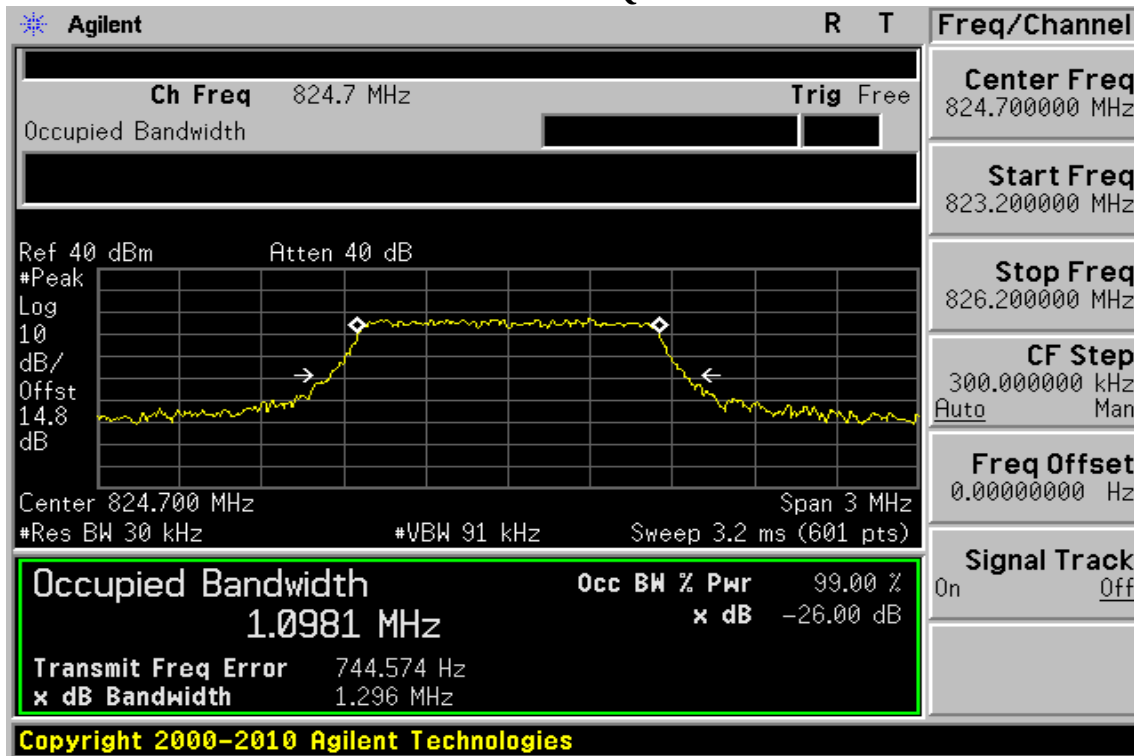
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20MHz BW LTE-Band 4 16QAM Channel High



1.4MHz BW LTE-Band 5 QPSK Channel Low



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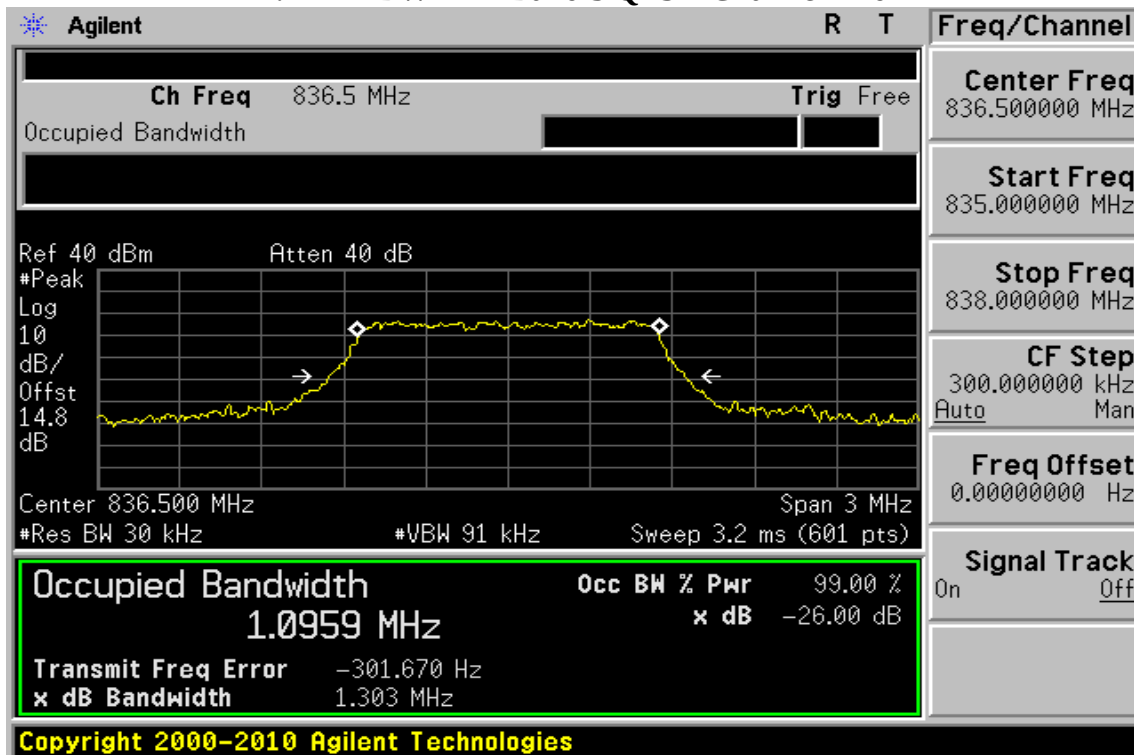
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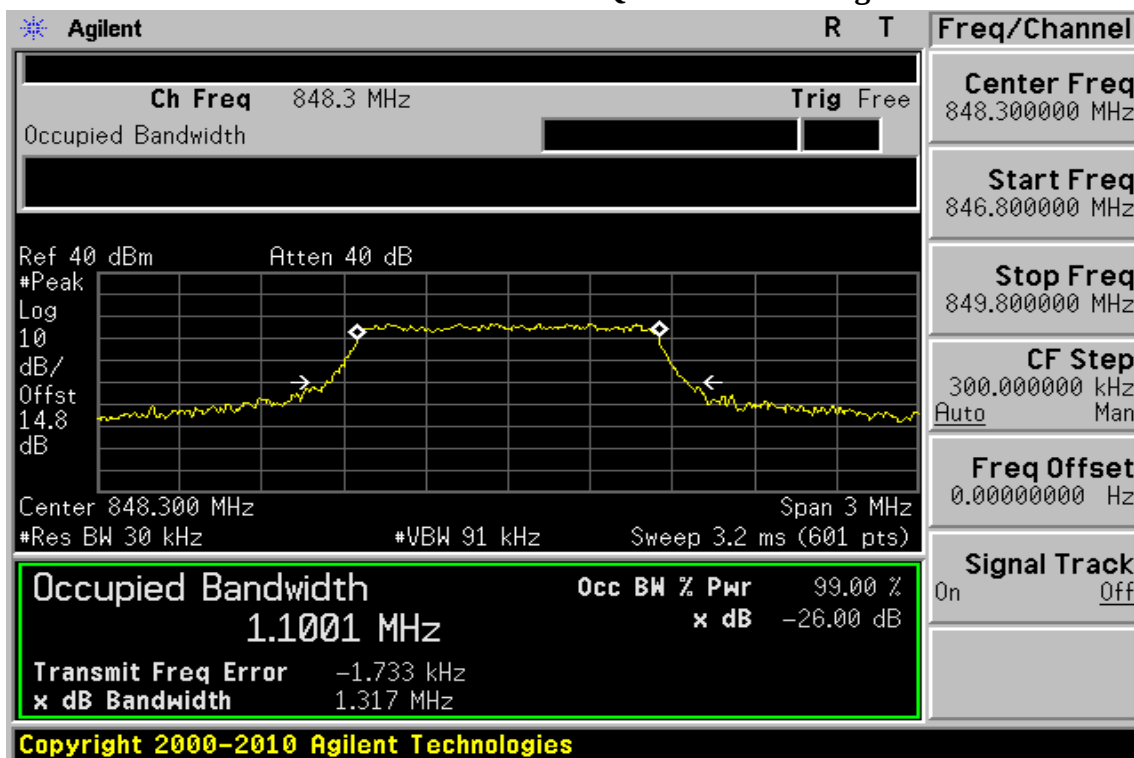
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1.4MHz BW LTE-Band 5 QPSK Channel Mid



1.4MHz BW LTE-Band 5 QPSK Channel High



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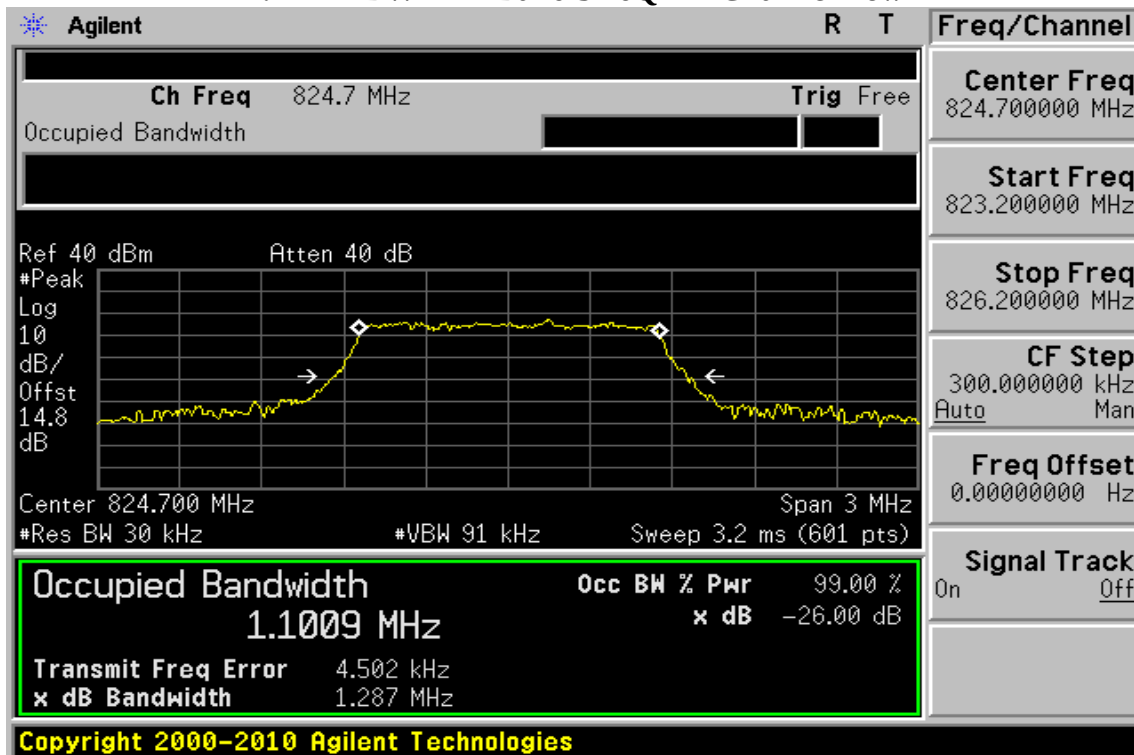
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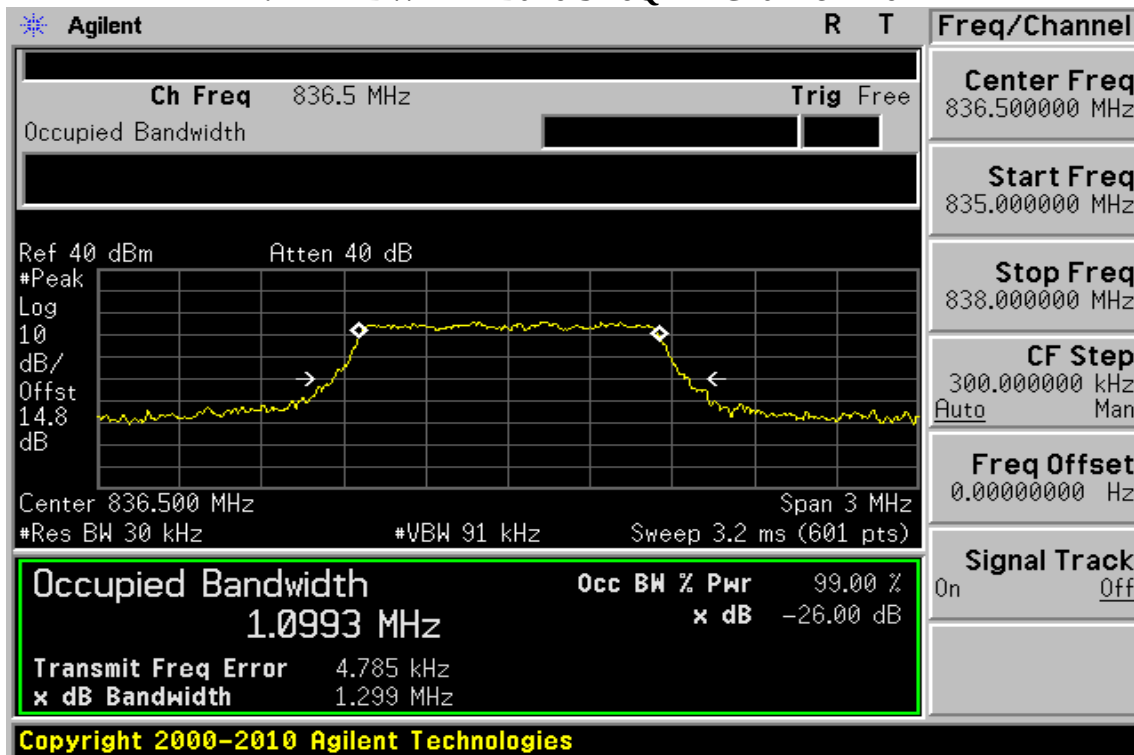
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1.4MHz BW LTE-Band 5 16QAM Channel Low



1.4MHz BW LTE-Band 5 16QAM Channel Mid



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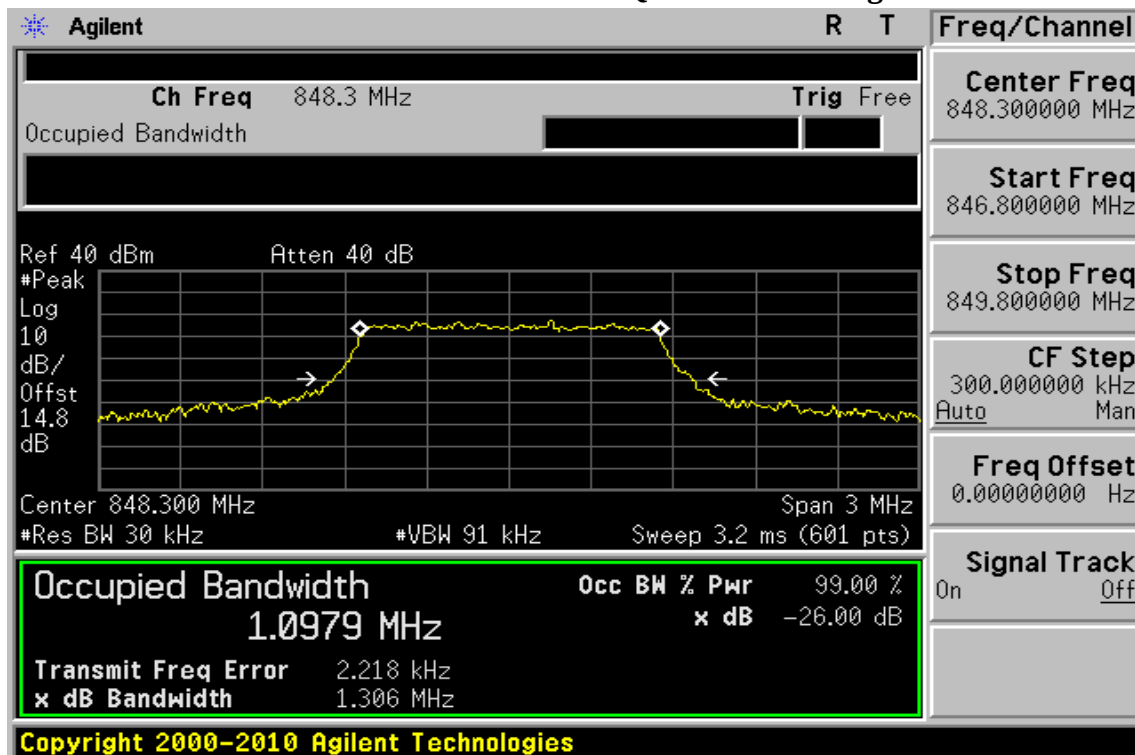
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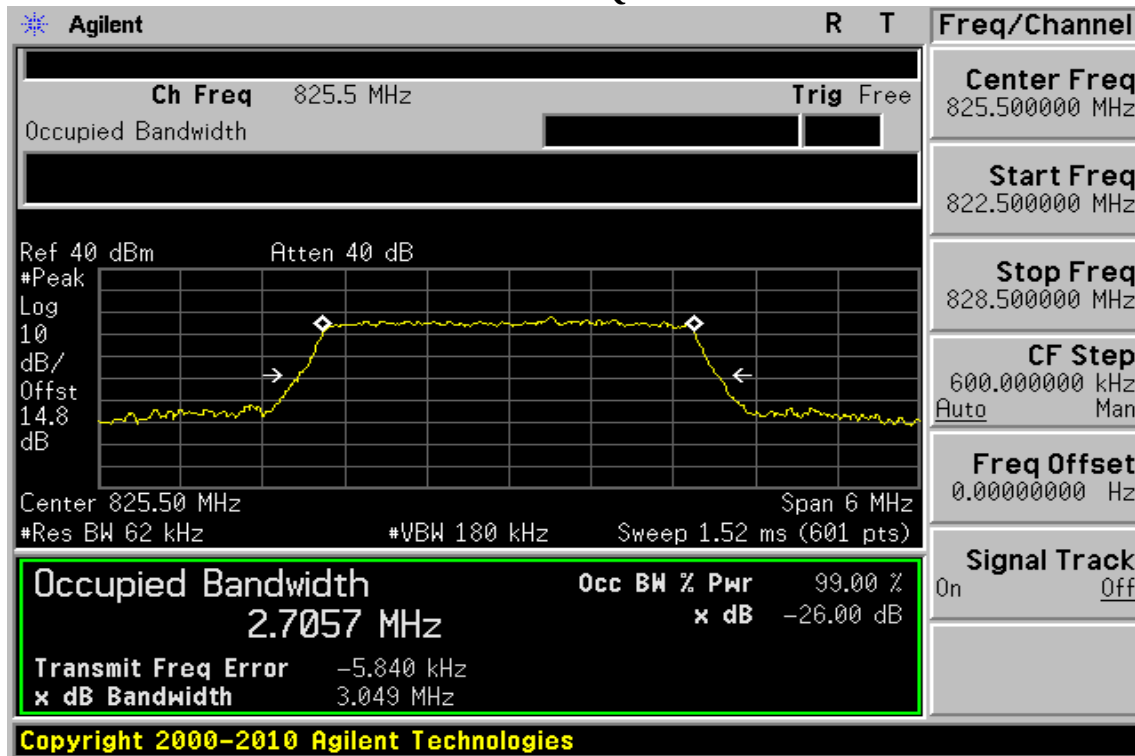
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1.4MHz BW LTE-Band 5 16QAM Channel High



3MHz BW LTE-Band 5 QPSK Channel Low



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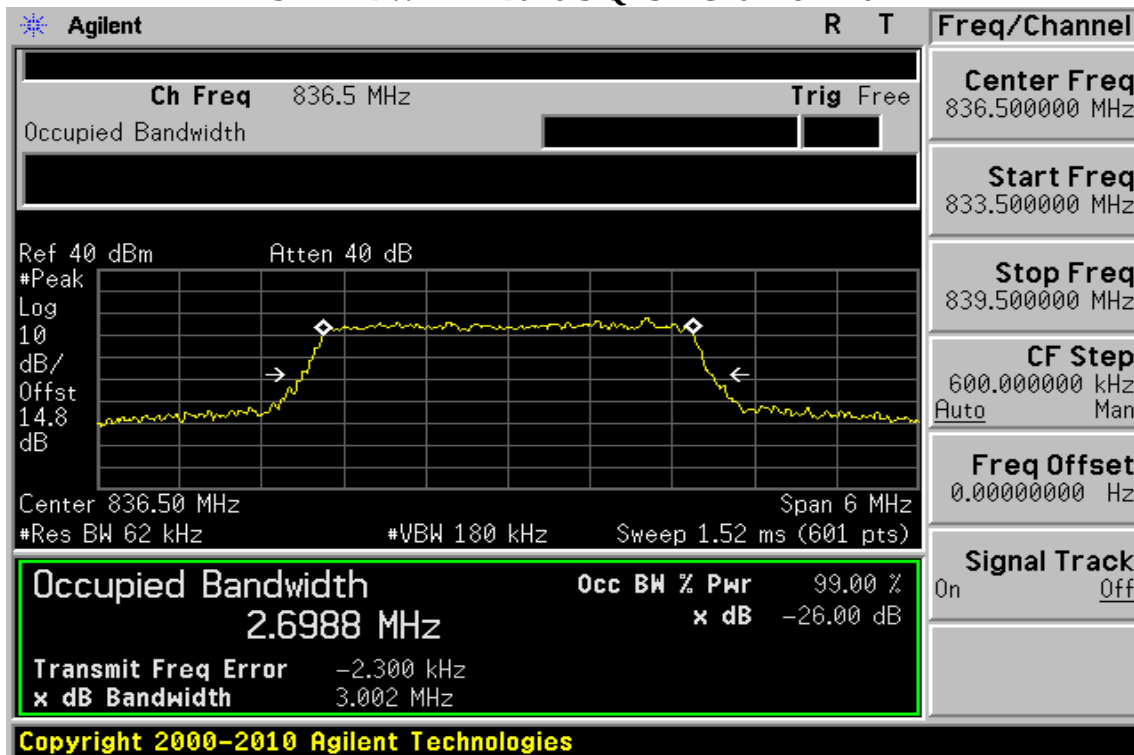
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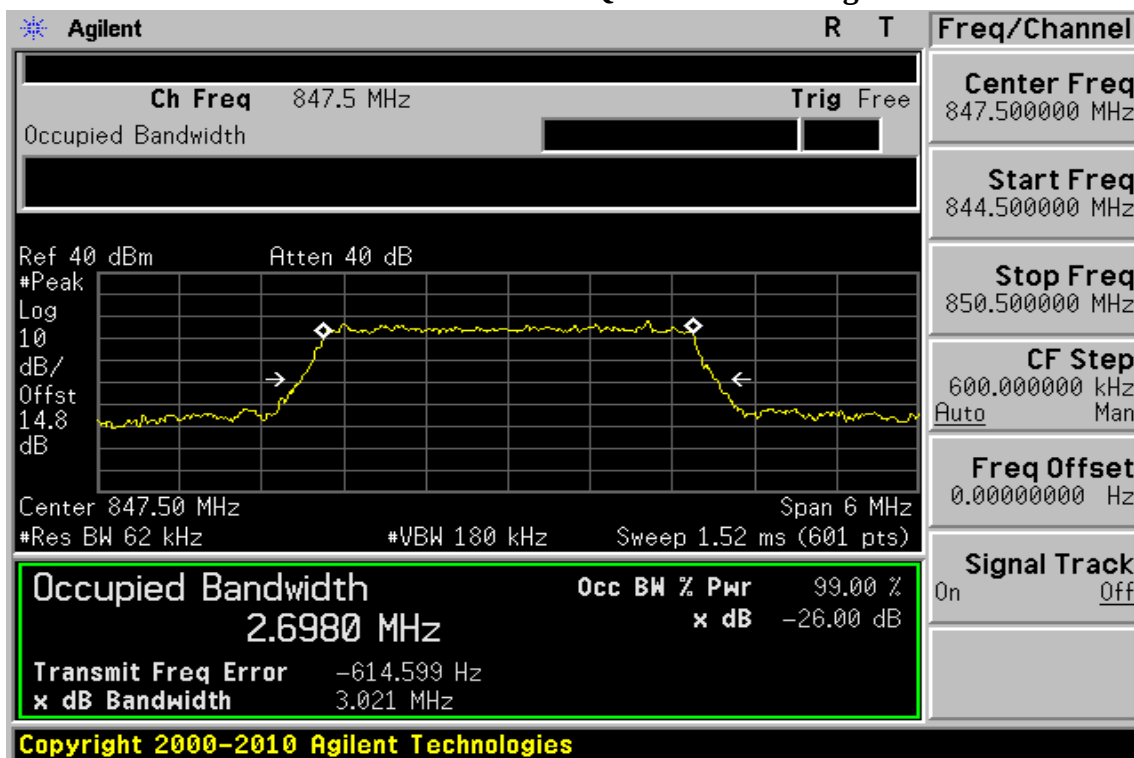
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3MHz BW LTE-Band 5 QPSK Channel Mid



3MHz BW LTE-Band 5 QPSK Channel High



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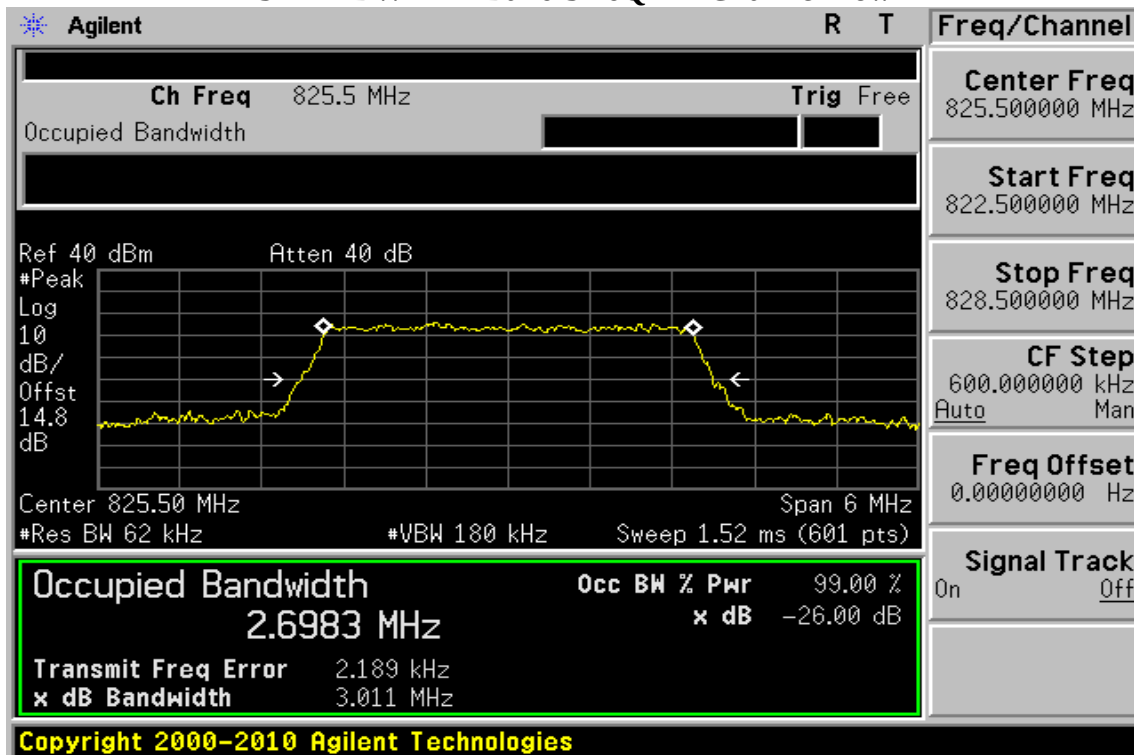
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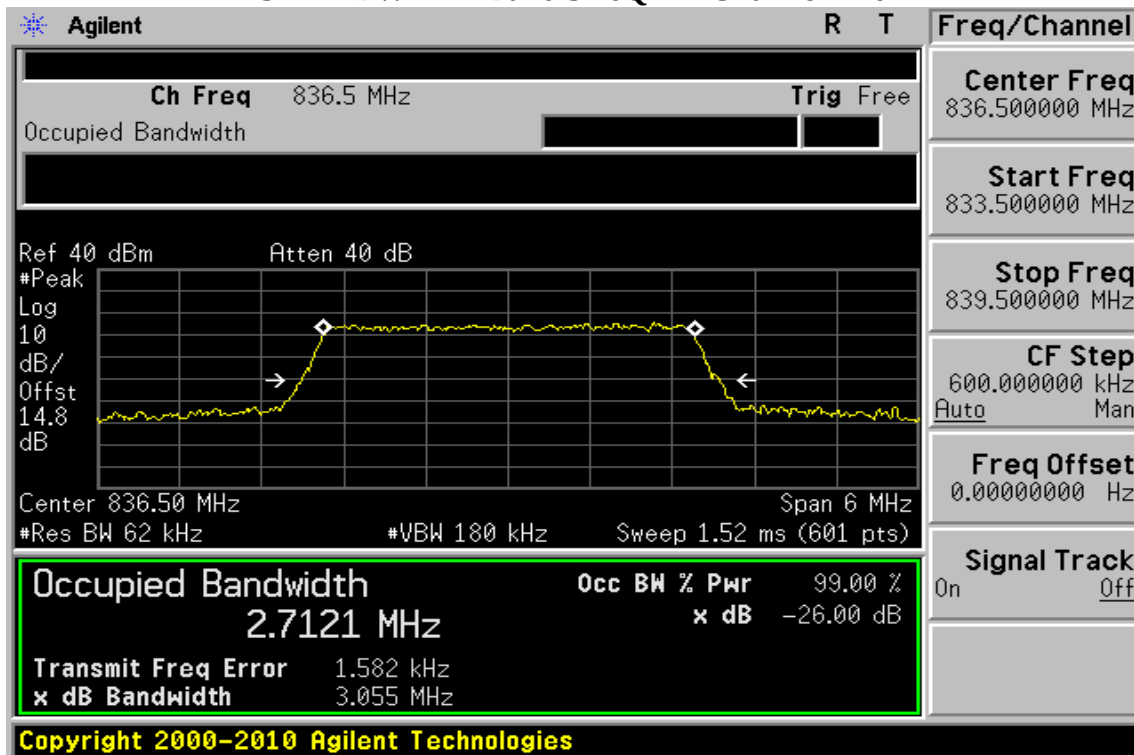
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3MHz BW LTE-Band 5 16QAM Channel Low



3MHz BW LTE-Band 5 16QAM Channel Mid



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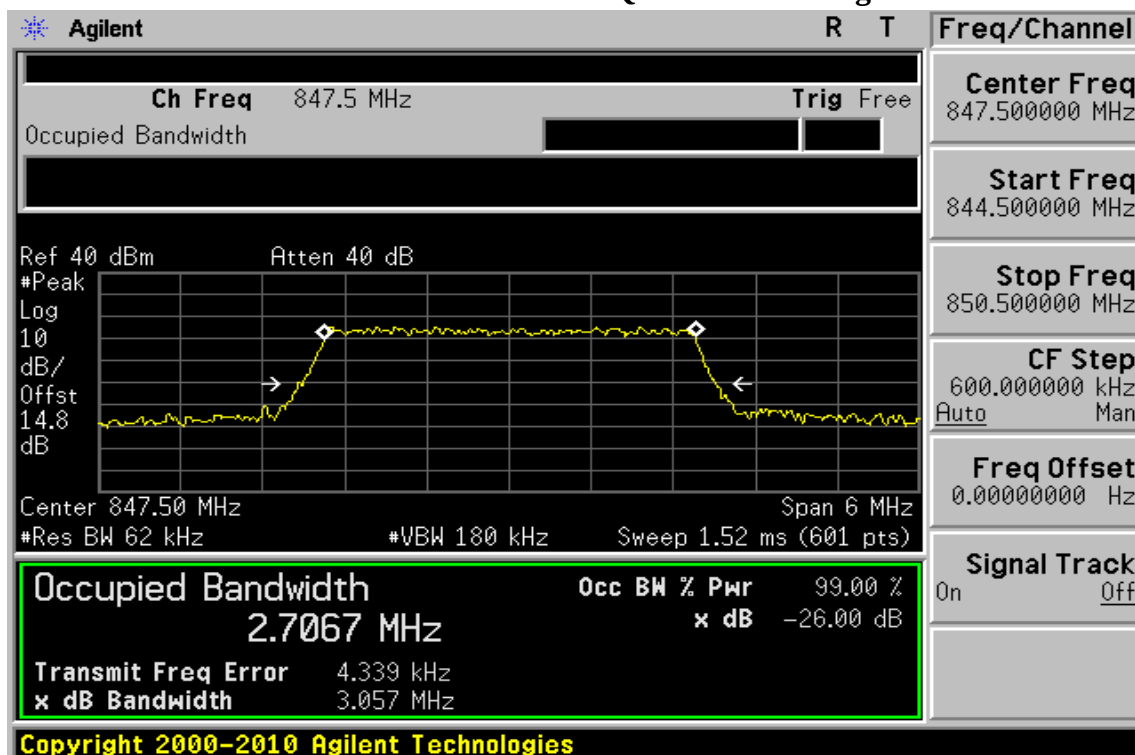
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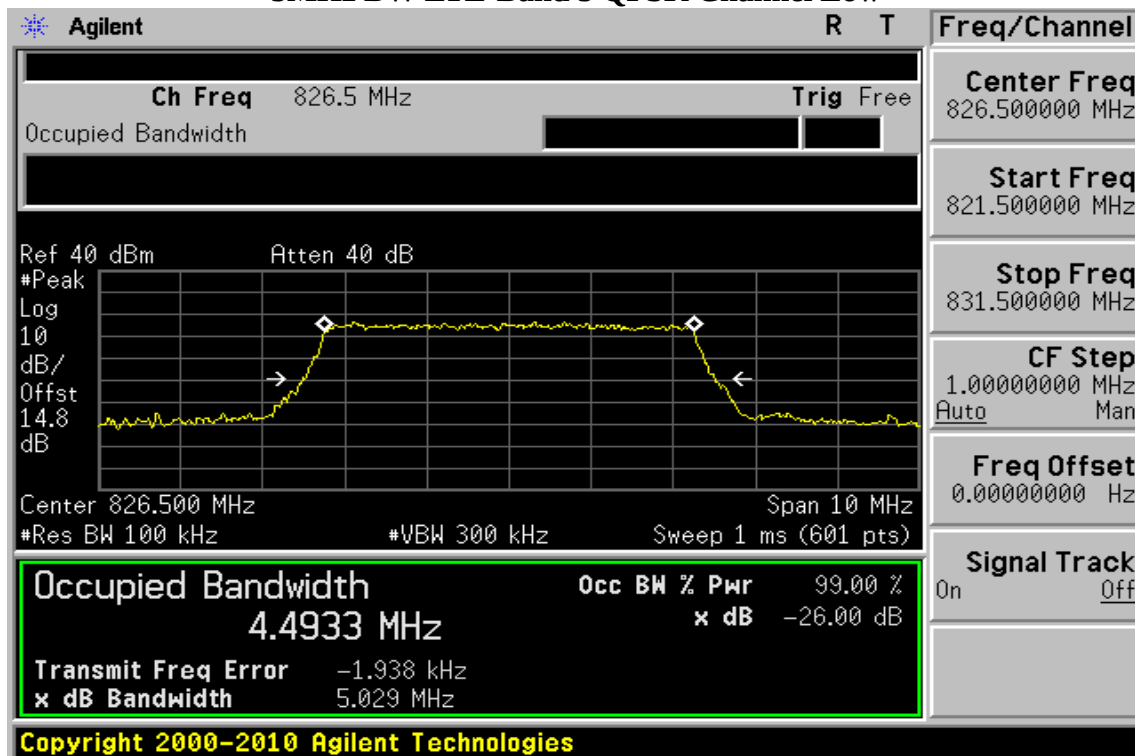
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3MHz BW LTE-Band 5 16QAM Channel High



5MHz BW LTE-Band 5 QPSK Channel Low



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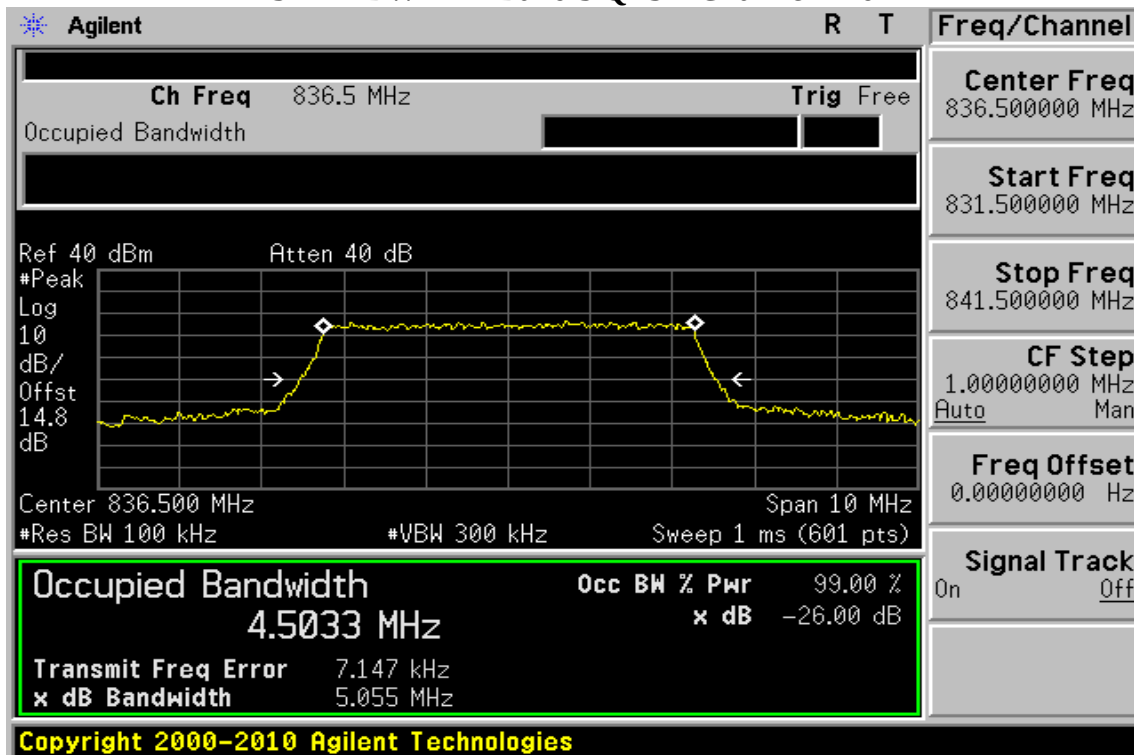
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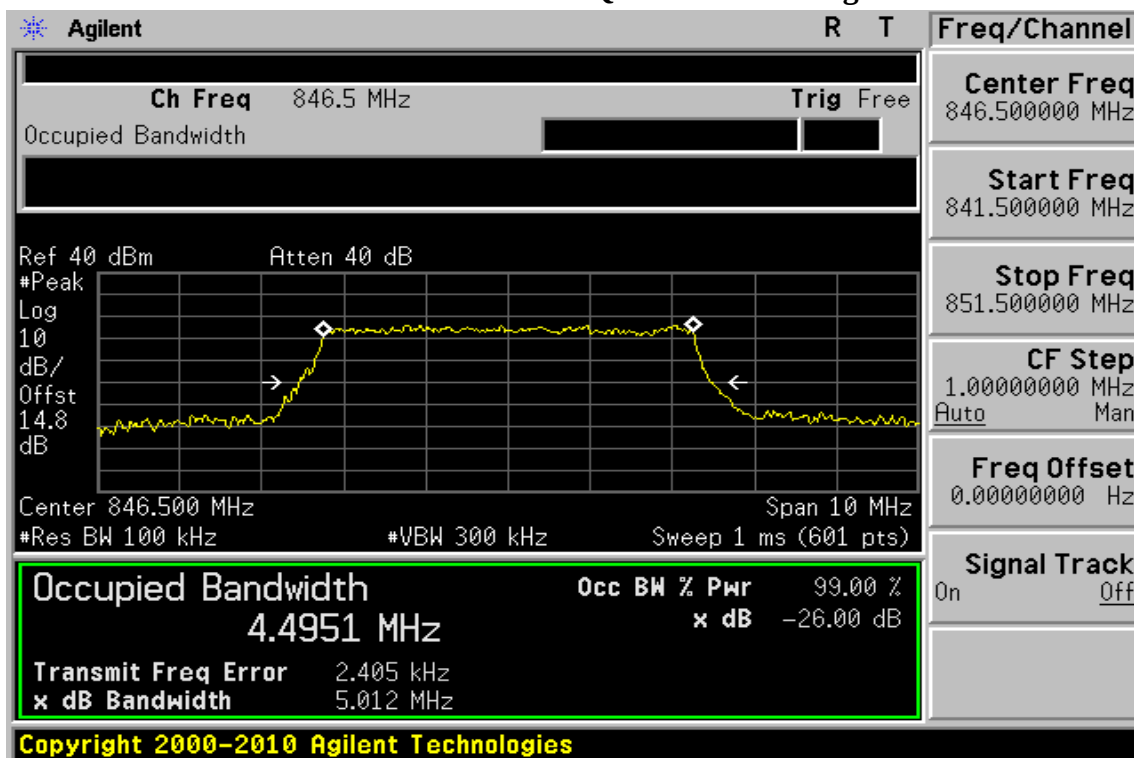
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5MHz BW LTE-Band 5 QPSK Channel Mid



5MHz BW LTE-Band 5 QPSK Channel High



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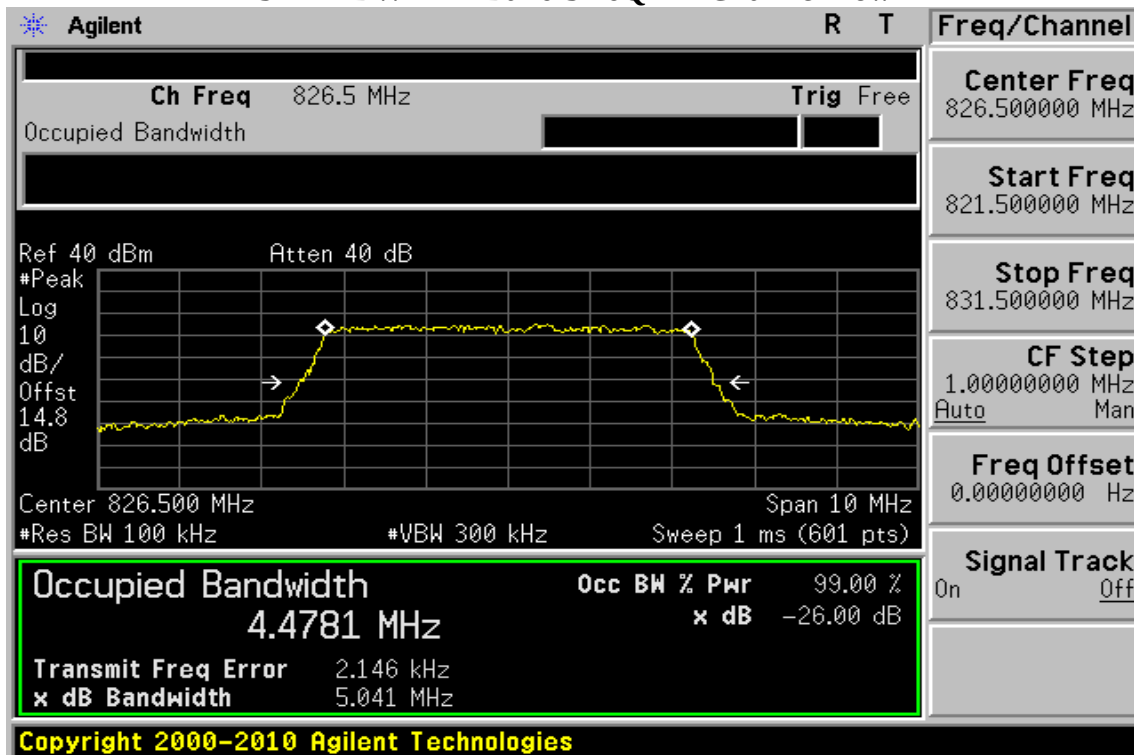
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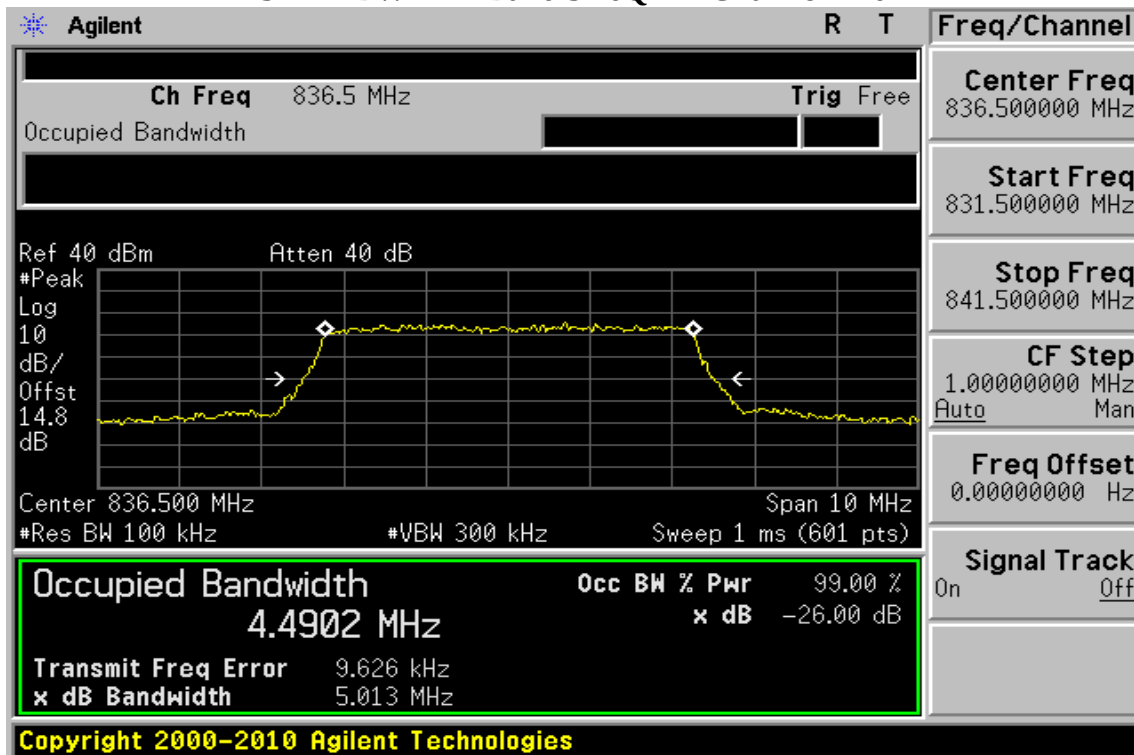
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5MHz BW LTE-Band 5 16QAM Channel Low



5MHz BW LTE-Band 5 16QAM Channel Mid



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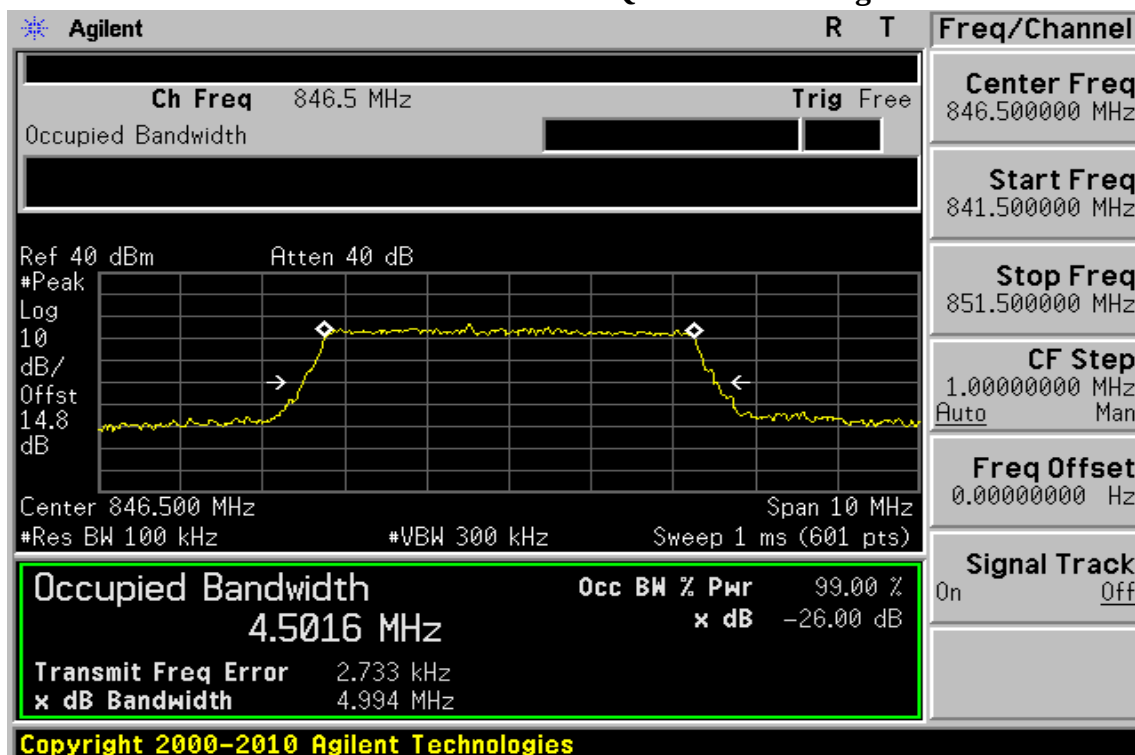
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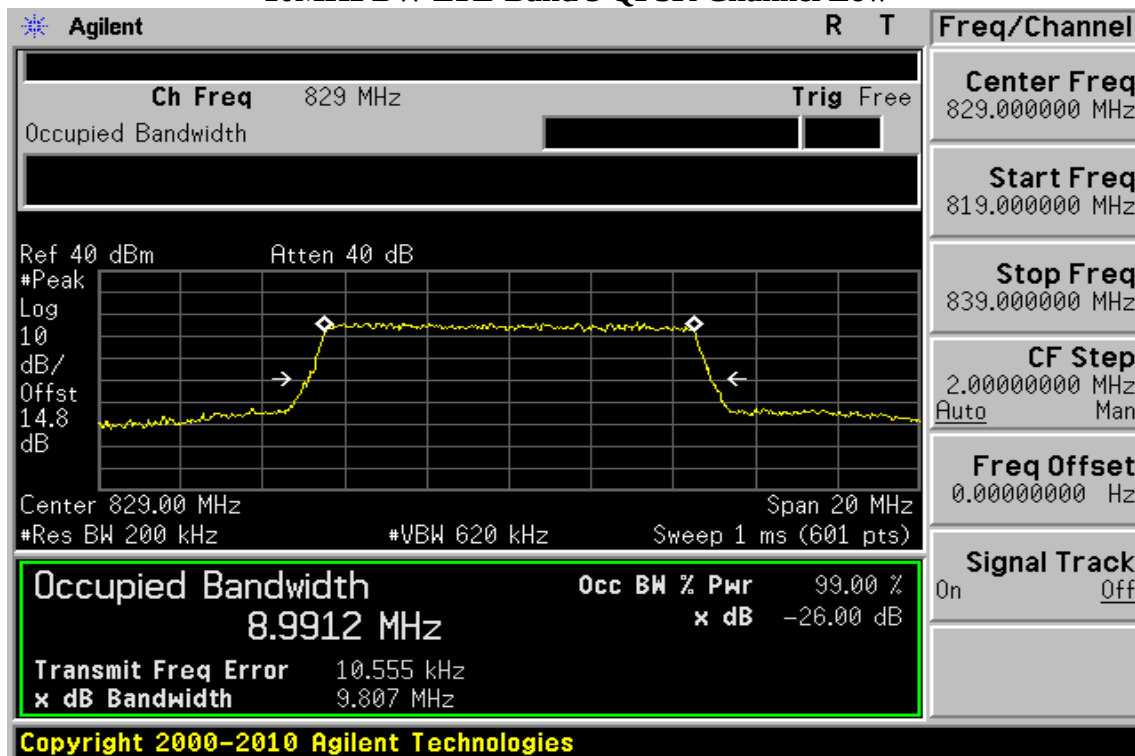
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5MHz BW LTE-Band 5 16QAM Channel High



10MHz BW LTE-Band 5 QPSK Channel Low



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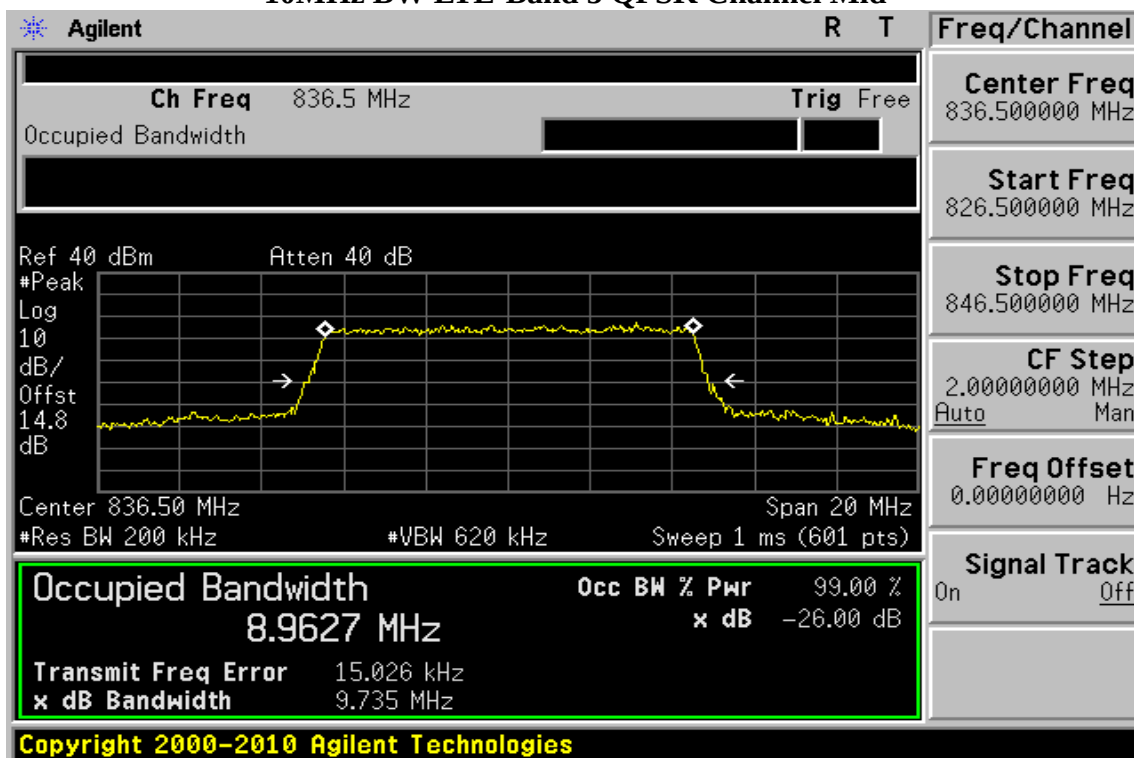
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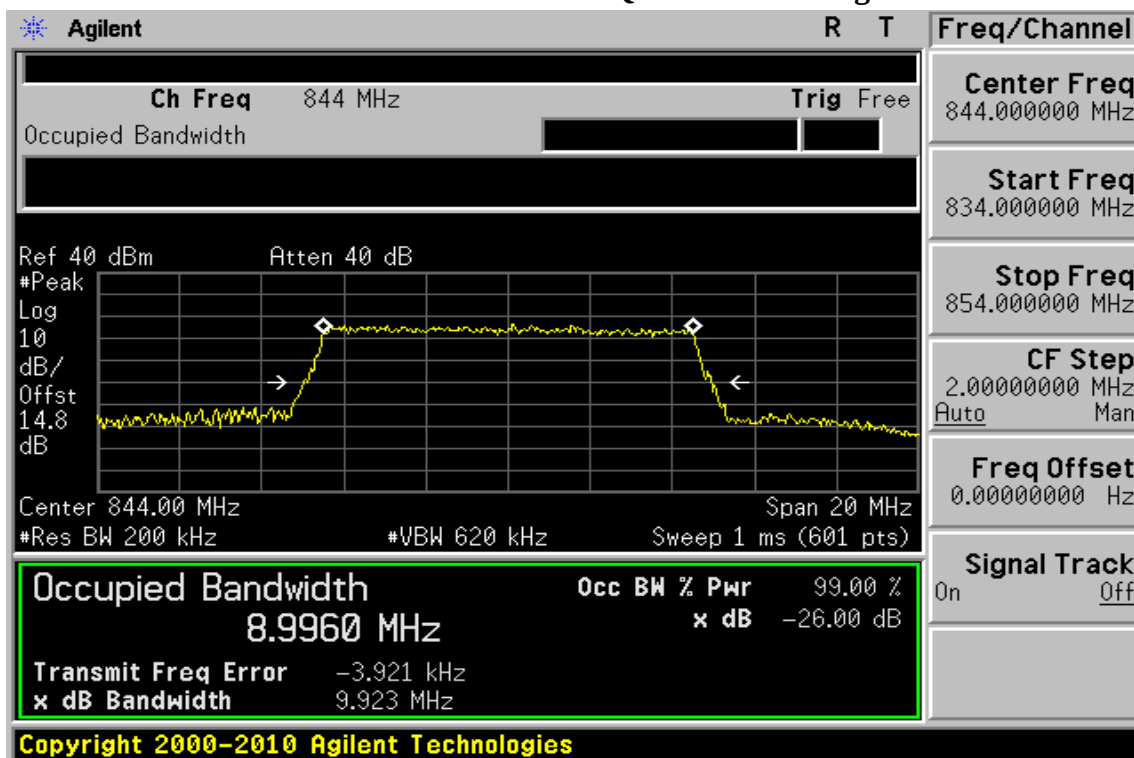
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10MHz BW LTE-Band 5 QPSK Channel Mid



5MHz BW LTE-Band 5 16QAM Channel High



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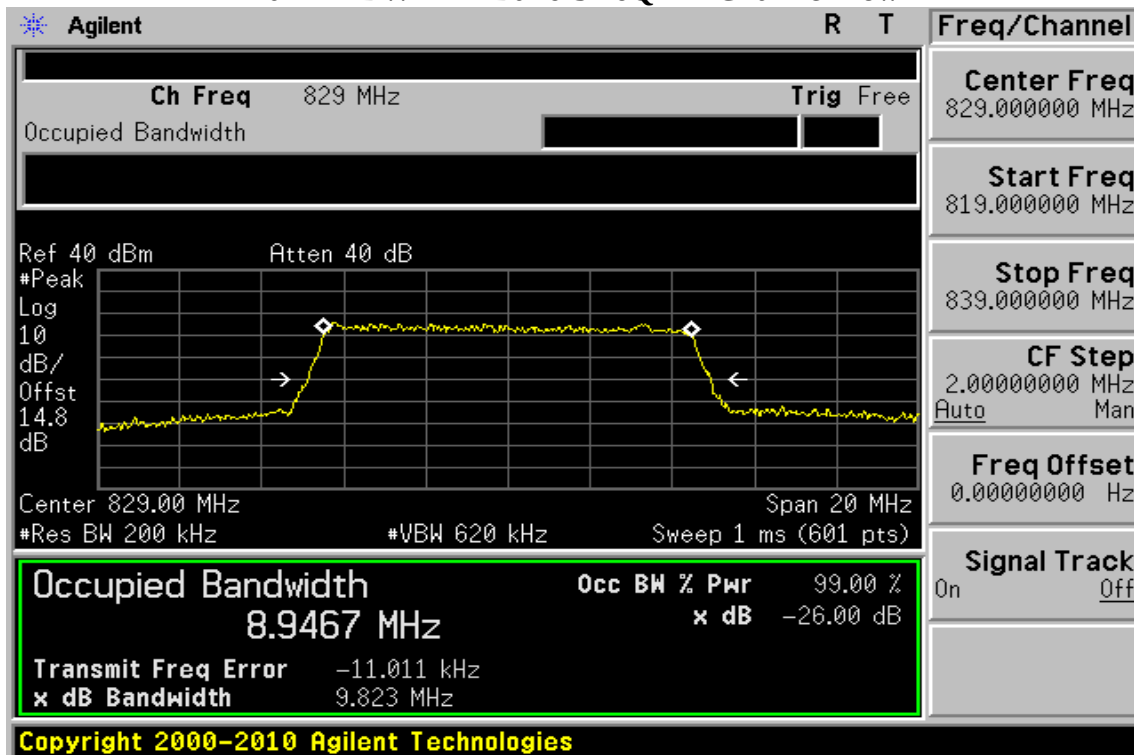
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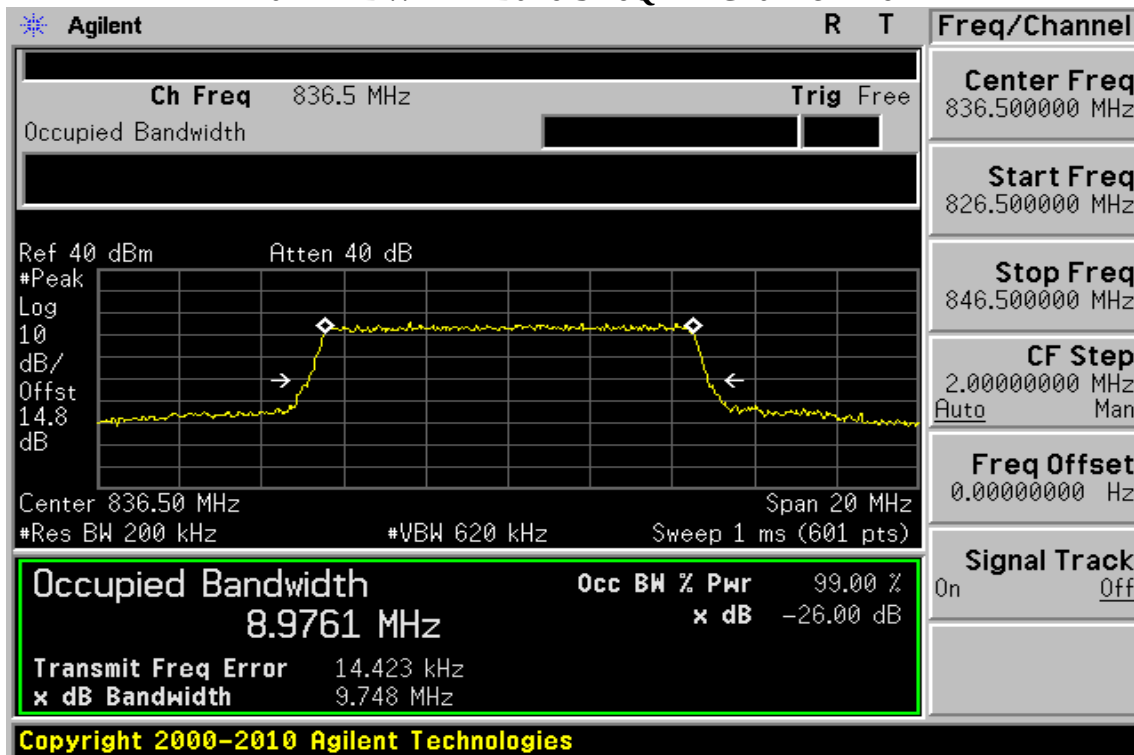
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10MHz BW LTE-Band 5 16QAM Channel Low



10MHz BW LTE-Band 5 16QAM Channel Mid



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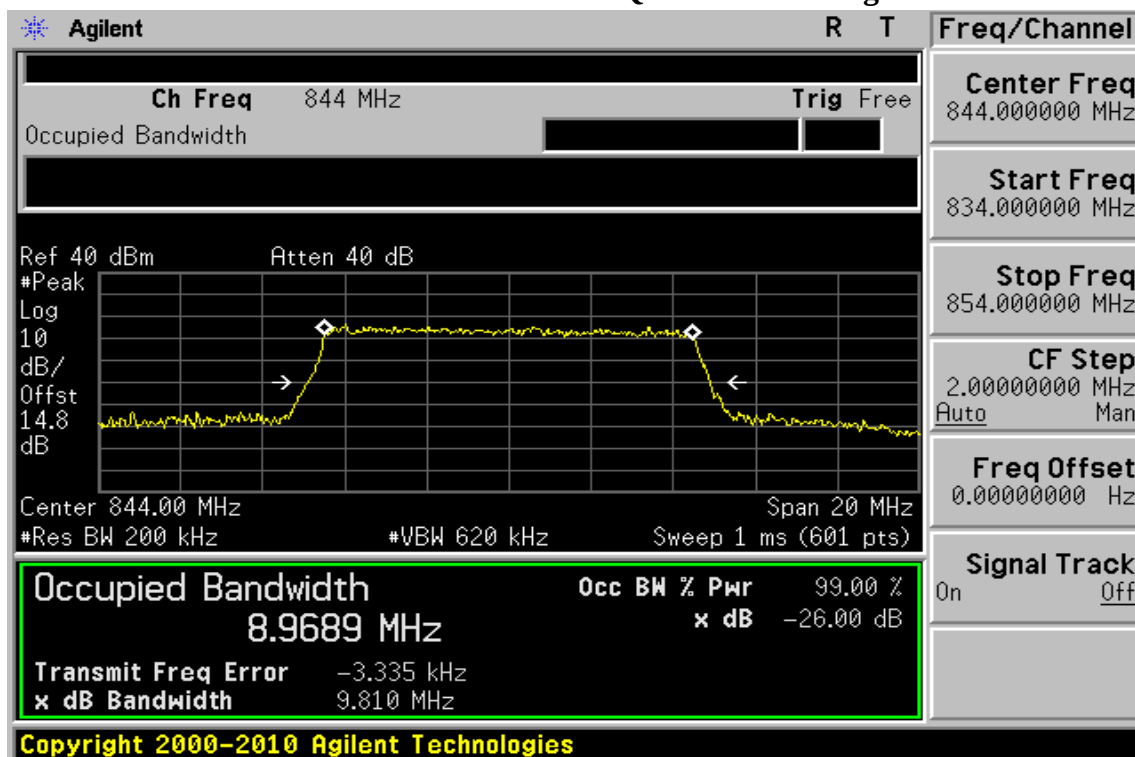
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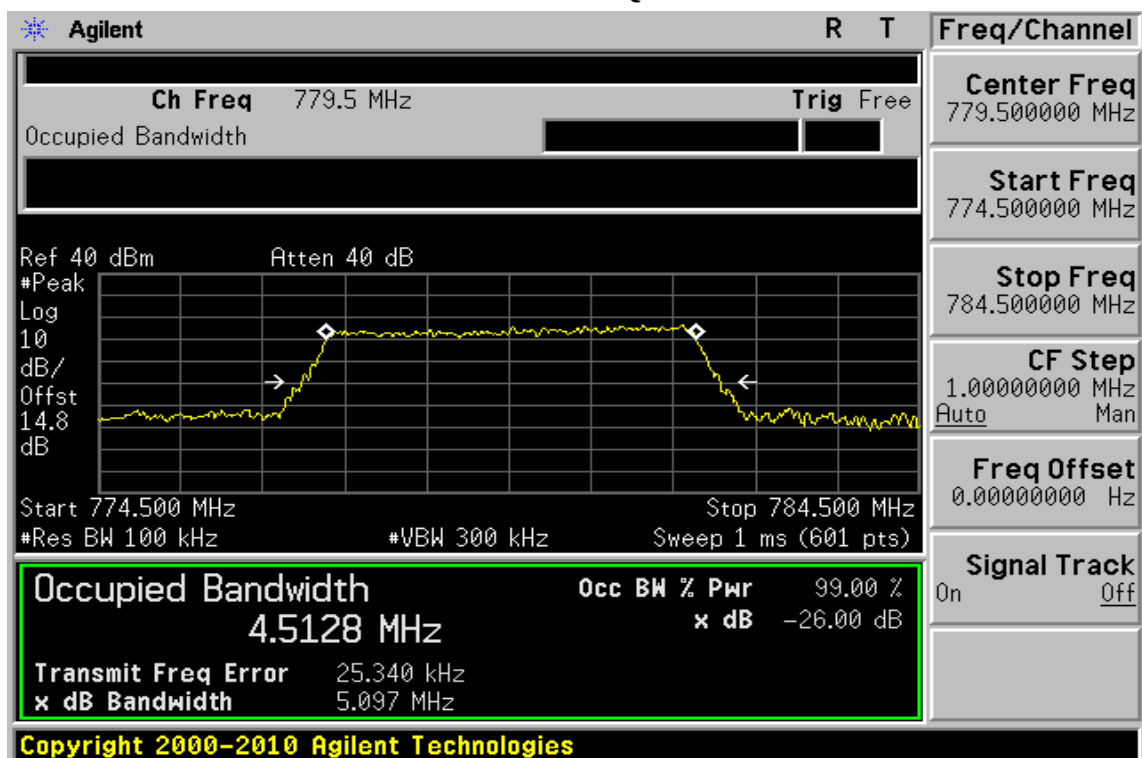
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10MHz BW LTE-Band 5 16QAM Channel High



5MHz BW LTE-Band 13 QPSK Channel Low



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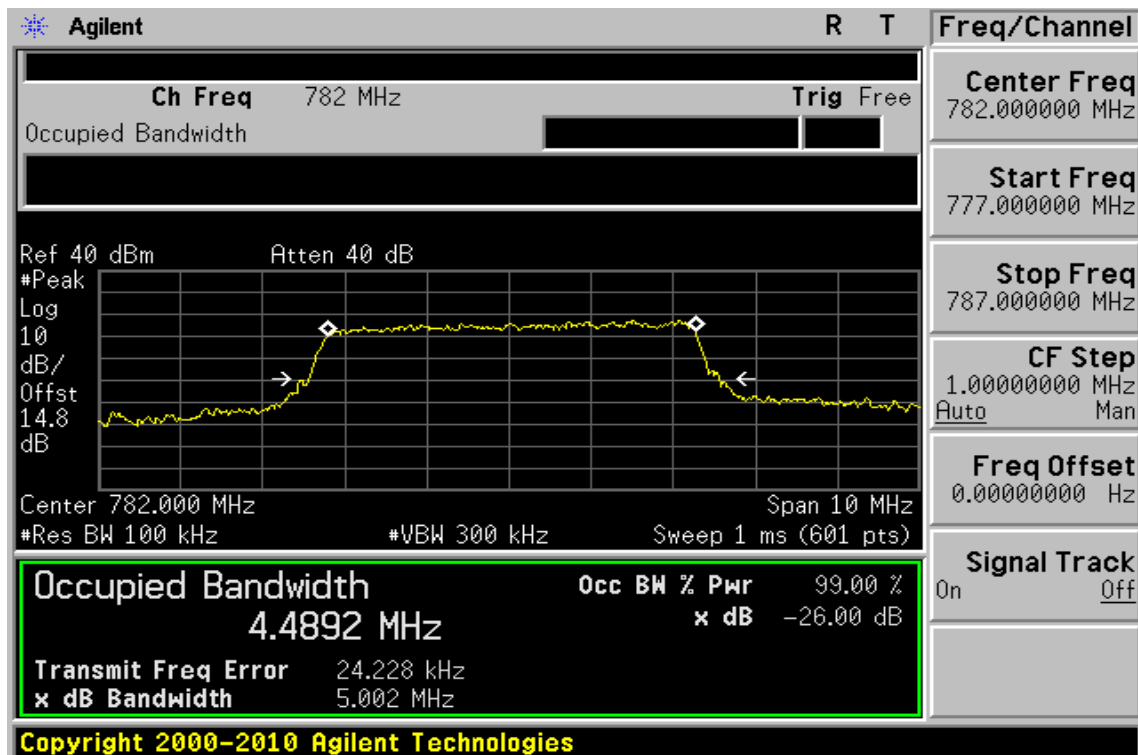
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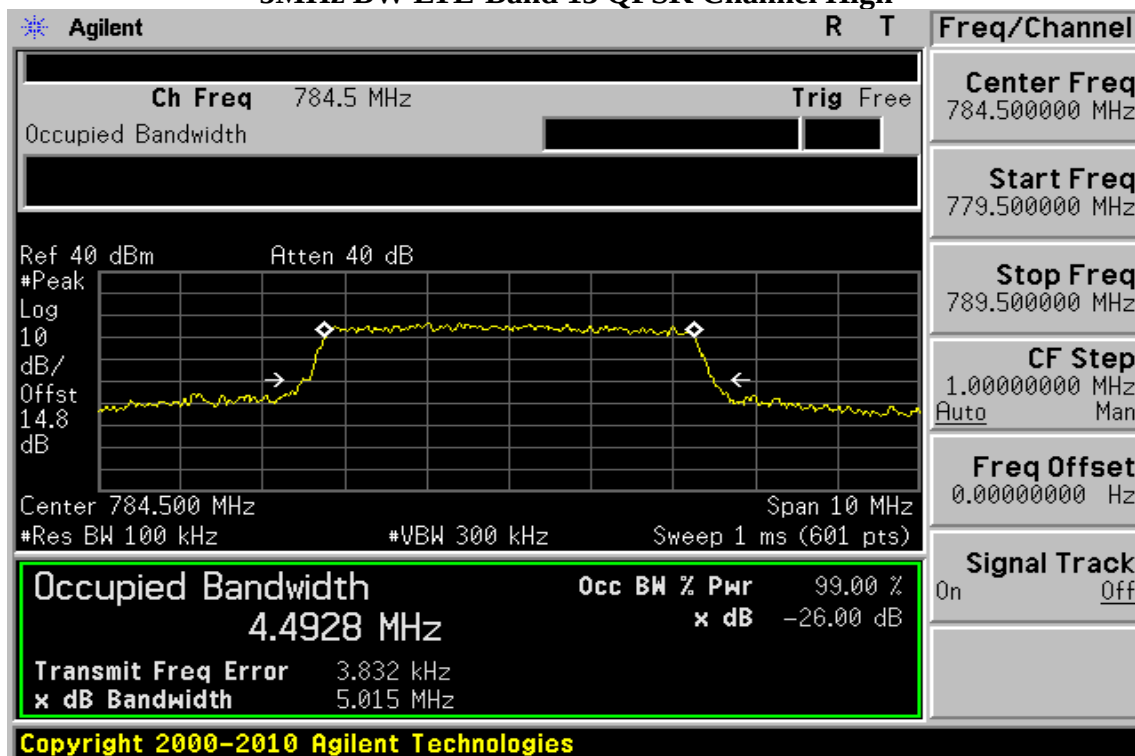
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5MHz BW LTE-Band 13 QPSK Channel Mid



5MHz BW LTE-Band 13 QPSK Channel High



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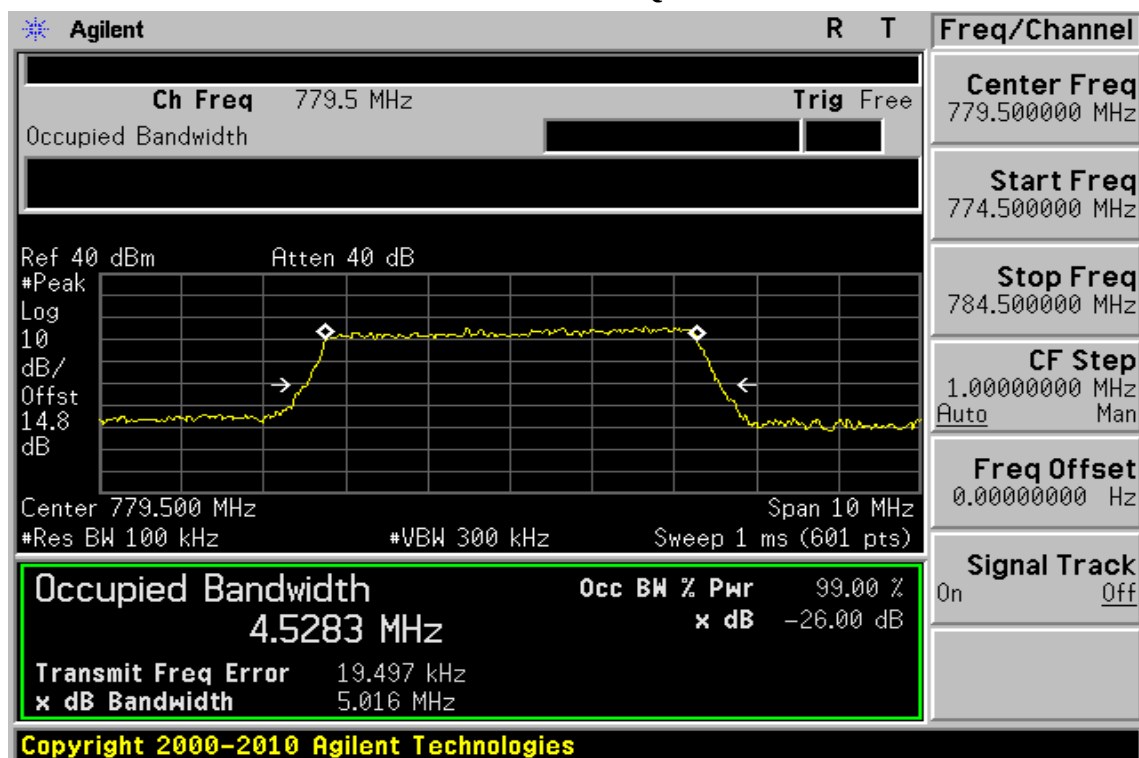
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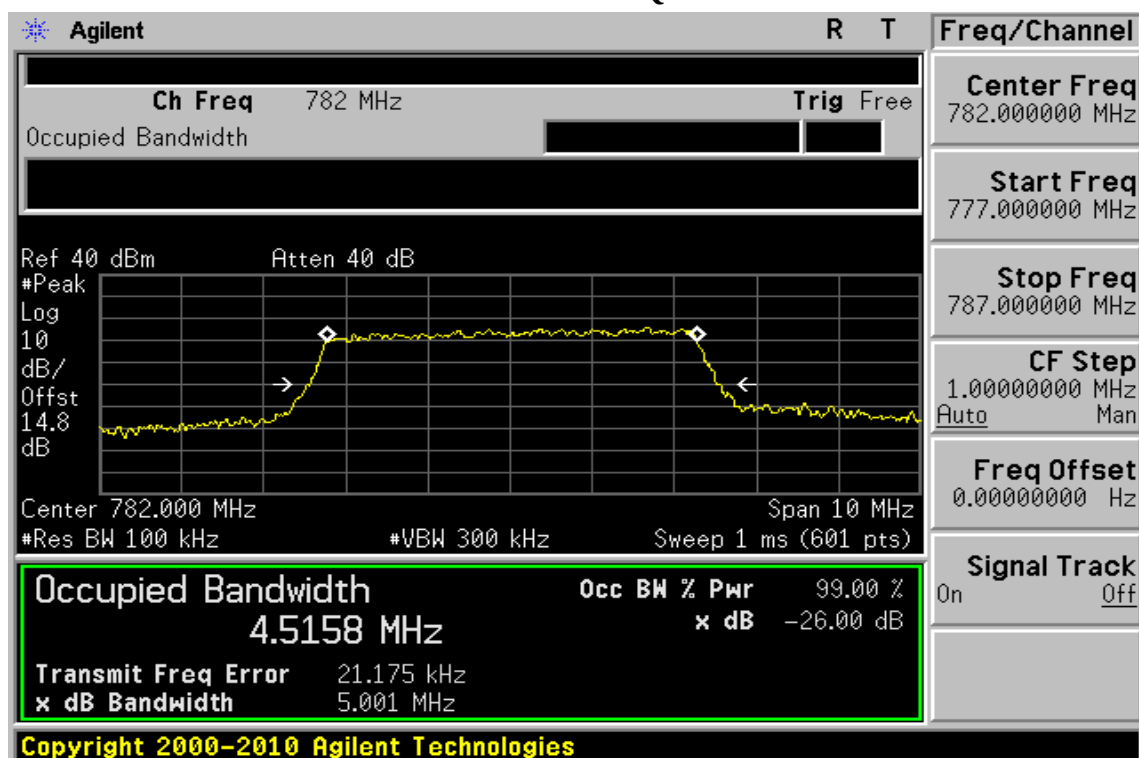
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5MHz BW LTE-Band 13 16QAM Channel Low



5MHz BW LTE-Band 13 16QAM Channel Mid



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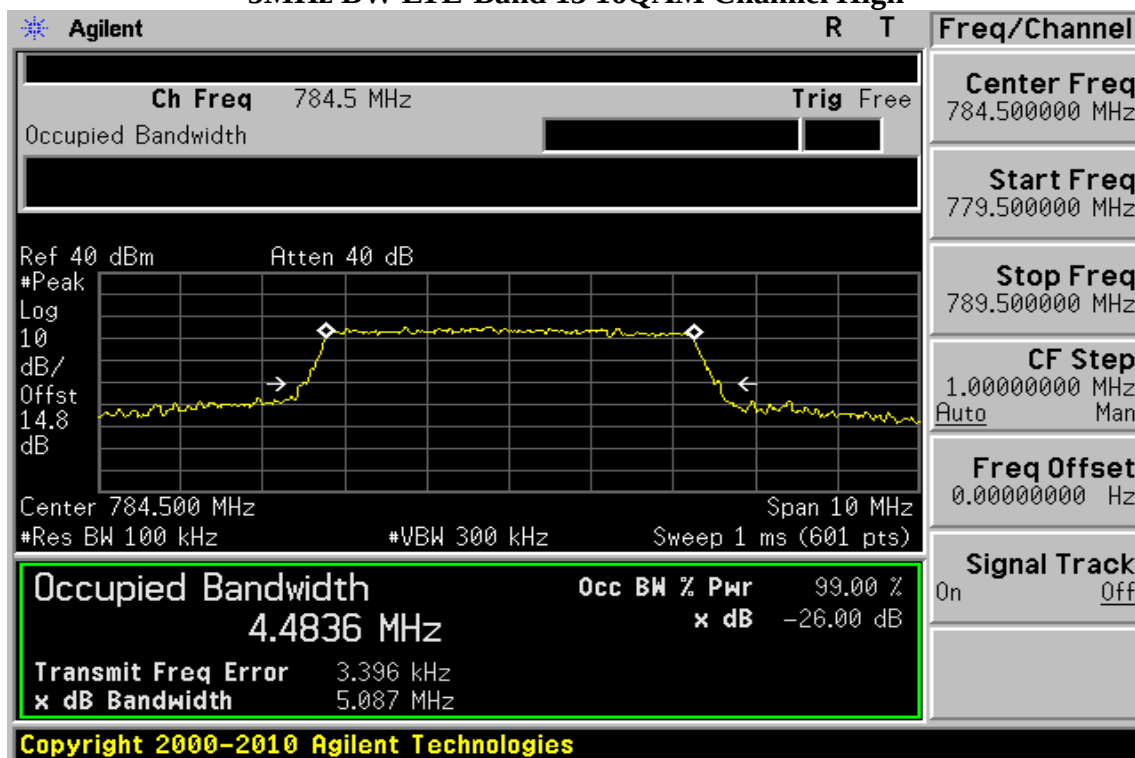
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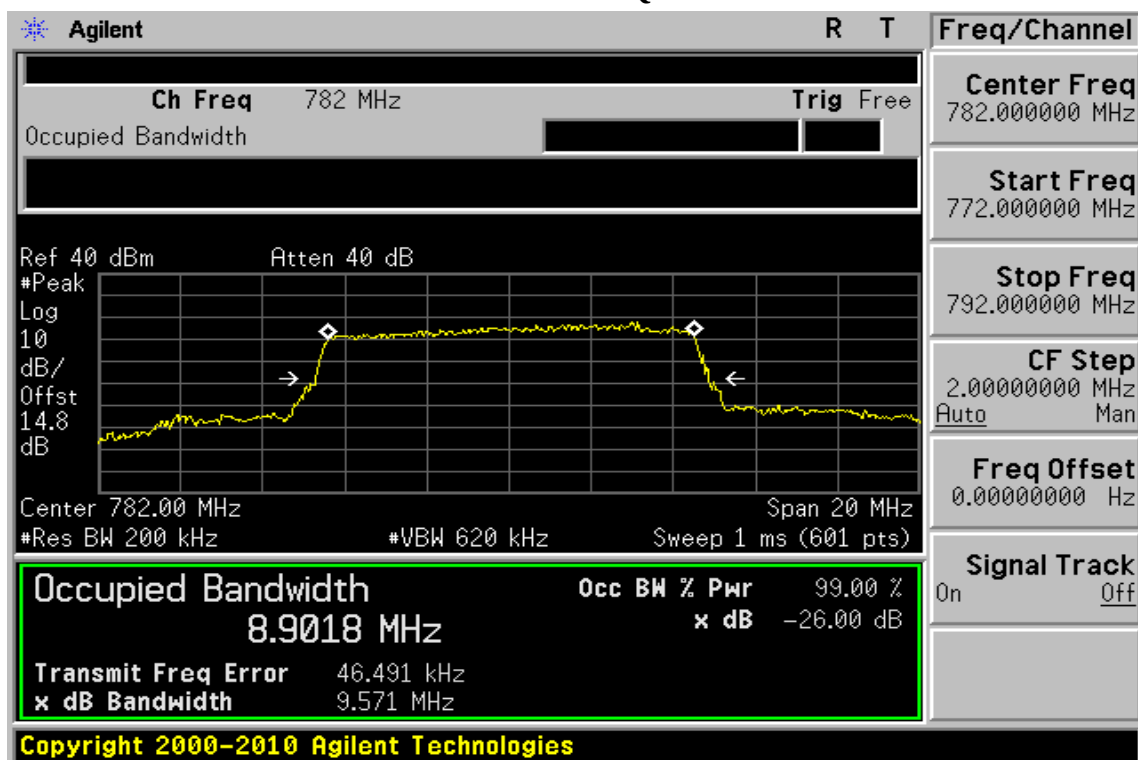
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5MHz BW LTE-Band 13 16QAM Channel High



10MHz BW LTE-Band 13 QPSK Channel Mid



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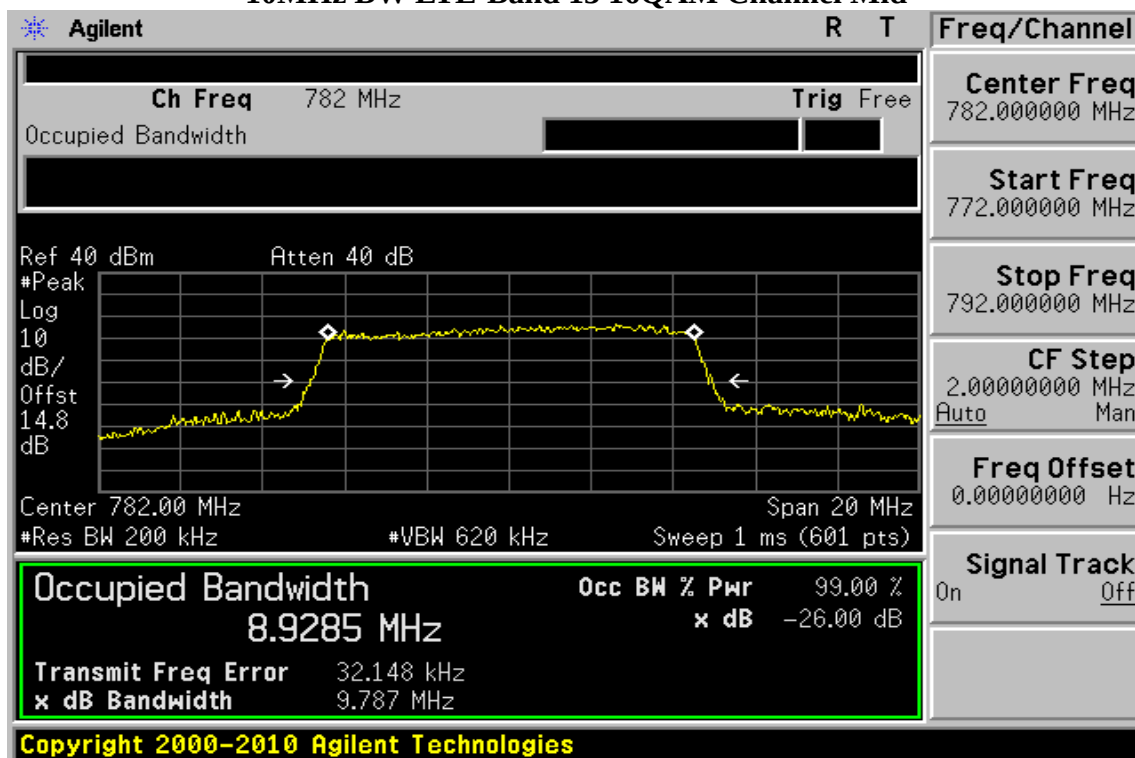
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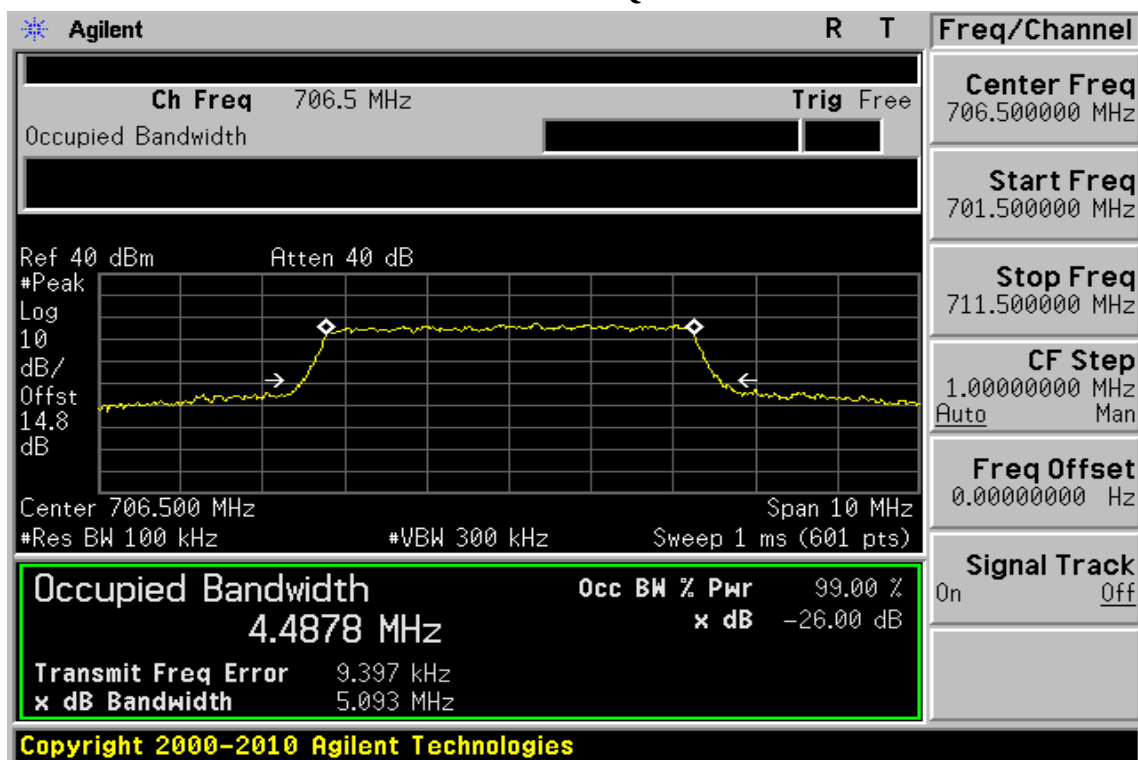
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10MHz BW LTE-Band 13 16QAM Channel Mid



5MHz BW LTE-Band 17 QPSK Channel Low



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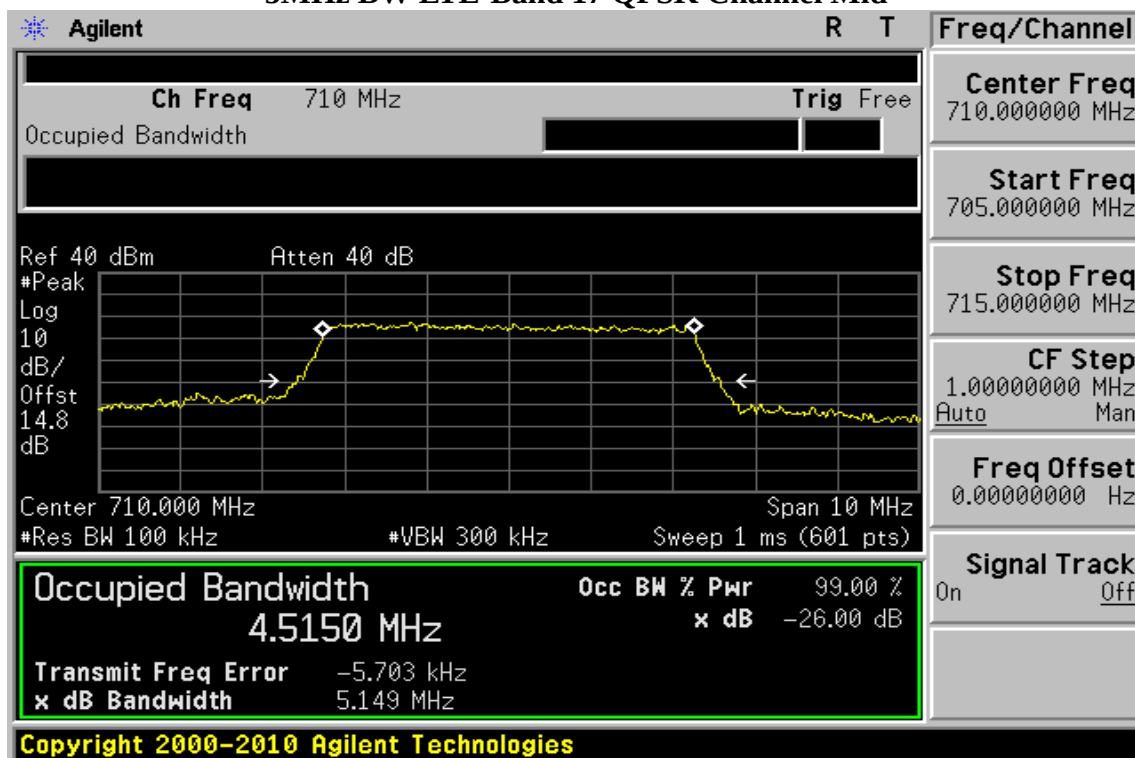
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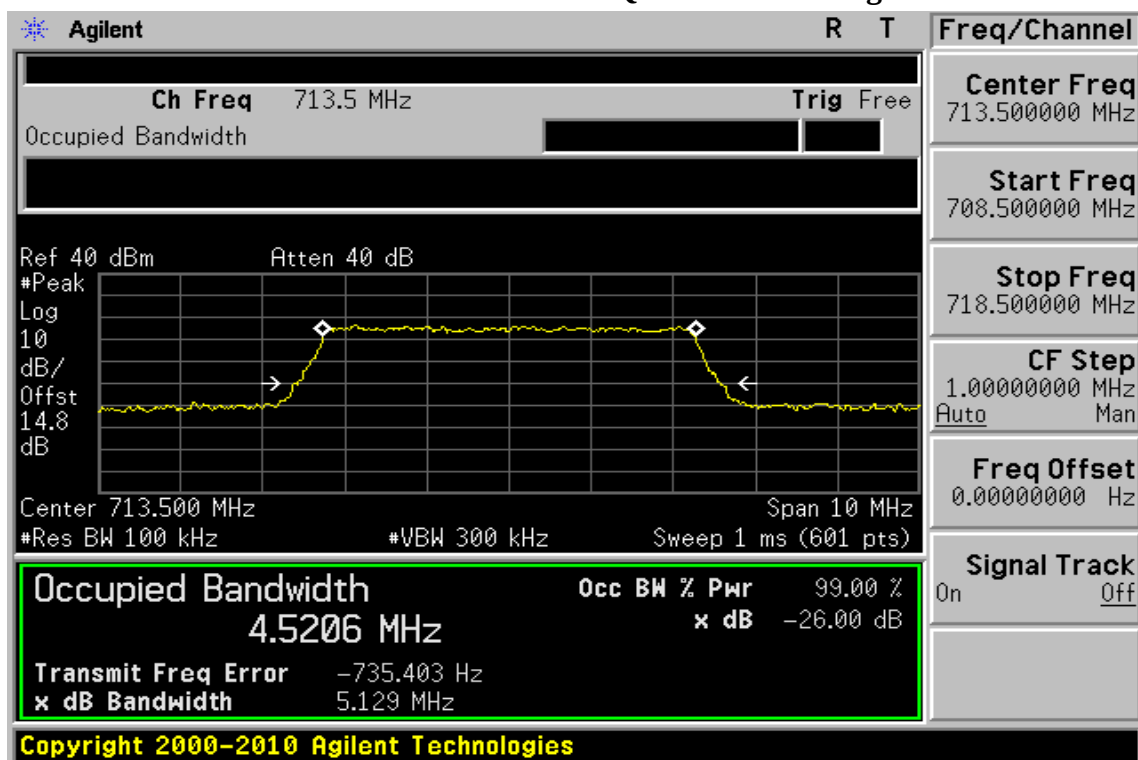
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5MHz BW LTE-Band 17 QPSK Channel Mid



5MHz BW LTE-Band 17 QPSK Channel High



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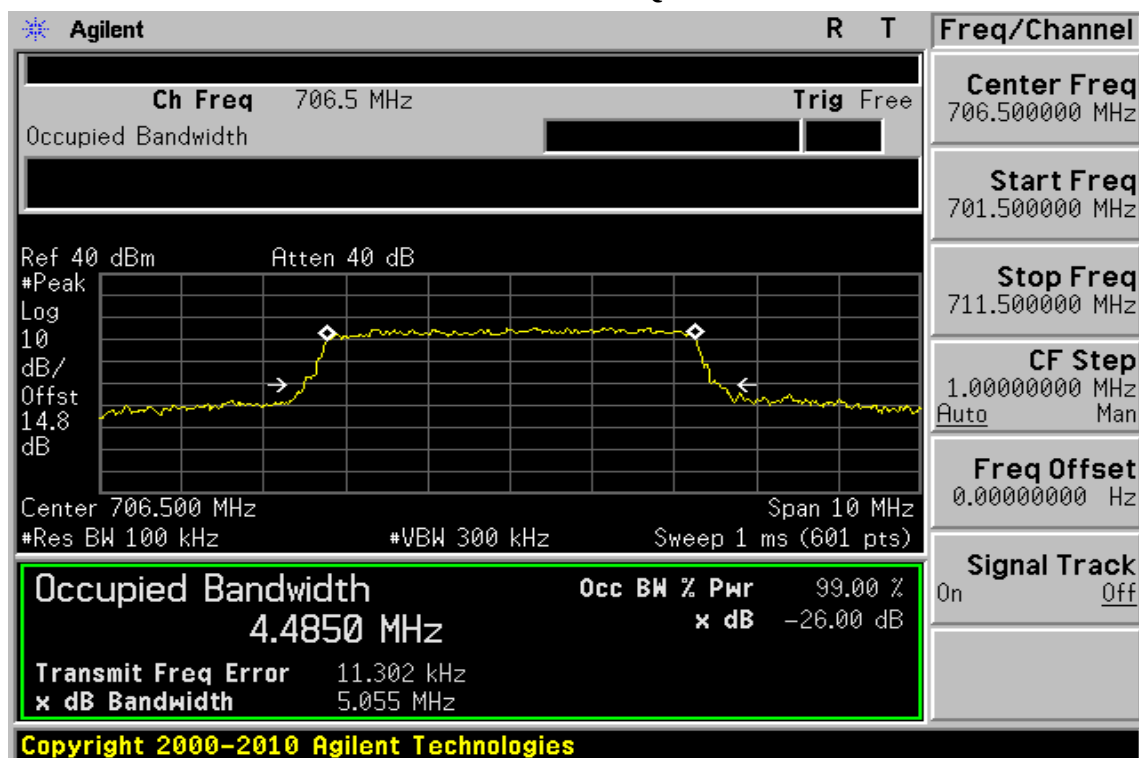
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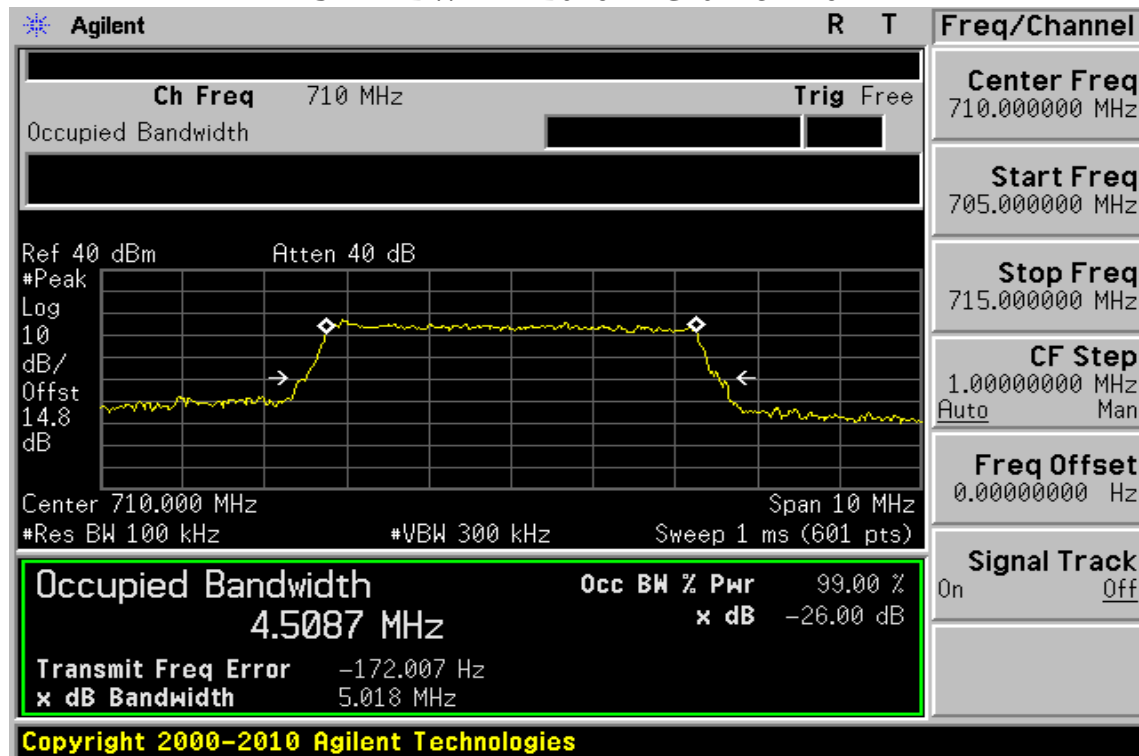
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5MHz BW LTE-Band 17 16QAM Channel Low



5MHz BW LTE-Band 17 Channel Mid



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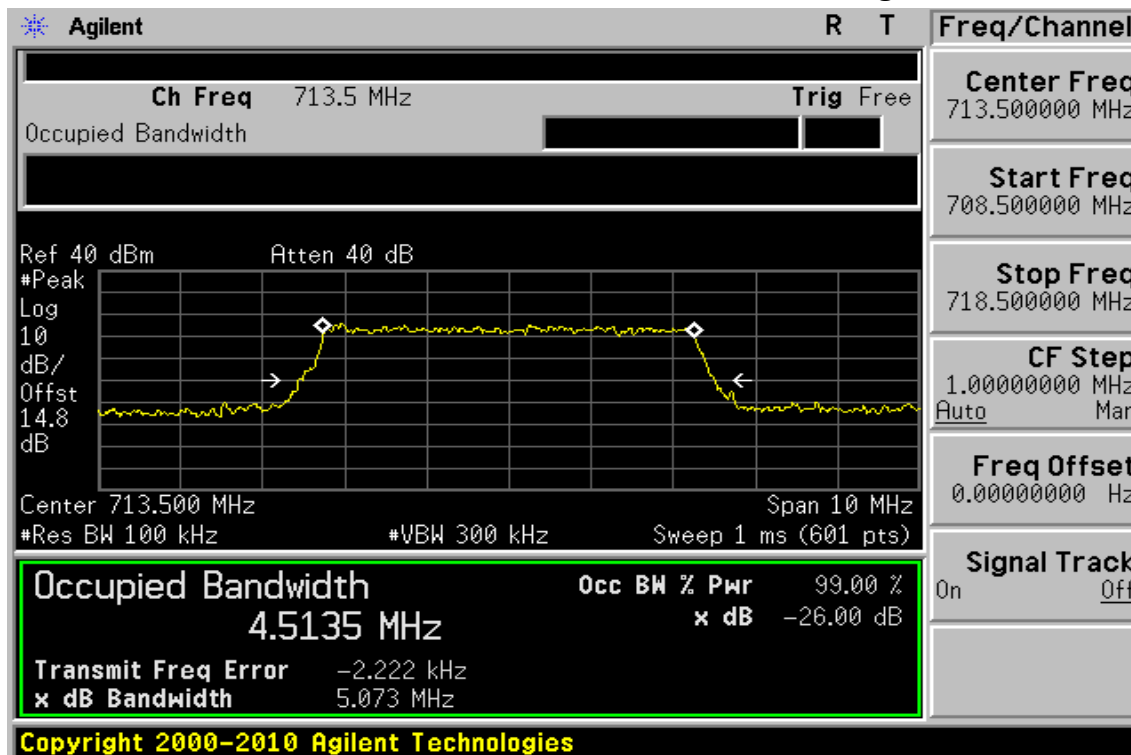
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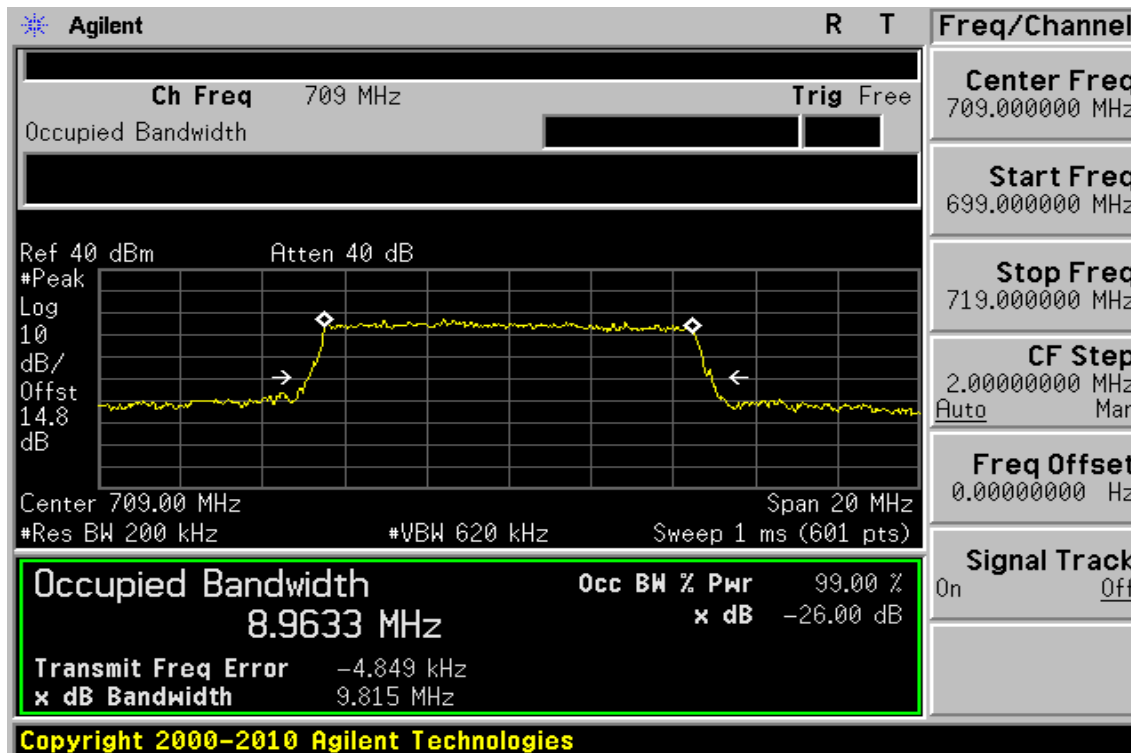
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5MHz BW LTE-Band 17 16QAM Channel High



10MHz BW LTE-Band 17 QPSK Channel Low



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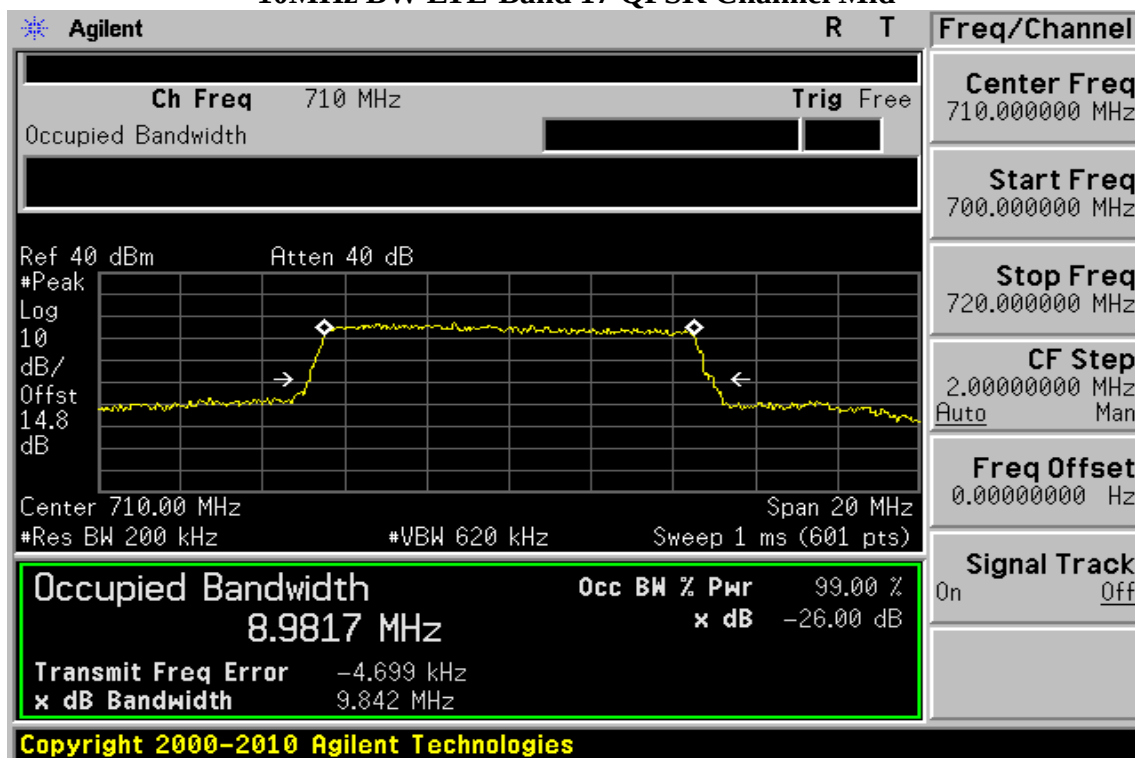
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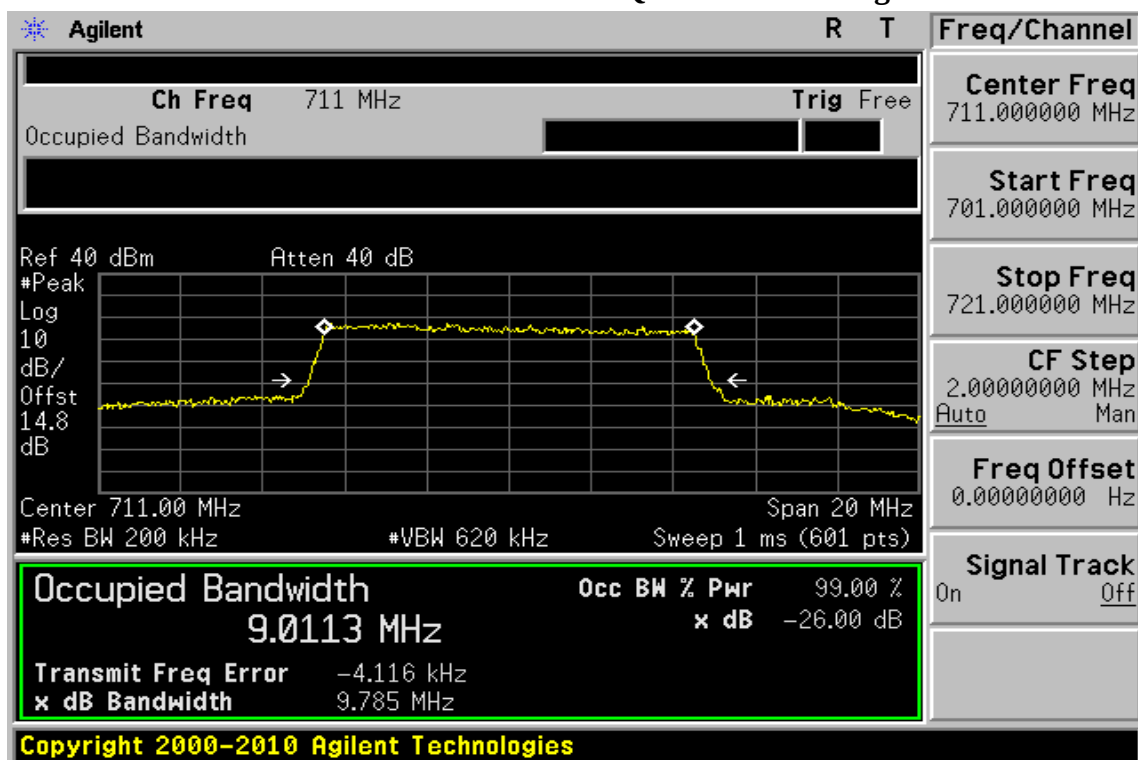
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10MHz BW LTE-Band 17 QPSK Channel Mid



10MHz BW LTE-Band 17 QPSK Channel High



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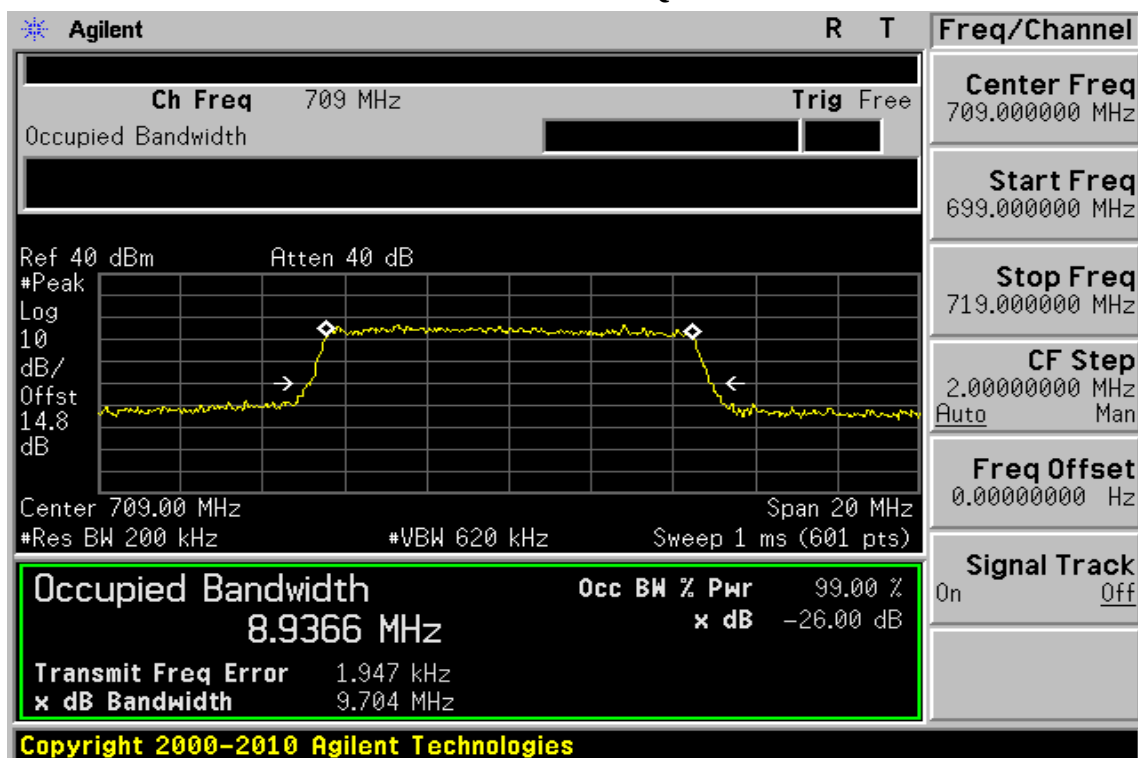
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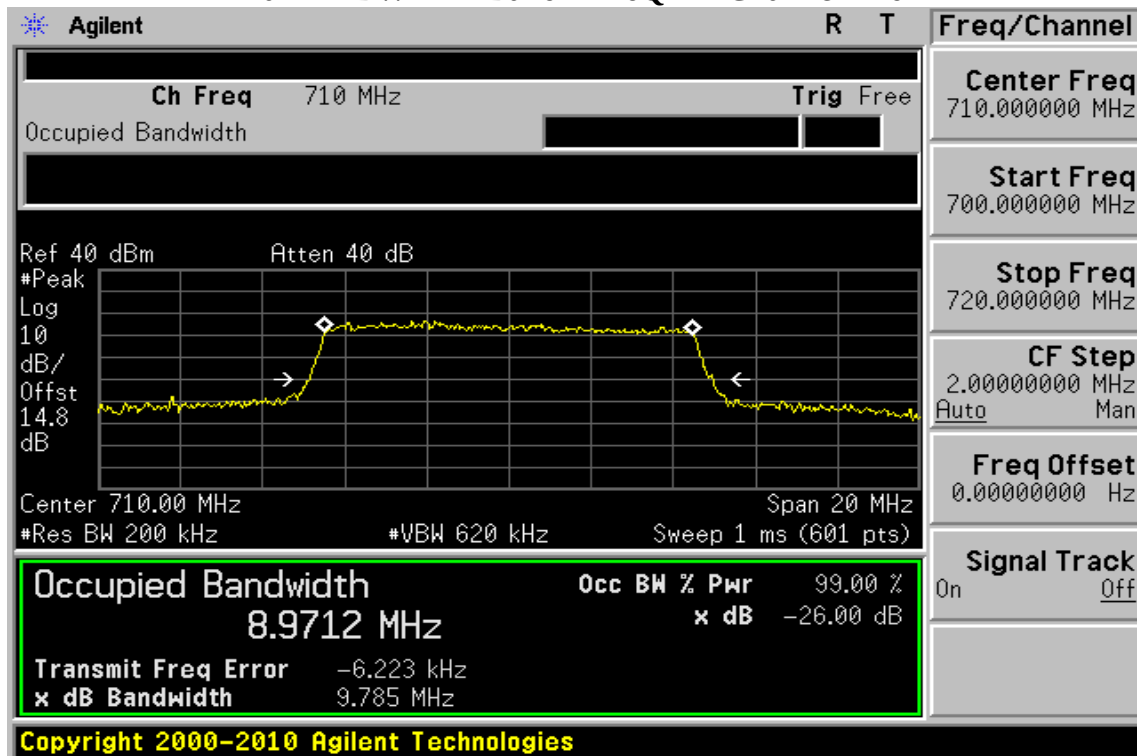
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10MHz BW LTE-Band 17 16QAM Channel Low



10MHz BW LTE-Band 17 16QAM Channel Mid



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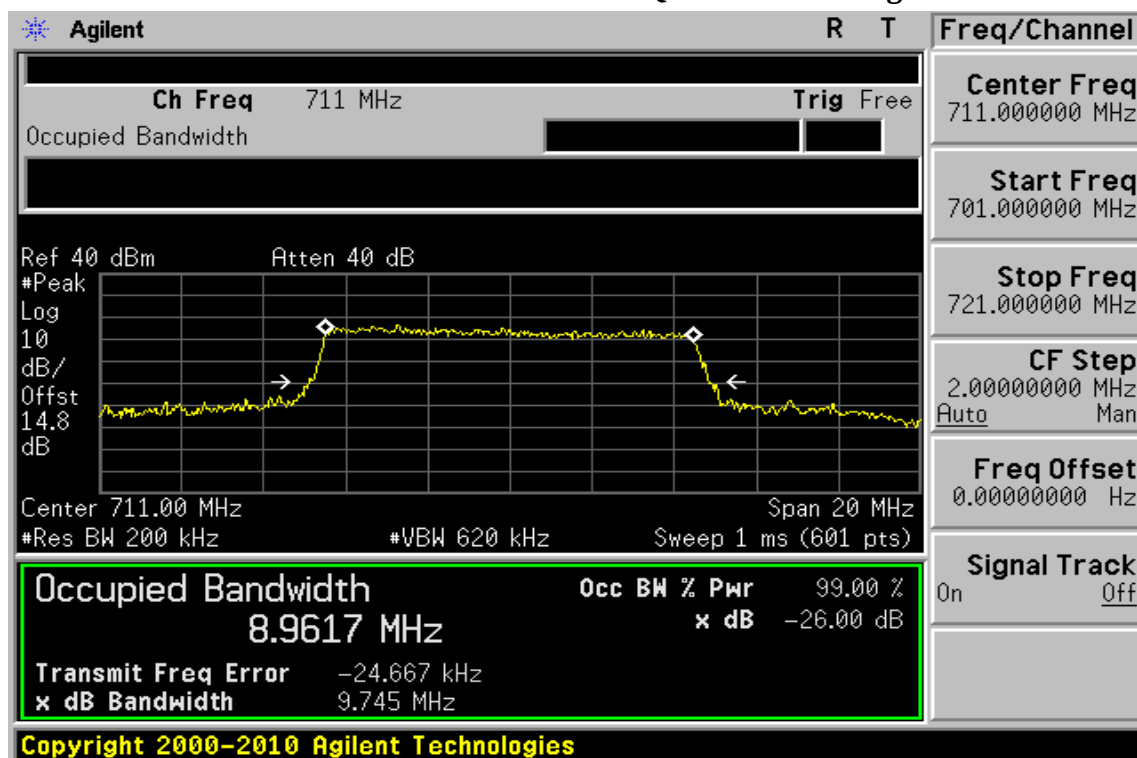
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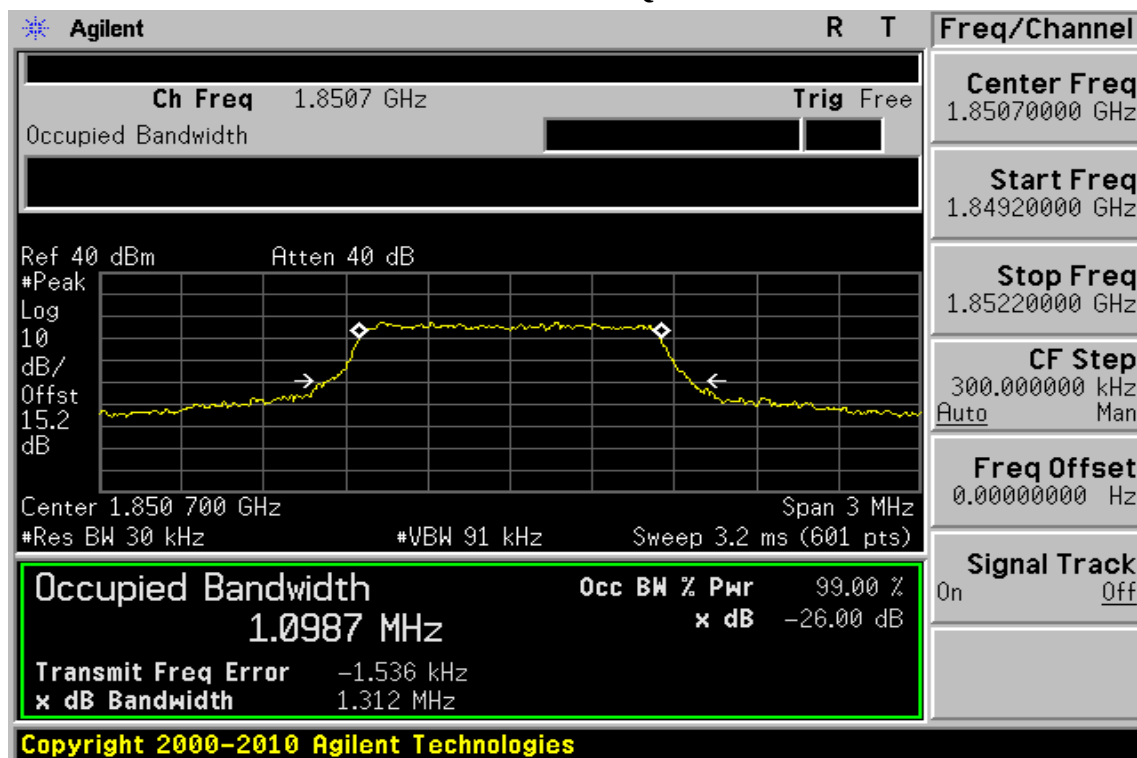
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10MHz BW LTE-Band 17 16QAM Channel High



1.4MHz BW LTE-Band 25 QPSK Channel Low



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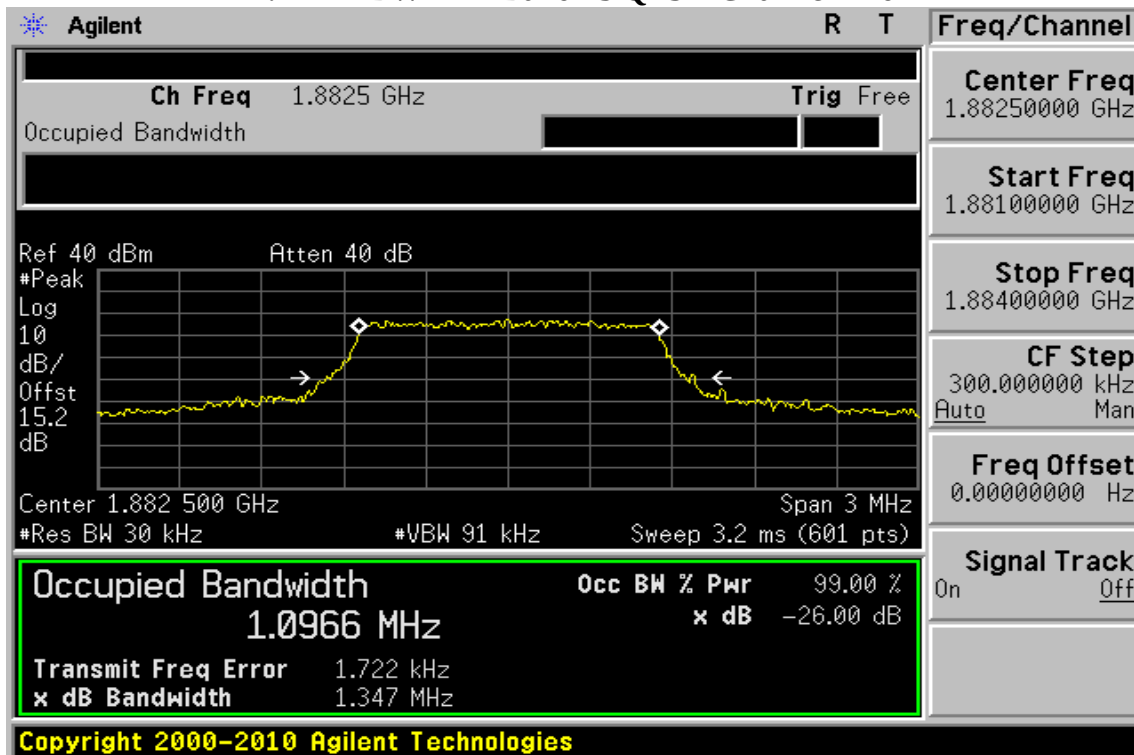
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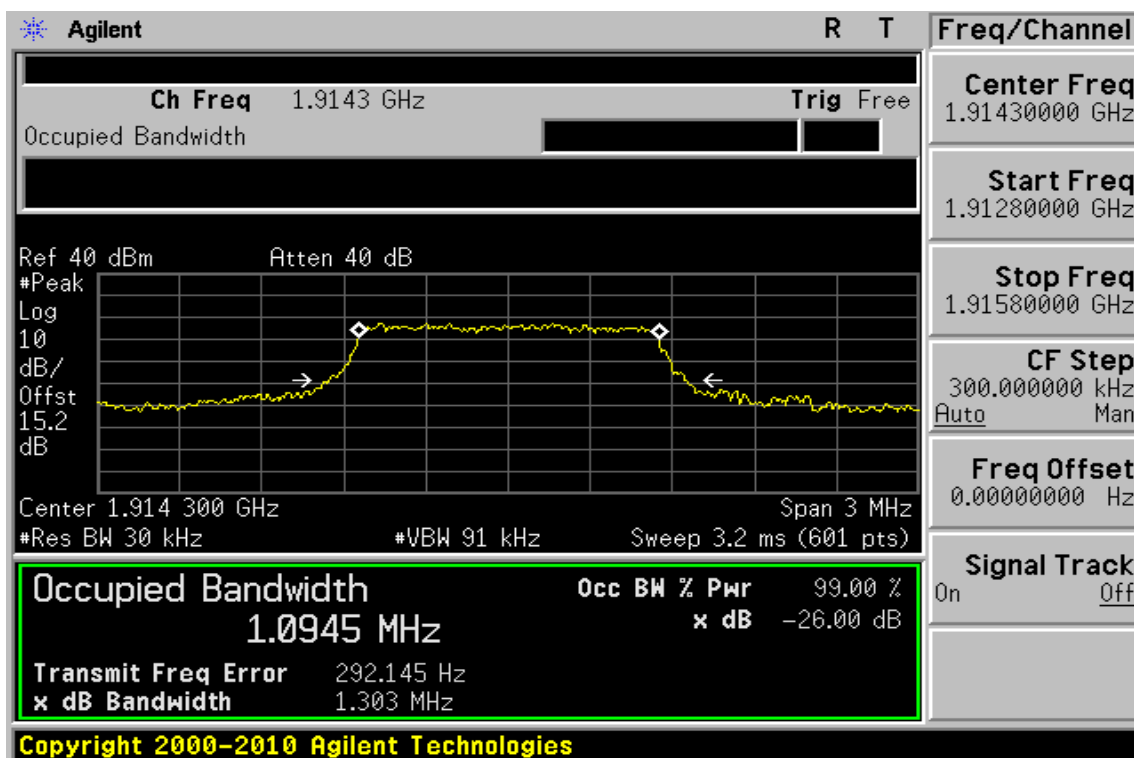
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1.4MHz BW LTE-Band 25 QPSK Channel Mid



1.4MHz BW LTE-Band 25 QPSK Channel High



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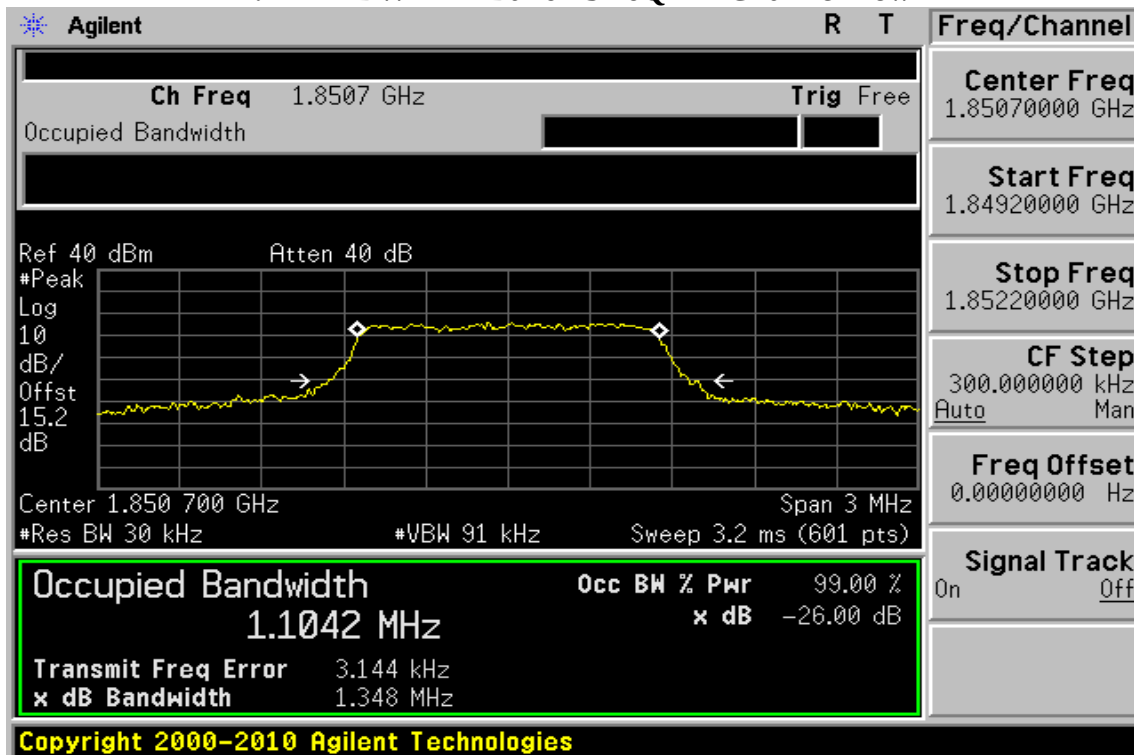
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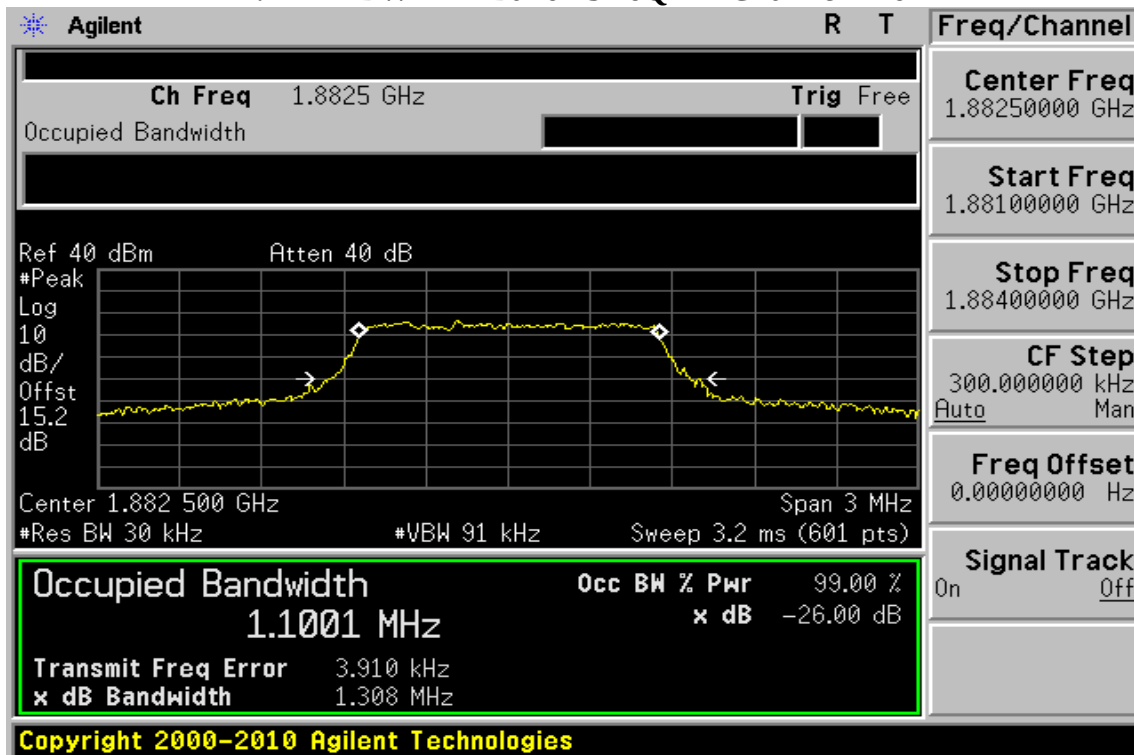
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1.4MHz BW LTE-Band 25 16QAM Channel Low



1.4MHz BW LTE-Band 25 16QAM Channel Mid



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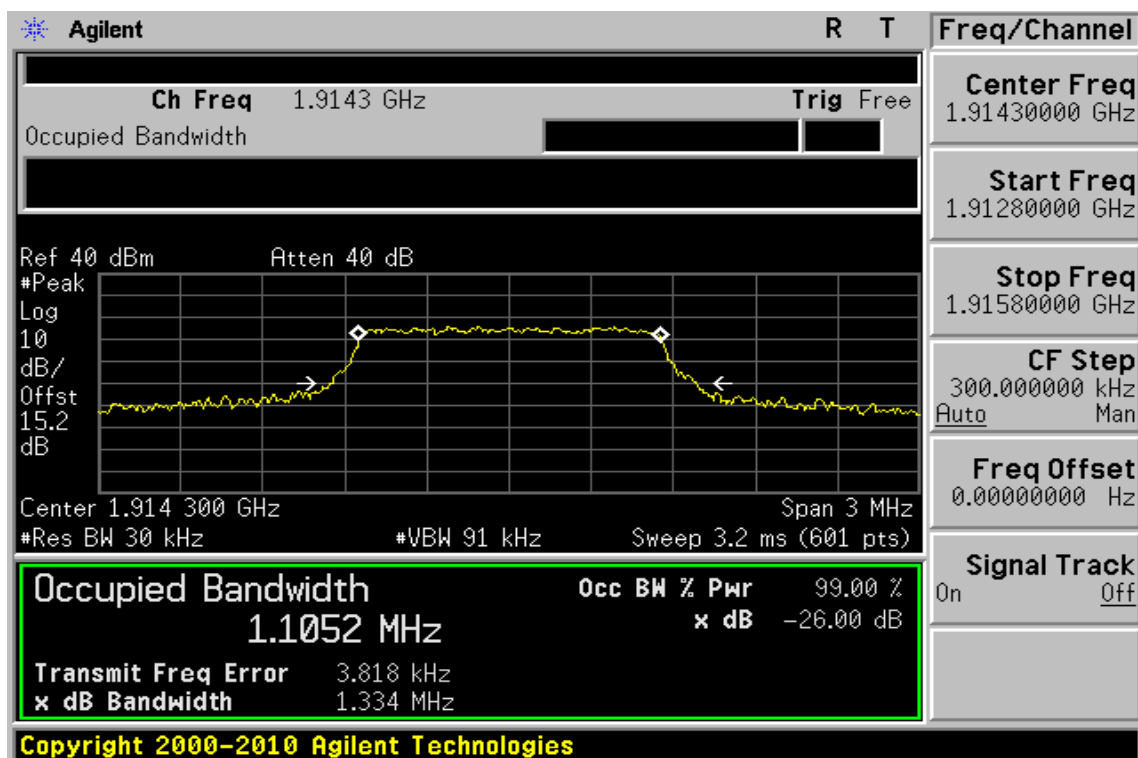
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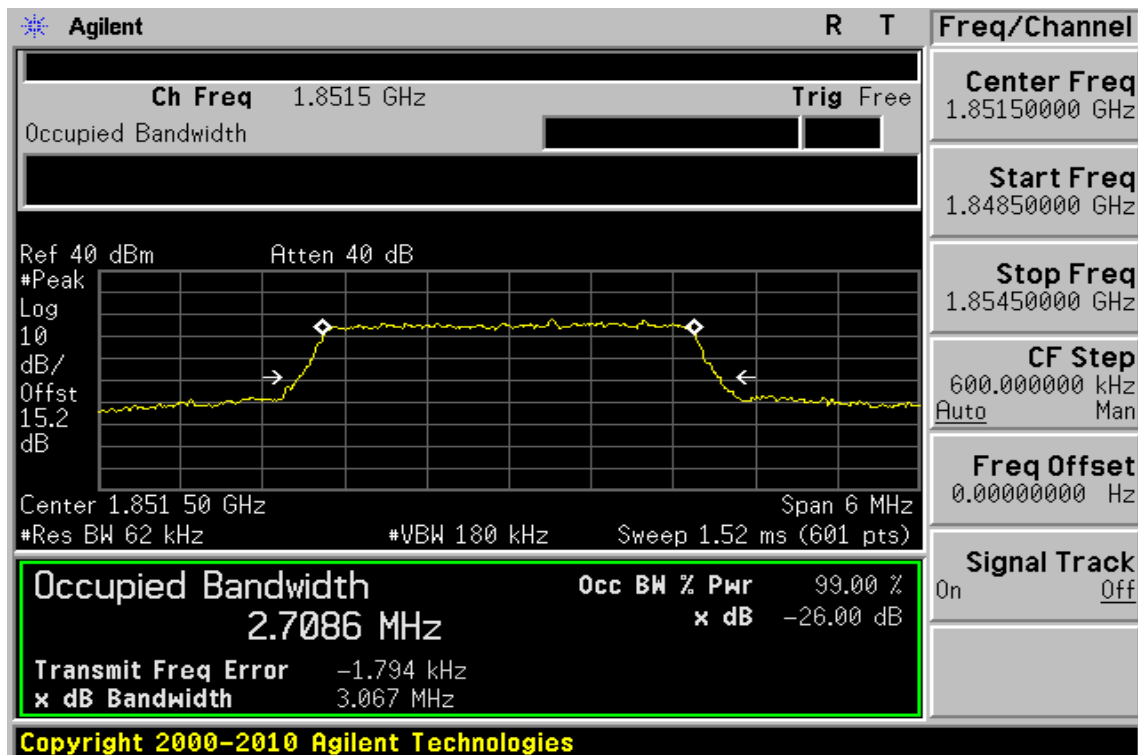
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1.4MHz BW LTE-Band 25 16QAM Channel High



3MHz BW LTE-Band 25 QPSK Channel Low



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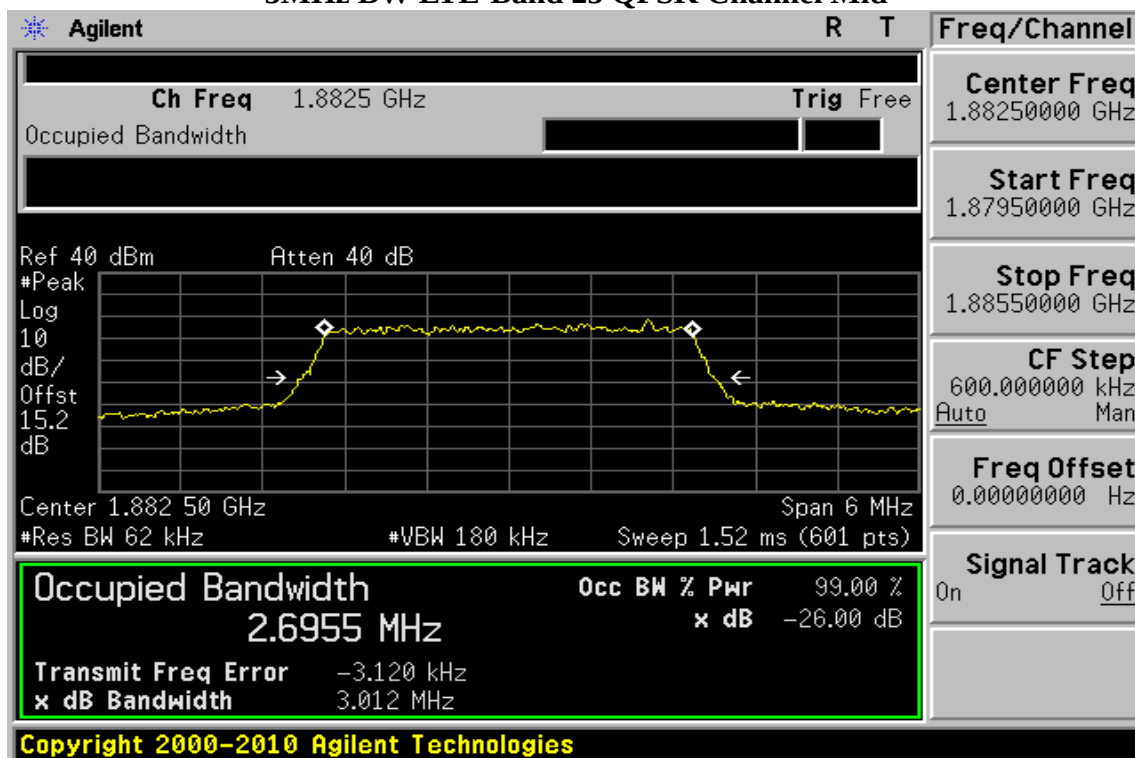
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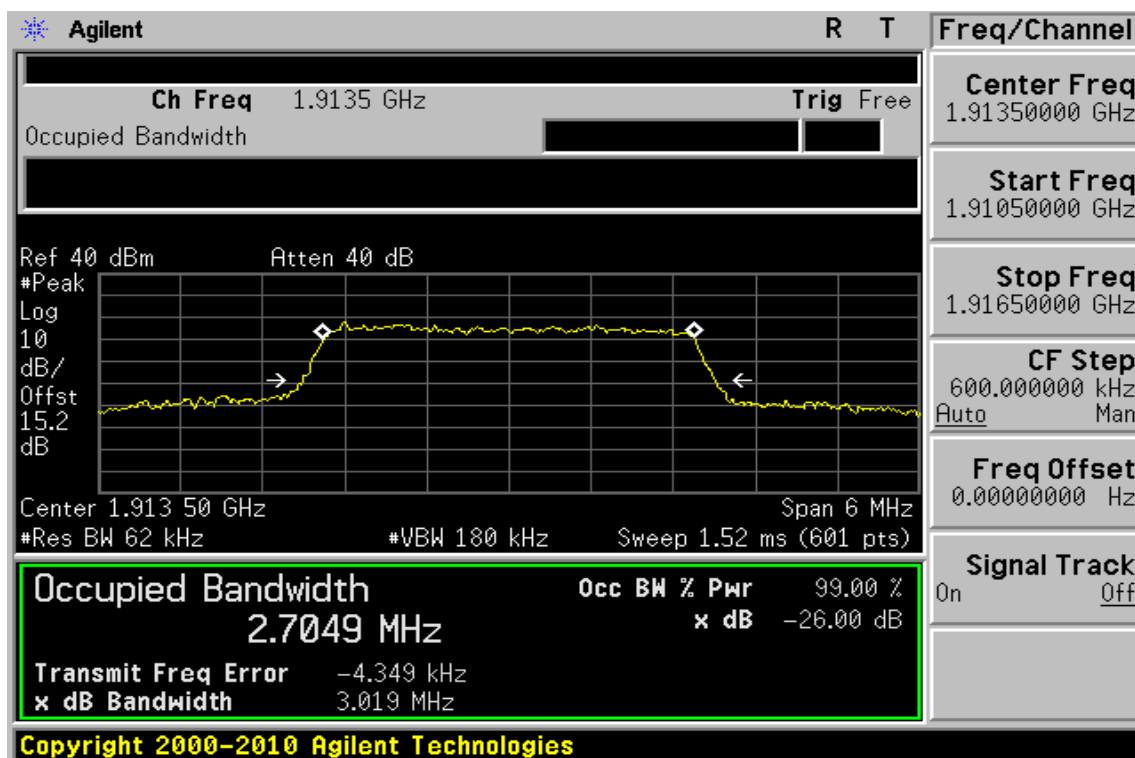
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3MHz BW LTE-Band 25 QPSK Channel Mid



3MHz BW LTE-Band 25 QPSK Channel High



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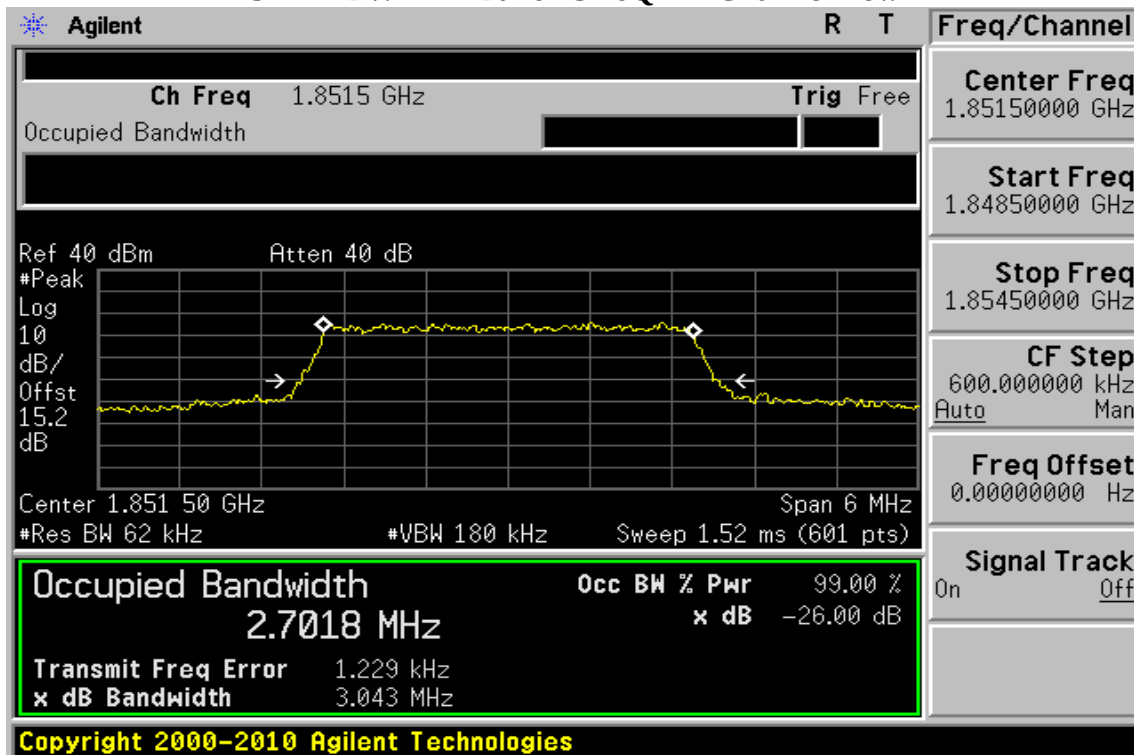
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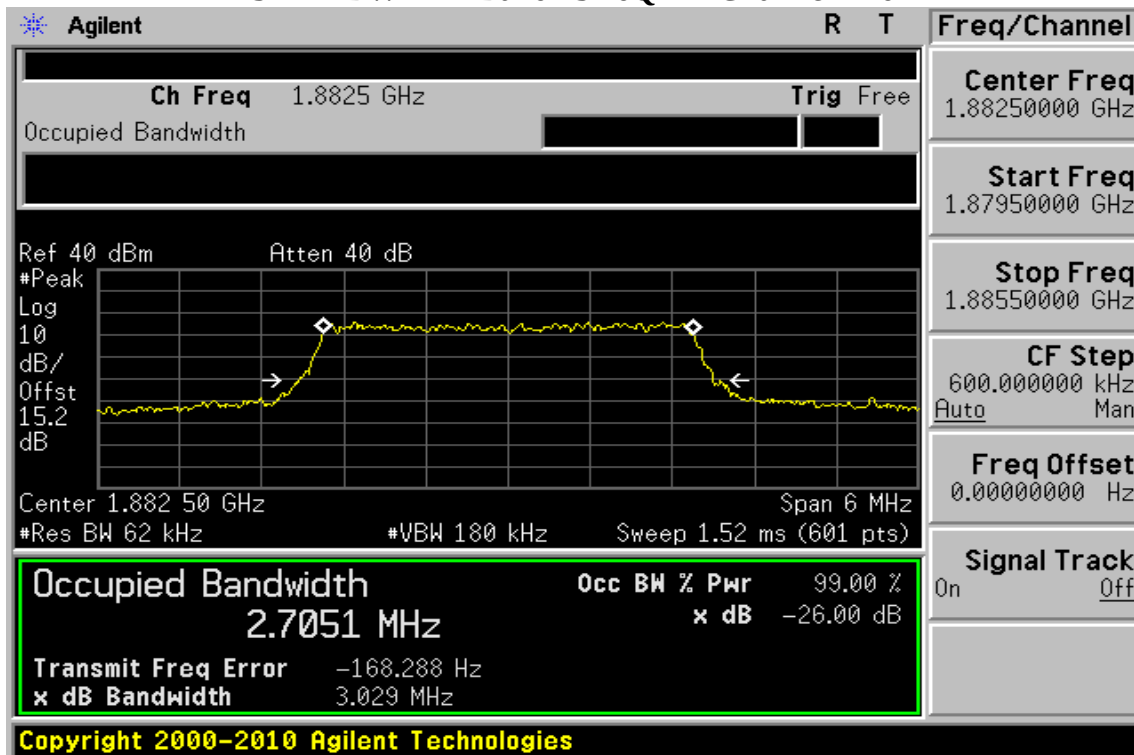
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3MHz BW LTE-Band 25 16QAM Channel Low



3MHz BW LTE-Band 25 16QAM Channel Mid



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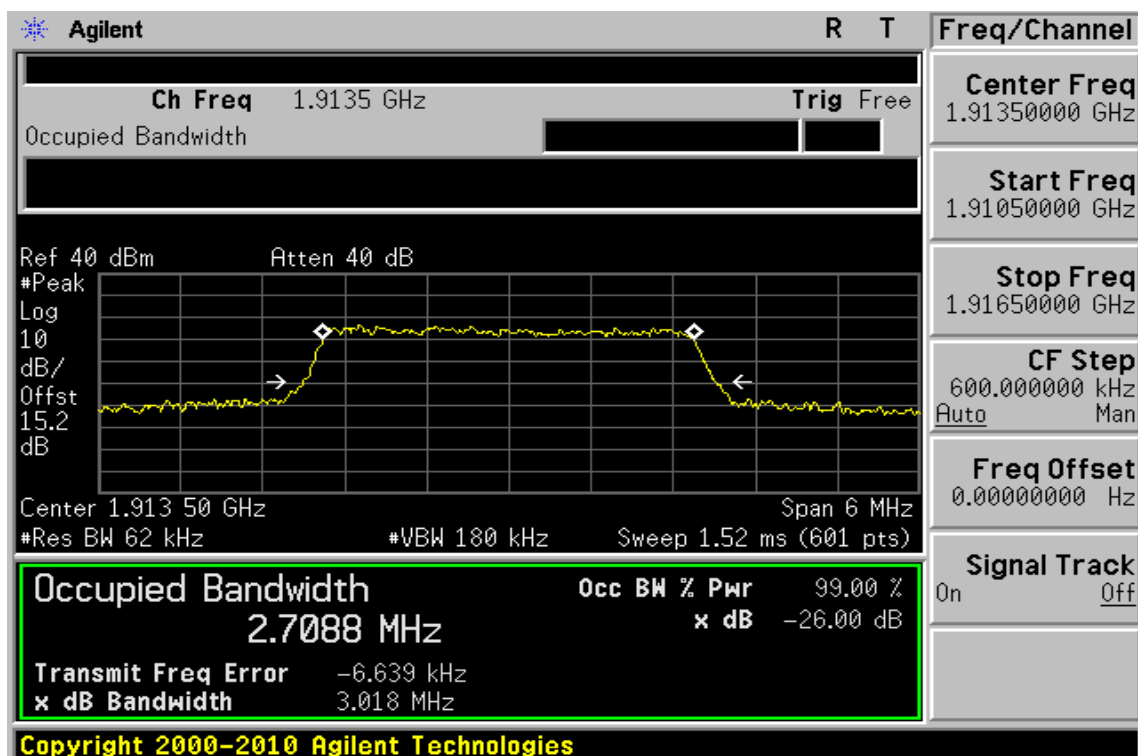
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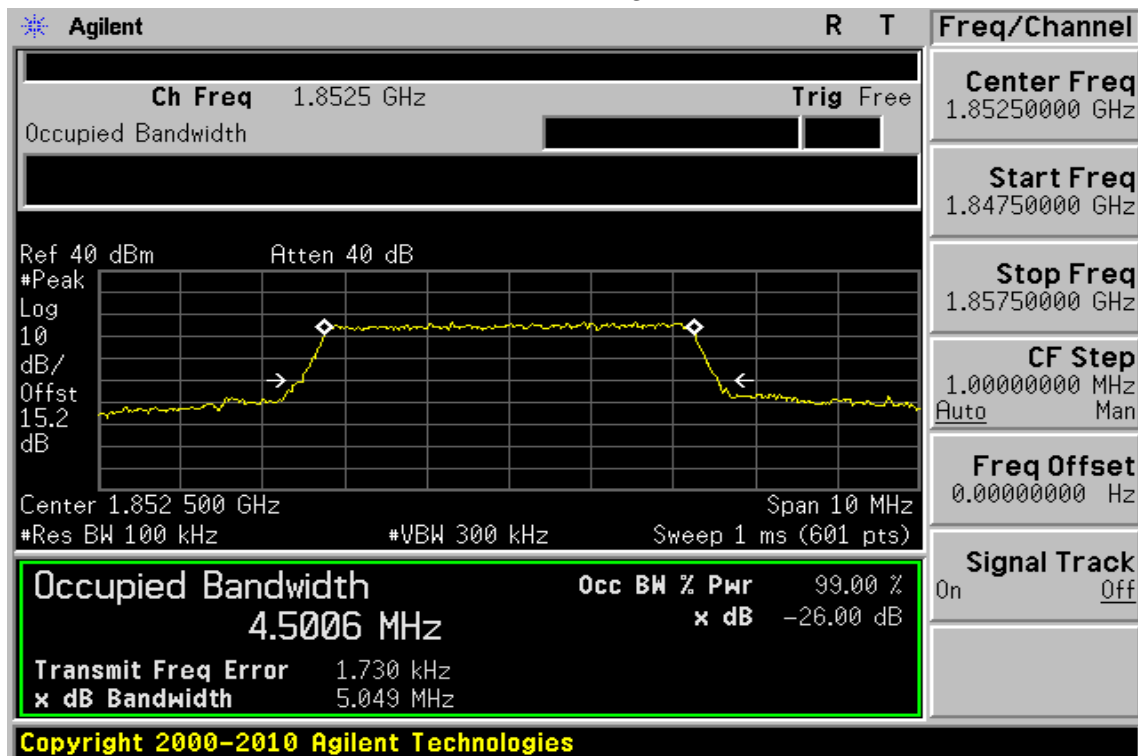
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3MHz BW LTE-Band 25 16QAM Channel High



5MHz BW LTE-Band 25 QPSK Channel Low



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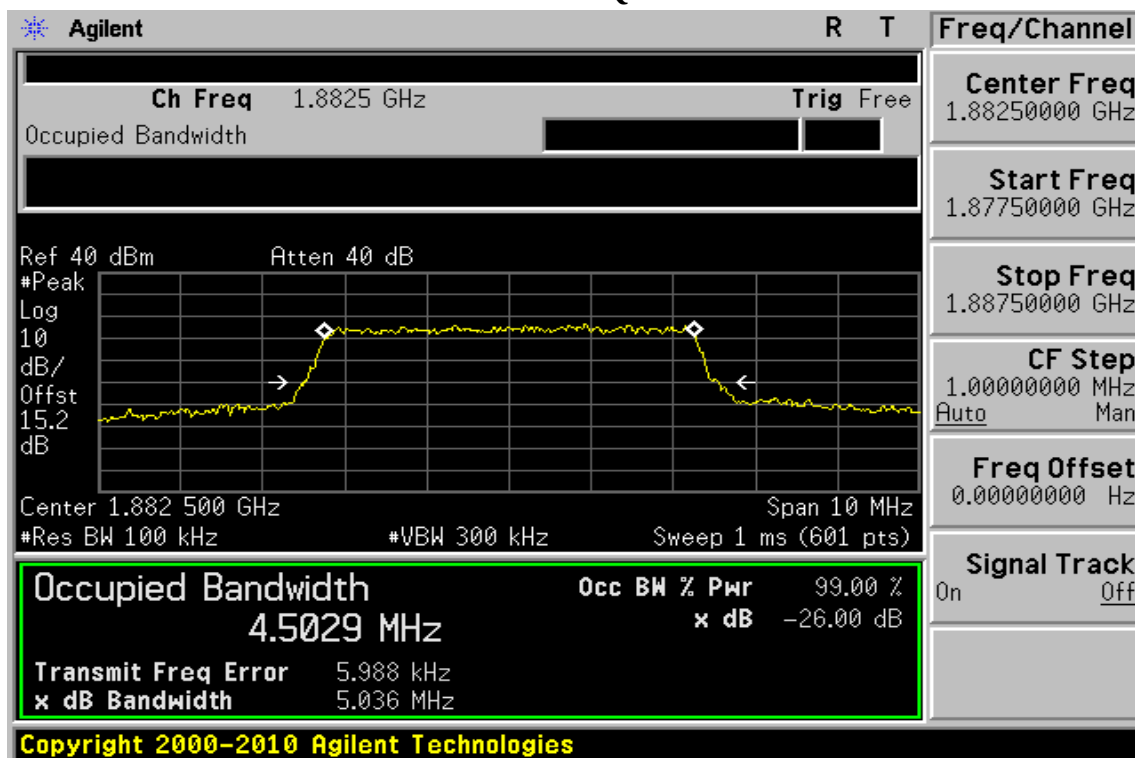
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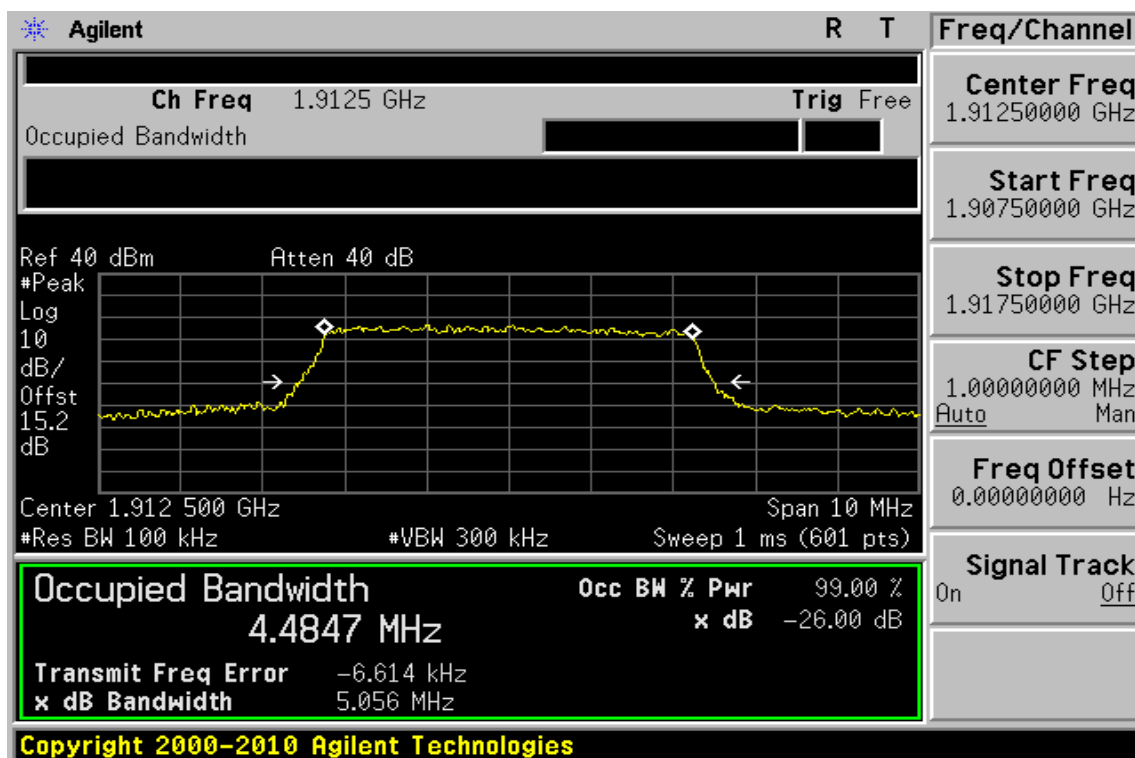
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5MHz BW LTE-Band 25 QPSK Channel Mid



5MHz BW LTE-Band 25 QPSK Channel High



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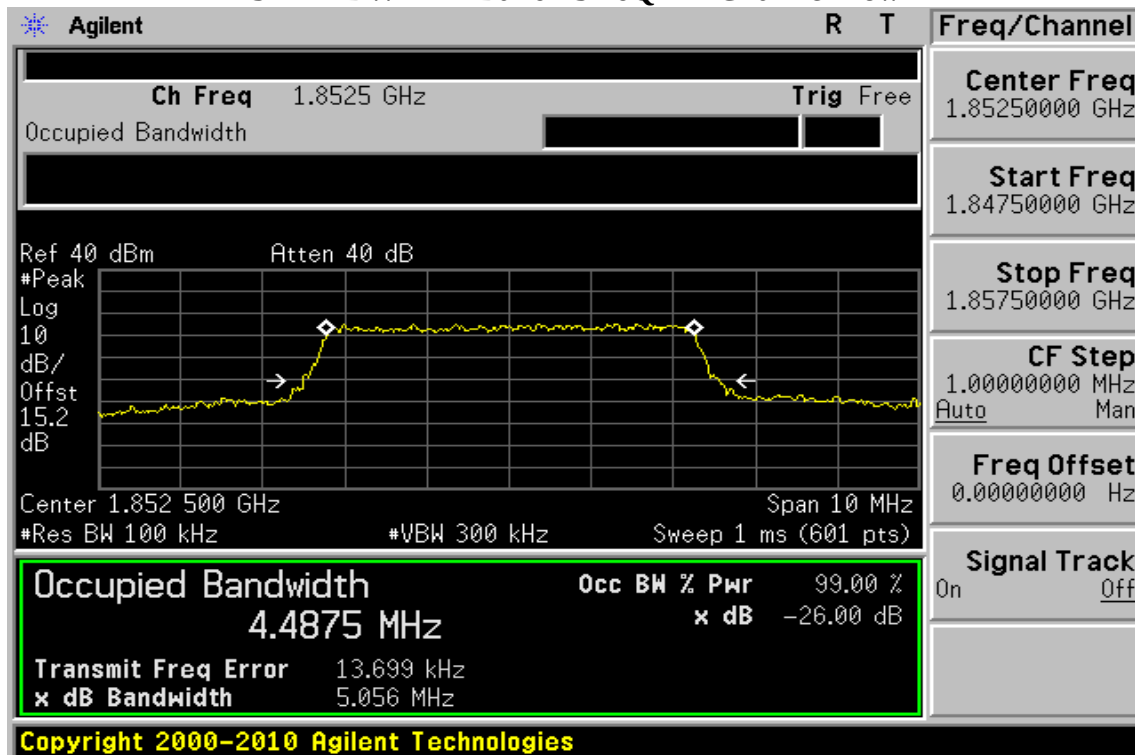
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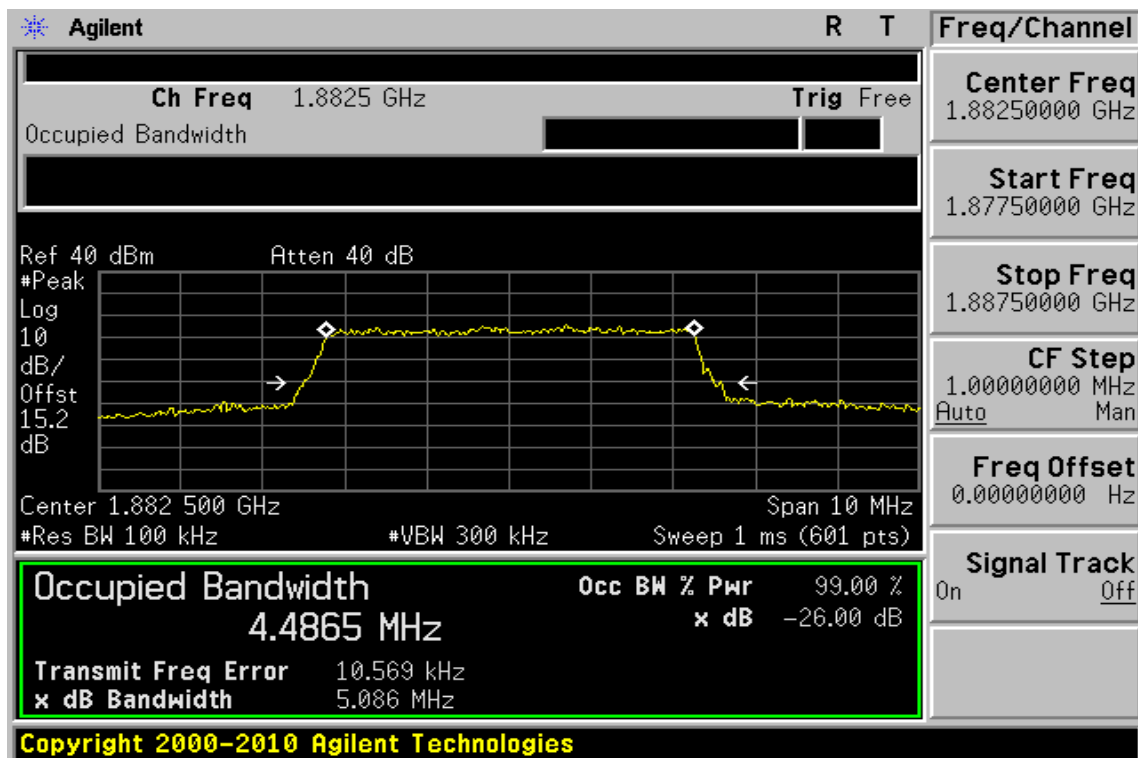
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5MHz BW LTE-Band 25 16QAM Channel Low



5MHz BW LTE-Band 25 16QAM Channel Mid



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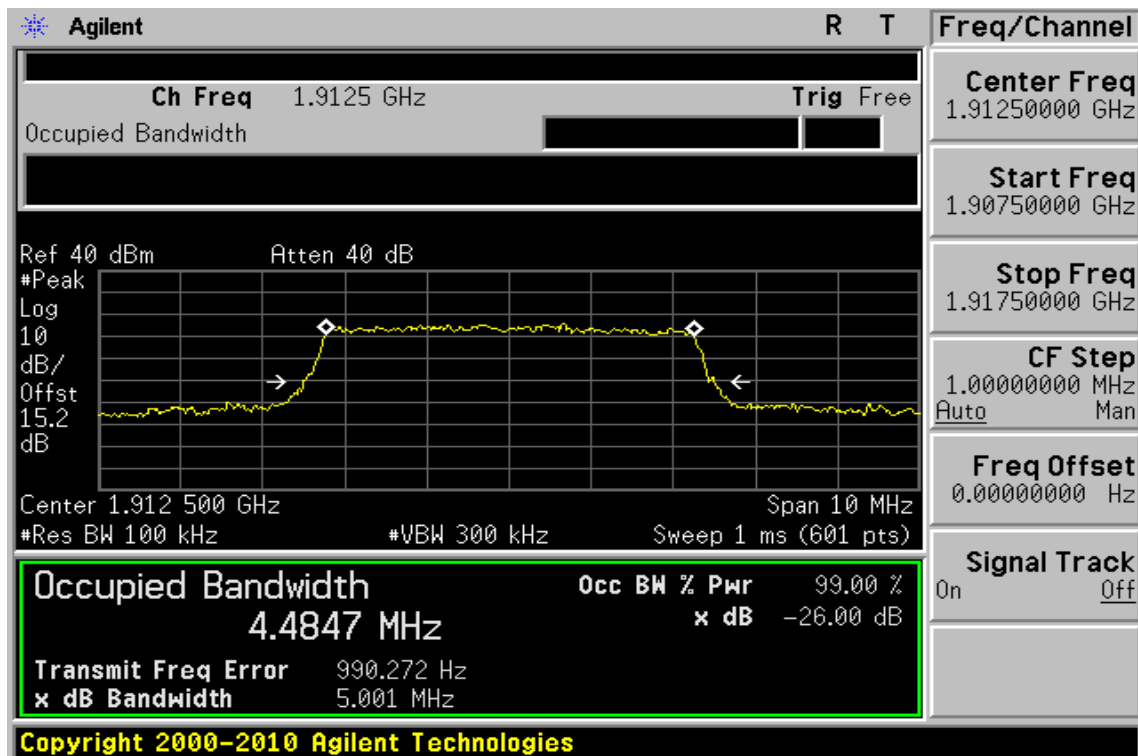
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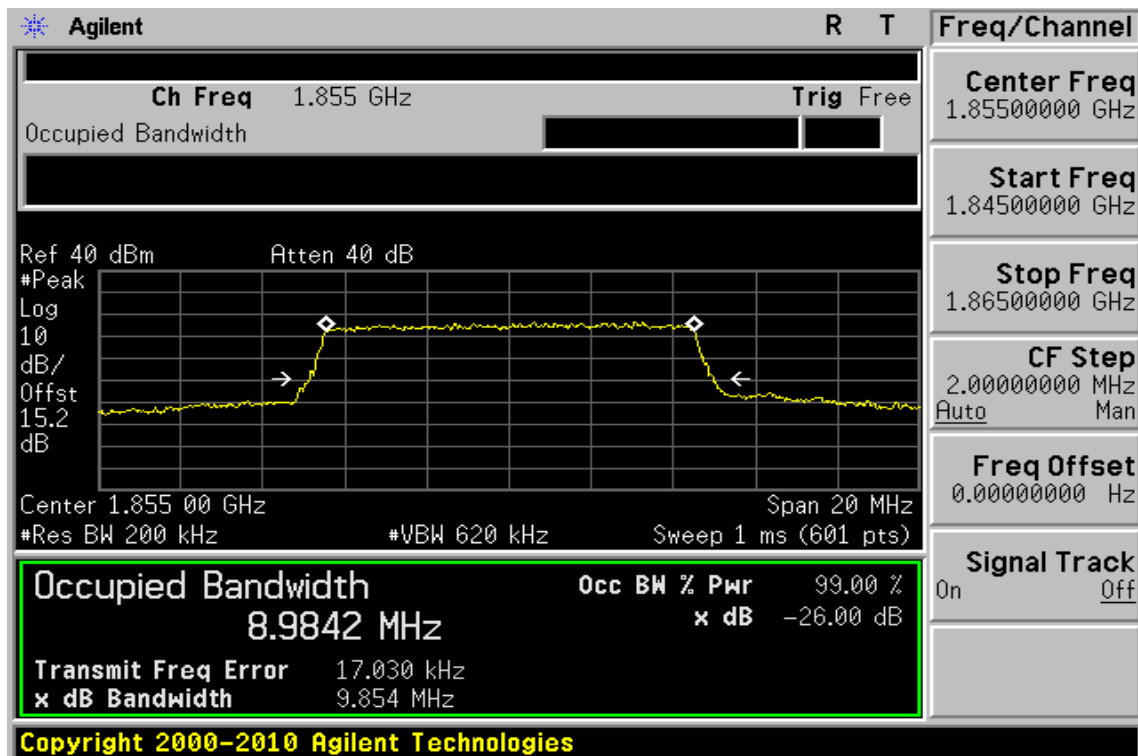
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5MHz BW LTE-Band 25 16QAM Channel High



10MHz BW LTE-Band 25 QPSK Channel Low



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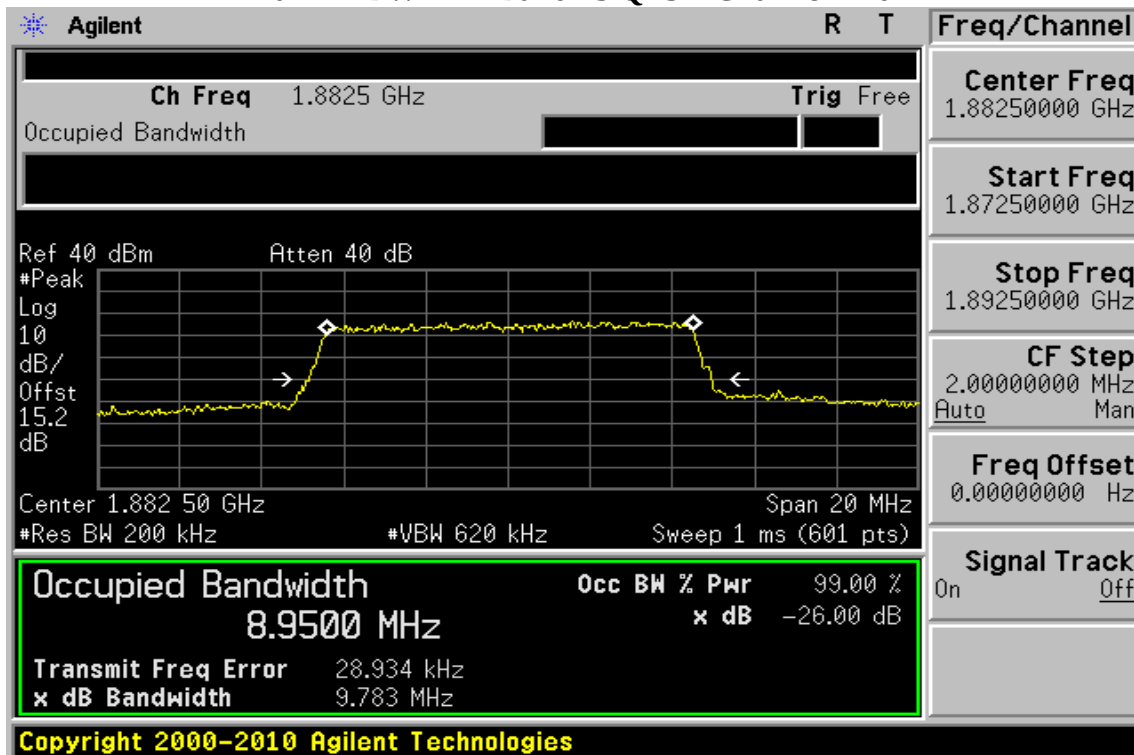
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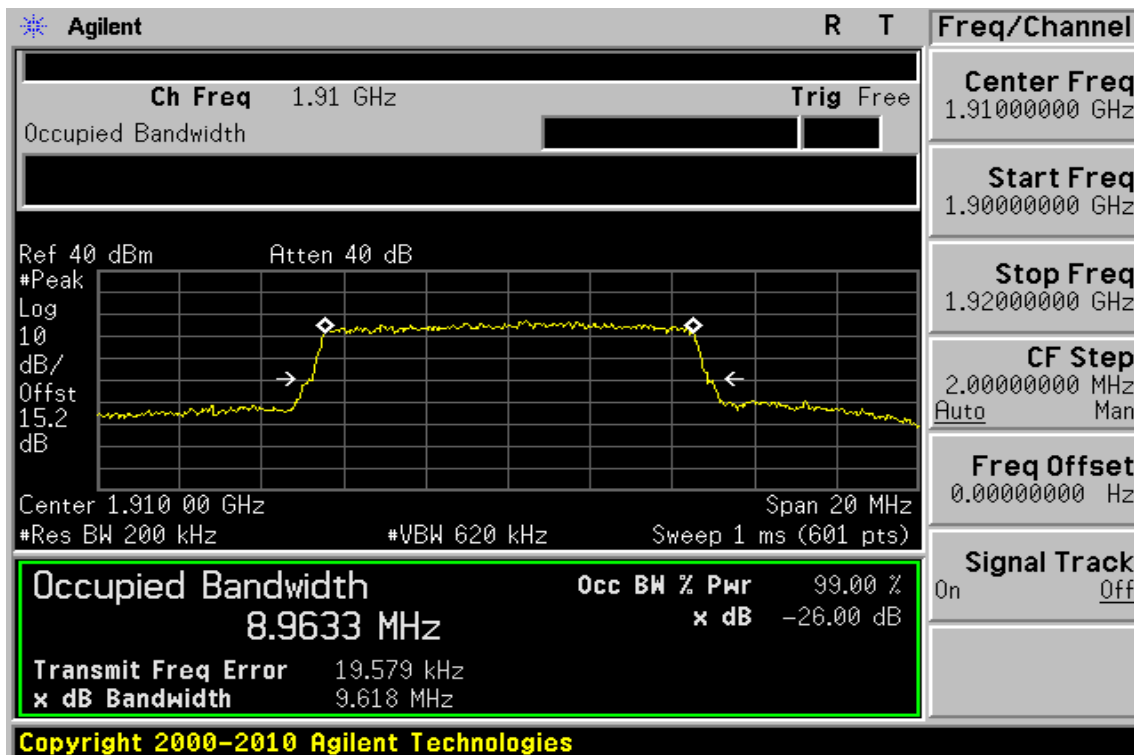
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10MHz BW LTE-Band 25 QPSK Channel Mid



10MHz BW LTE-Band 25 QPSK Channel High



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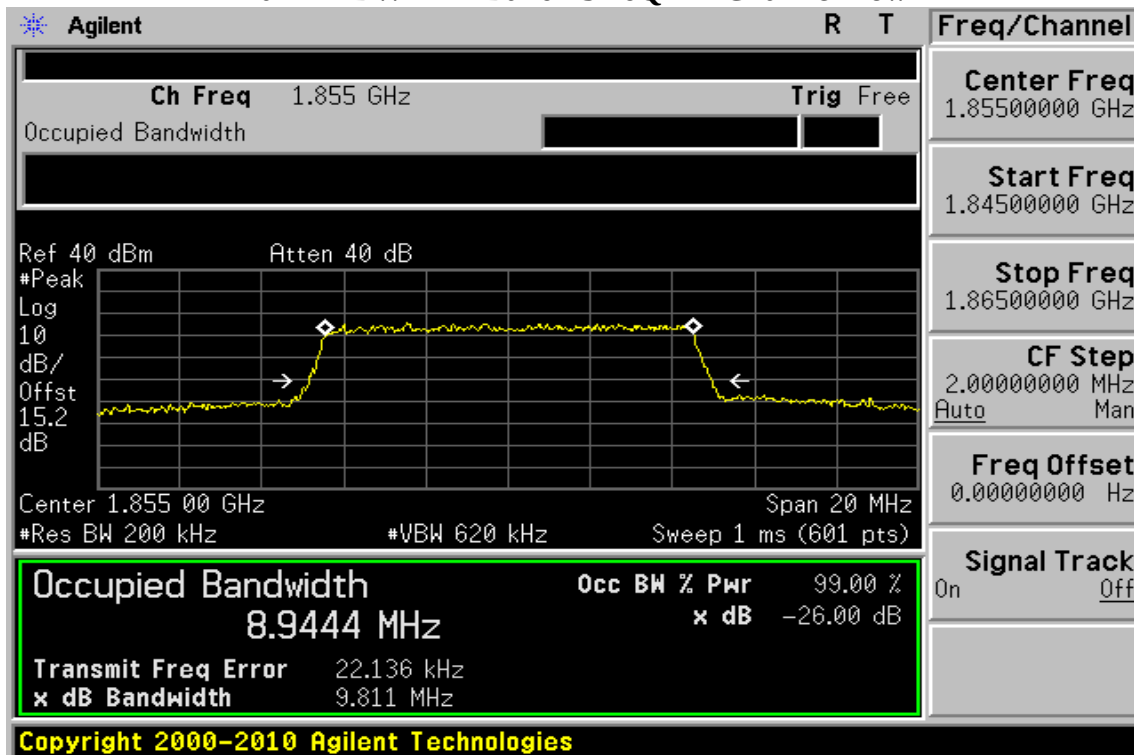
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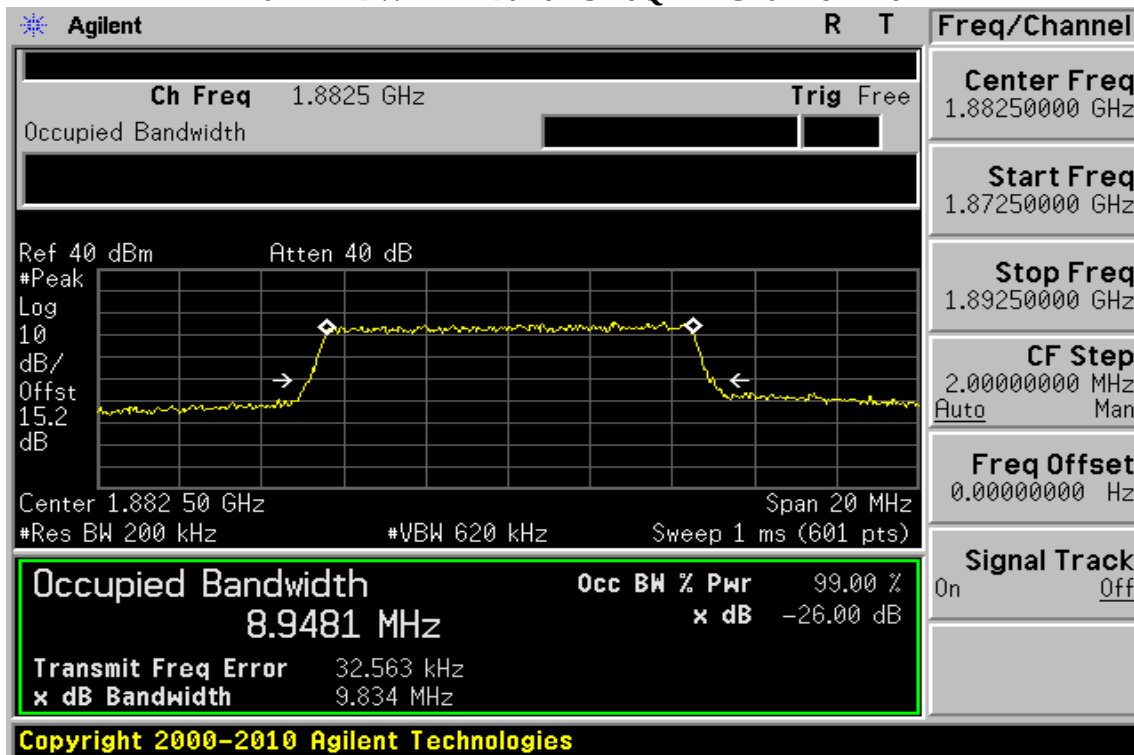
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10MHz BW LTE-Band 25 16QAM Channel Low



10MHz BW LTE-Band 25 16QAM Channel Mid



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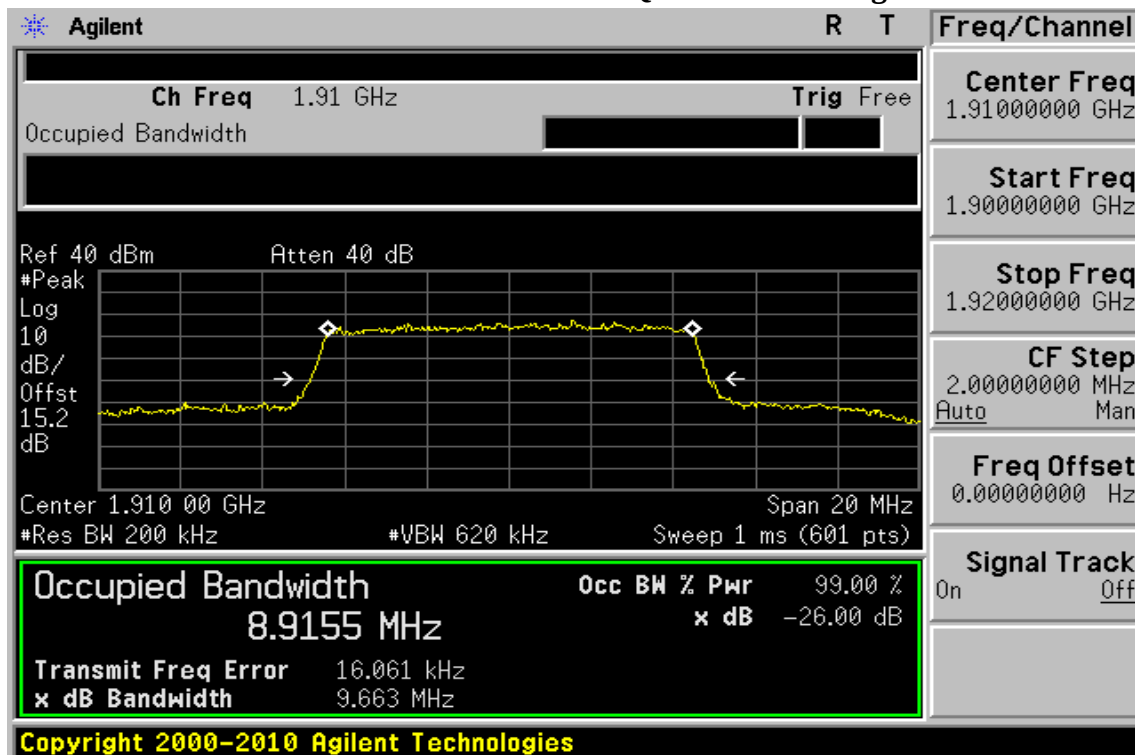
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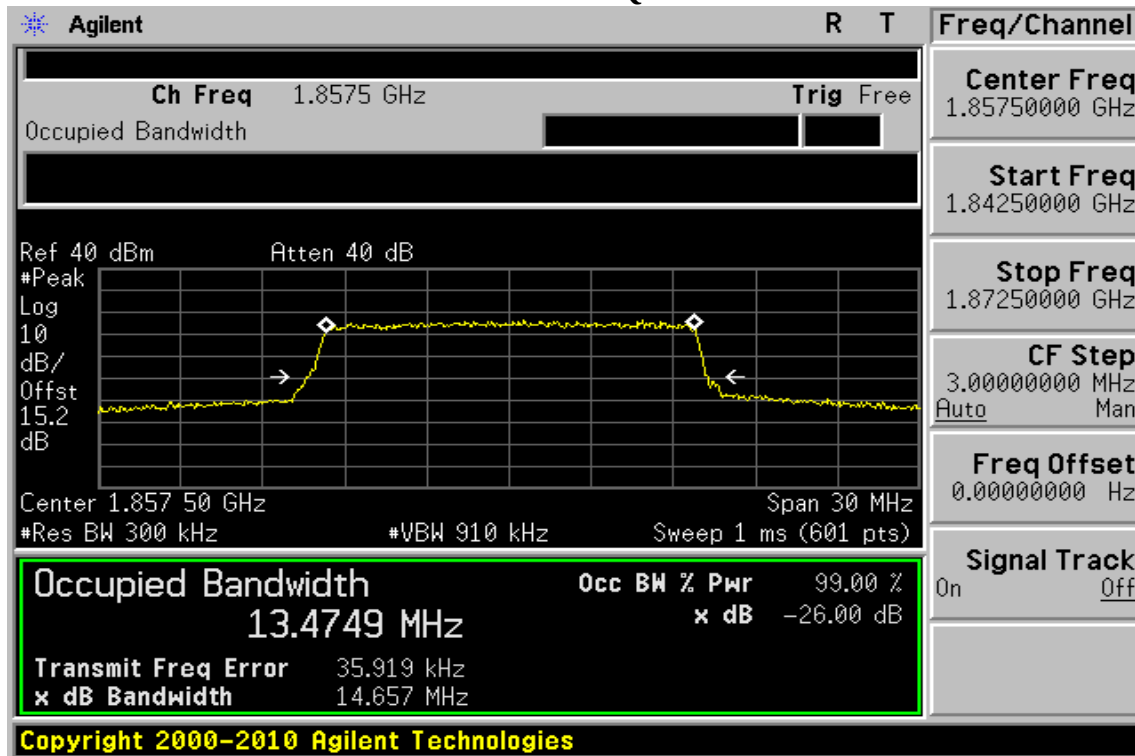
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10MHz BW LTE-Band 25 16QAM Channel High



15MHz BW LTE-Band 25 QPSK Channel Low



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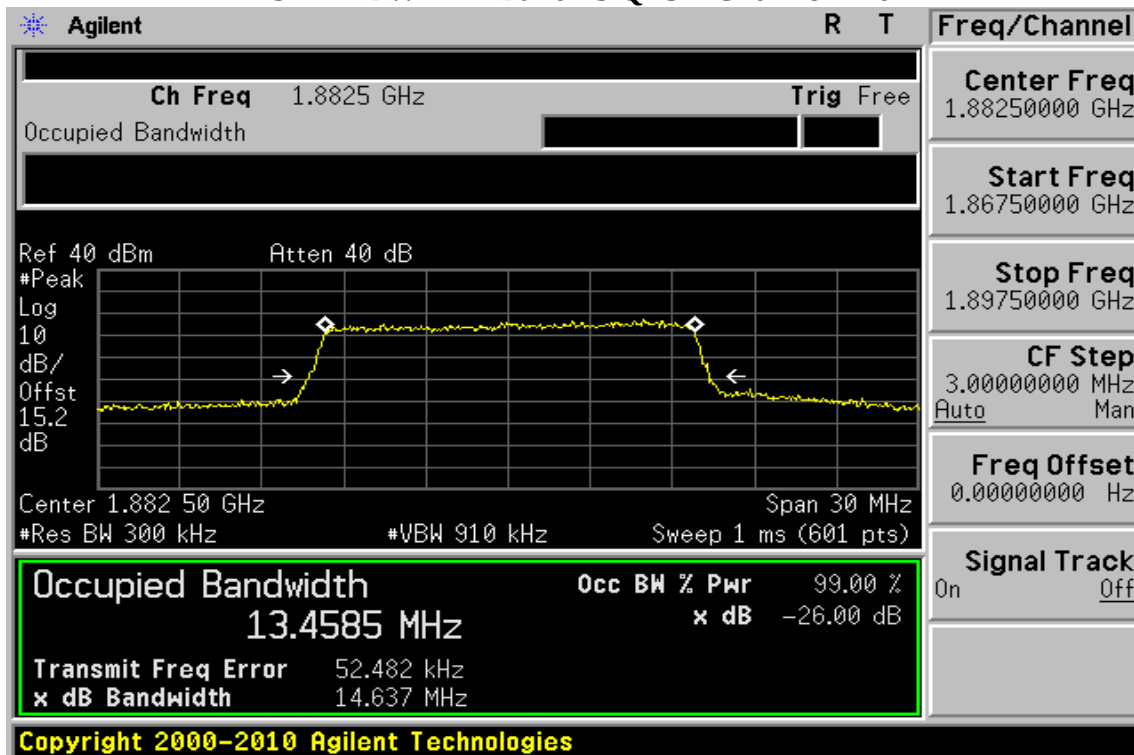
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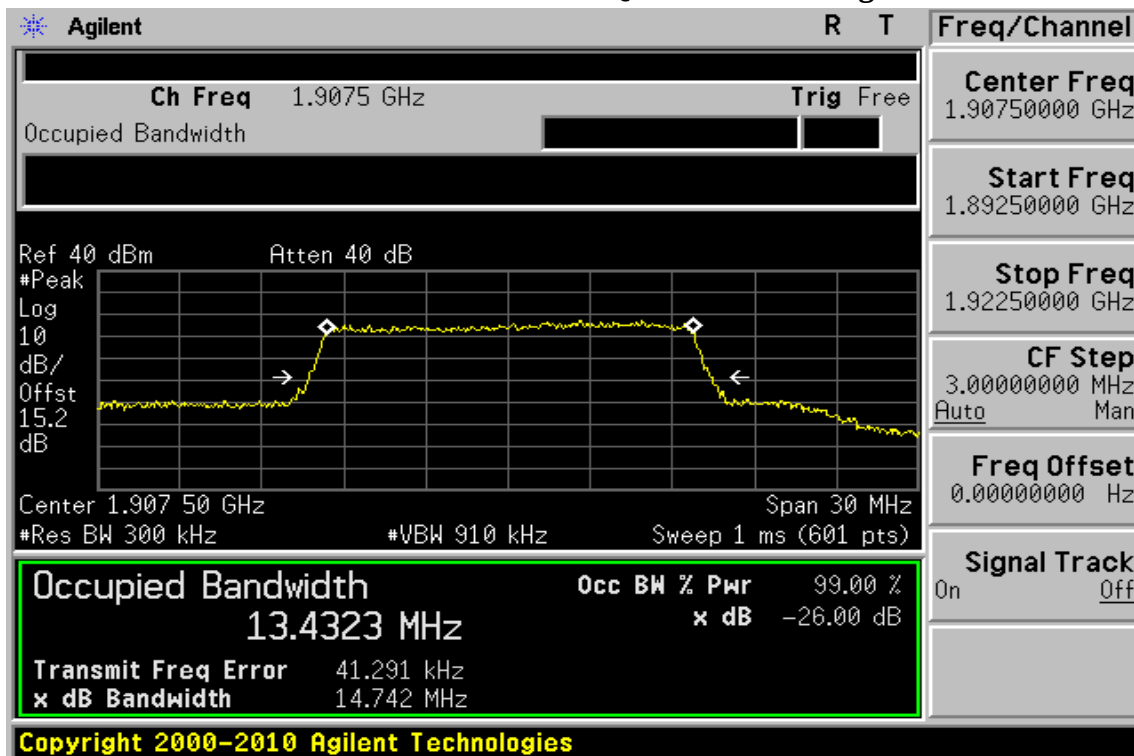
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15MHz BW LTE-Band 25 QPSK Channel Mid



15MHz BW LTE-Band 25 QPSK Channel High



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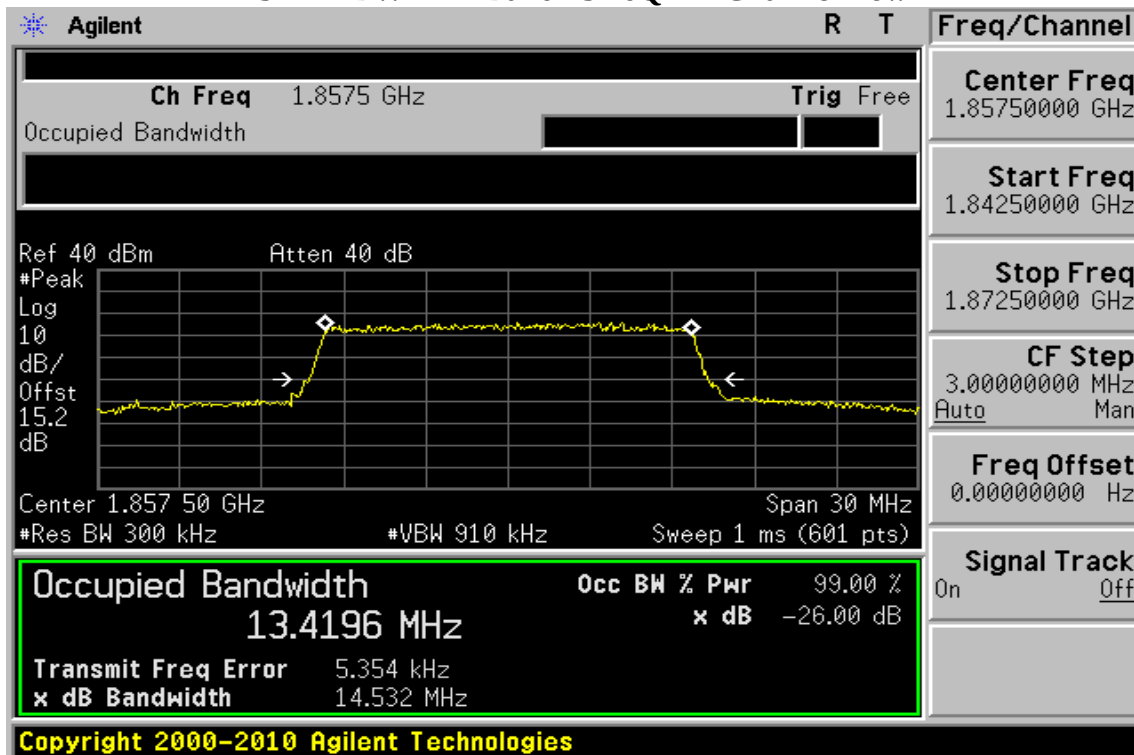
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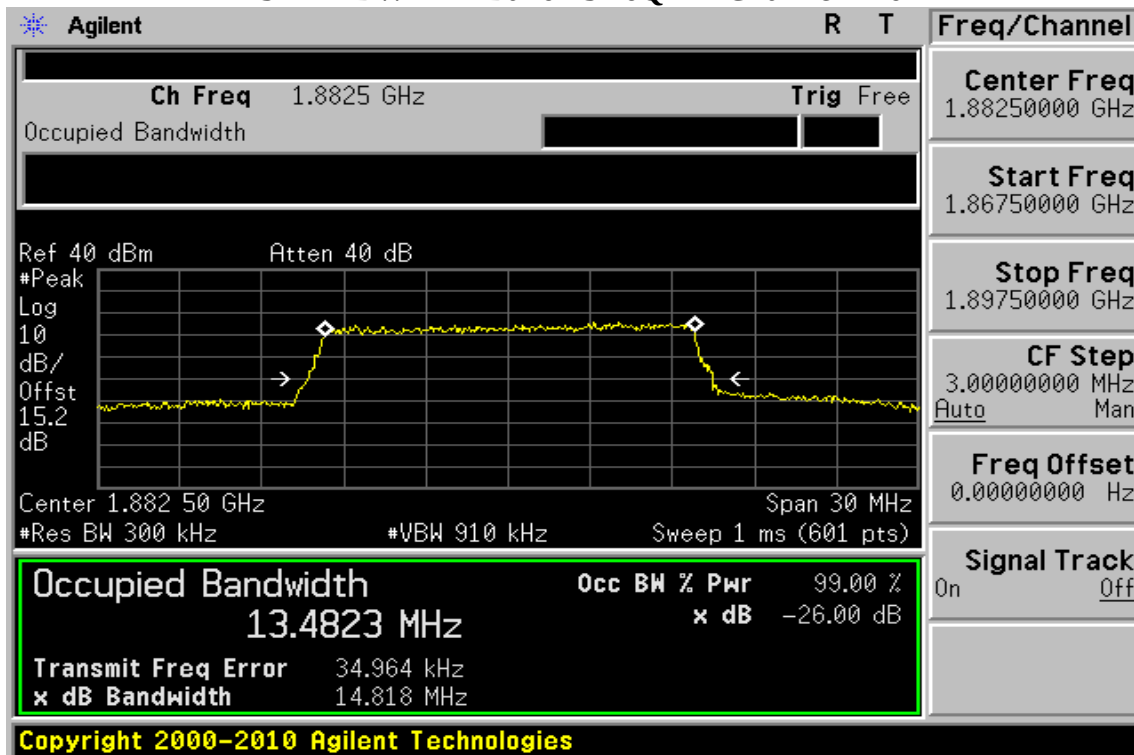
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15MHz BW LTE-Band 25 16QAM Channel Low



15MHz BW LTE-Band 25 16QAM Channel Mid



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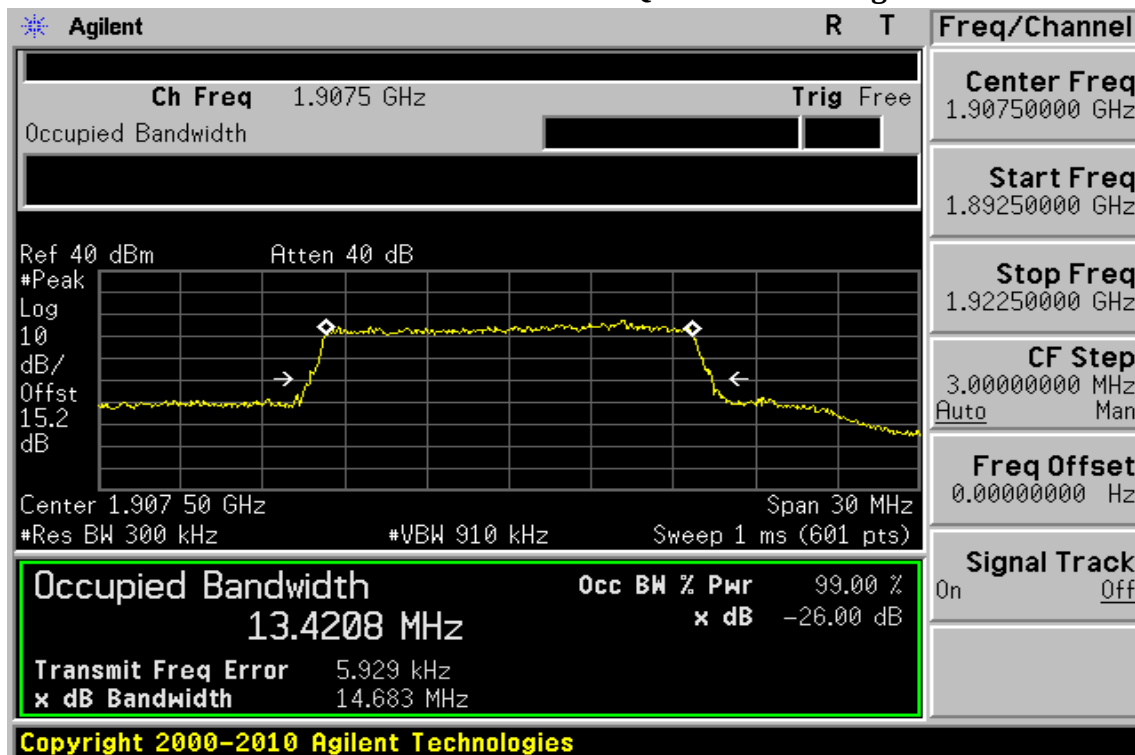
t (886-2) 2299-3279

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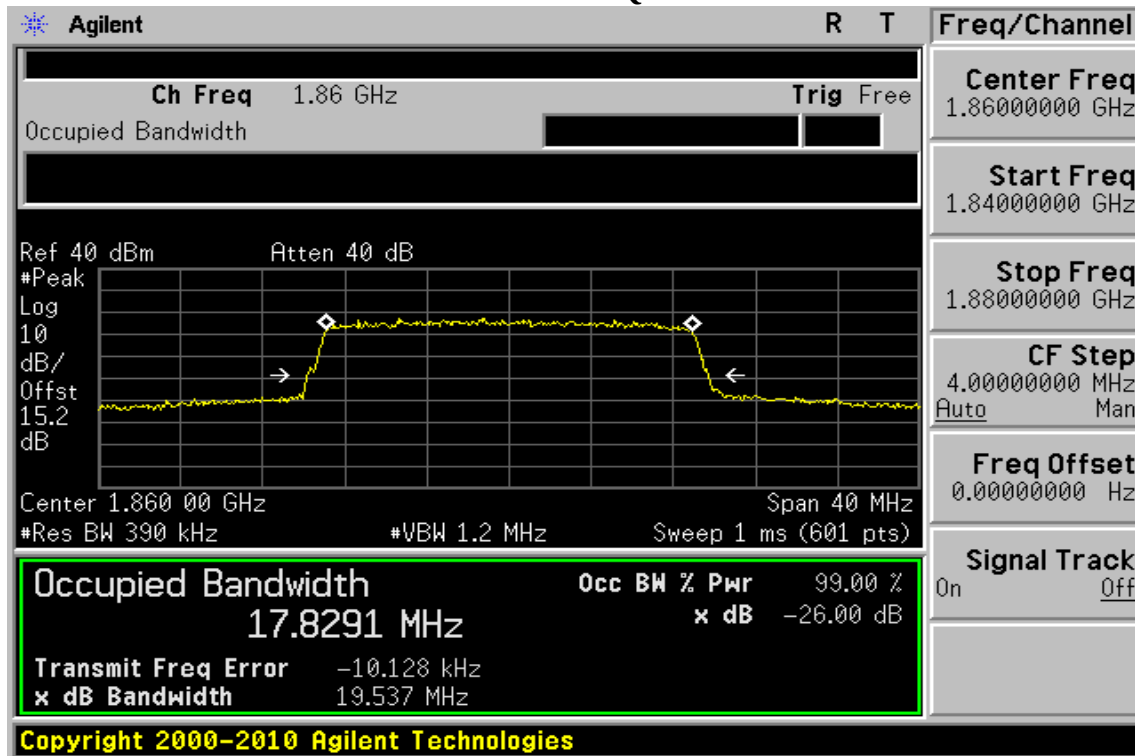
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15MHz BW LTE-Band 25 16QAM Channel High



20MHz BW LTE-Band 25 QPSK Channel Low



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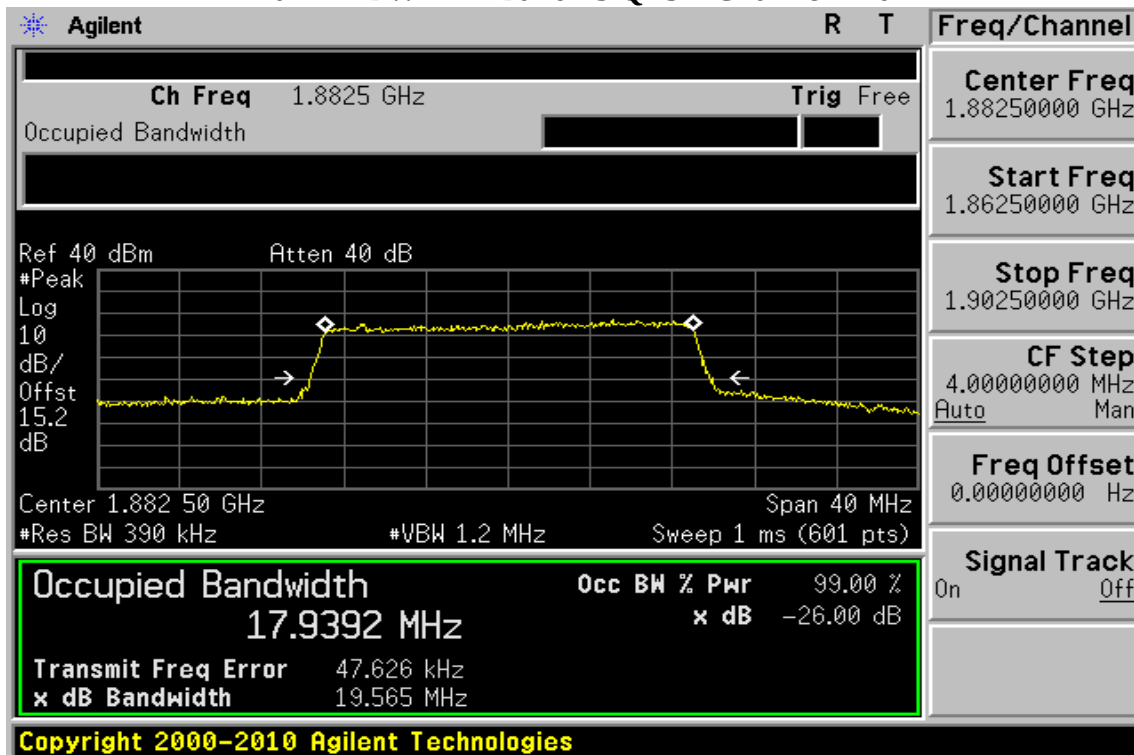
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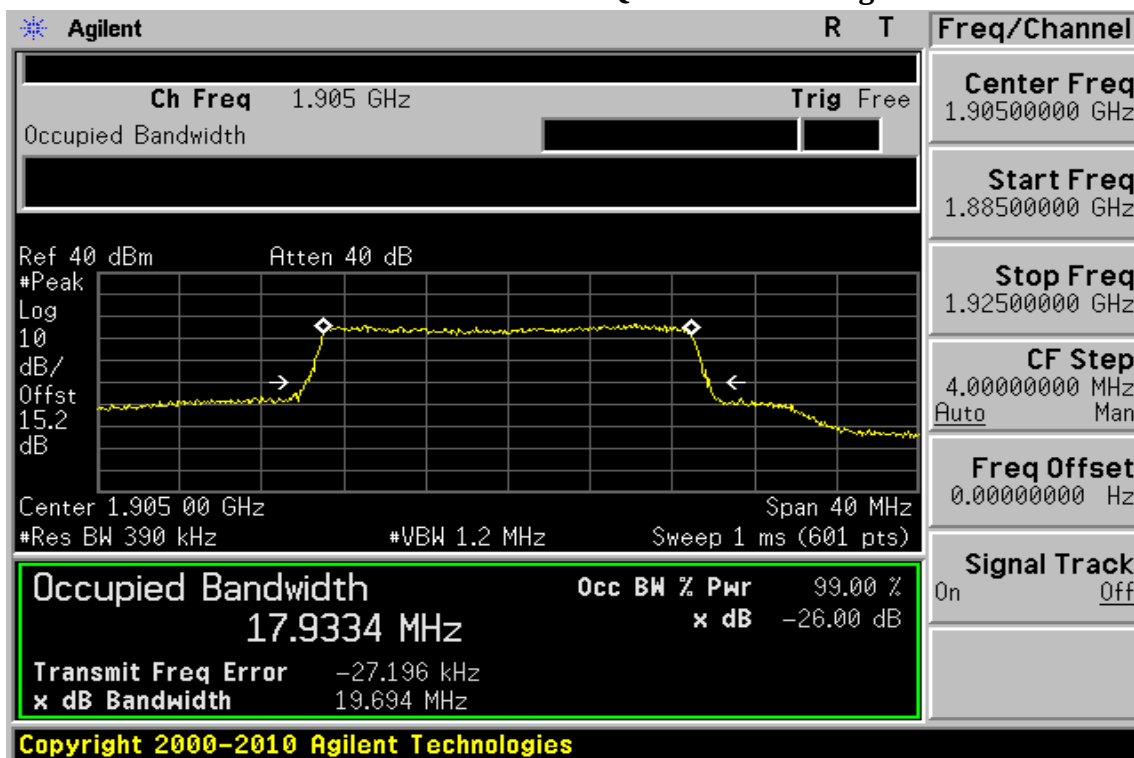
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20MHz BW LTE-Band 25 QPSK Channel Mid



20MHz BW LTE-Band 25 QPSK Channel High



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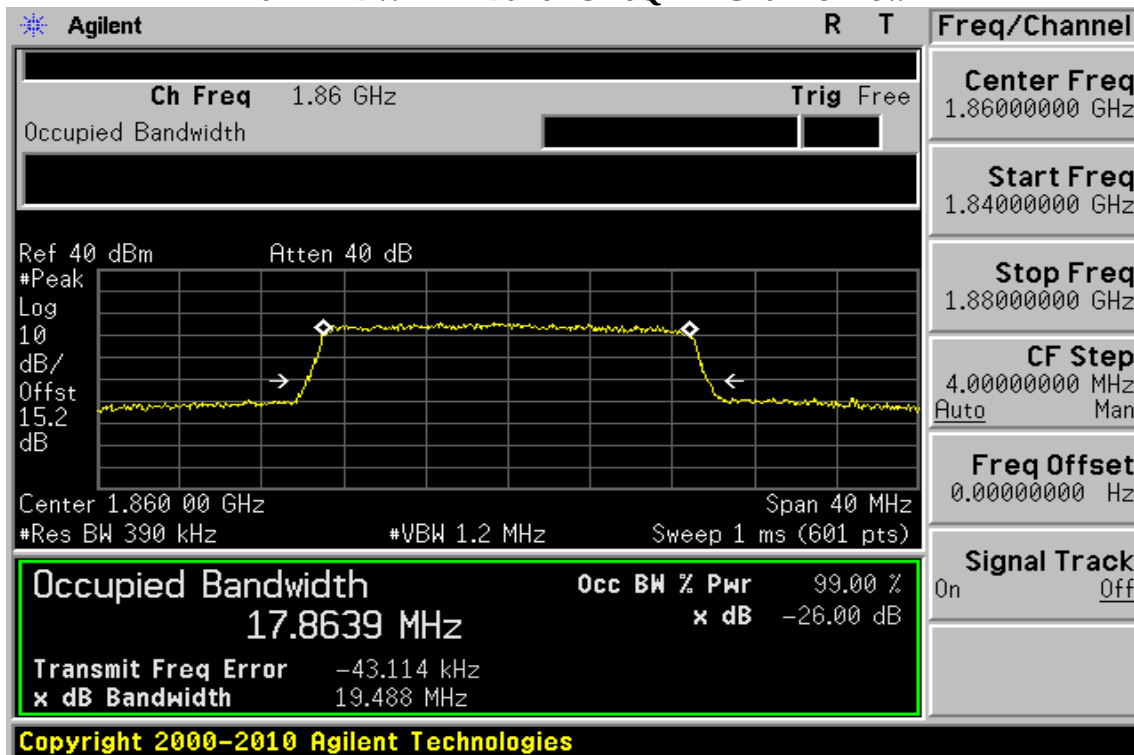
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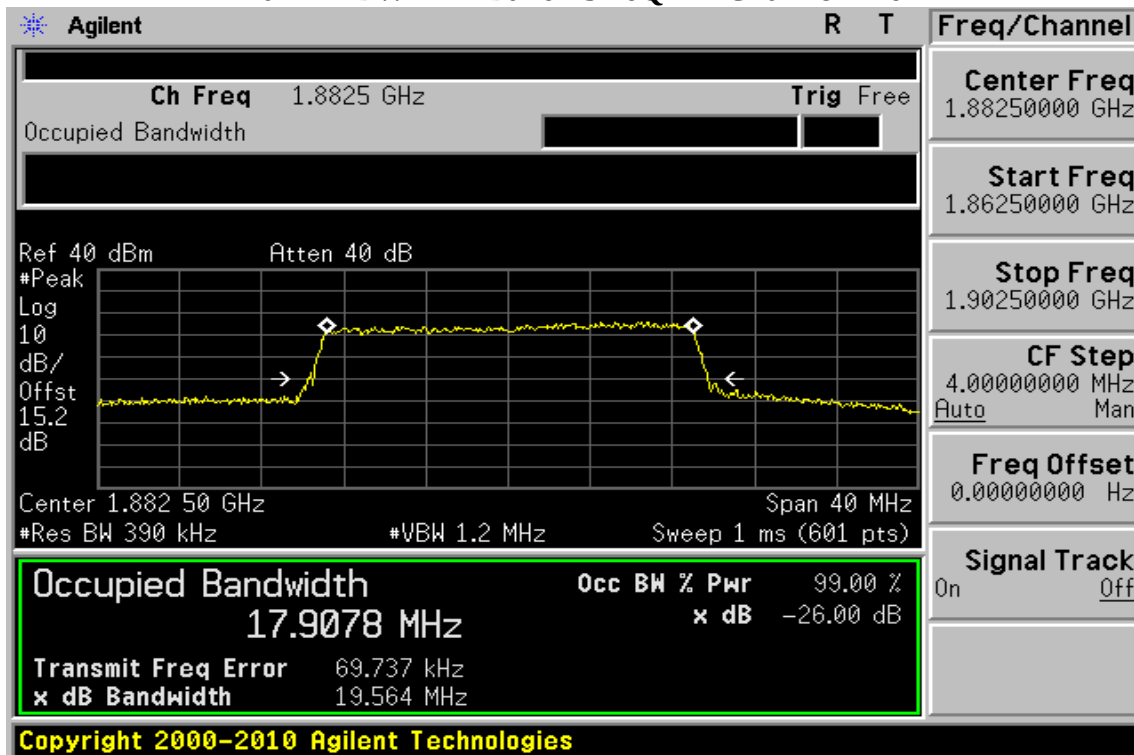
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20MHz BW LTE-Band 25 16QAM Channel Low



20MHz BW LTE-Band 25 16QAM Channel Mid



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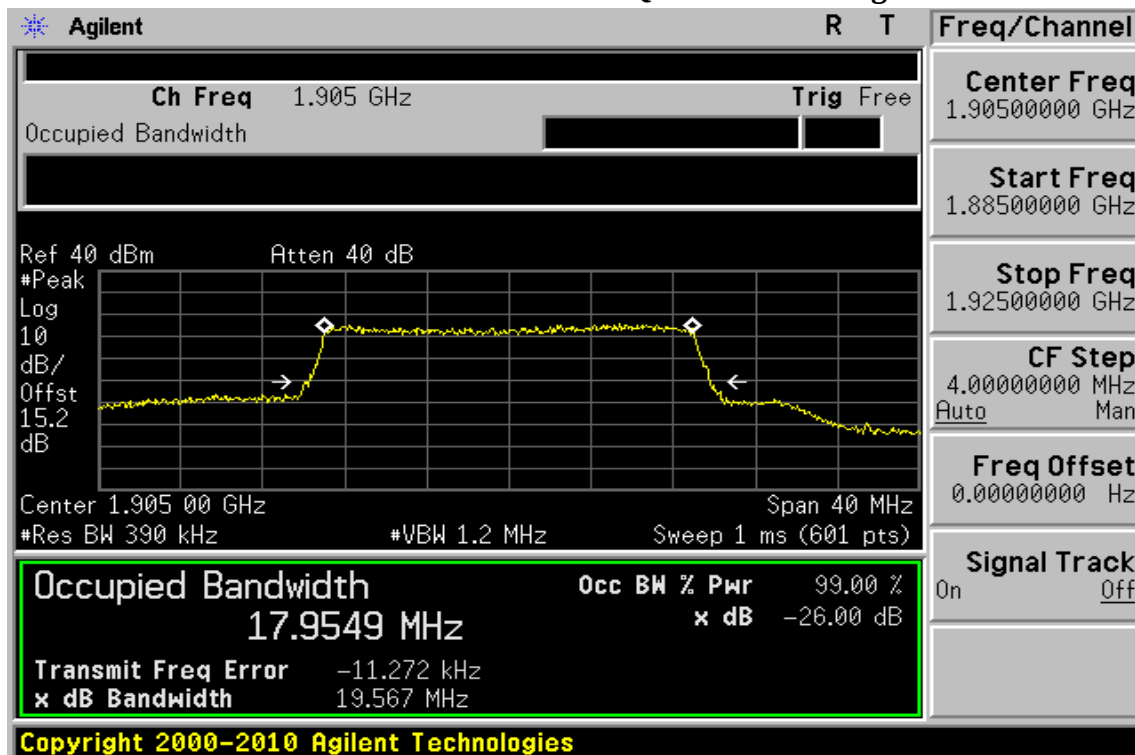
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20MHz BW LTE-Band 25 16QAM Channel High



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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), §90.691(a)(1) 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) (2) (4)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

Band Edge Measurement:

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) (6)

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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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.

FCC §90.691(a)(2)

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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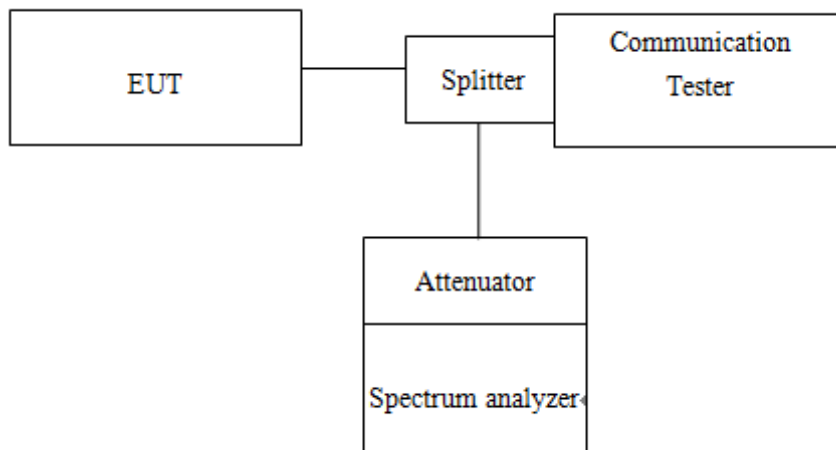
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9.2. Test SET-UP



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.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	MY52410006	11/10/2014	11/09/2015

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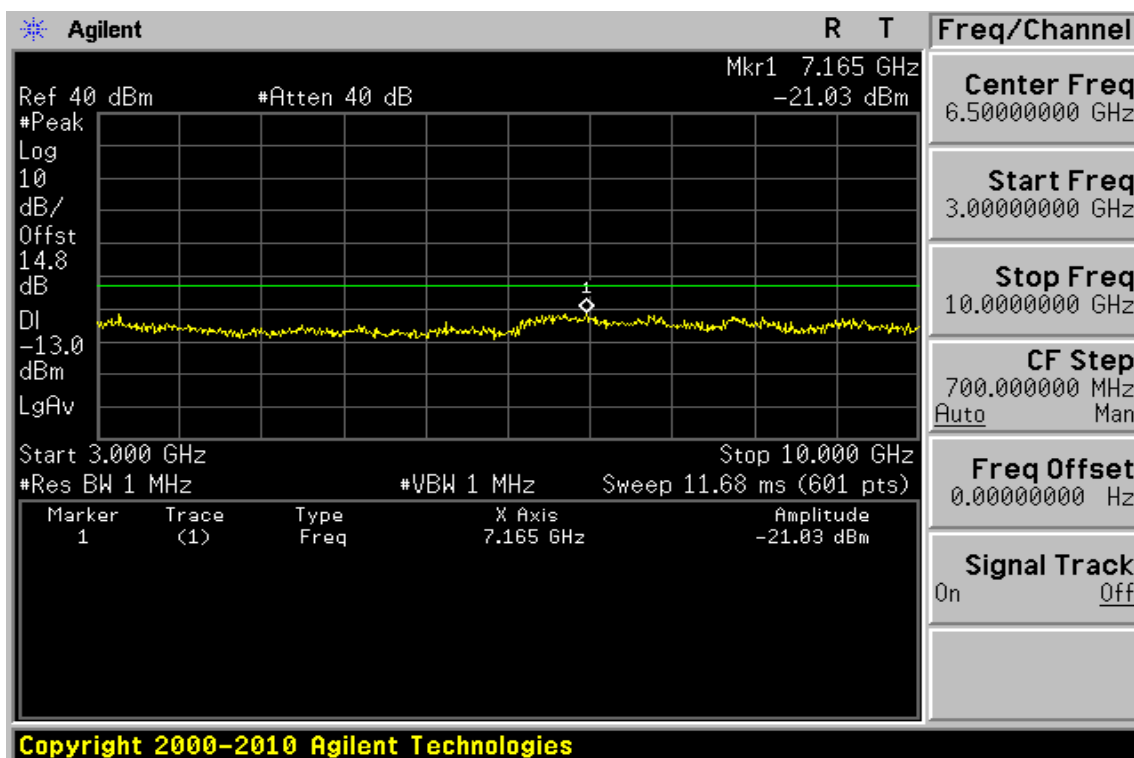
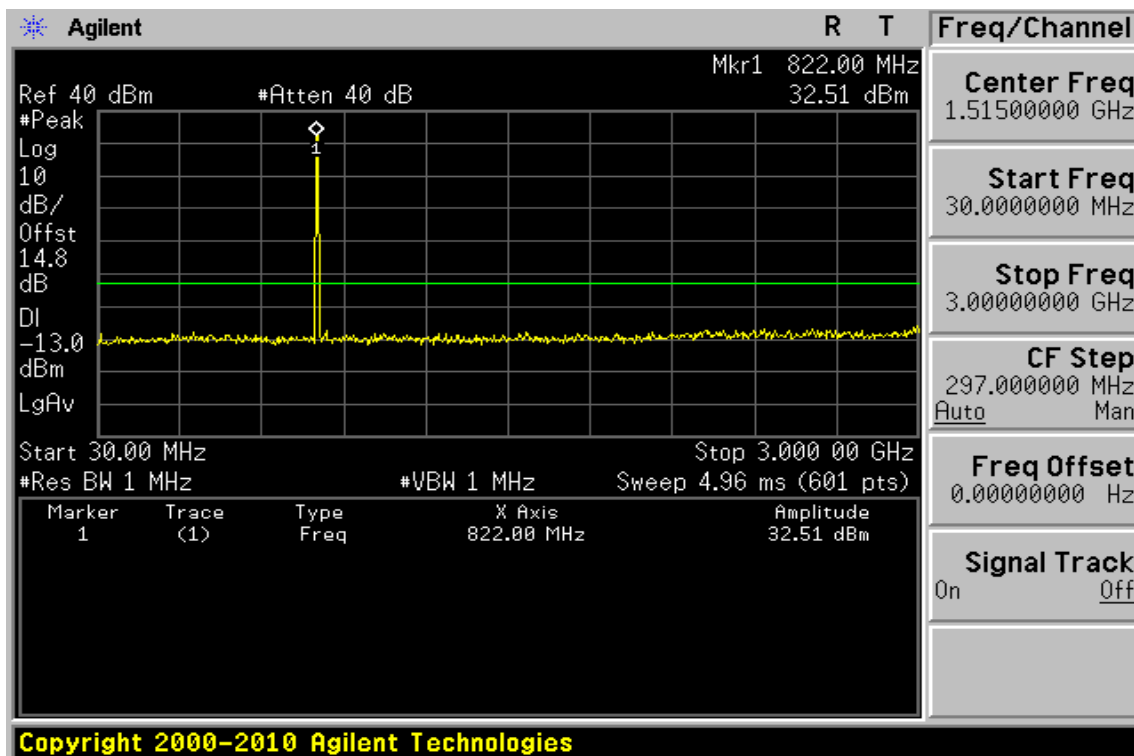
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Out of Band emission at antenna terminals – GPRS 850 Channel Lowest



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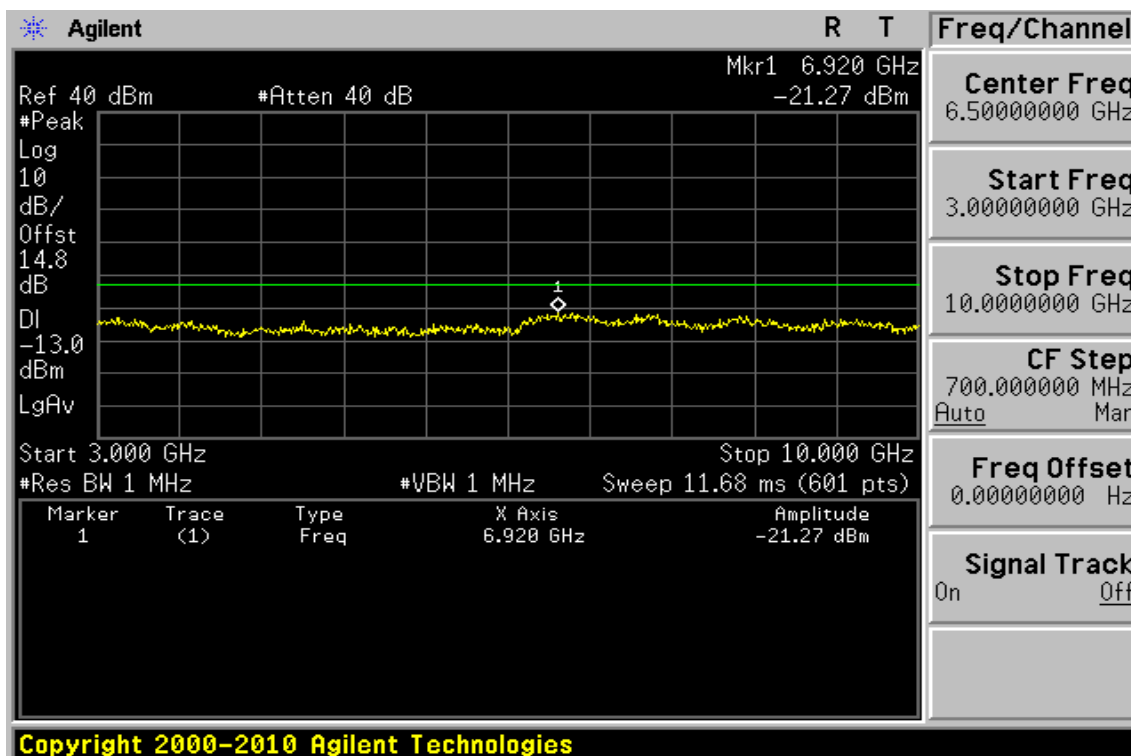
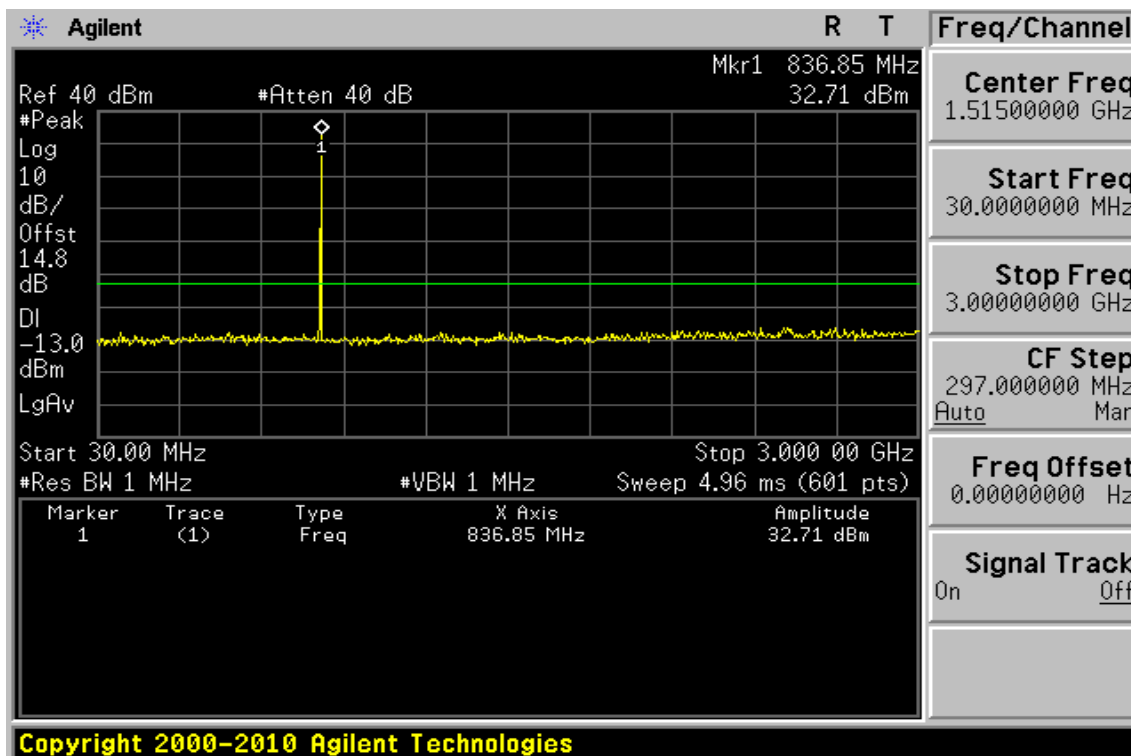
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Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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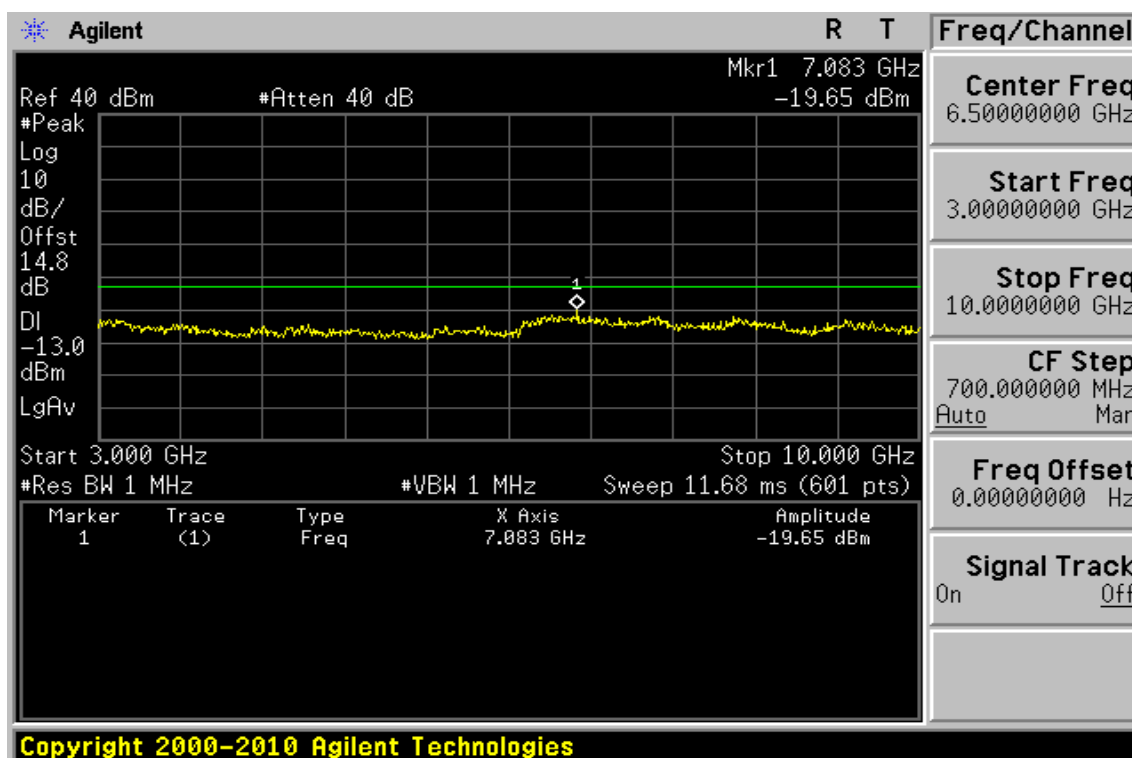
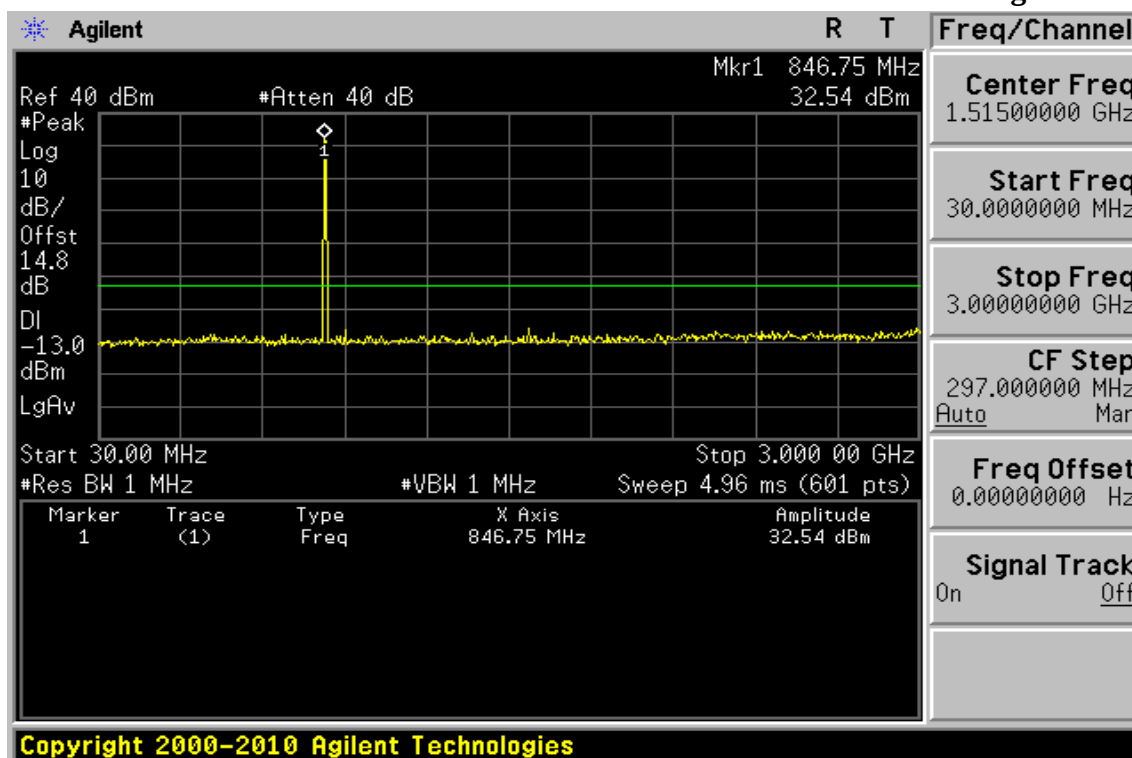
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Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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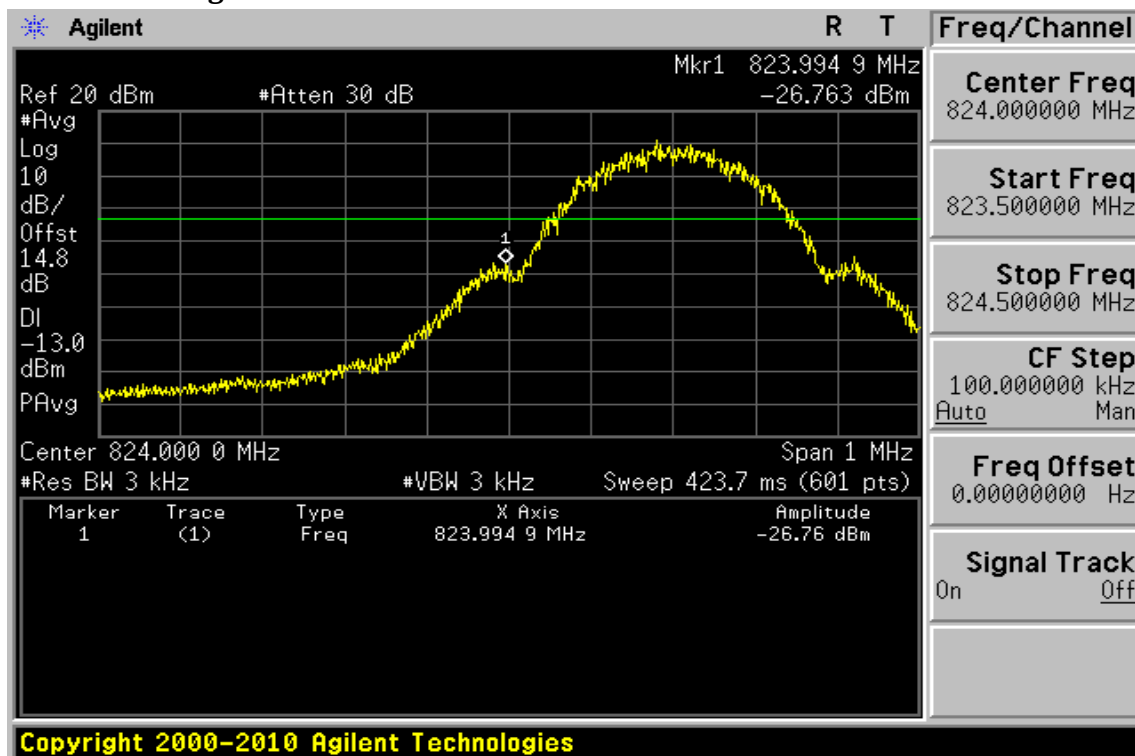
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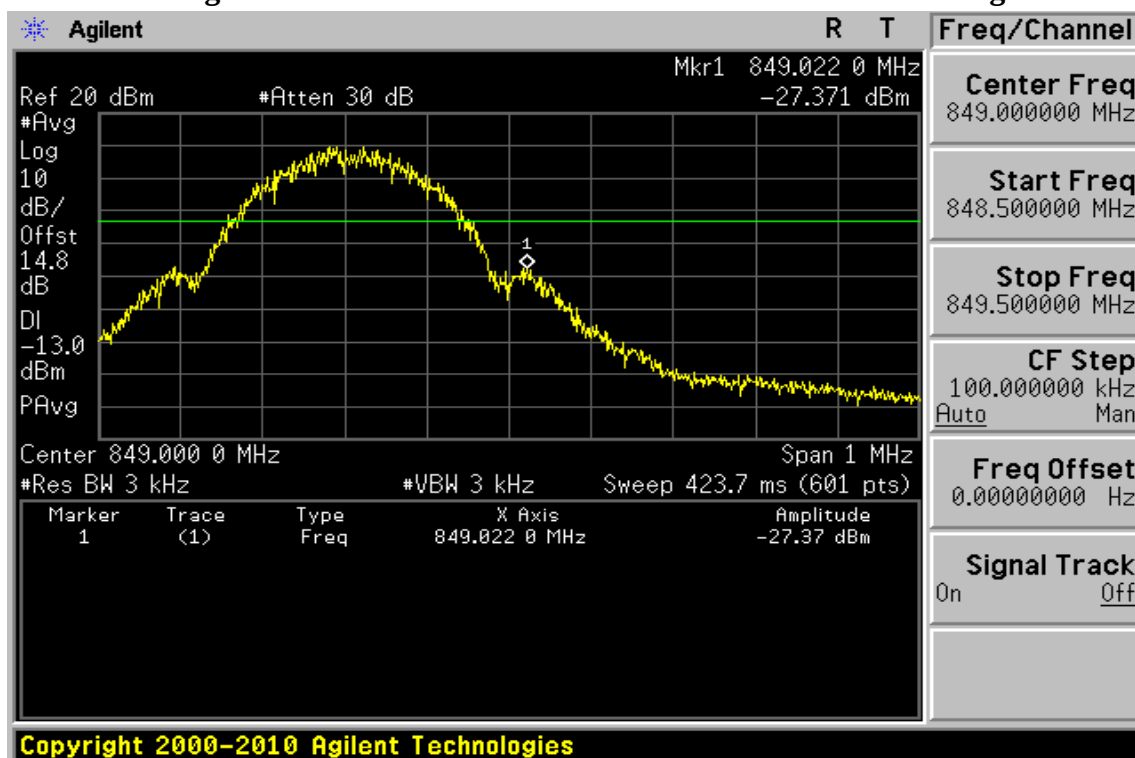
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Band edge emission at antenna terminals – GPRS 850 Channel Lowest



Band edge emission at antenna terminals – GPRS 850 Channel Highest



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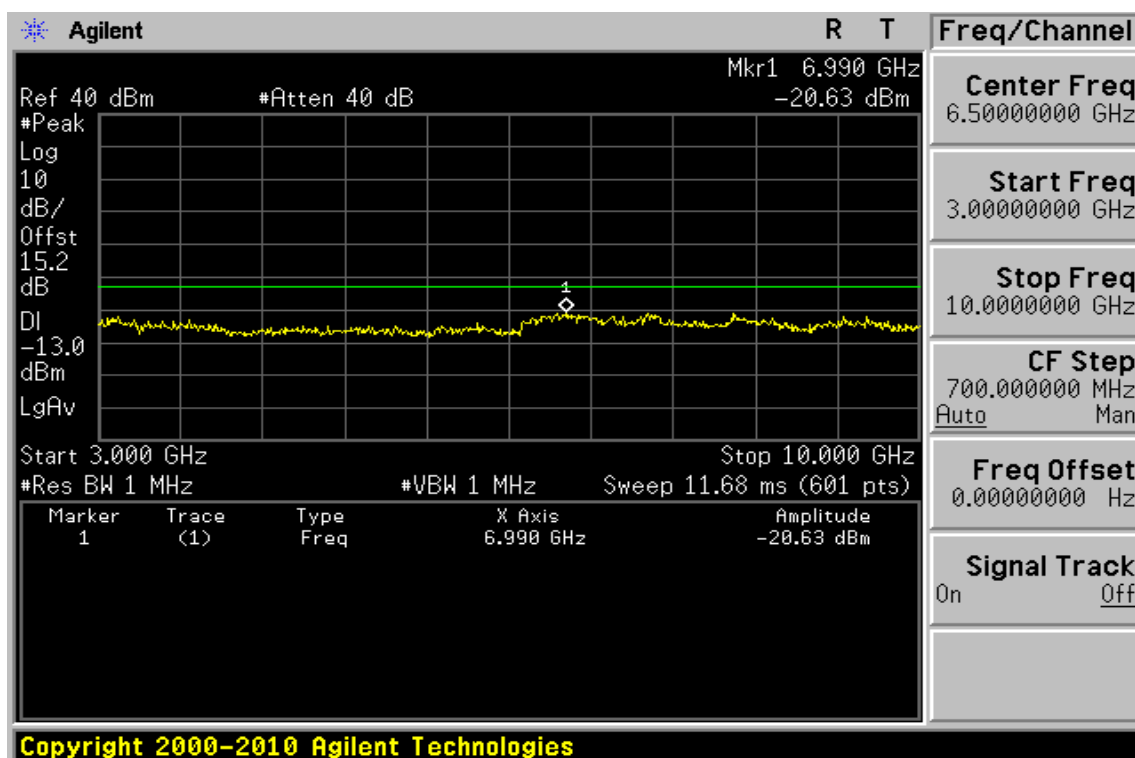
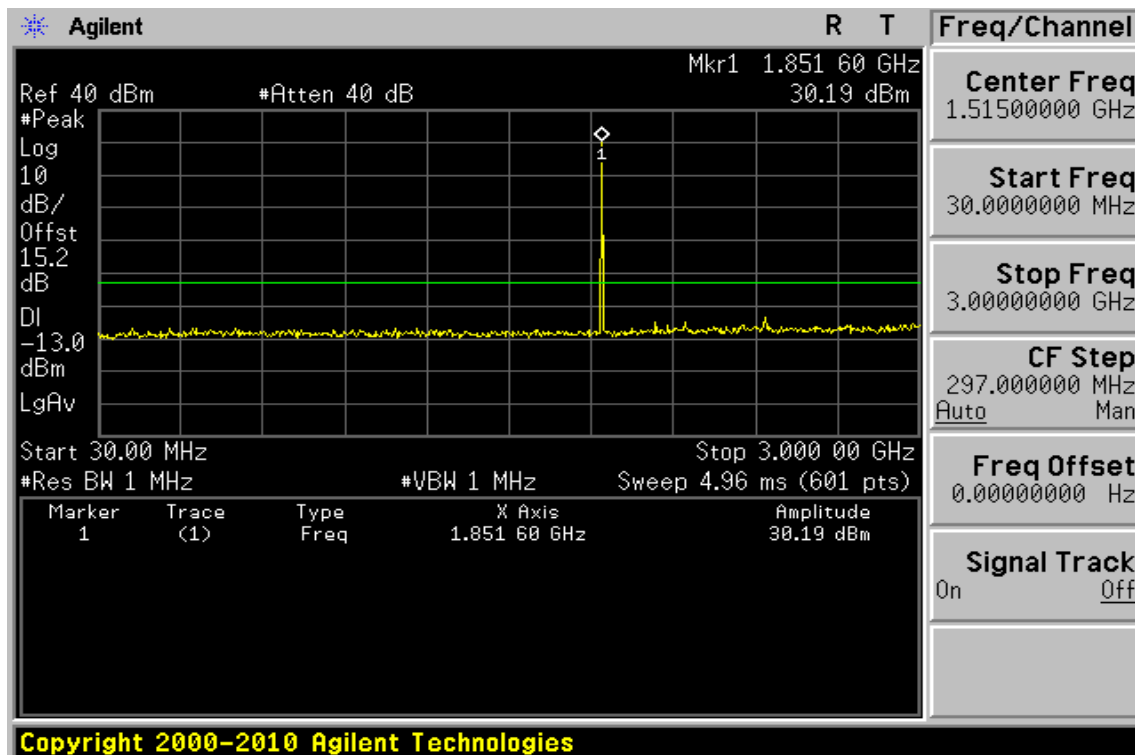
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Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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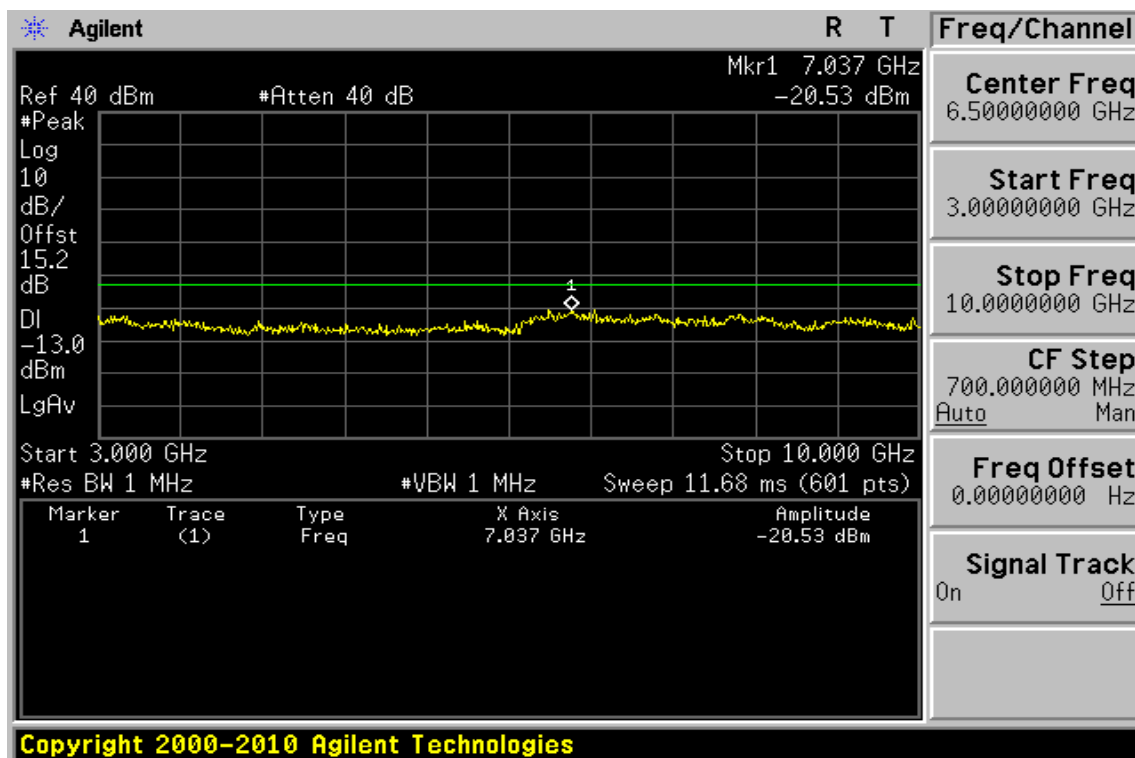
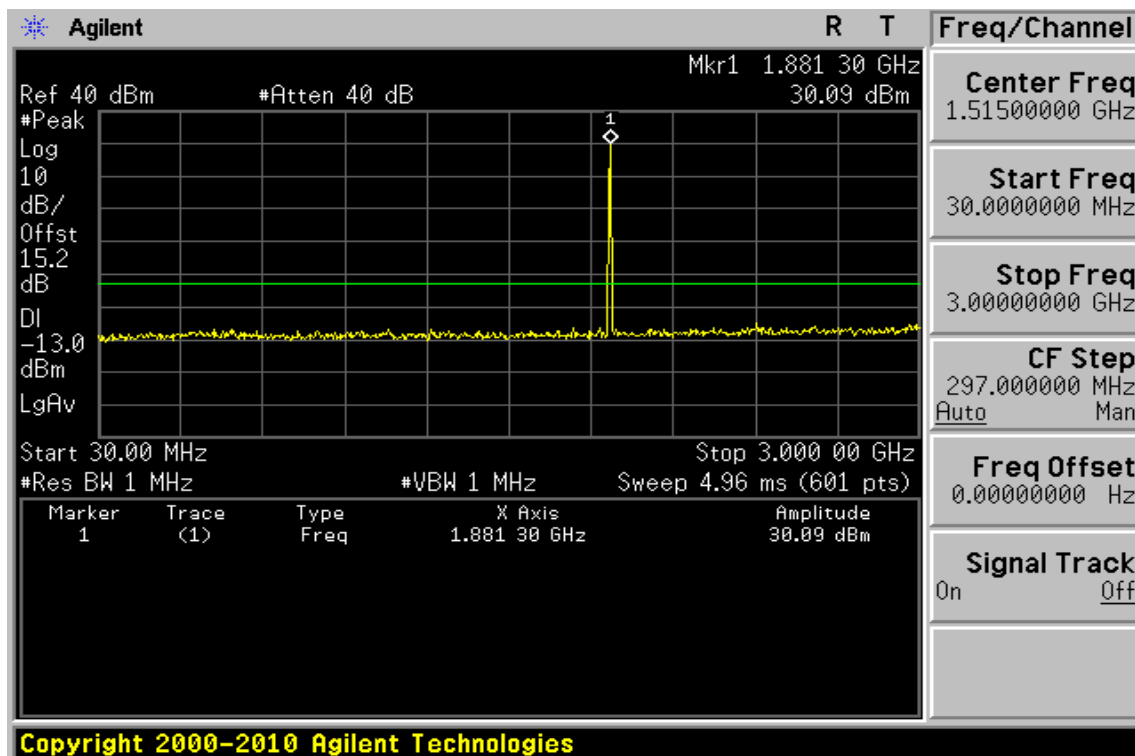
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Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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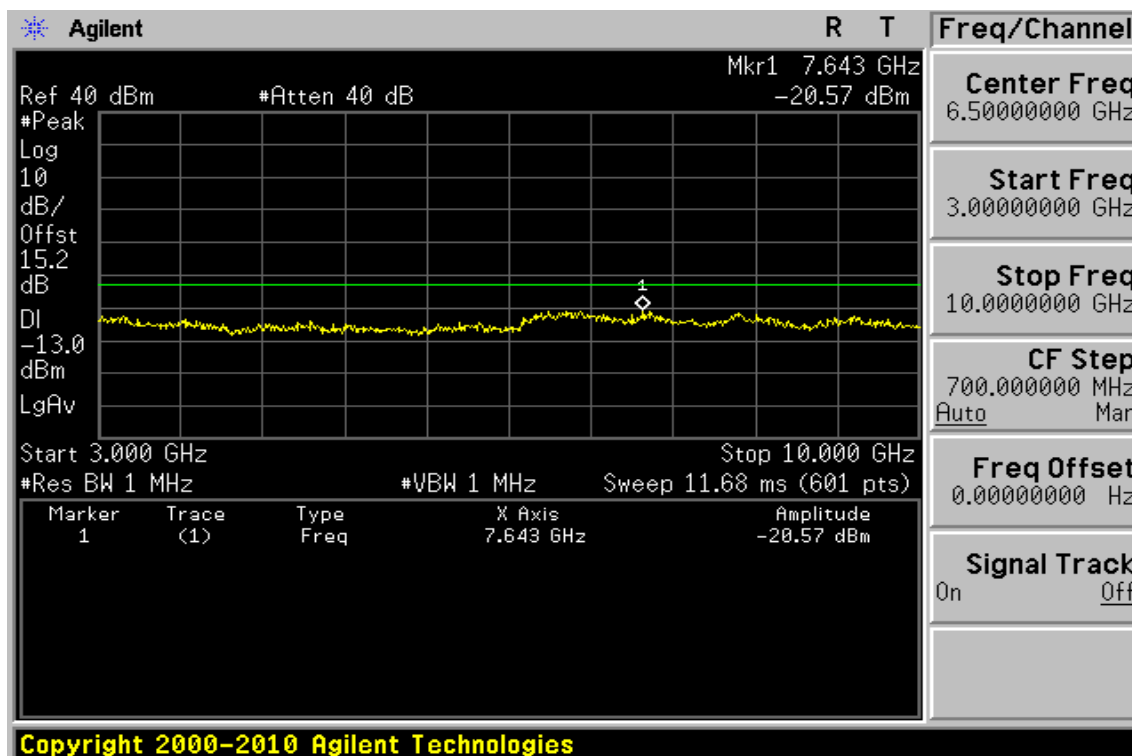
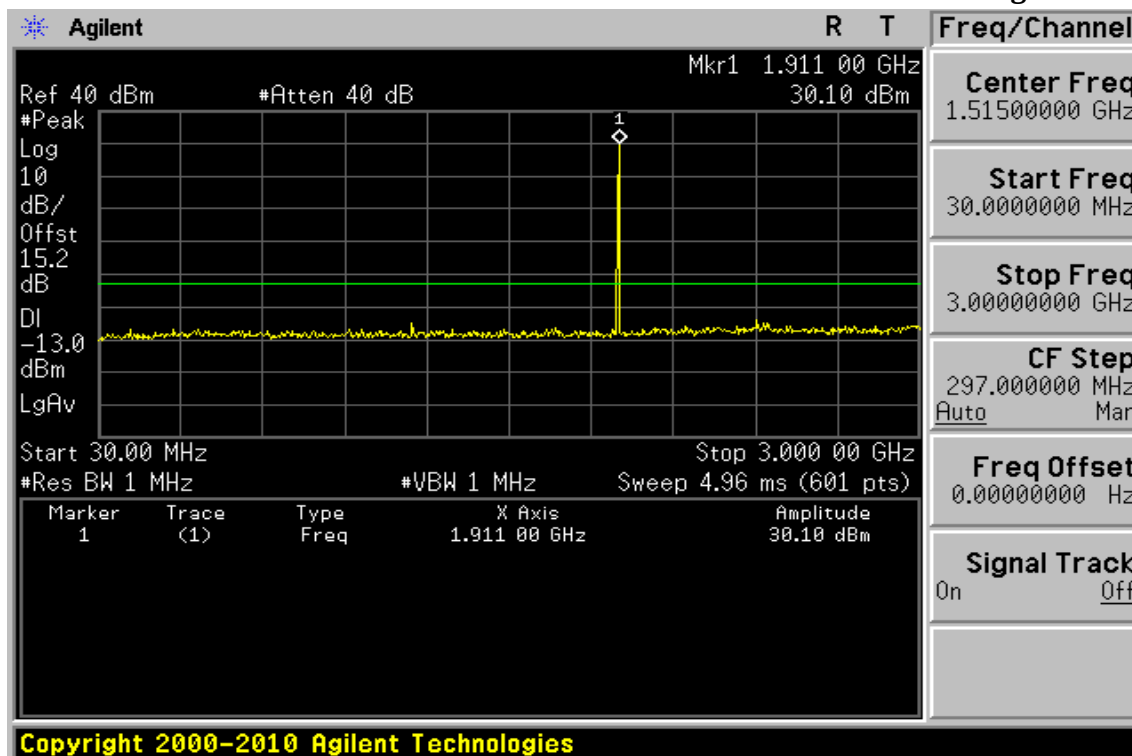
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Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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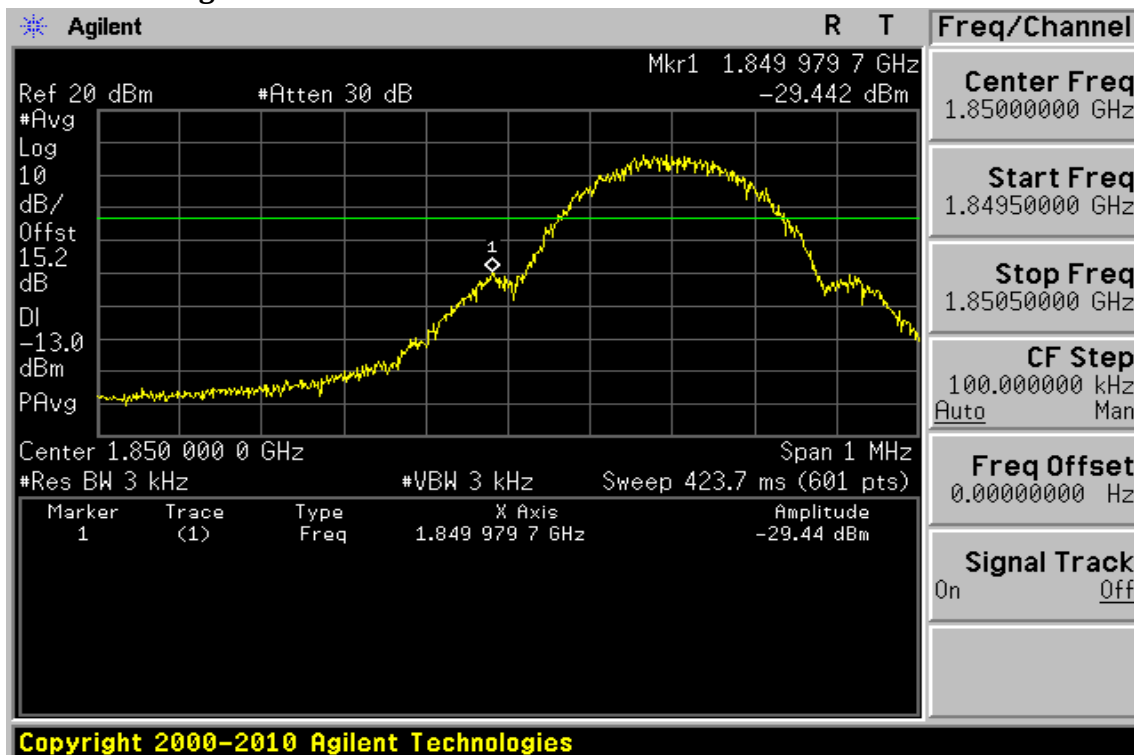
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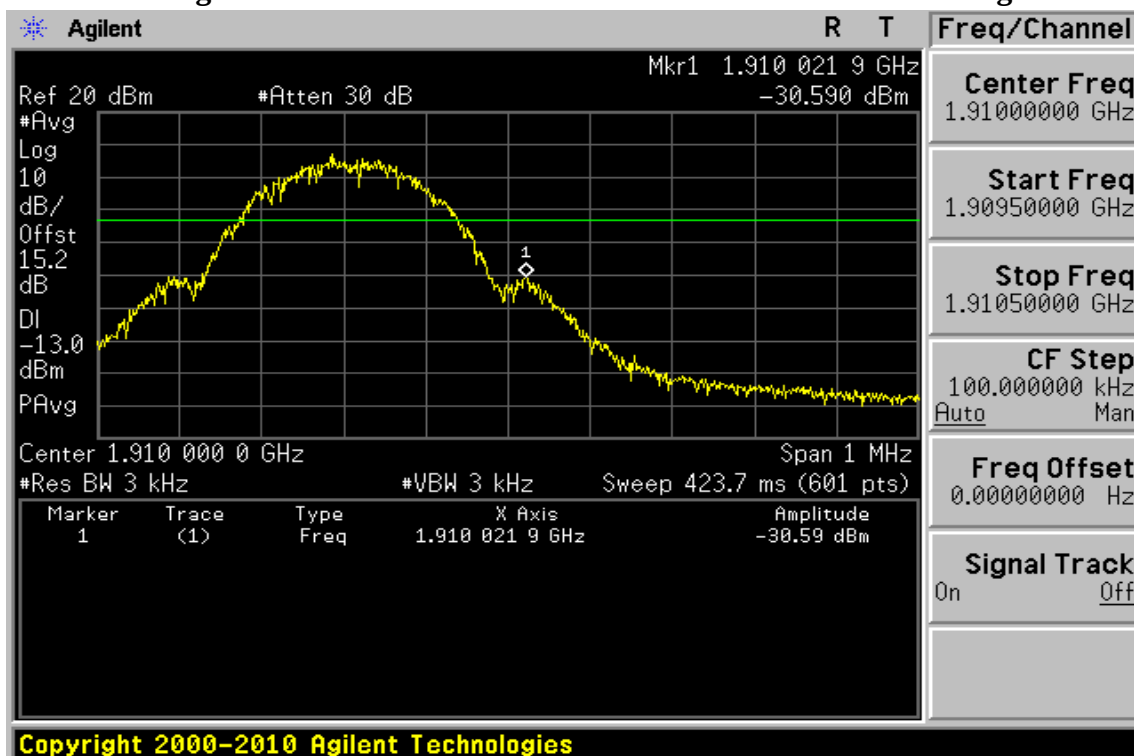
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Band edge emission at antenna terminals – GPRS 1900 Channel Lowest



Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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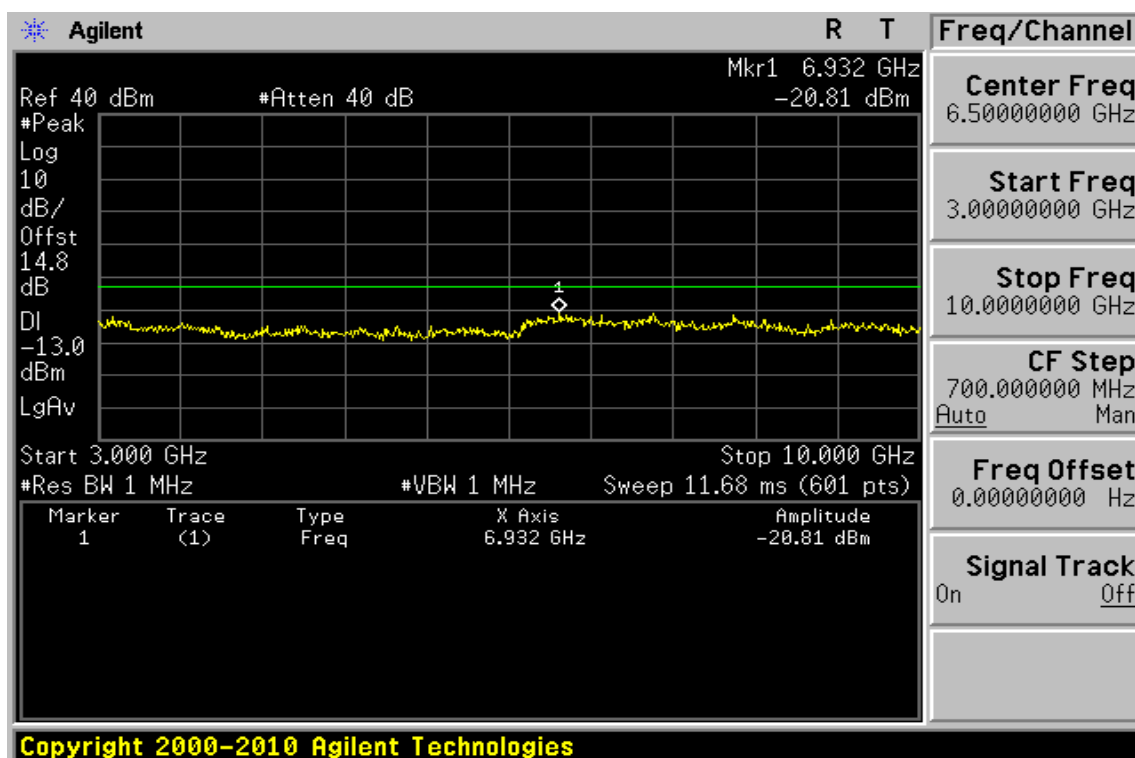
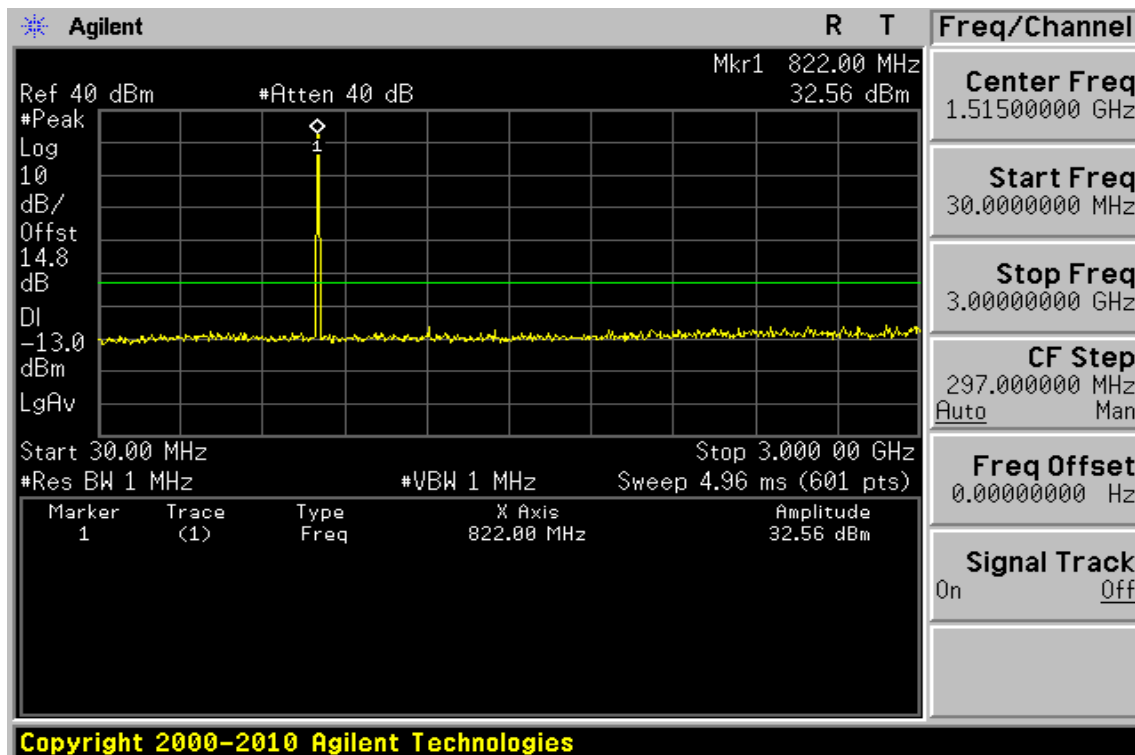
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Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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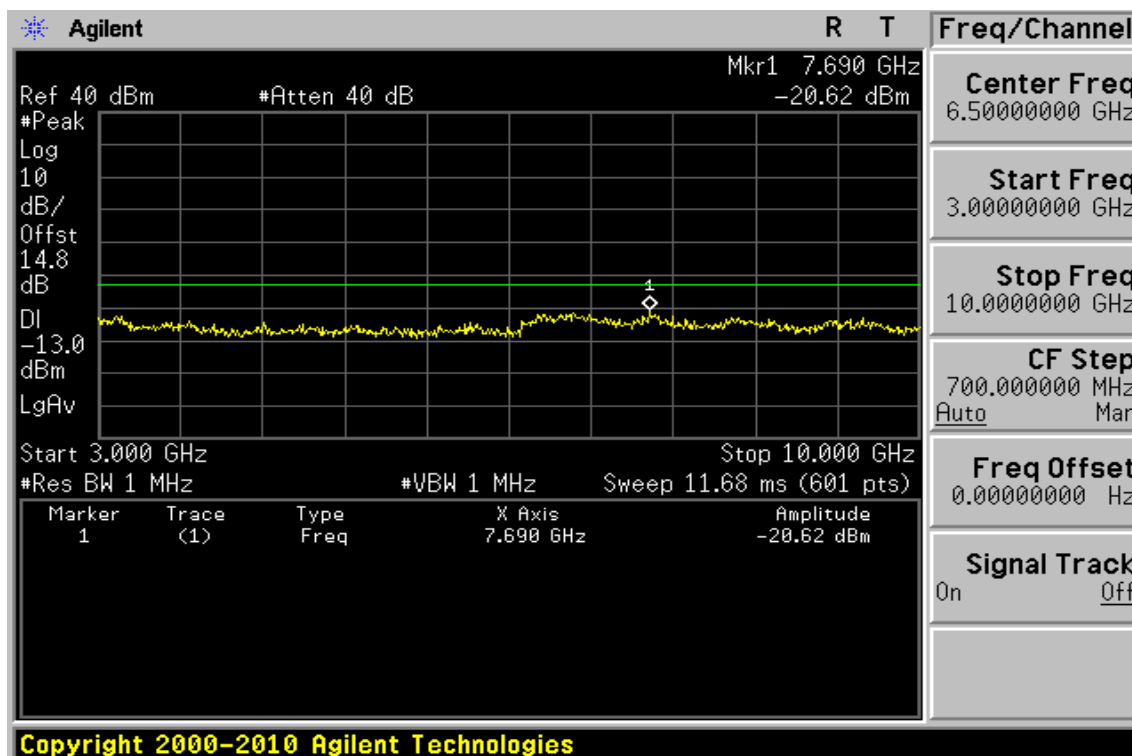
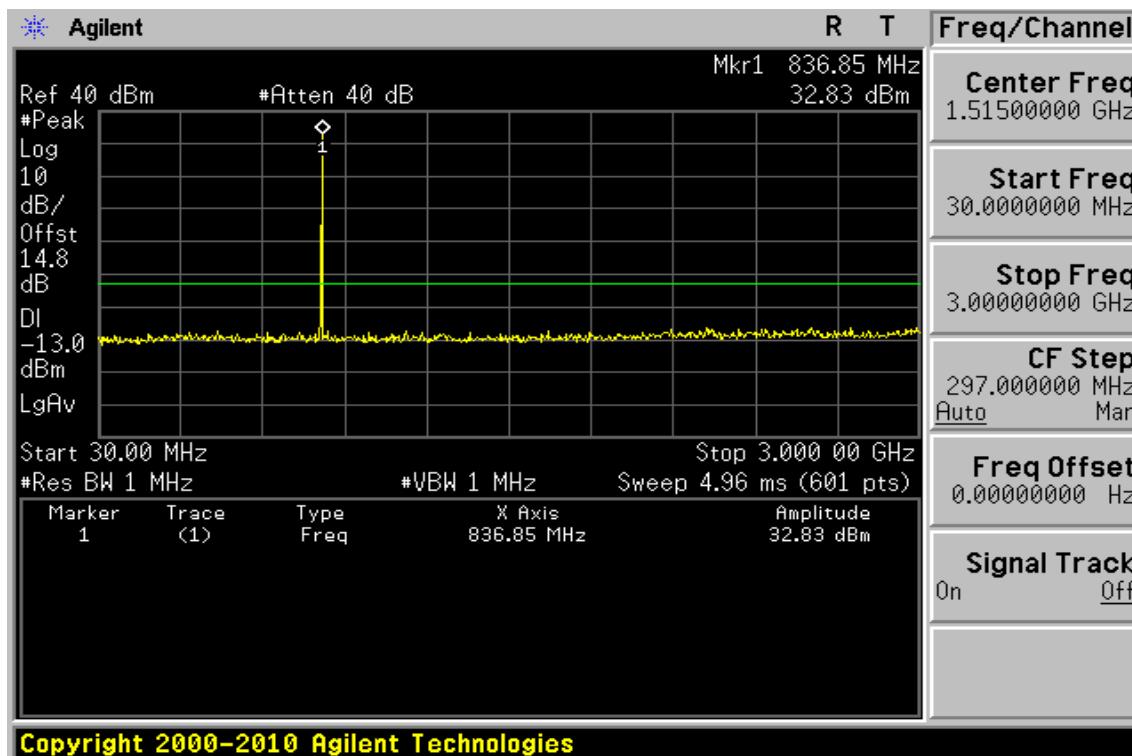
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Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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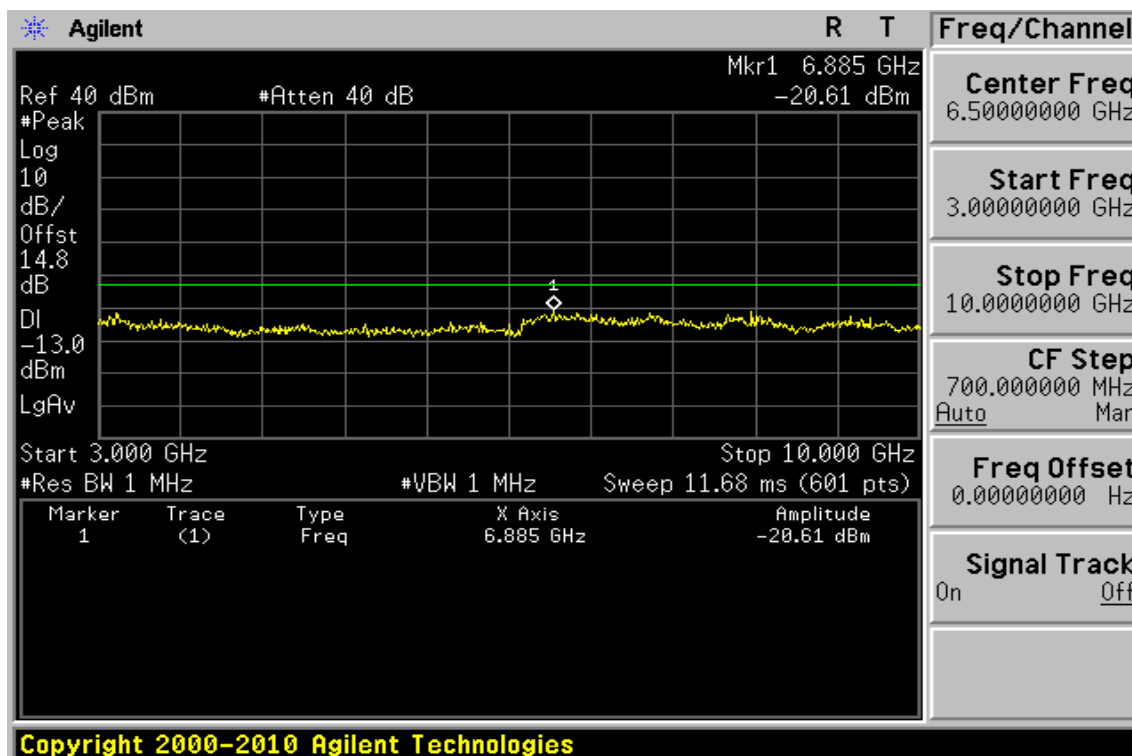
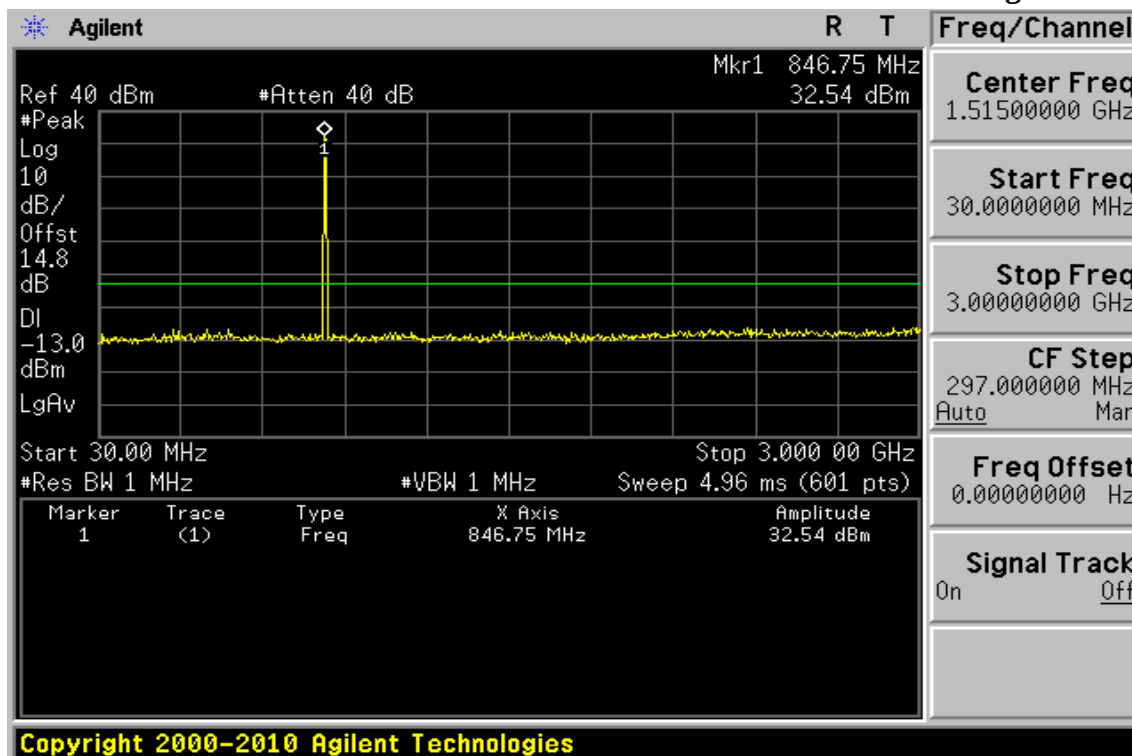
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Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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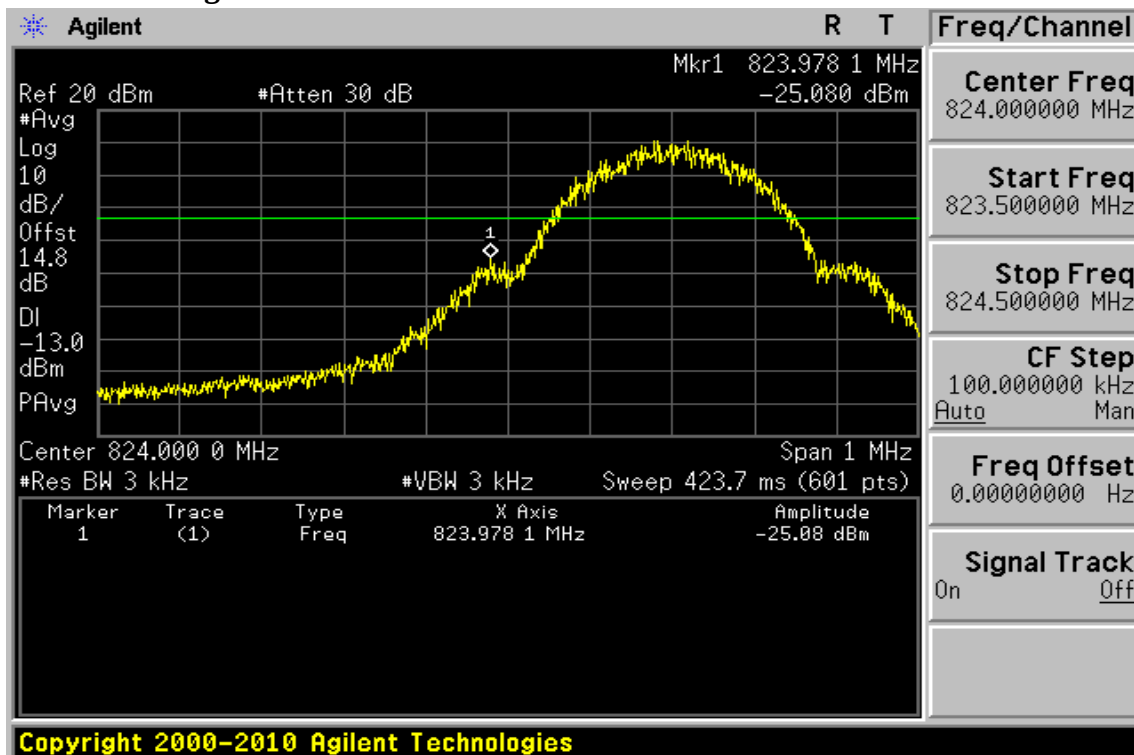
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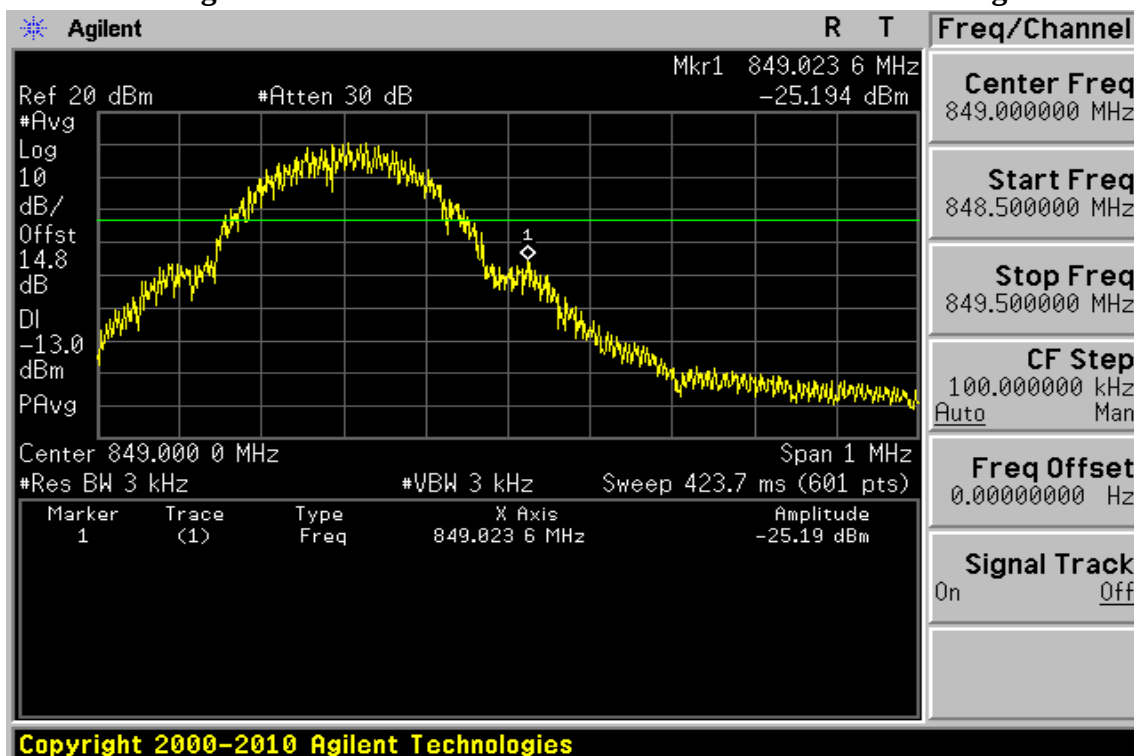
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Band edge emission at antenna terminals – EDGE 850 Channel Lowest



Band edge emission at antenna terminals – EDGE 850 Channel Highest



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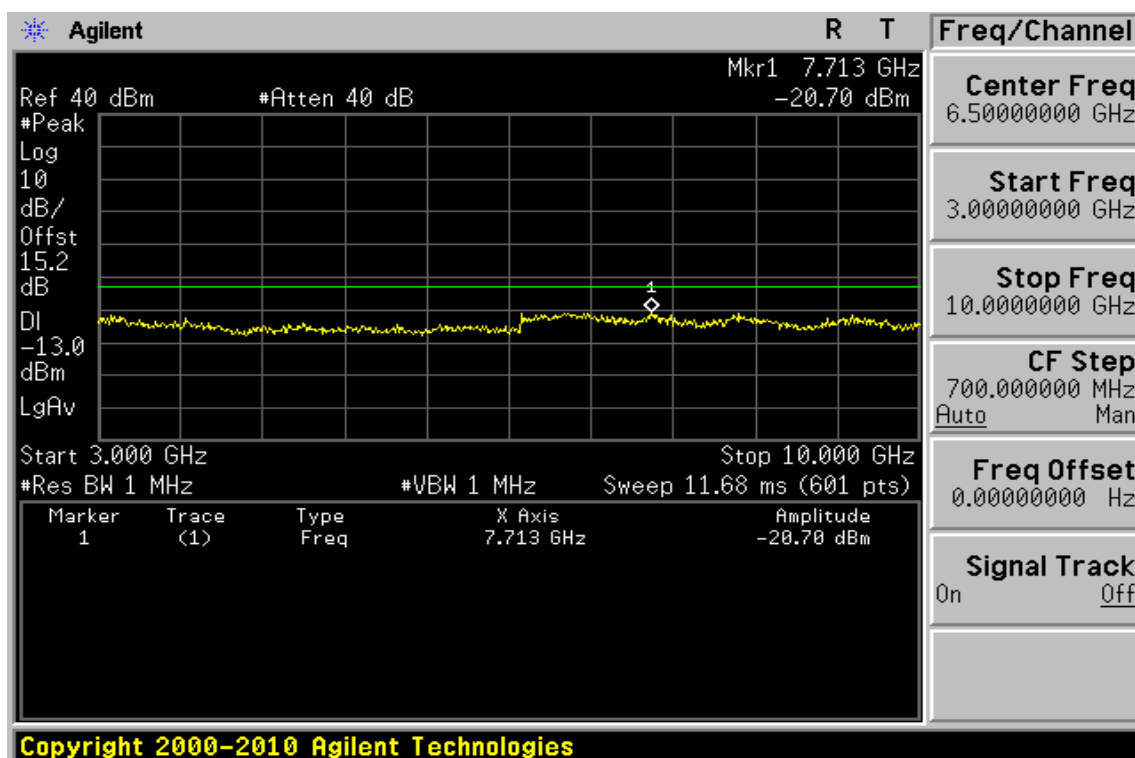
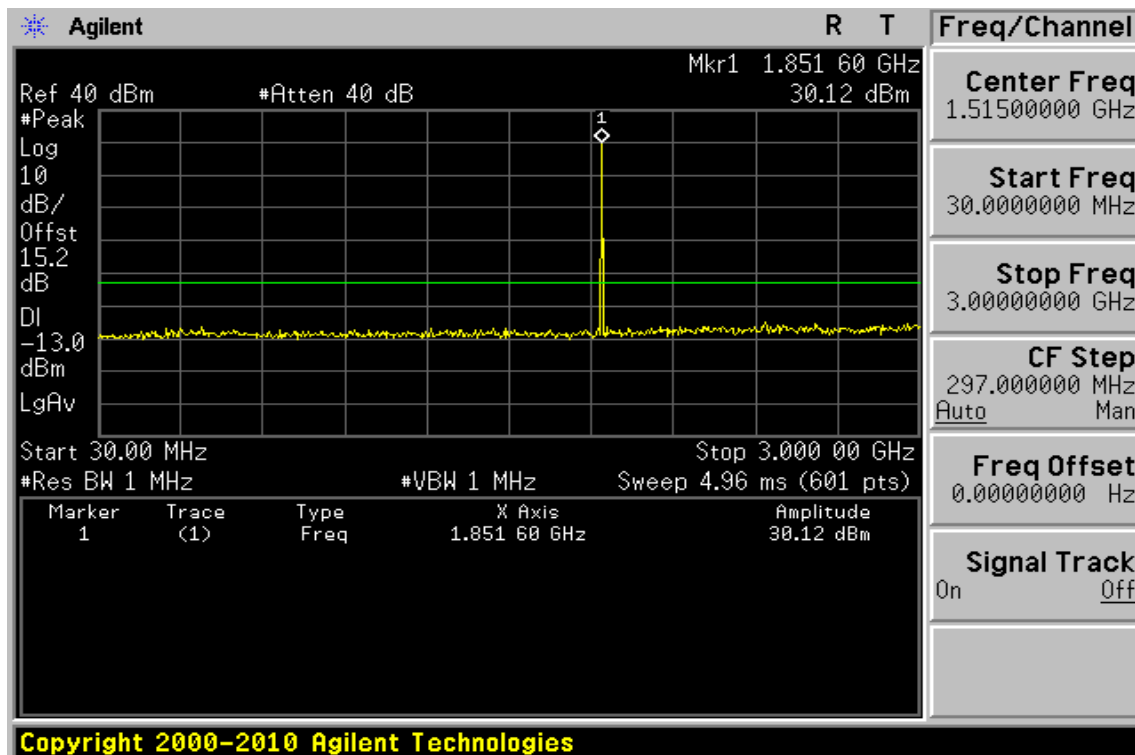
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Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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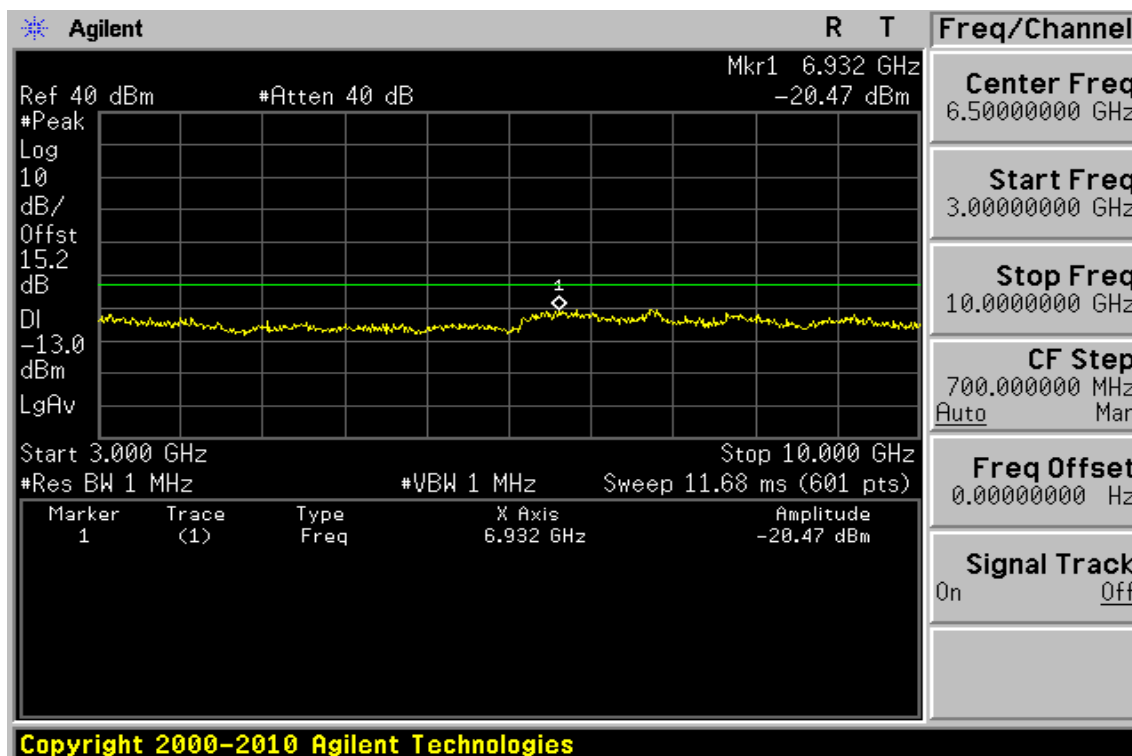
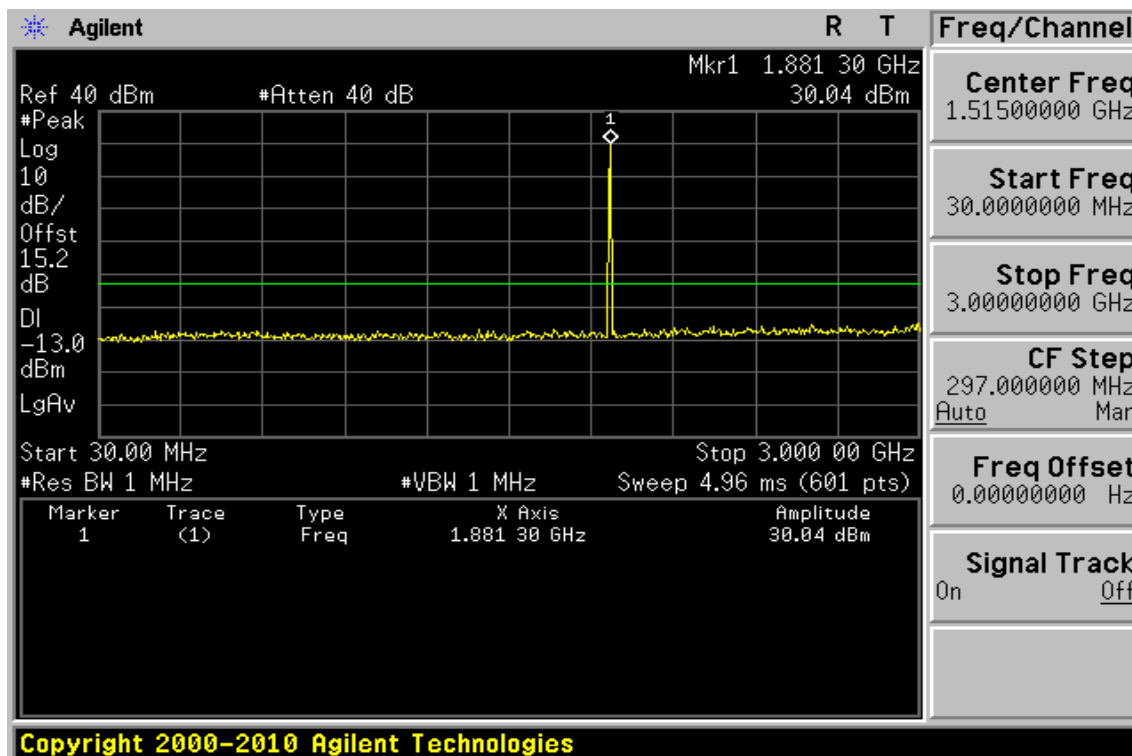
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Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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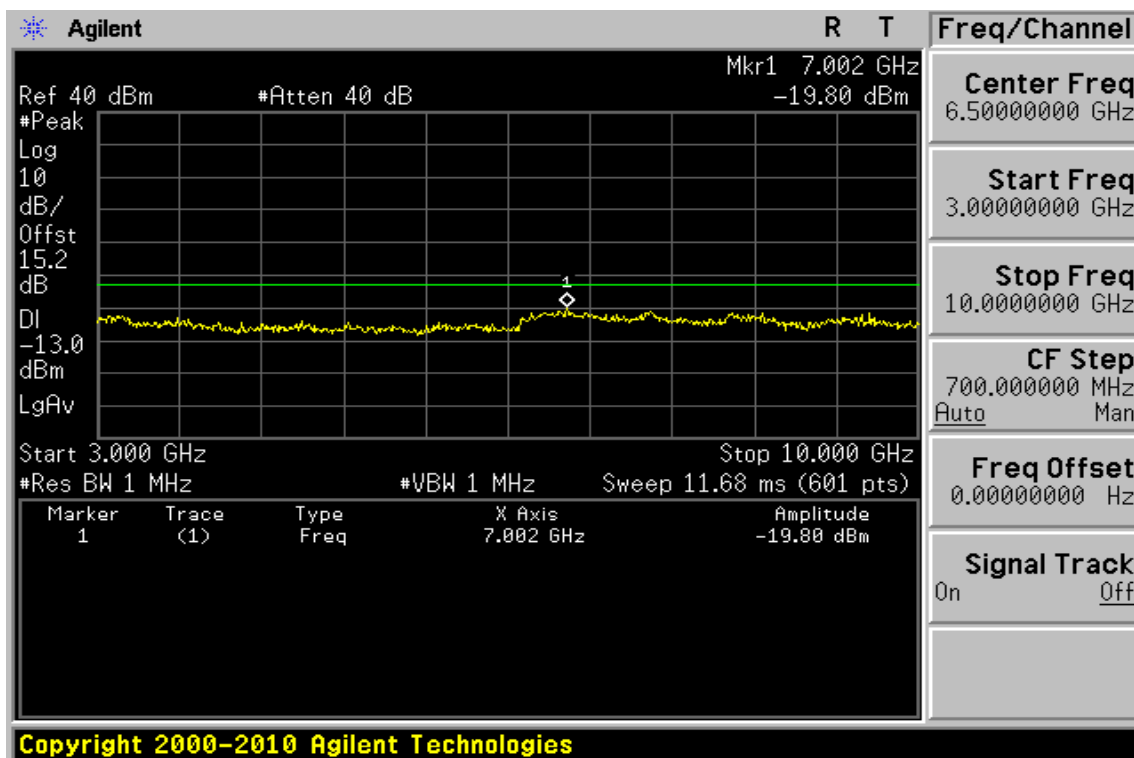
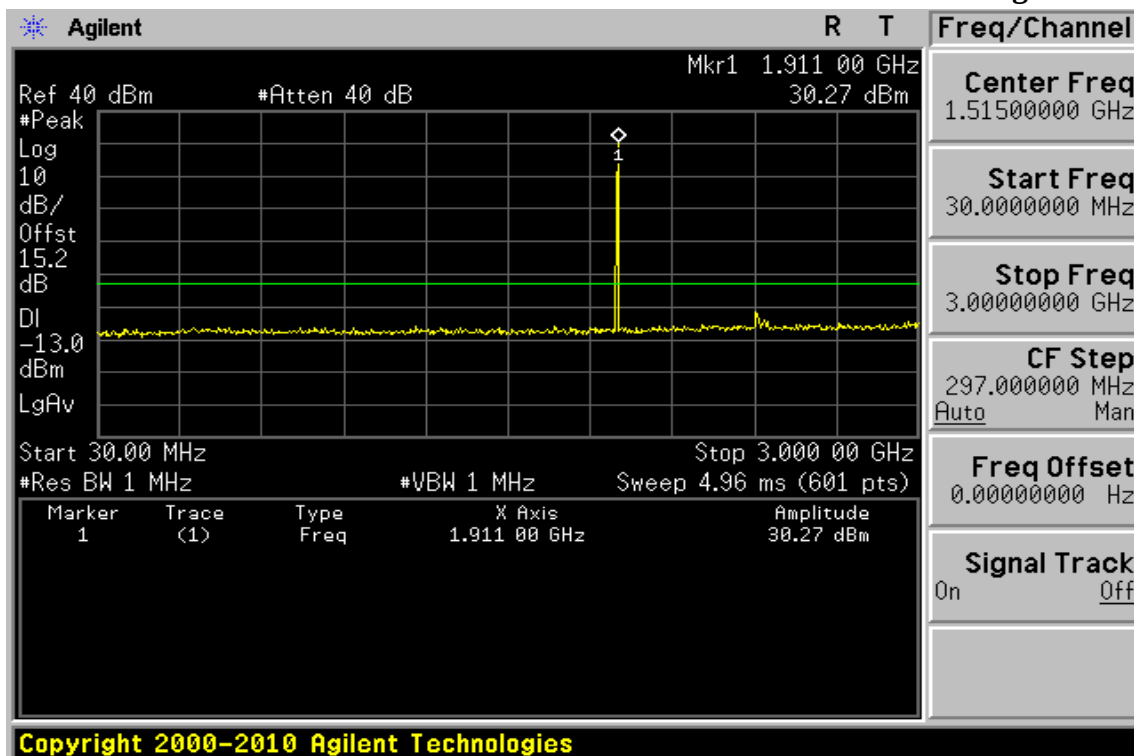
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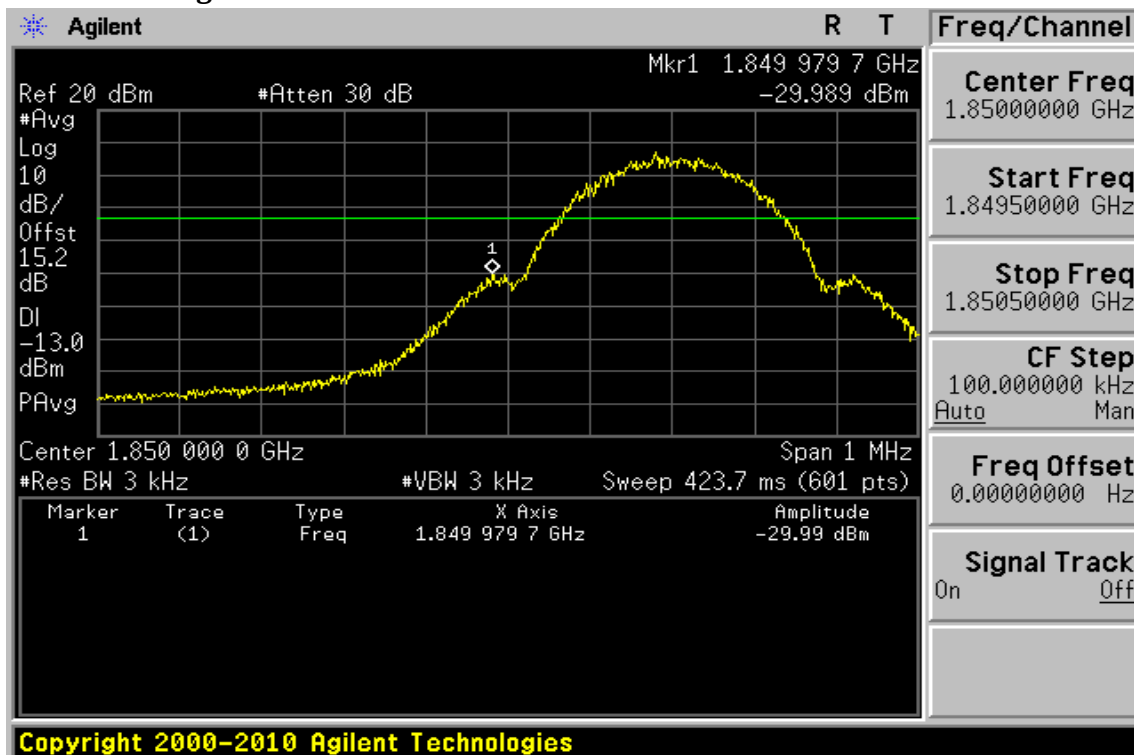
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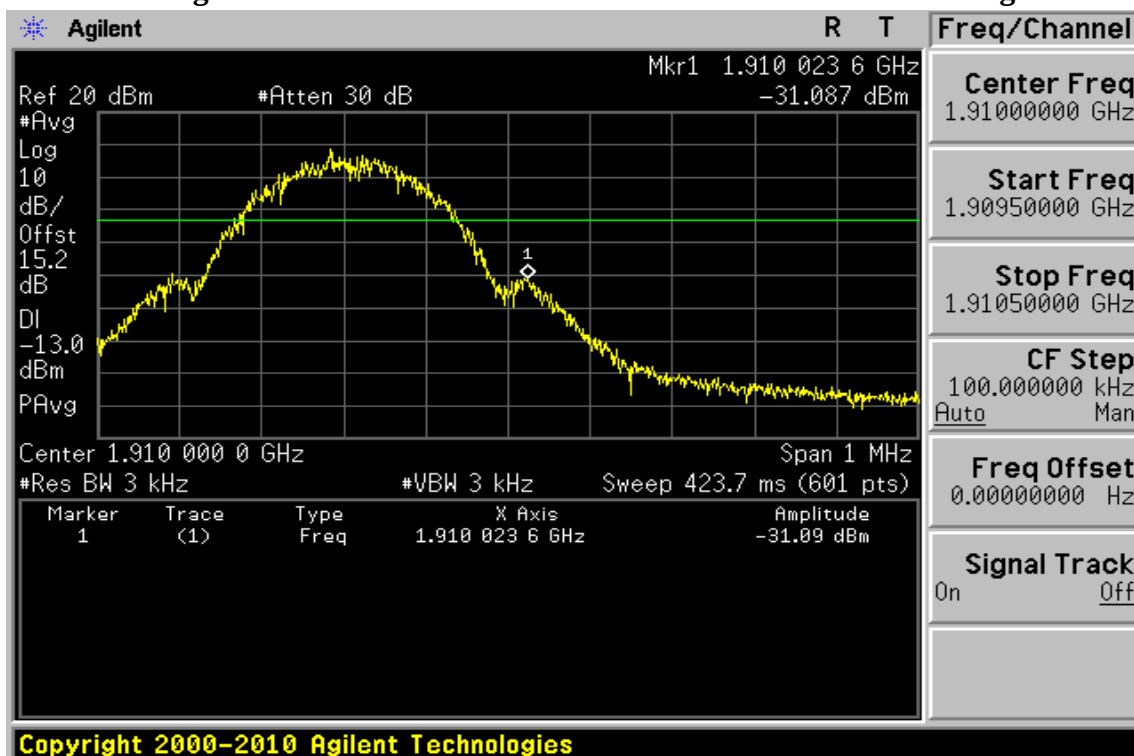
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Band edge emission at antenna terminals – EDGE 1900 Channel Lowest



Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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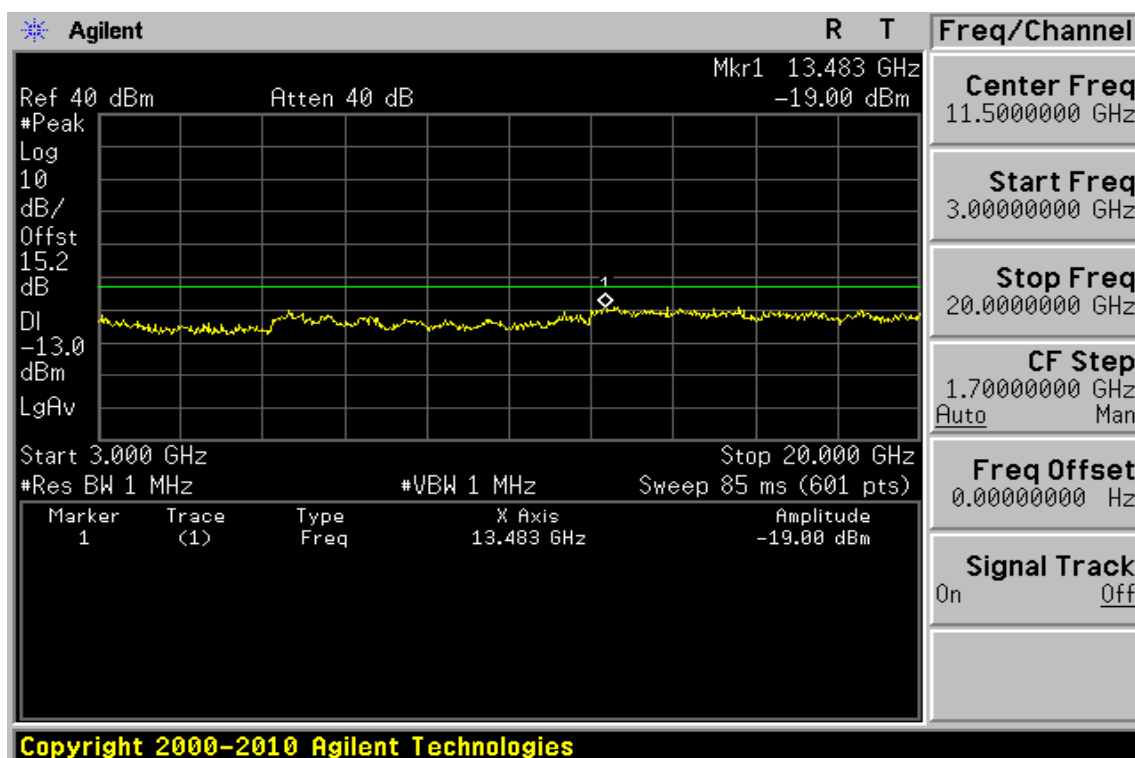
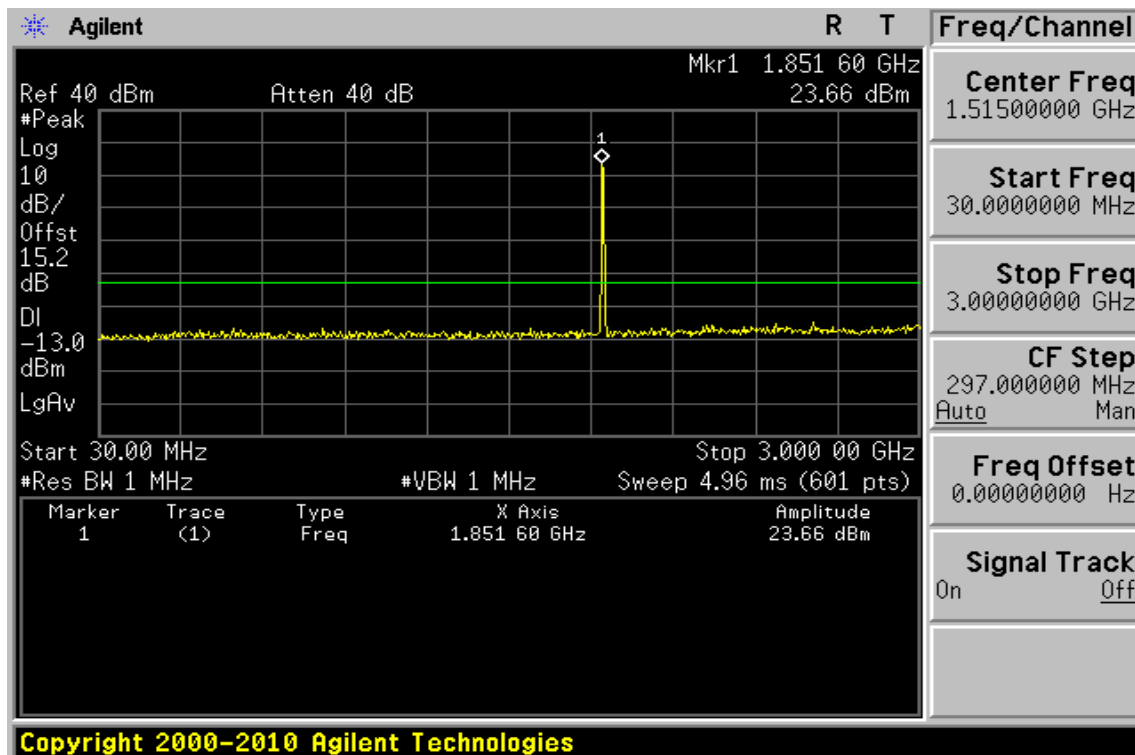
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Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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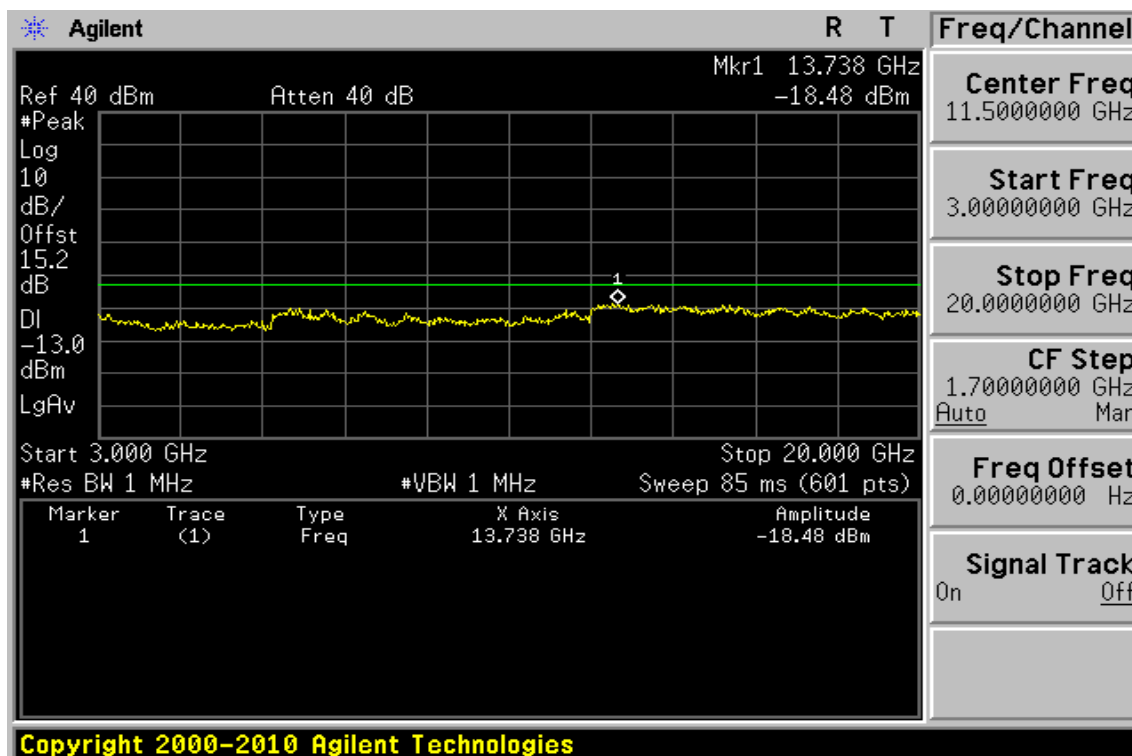
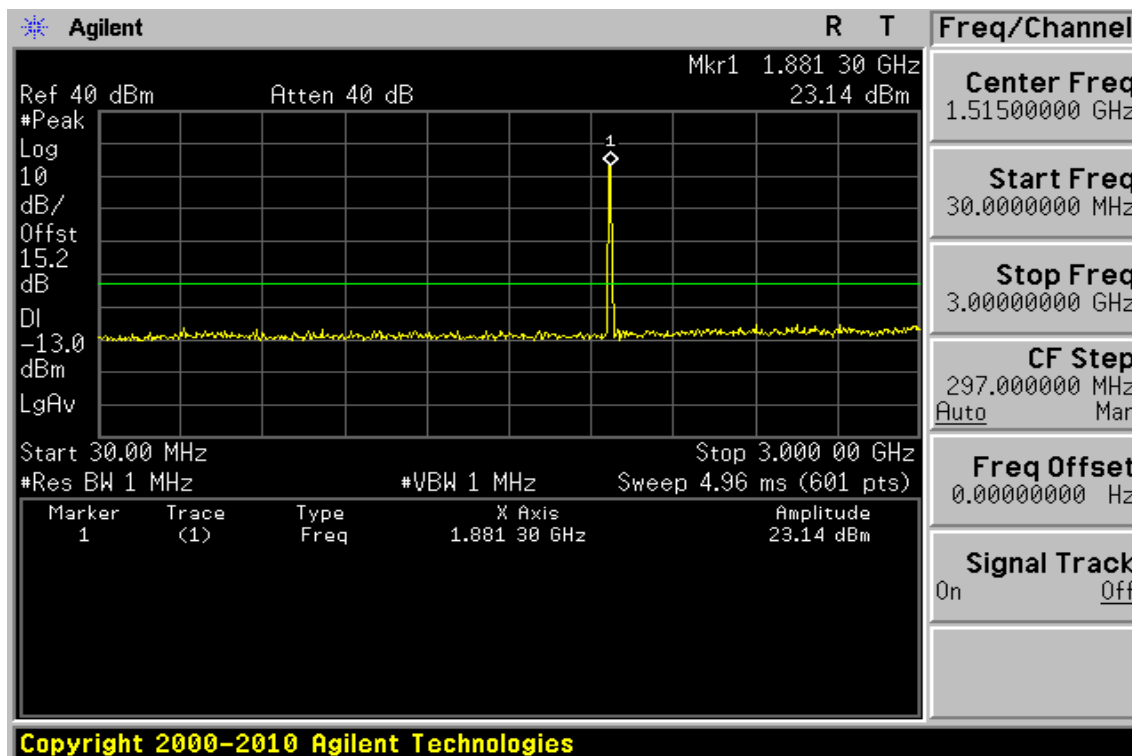
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Out of Band emission at antenna terminals – WCDMA II Channel Mid



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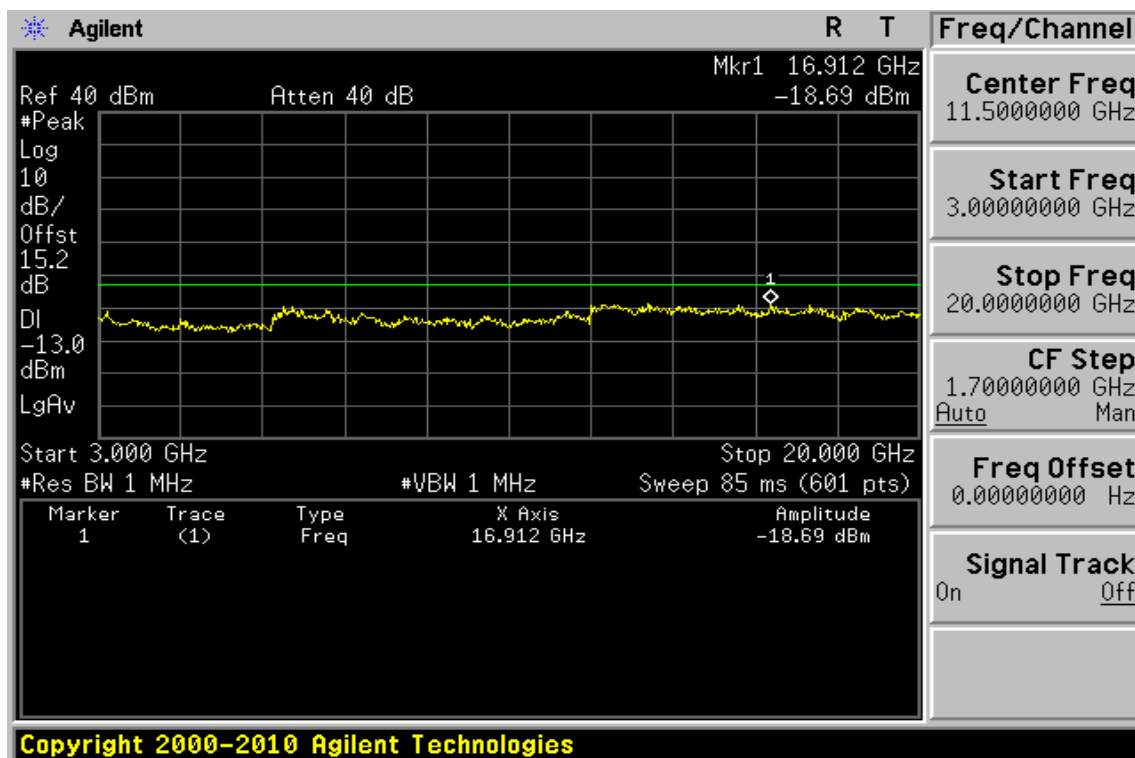
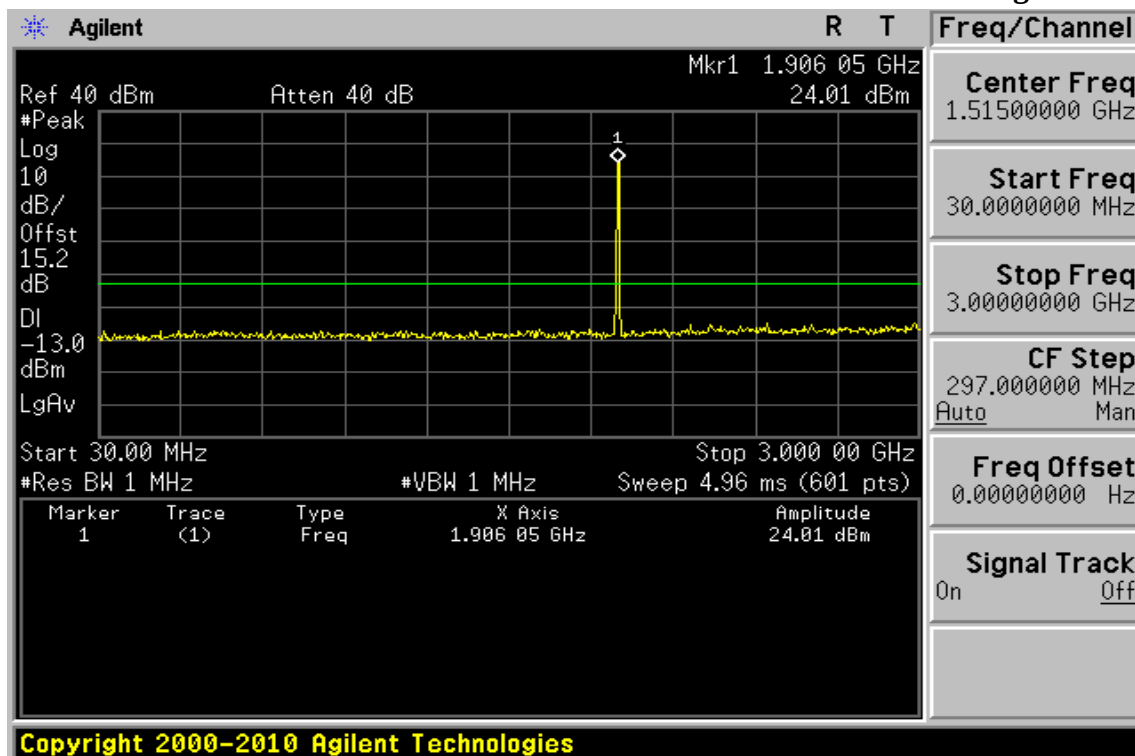
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Out of Band emission at antenna terminals – WCDMA II Channel Highest



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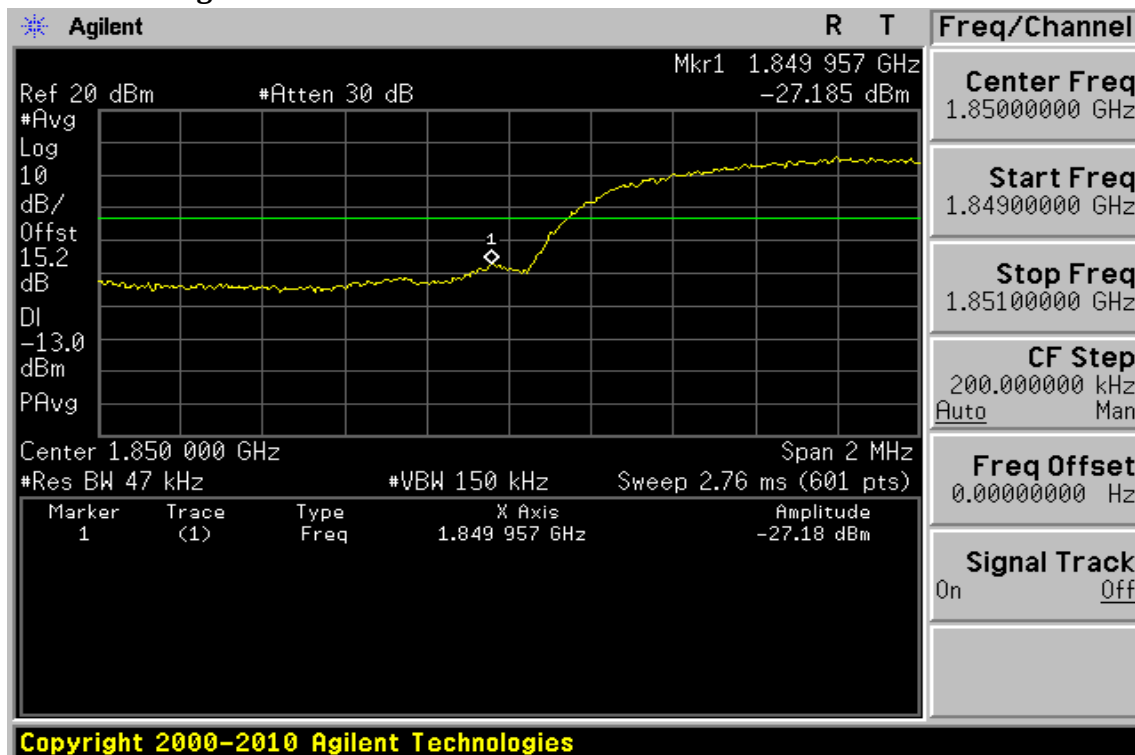
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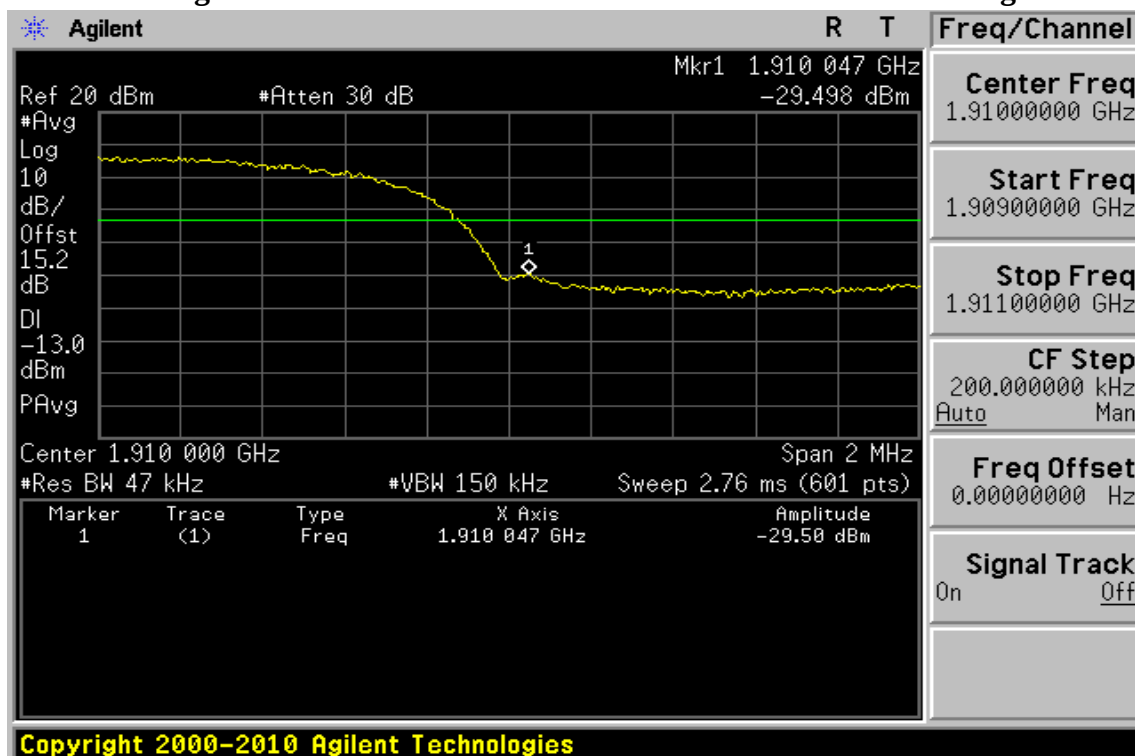
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Band edge emission at antenna terminals – WCDMA II Channel Lowest



Band edge emission at antenna terminals – WCDMA II Channel Highest



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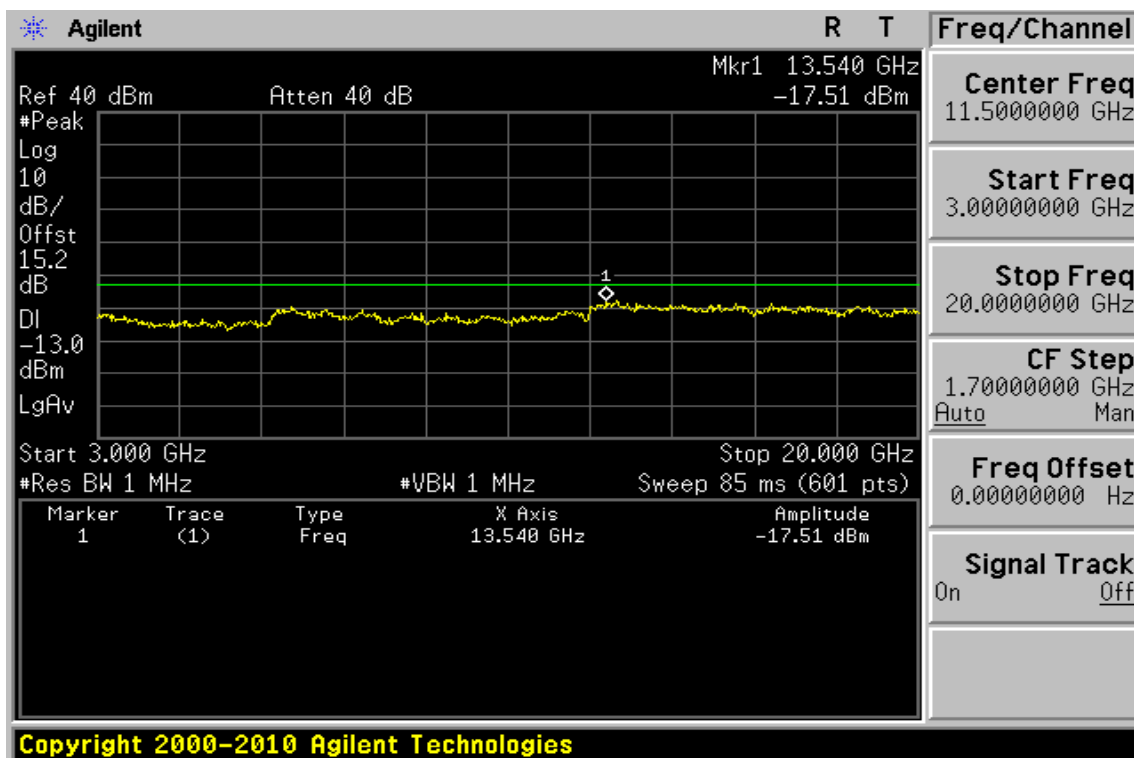
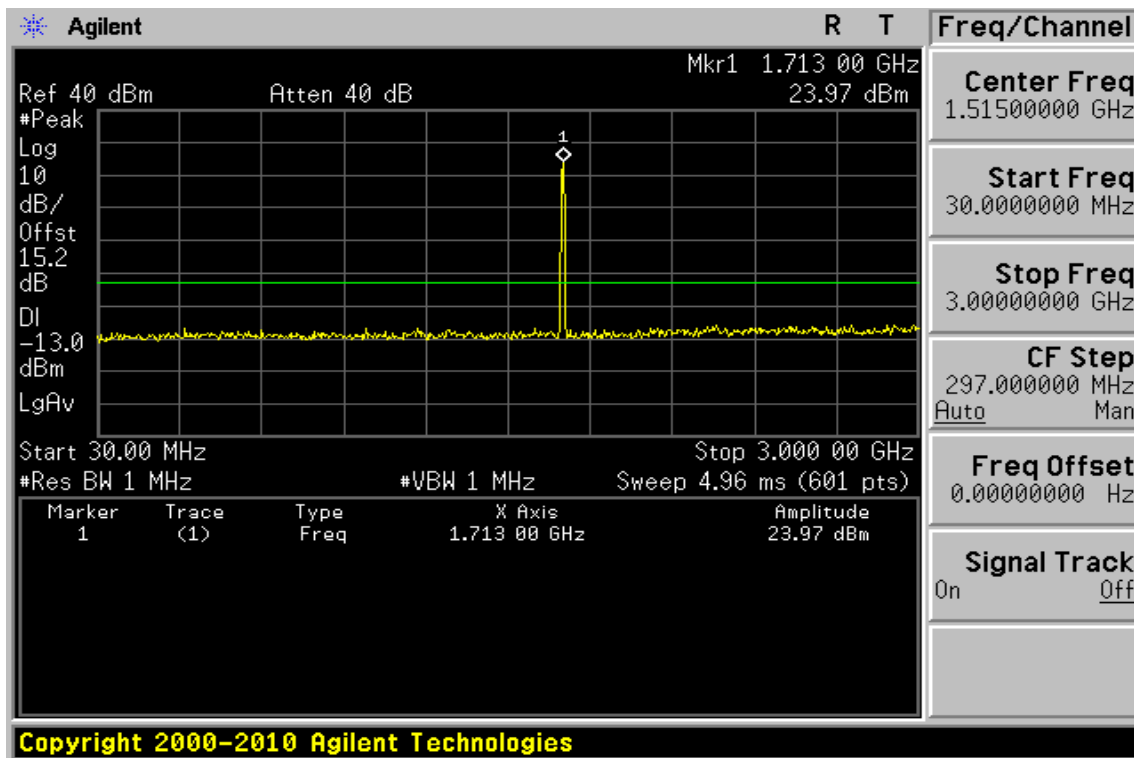
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Out of Band emission at antenna terminals – WCDMA IV Channel Lowest



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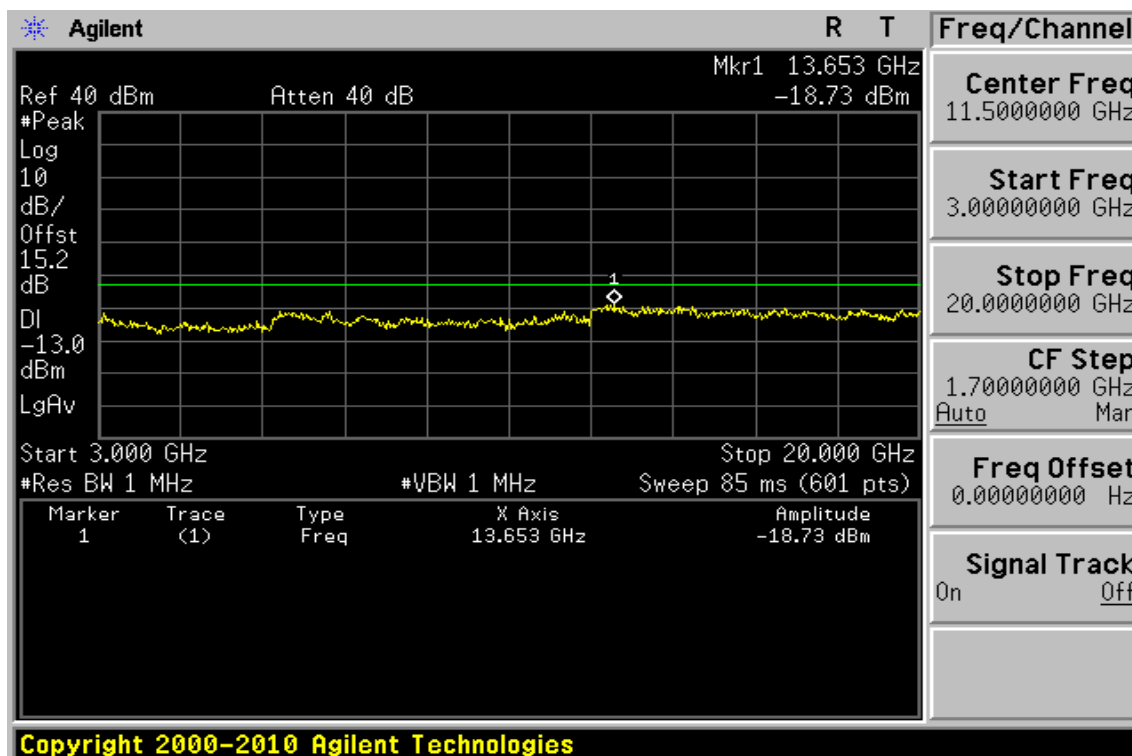
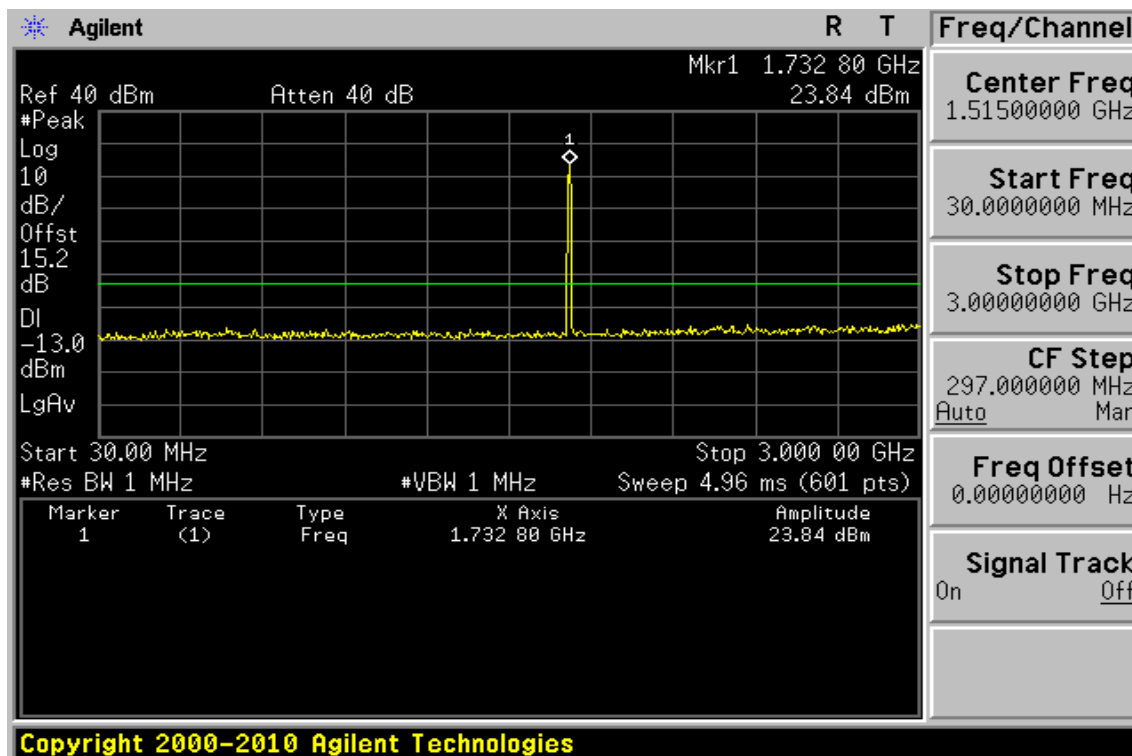
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Out of Band emission at antenna terminals – WCDMA IV Channel Mid



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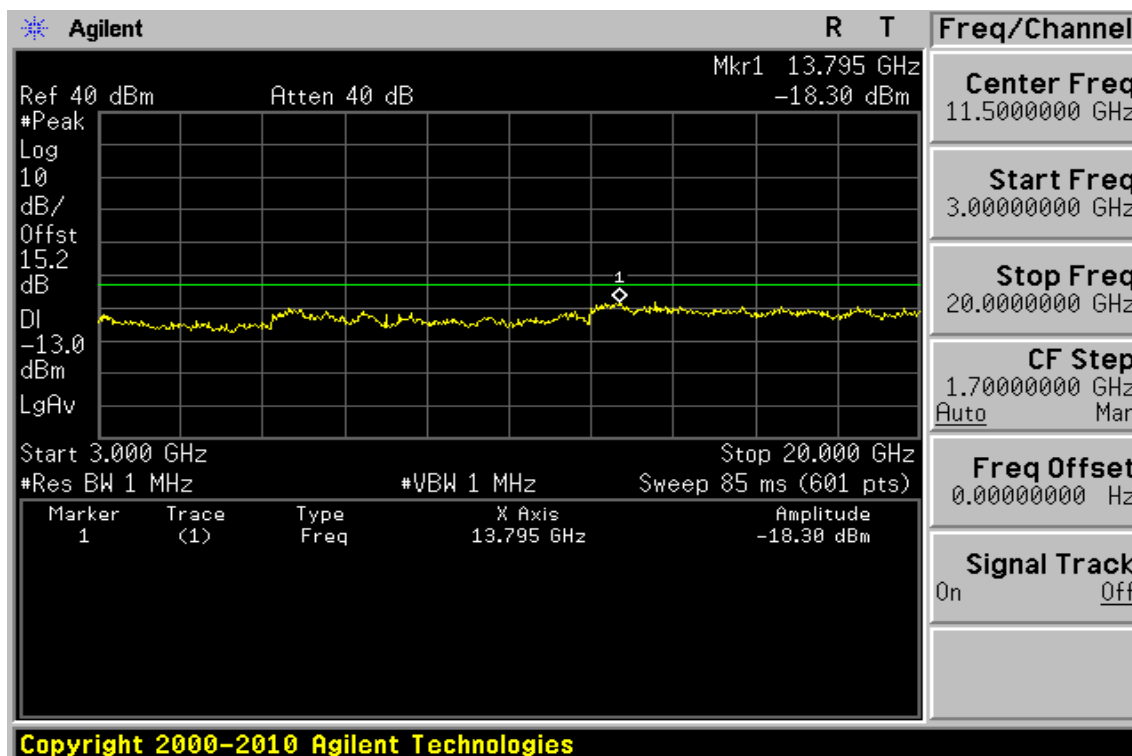
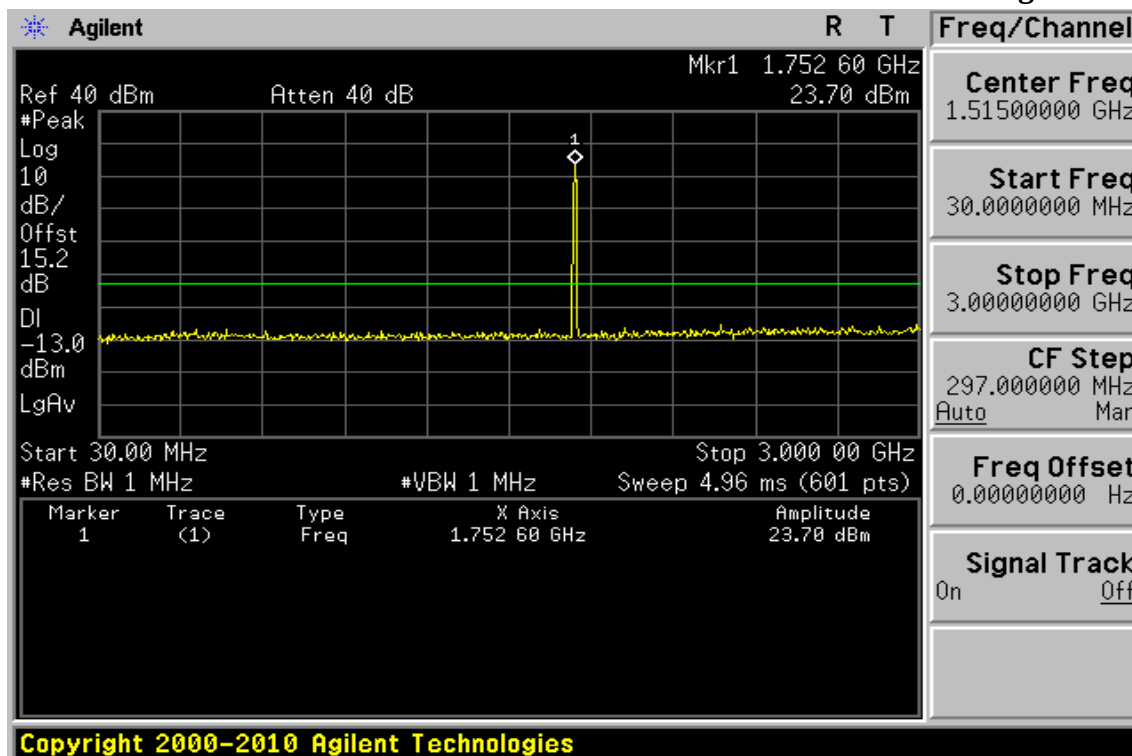
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Out of Band emission at antenna terminals – WCDMA IV Channel Highest



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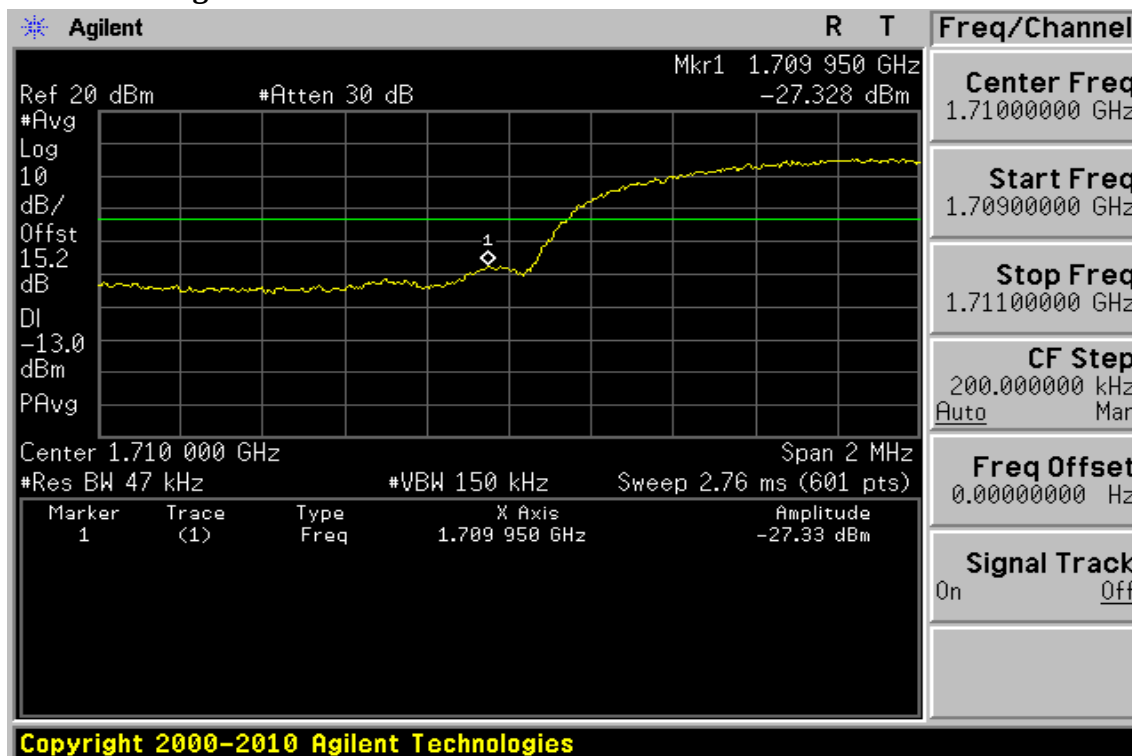
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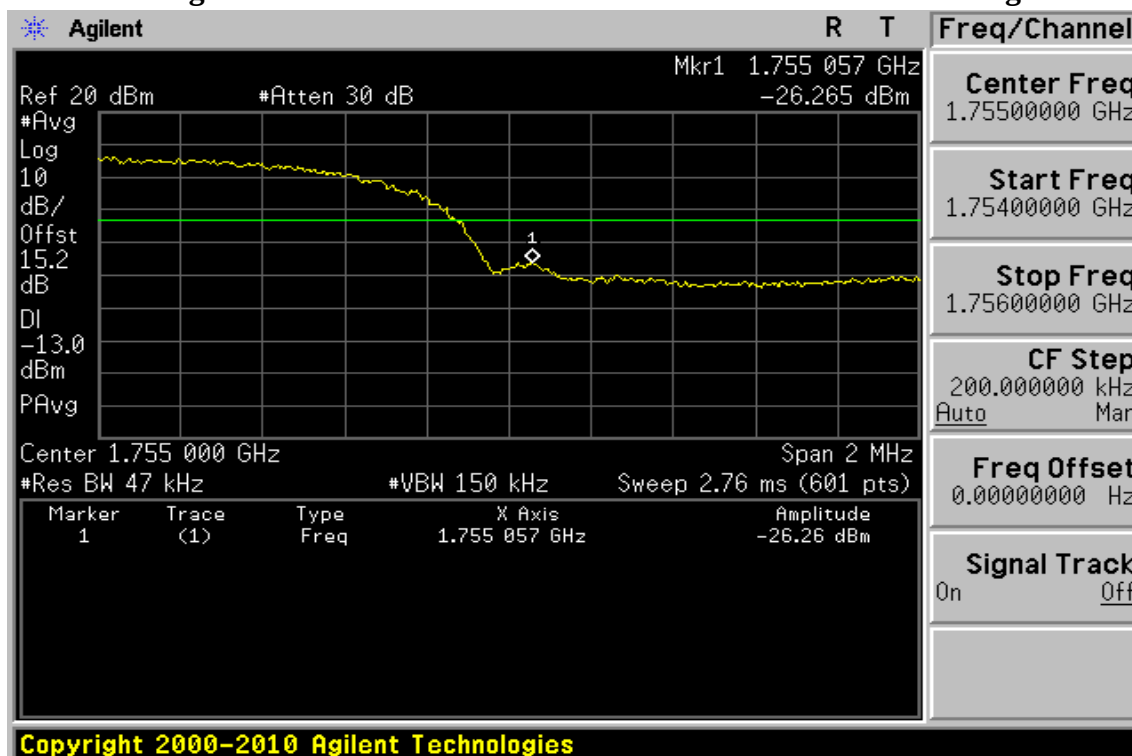
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Band edge emission at antenna terminals – WCDMA IV Channel Lowest



Band edge emission at antenna terminals – WCDMA IV Channel Highest



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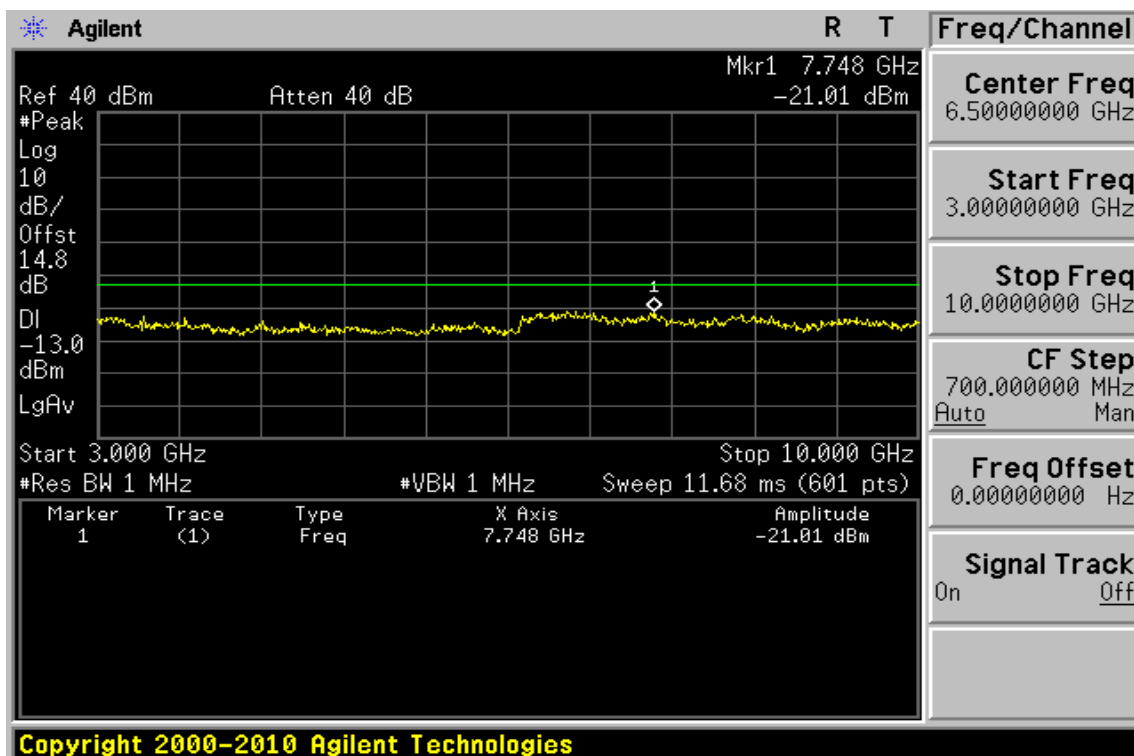
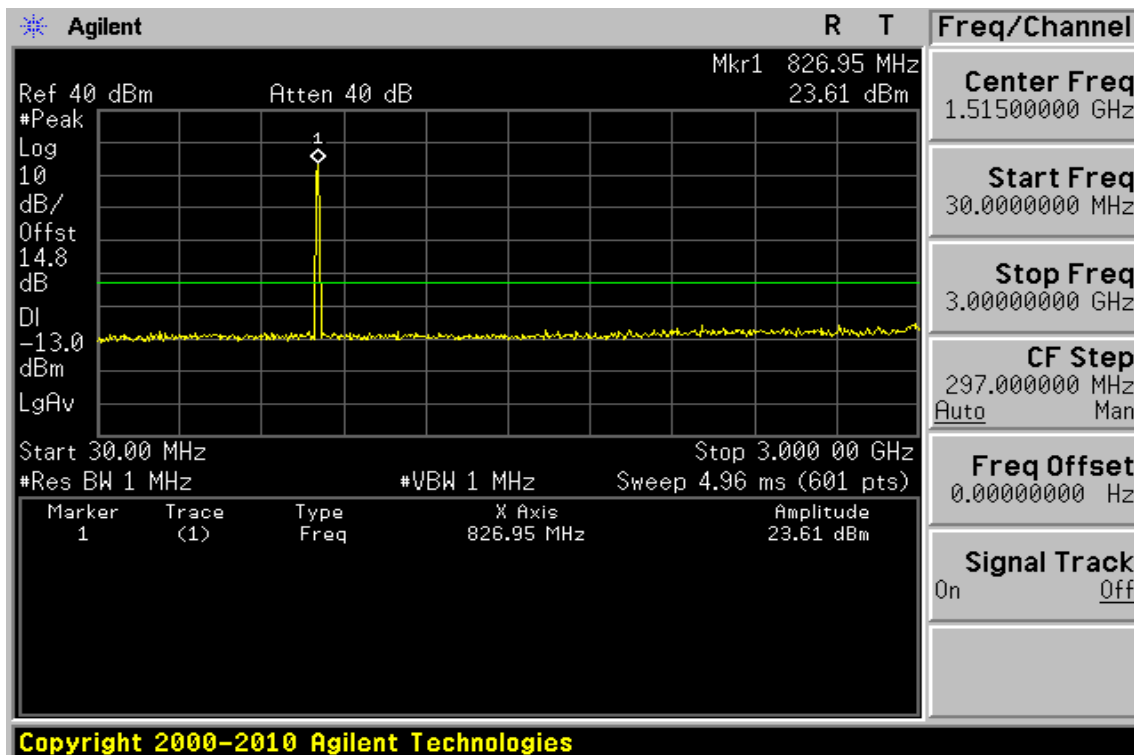
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Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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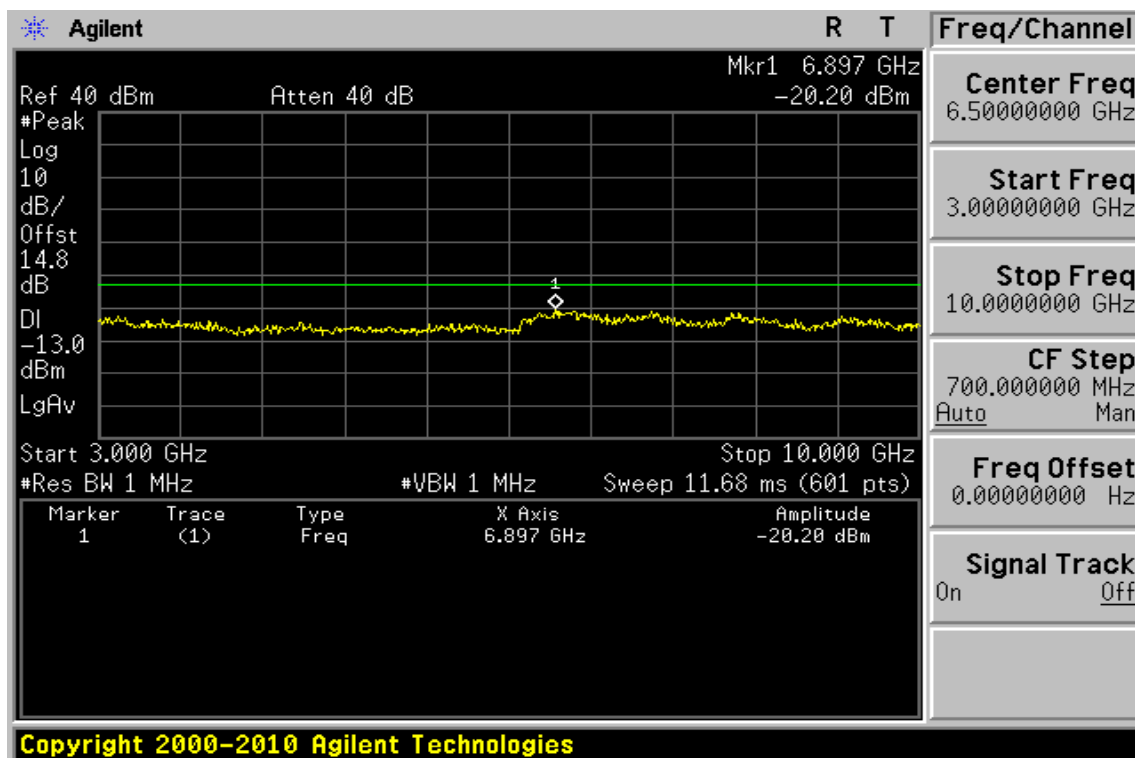
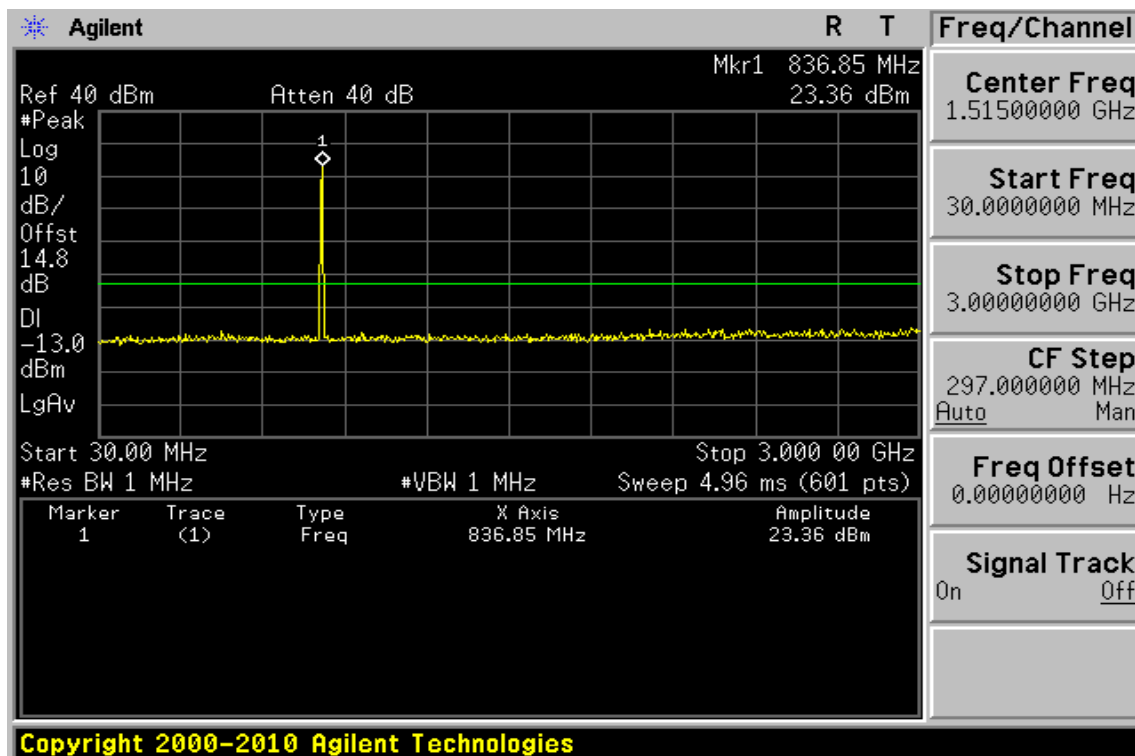
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Out of Band emission at antenna terminals – WCDMA V Channel Mid



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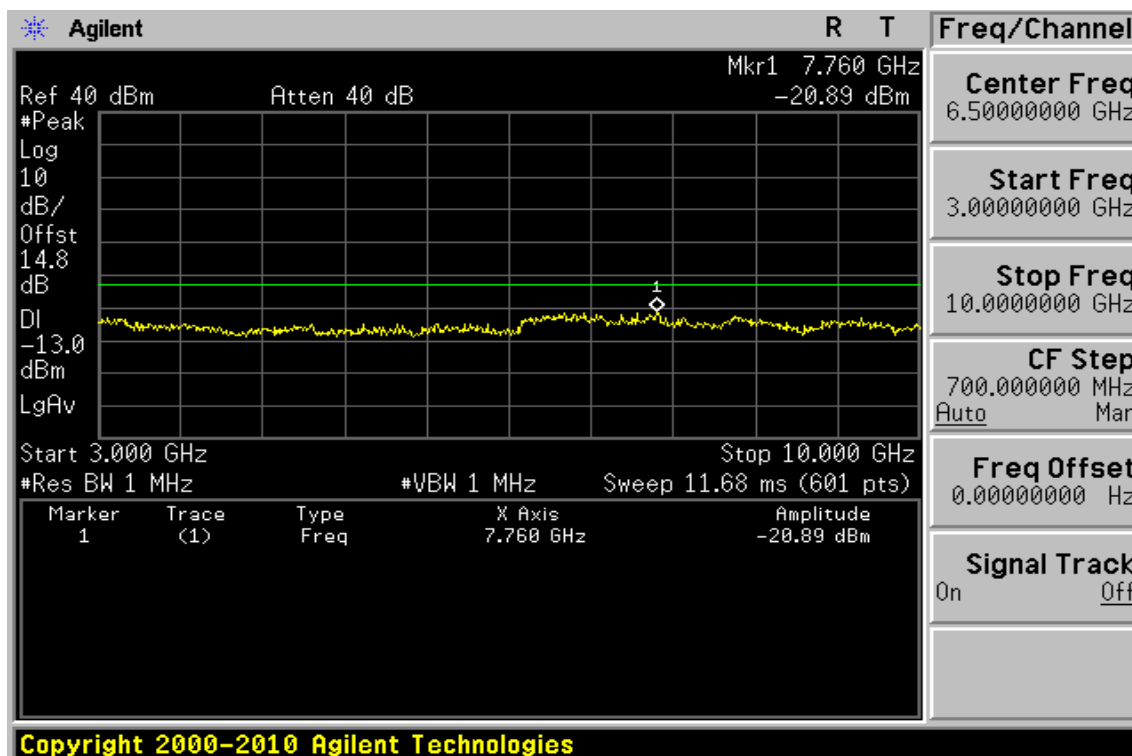
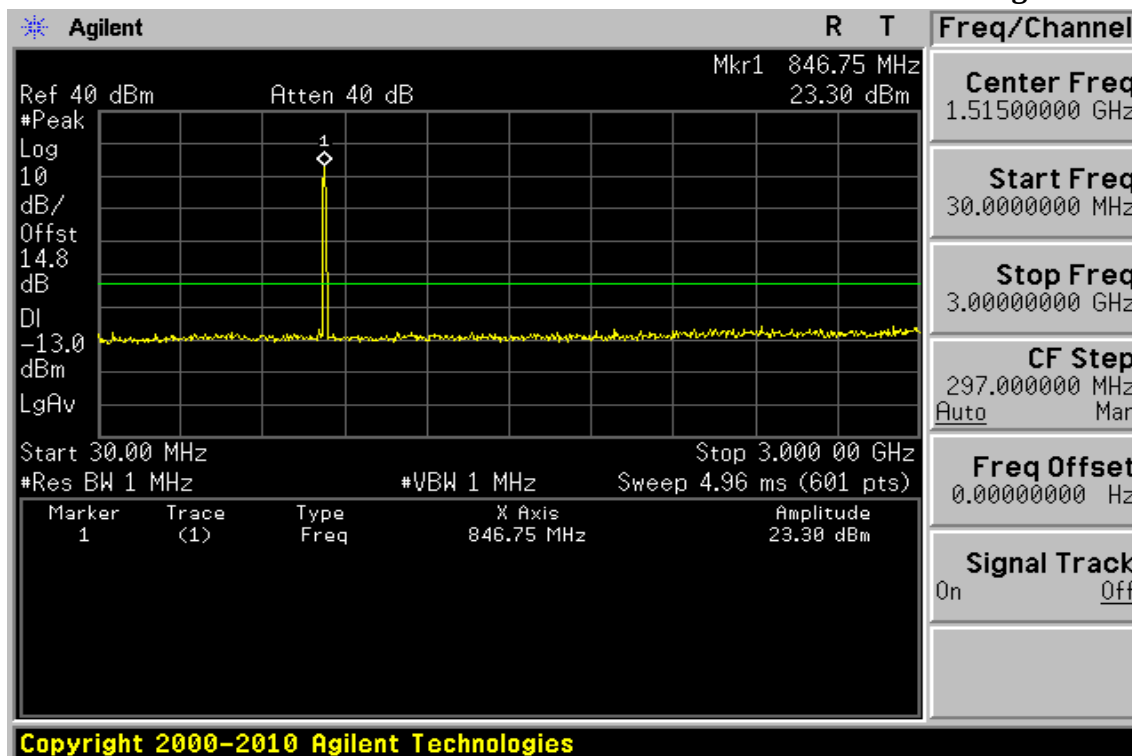
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Out of Band emission at antenna terminals – WCDMA V Channel Highest



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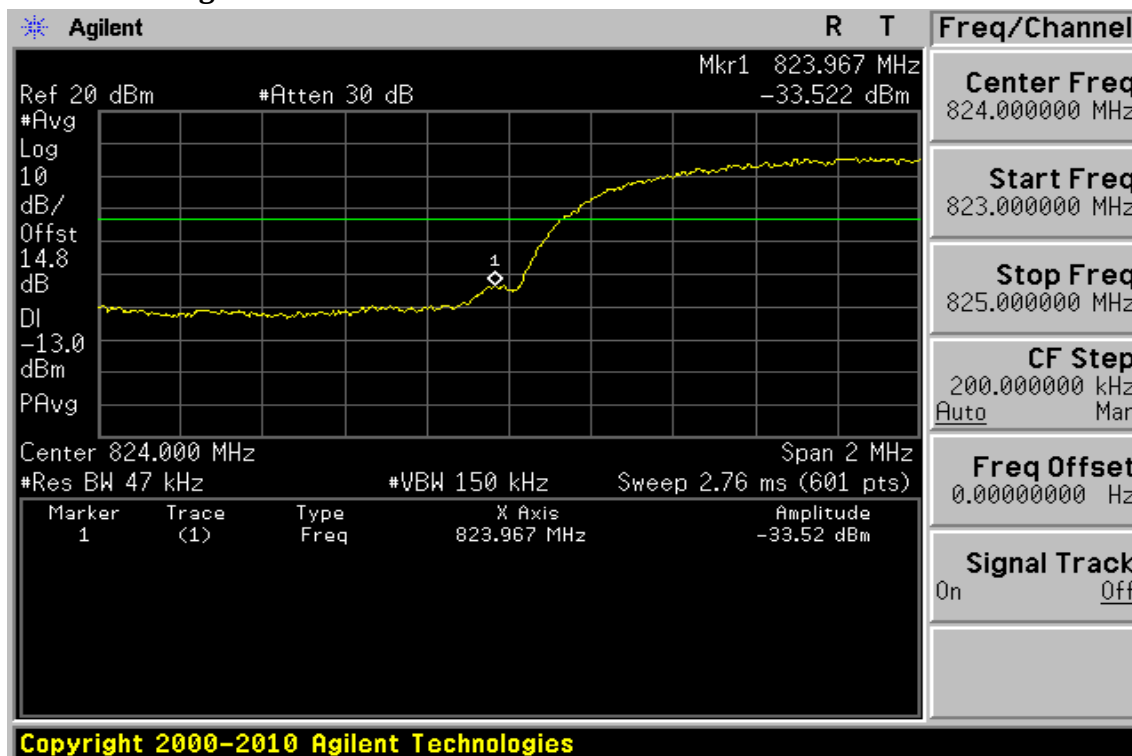
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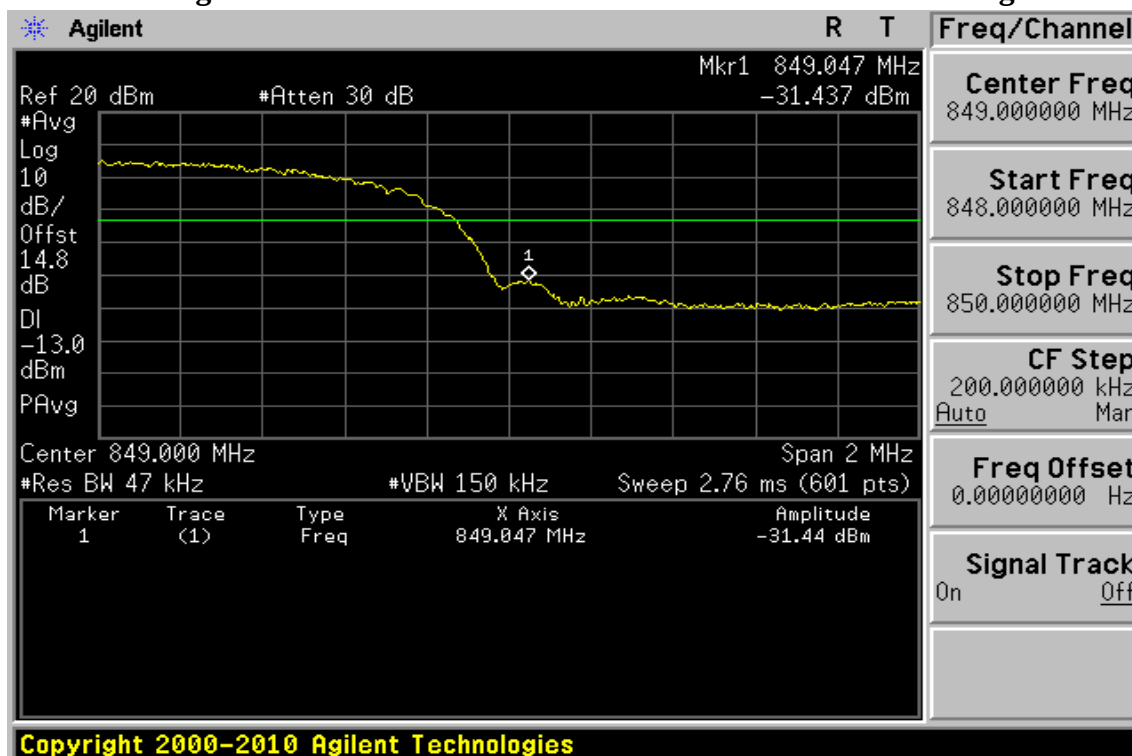
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Band edge emission at antenna terminals – WCDMA V Channel Lowest



Band edge emission at antenna terminals – WCDMA V Channel Highest



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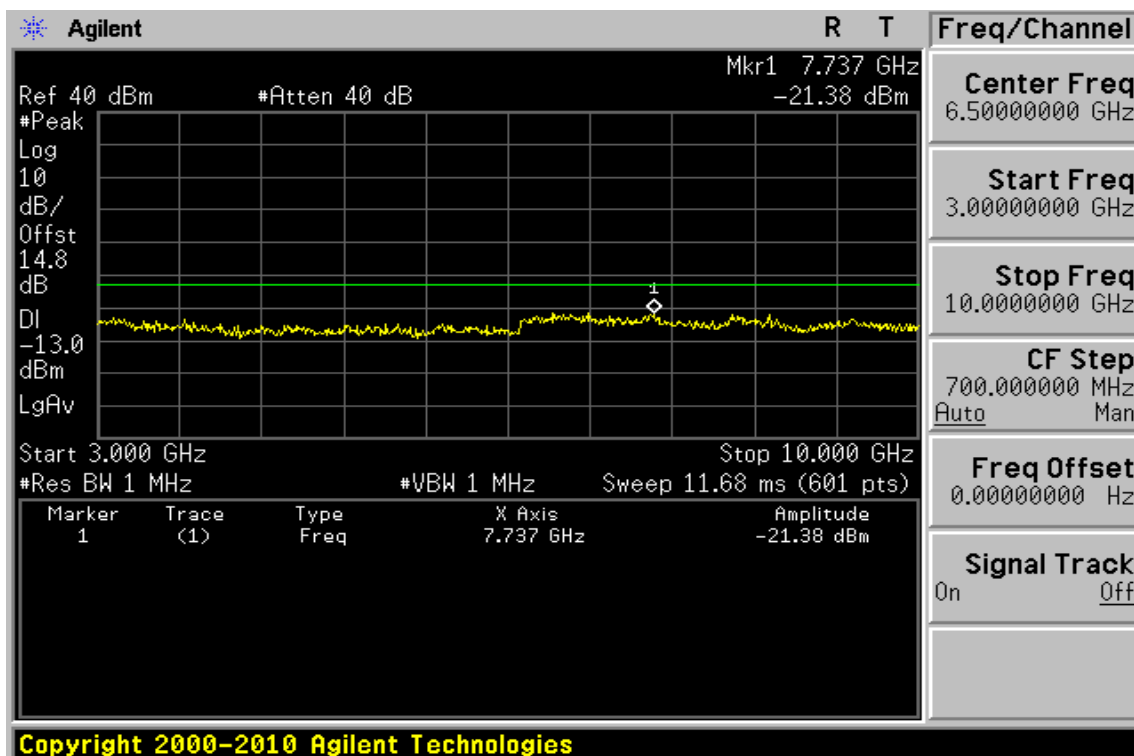
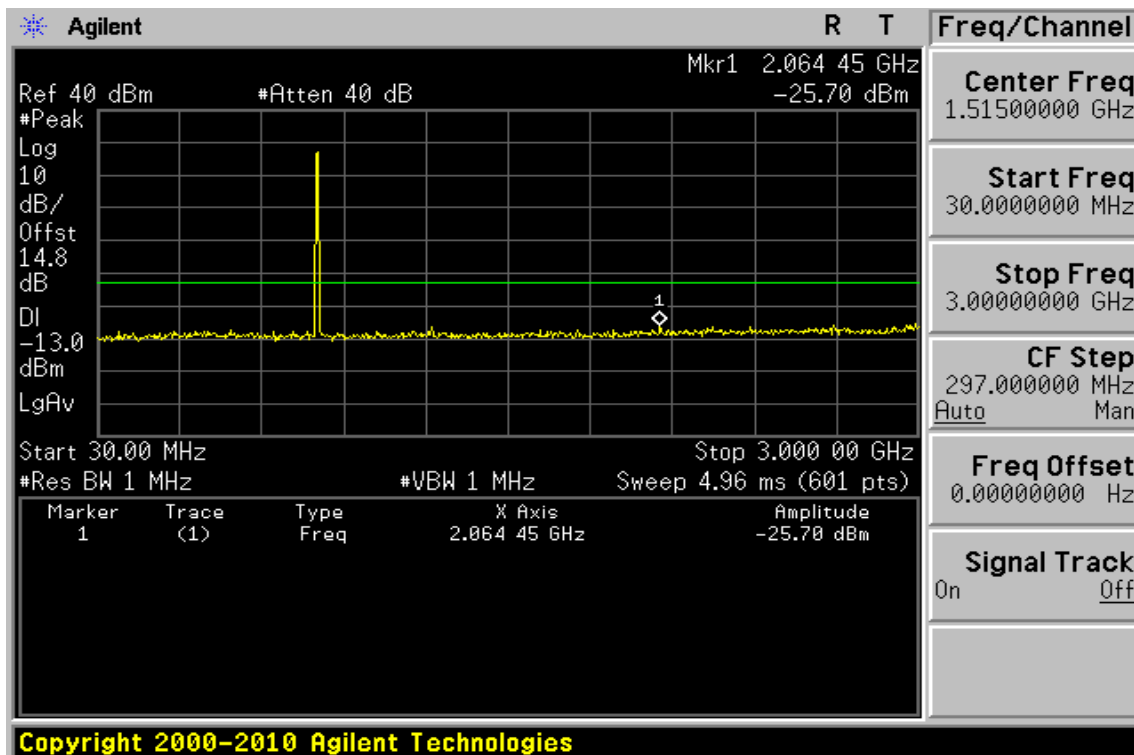
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Out of Band emission at antenna terminals – CDMA BC0 Channel Lowest



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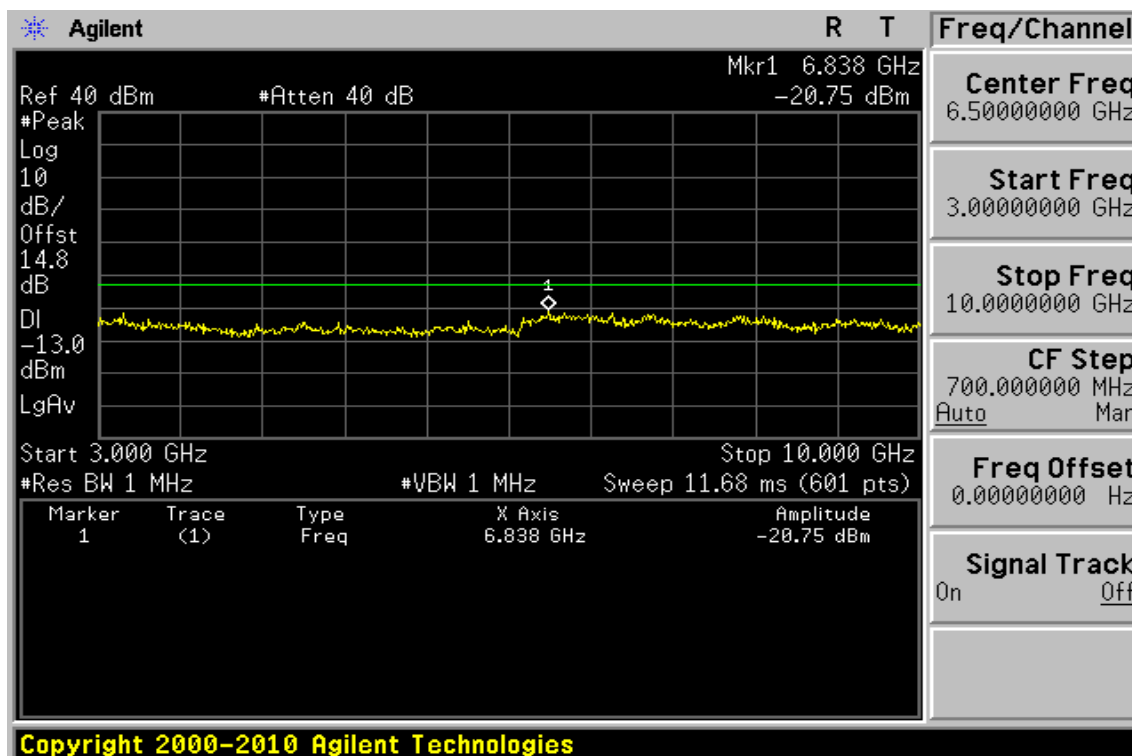
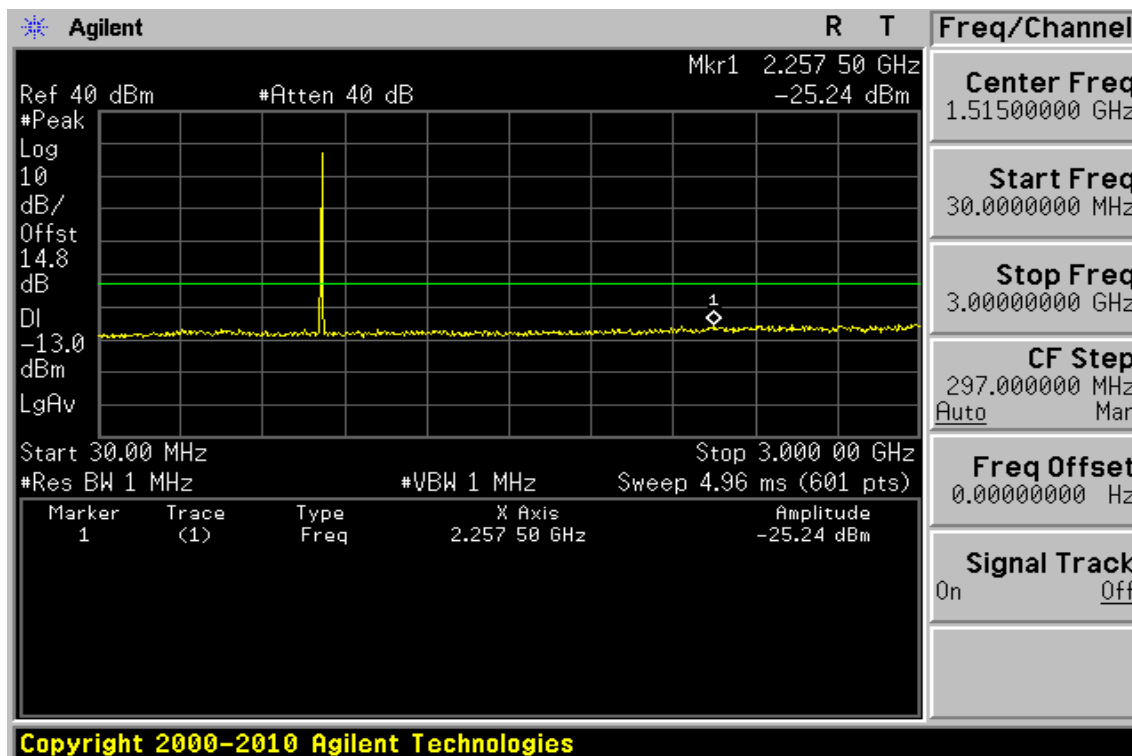
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Out of Band emission at antenna terminals – CDMA BC0 Channel Mid



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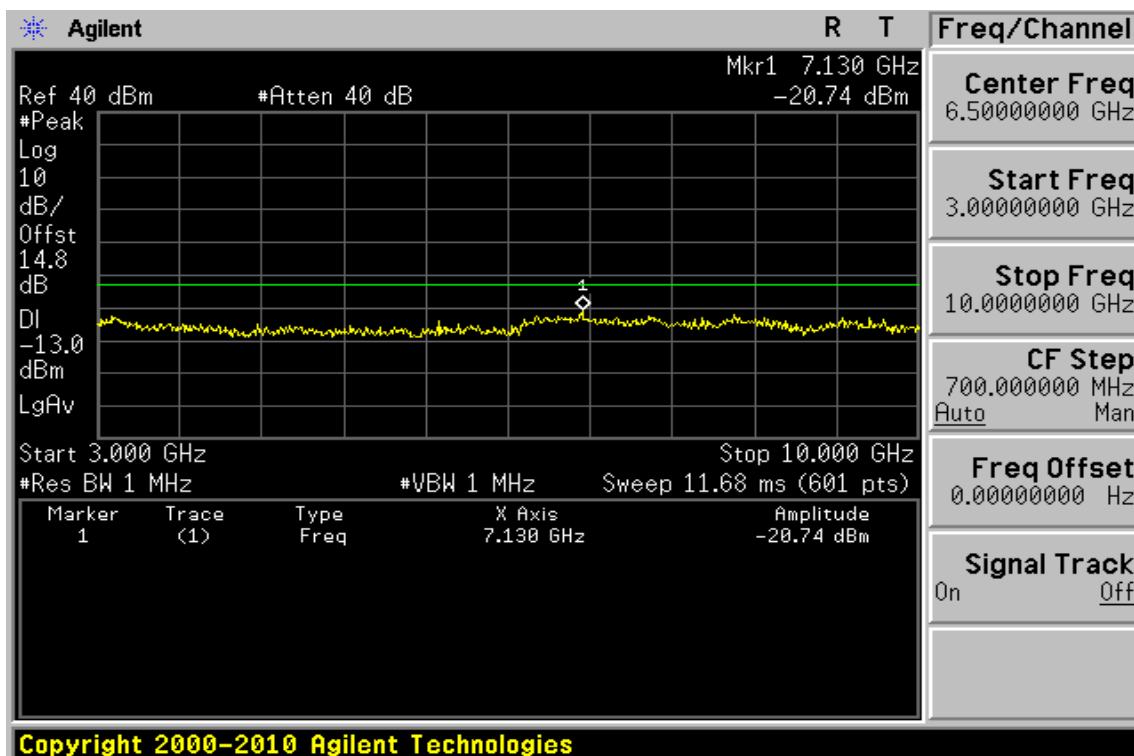
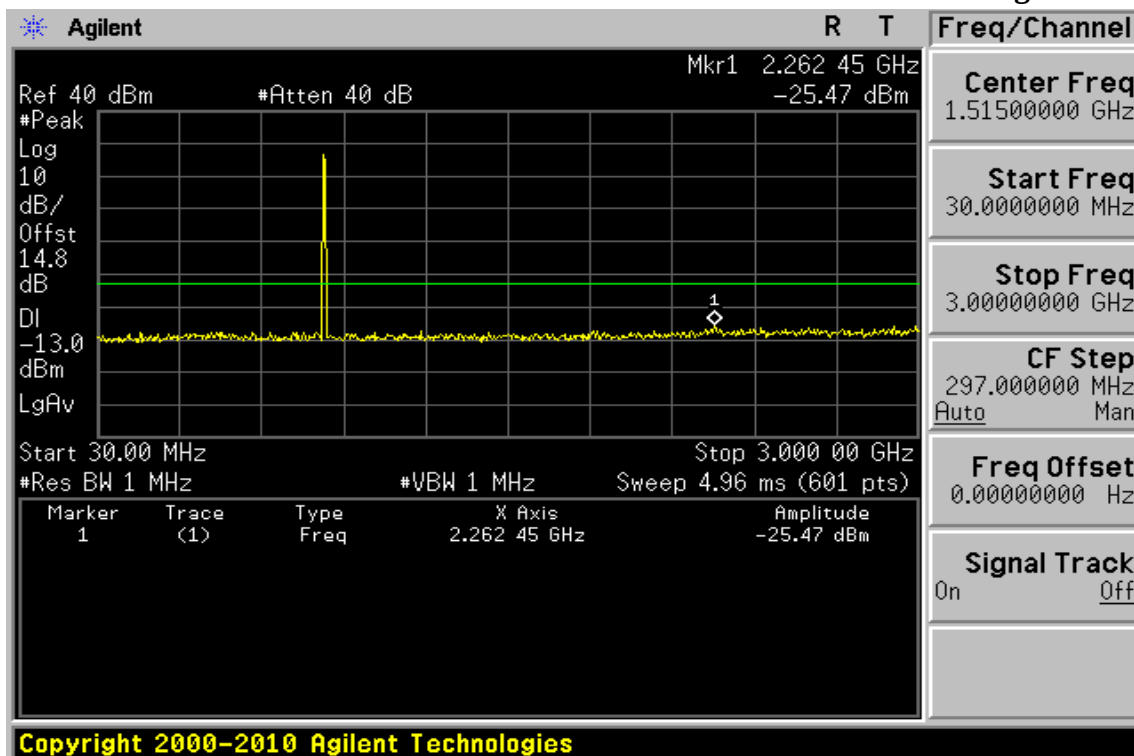
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Out of Band emission at antenna terminals – CDMA BC0 Channel Highest



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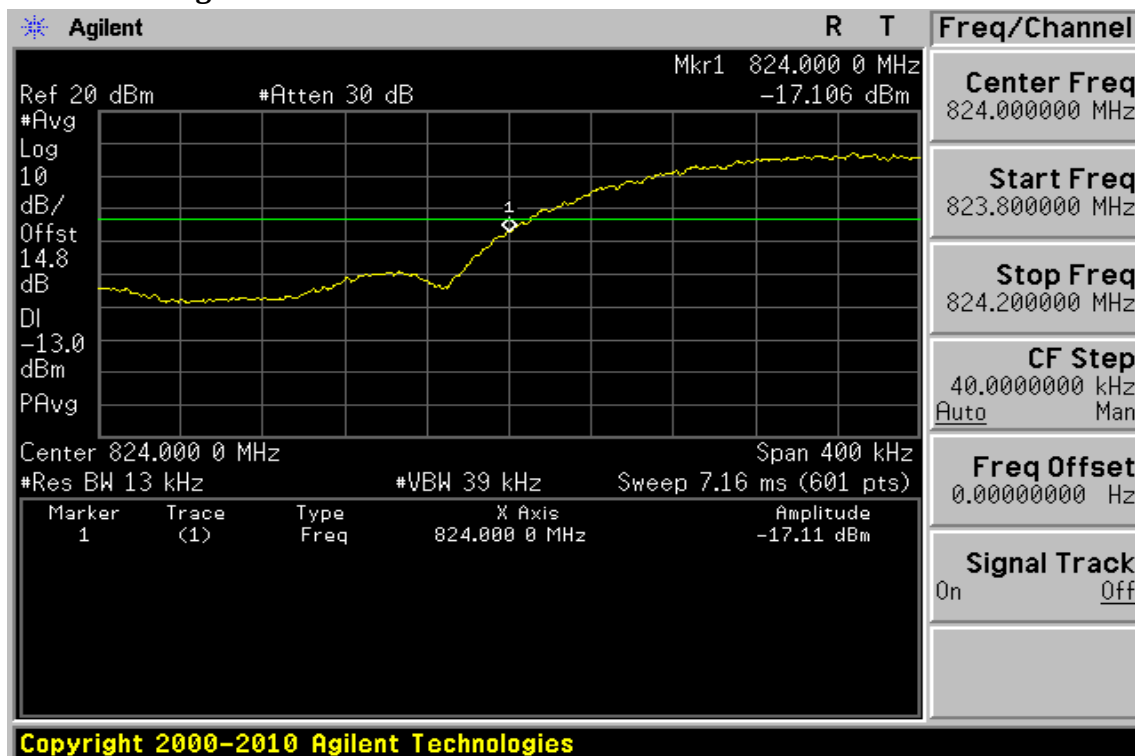
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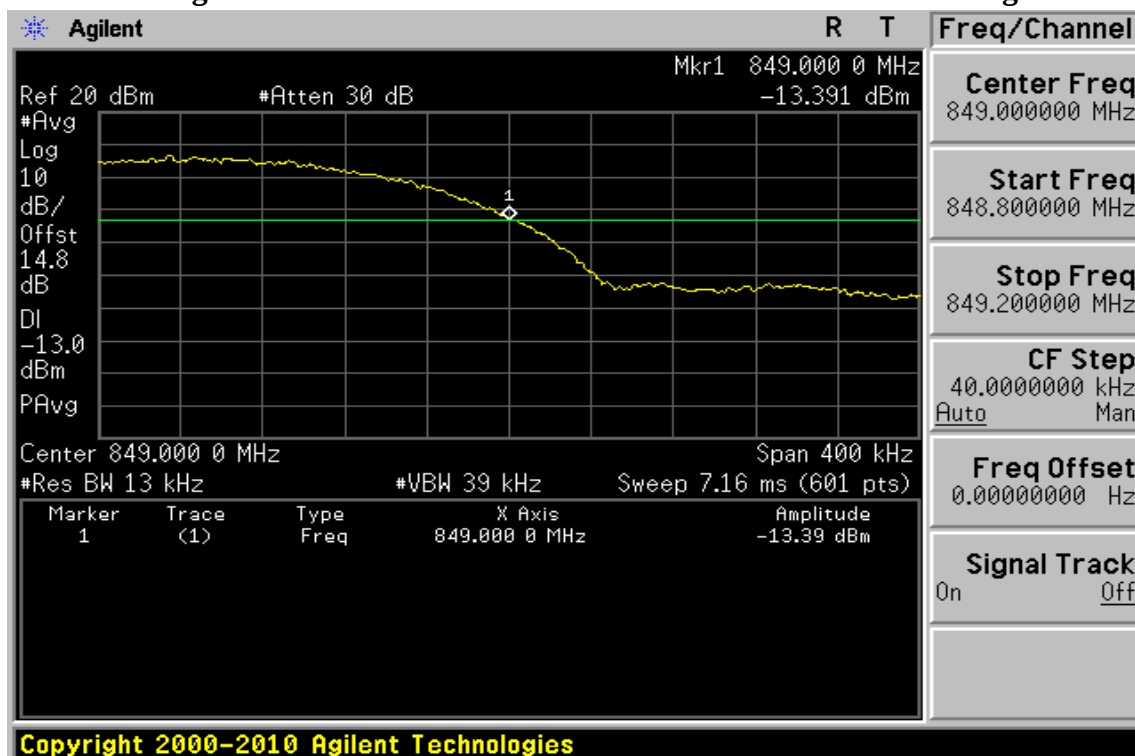
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Band edge emission at antenna terminals – CDMA BC0 Channel Lowest



Band edge emission at antenna terminals – CDMA BC0 Channel Highest



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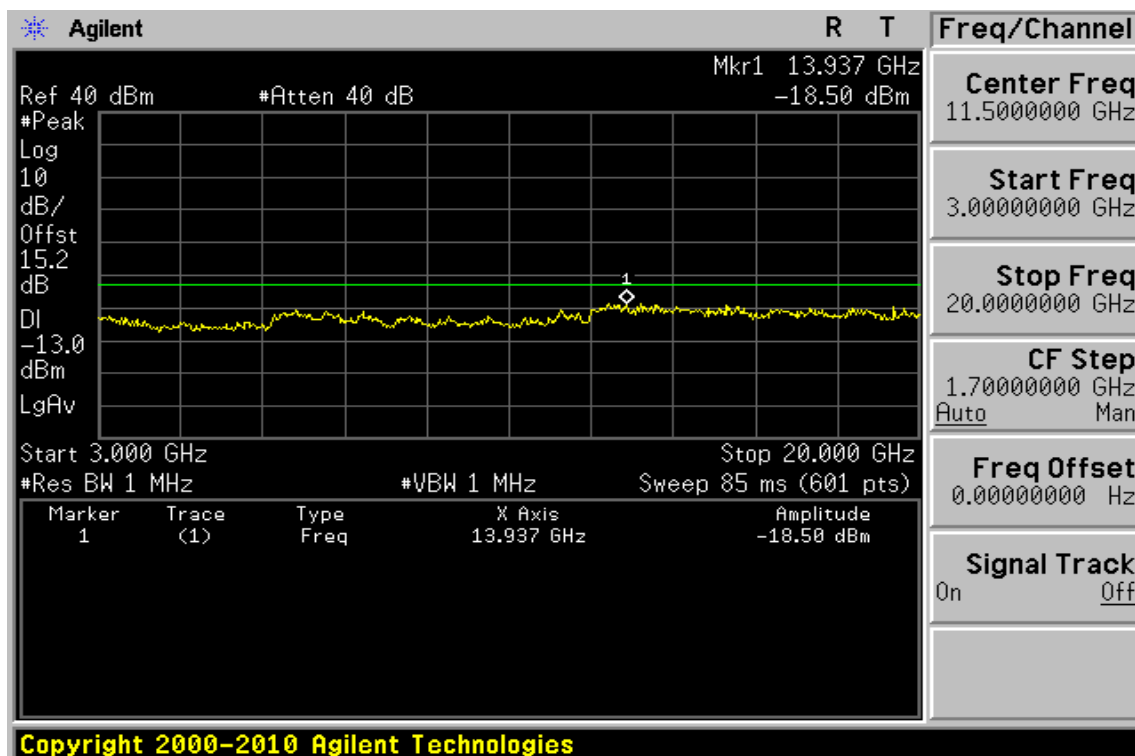
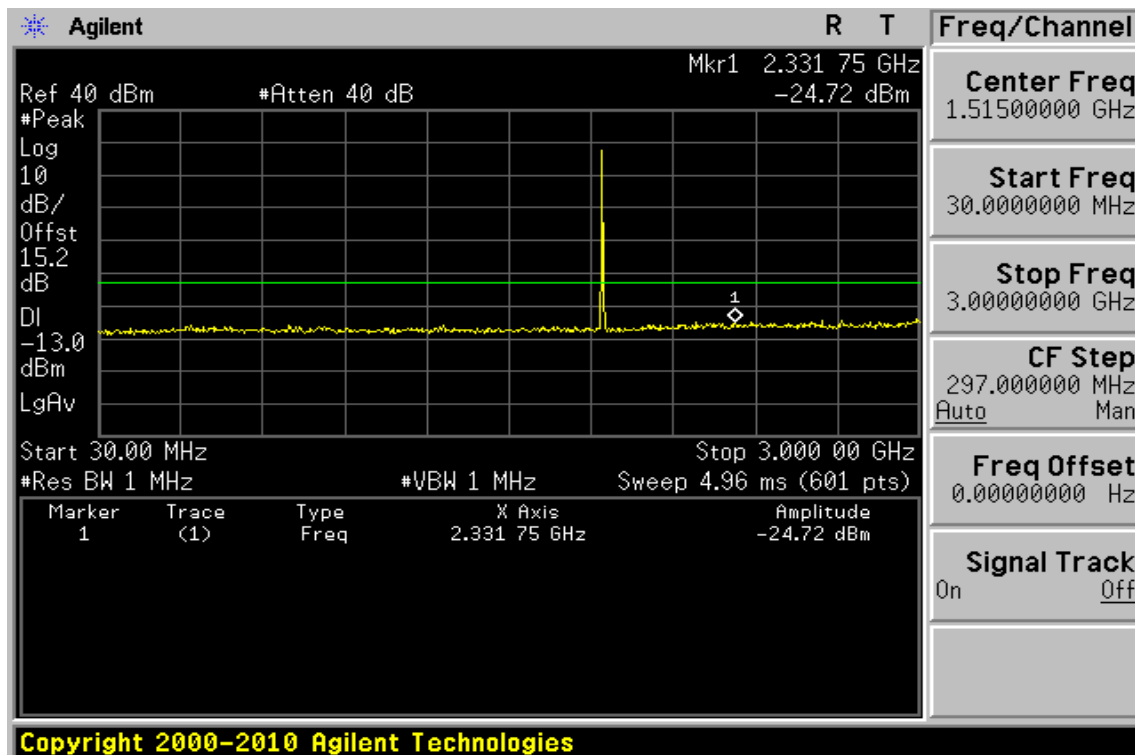
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Out of Band emission at antenna terminals – CDMA BC1 Channel Lowest



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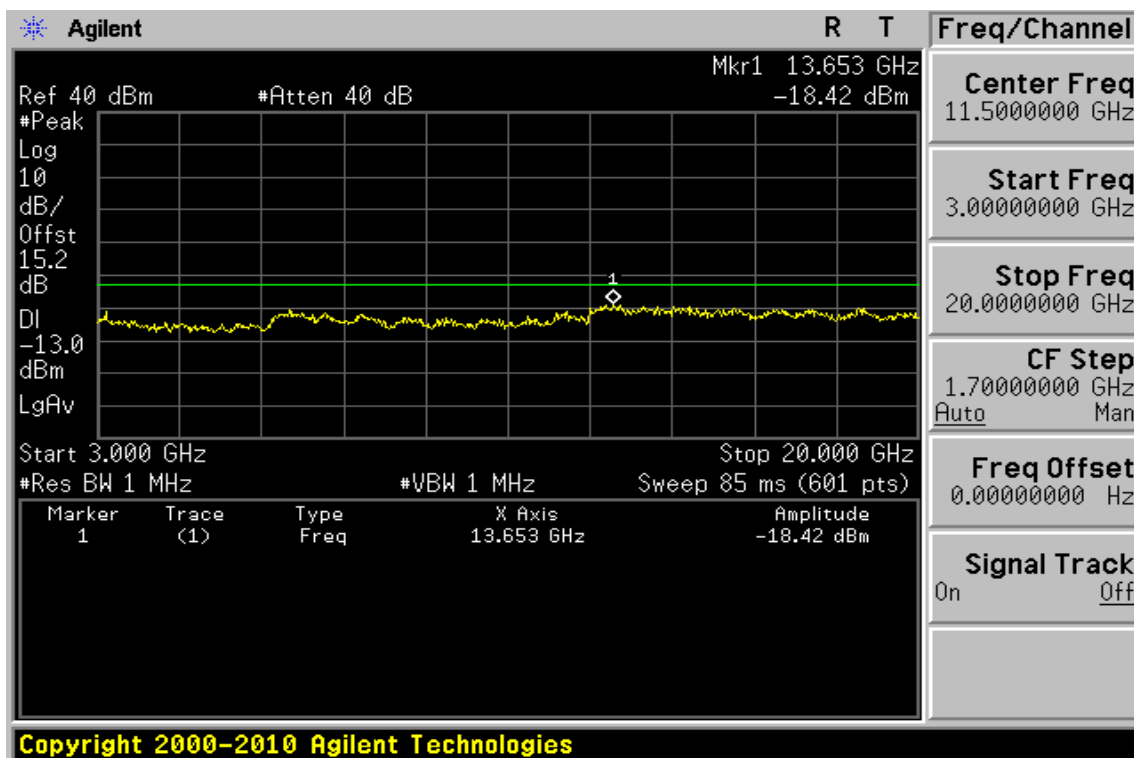
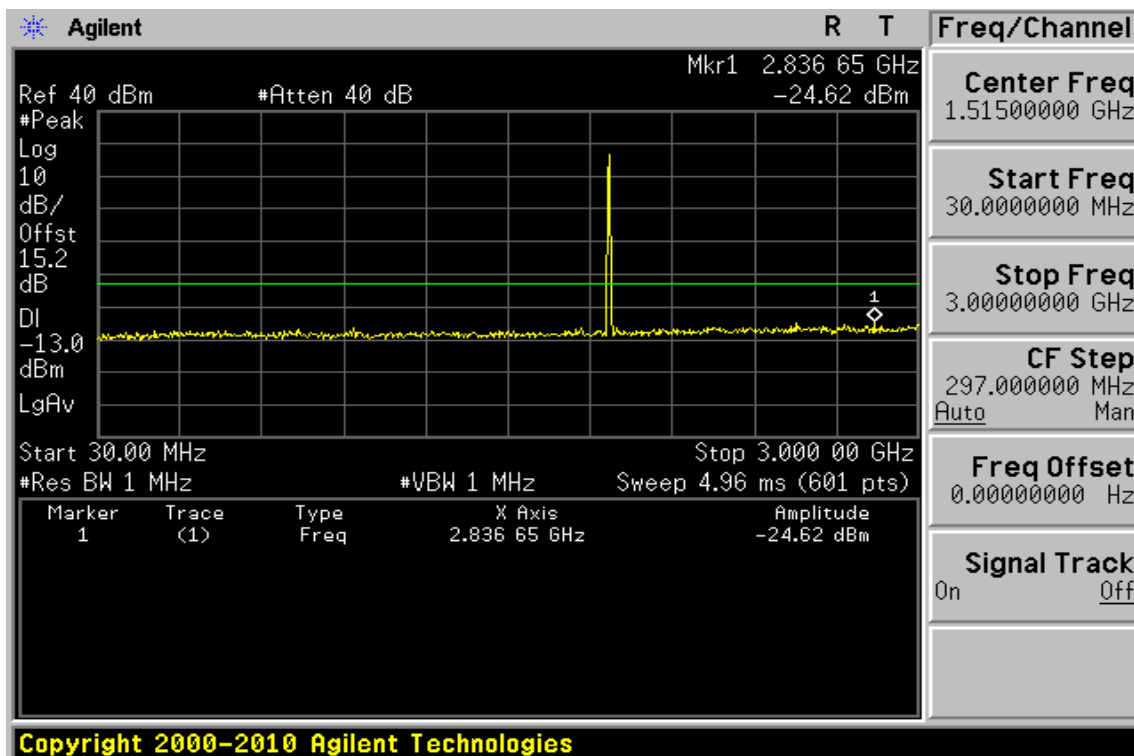
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Out of Band emission at antenna terminals – CDMA BC1 Channel Mid



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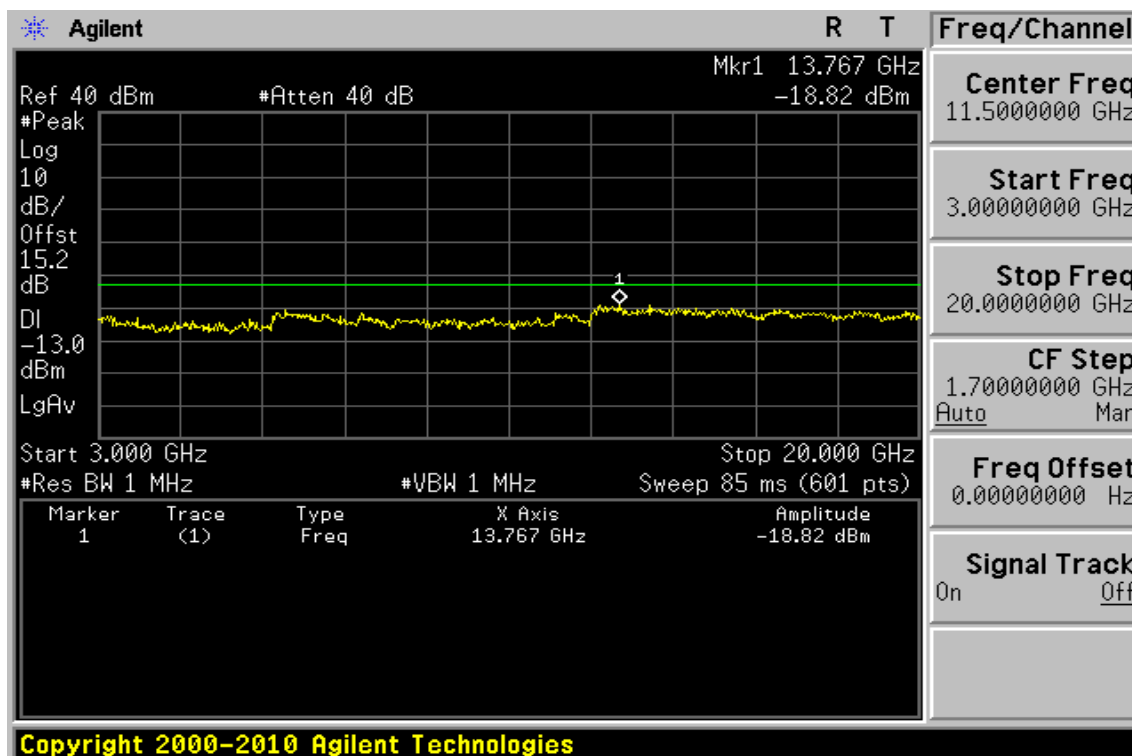
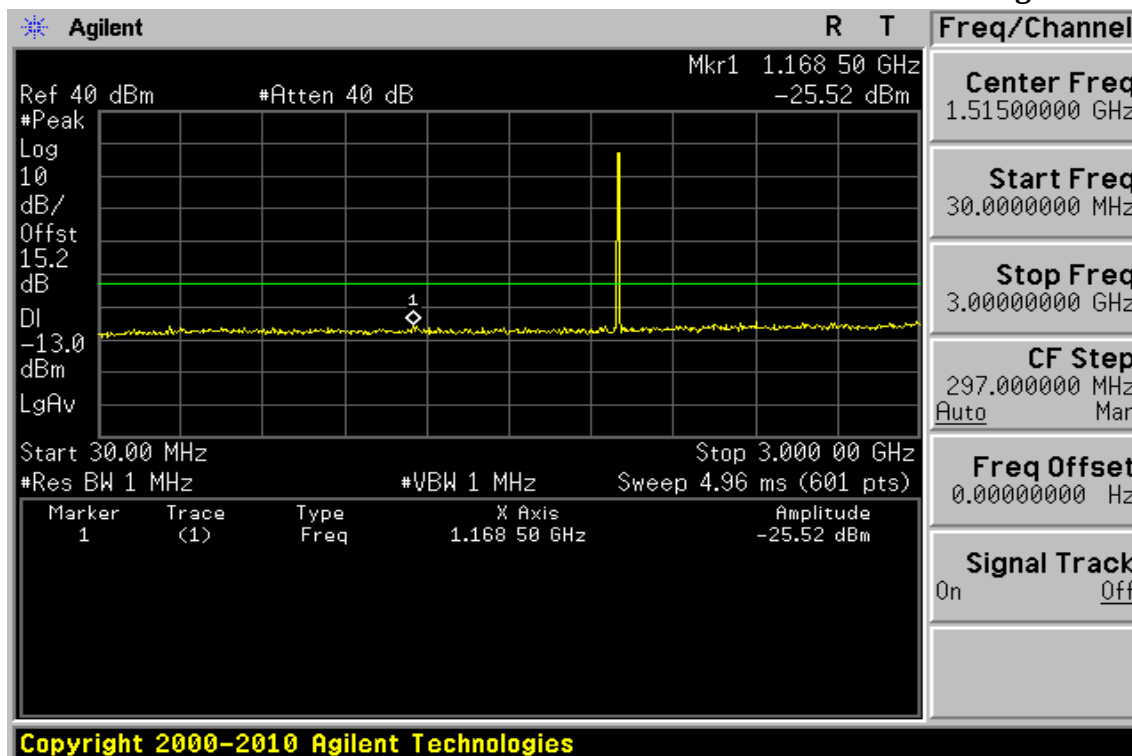
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Out of Band emission at antenna terminals – CDMA BC1 Channel Highest



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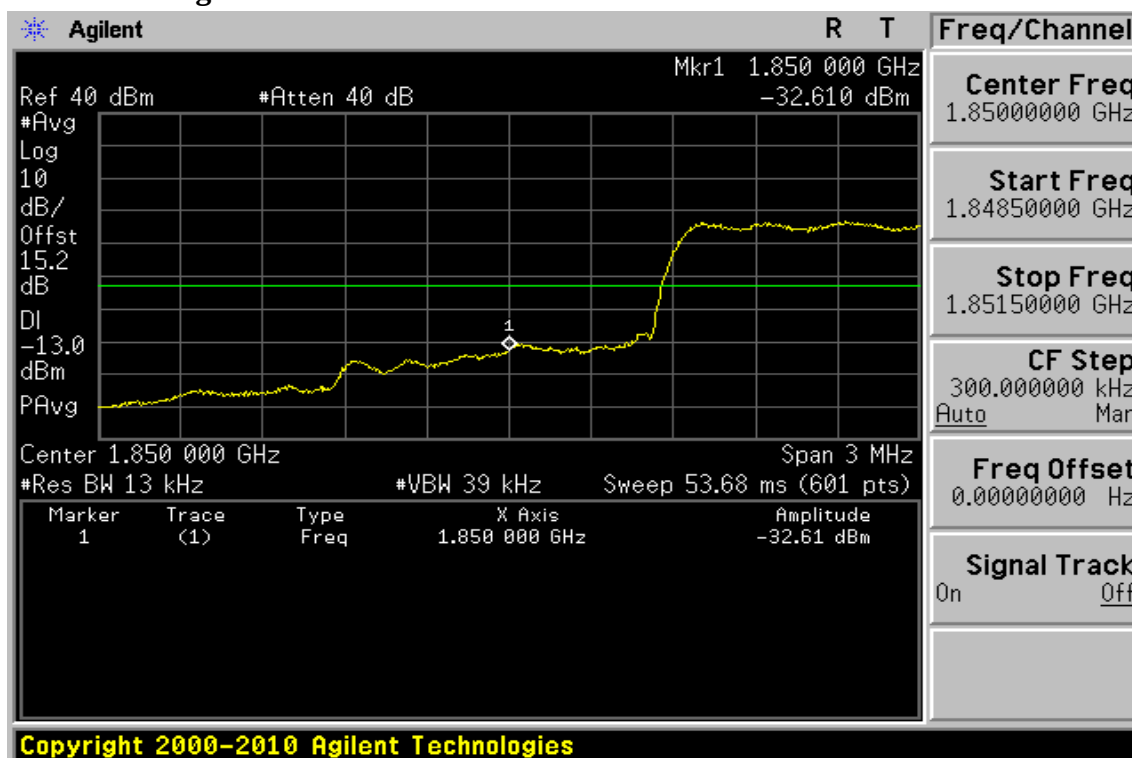
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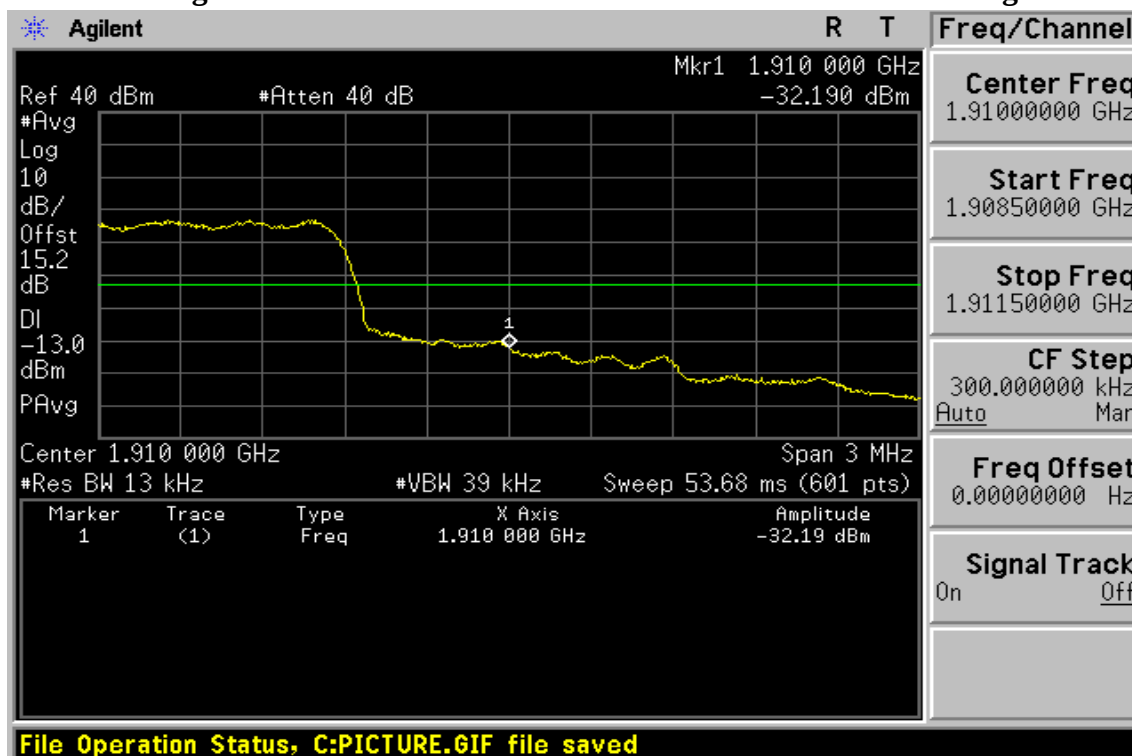
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Band edge emission at antenna terminals – CDMA BC1 Channel Lowest



Band edge emission at antenna terminals – CDMA BC1 Channel Highest



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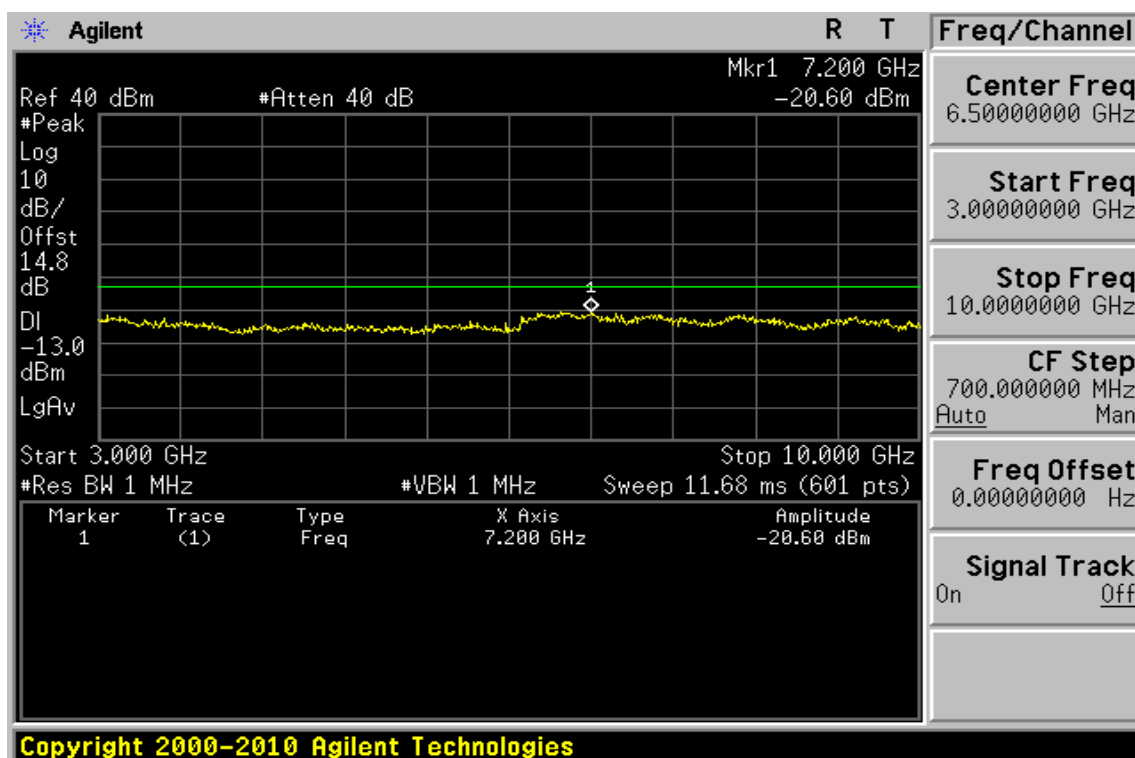
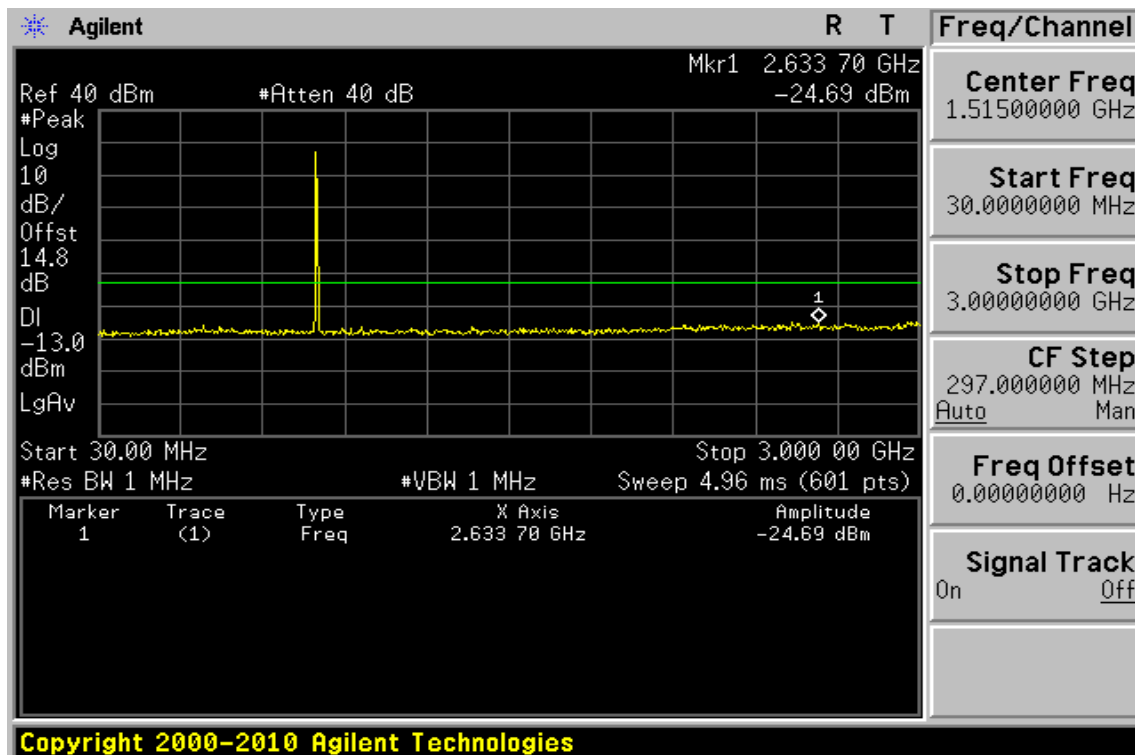
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Out of Band emission at antenna terminals – CDMA BC10 Channel Lowest



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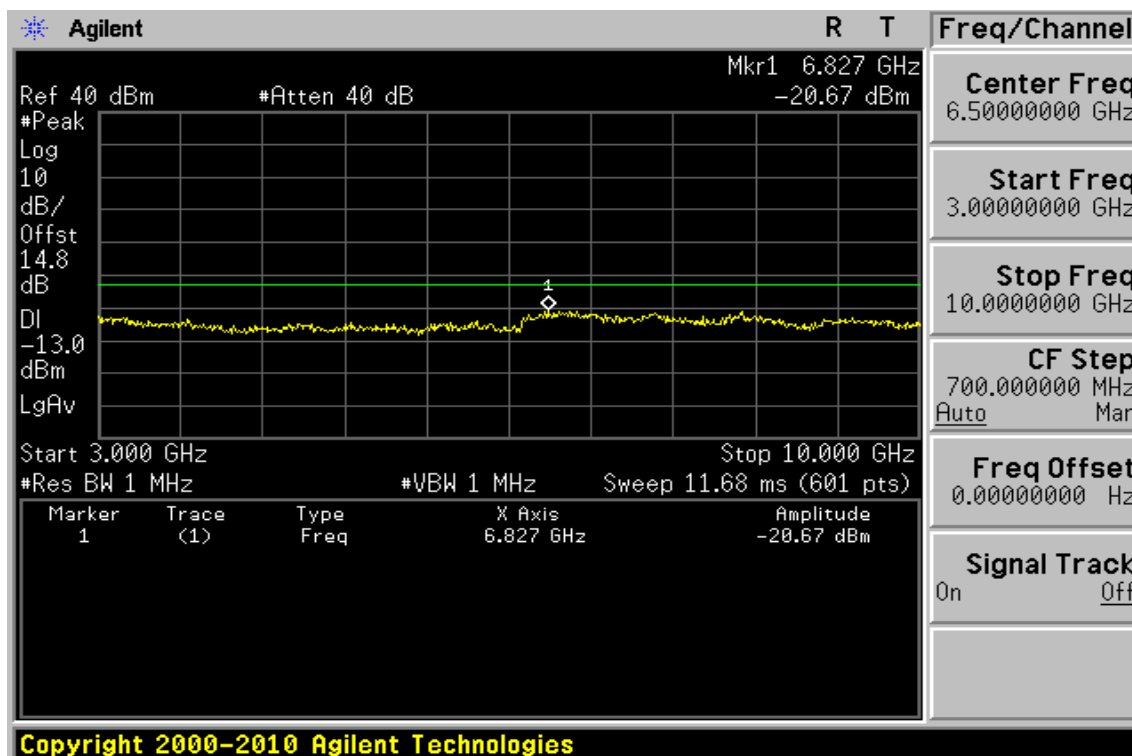
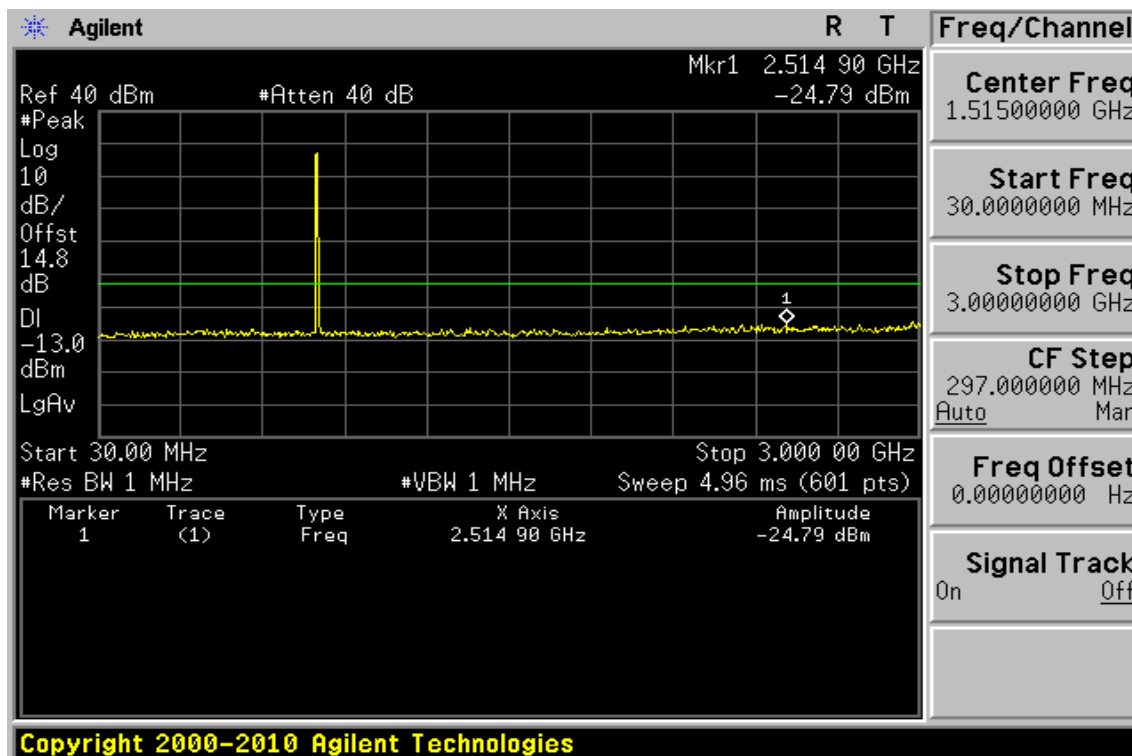
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Out of Band emission at antenna terminals – CDMA BC10 Channel Mid



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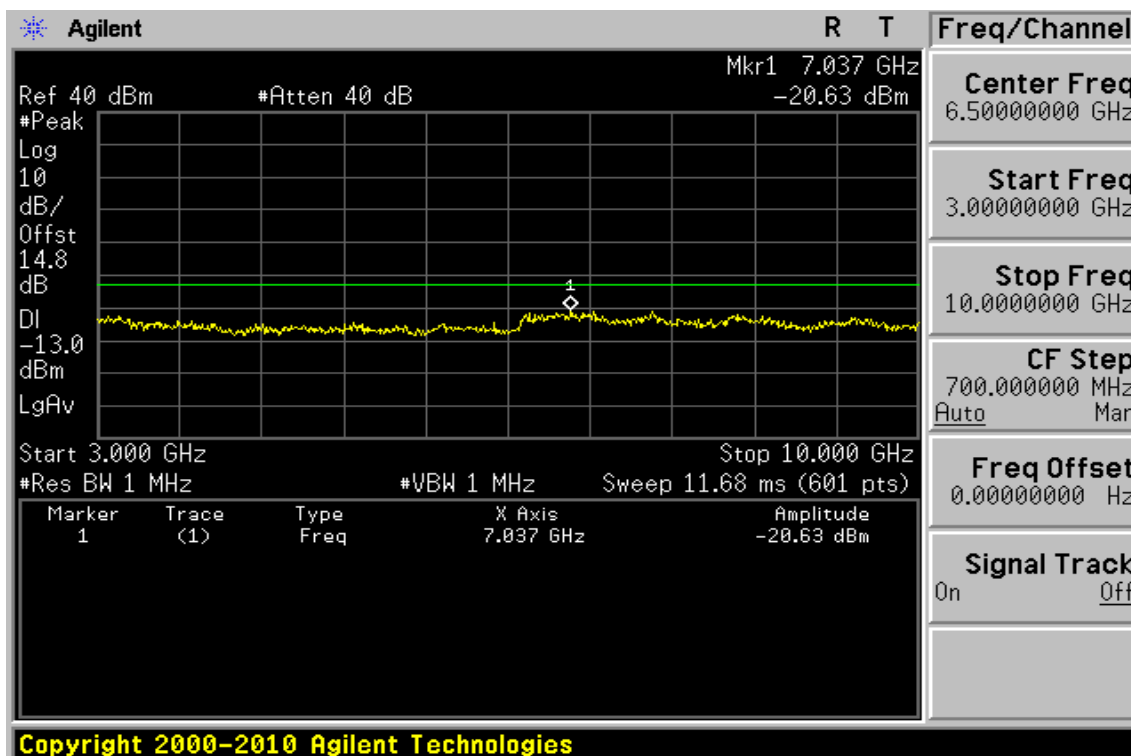
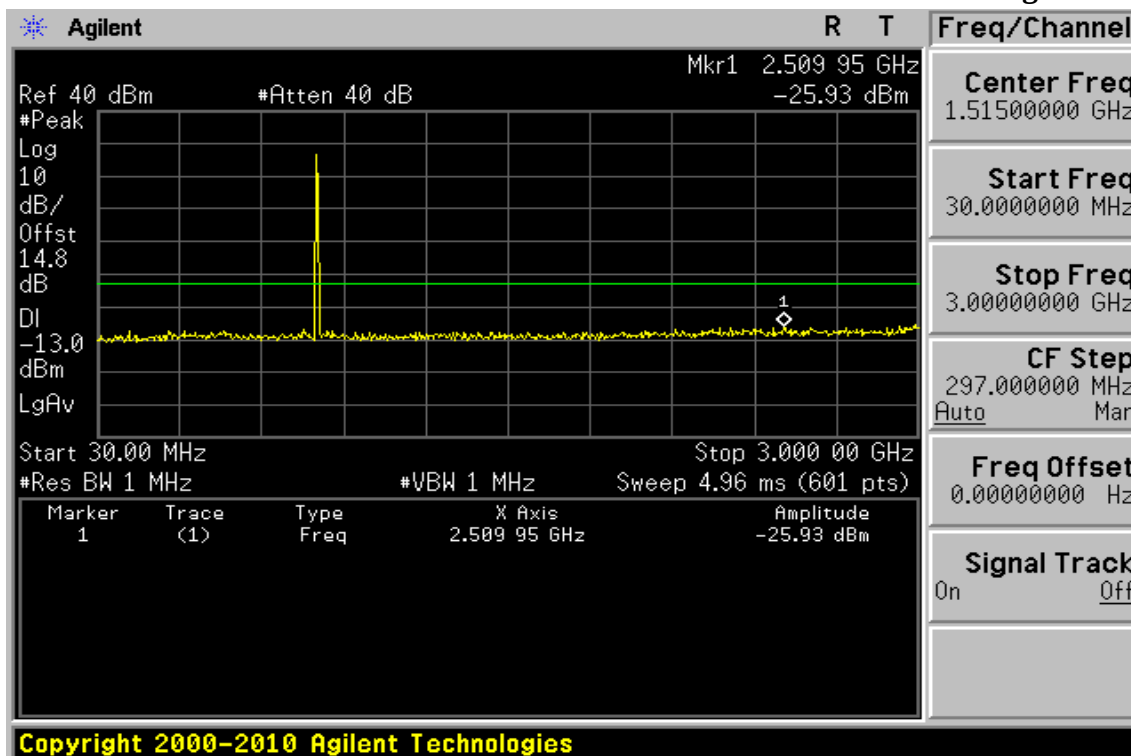
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Out of Band emission at antenna terminals – CDMA BC10 Channel Highest



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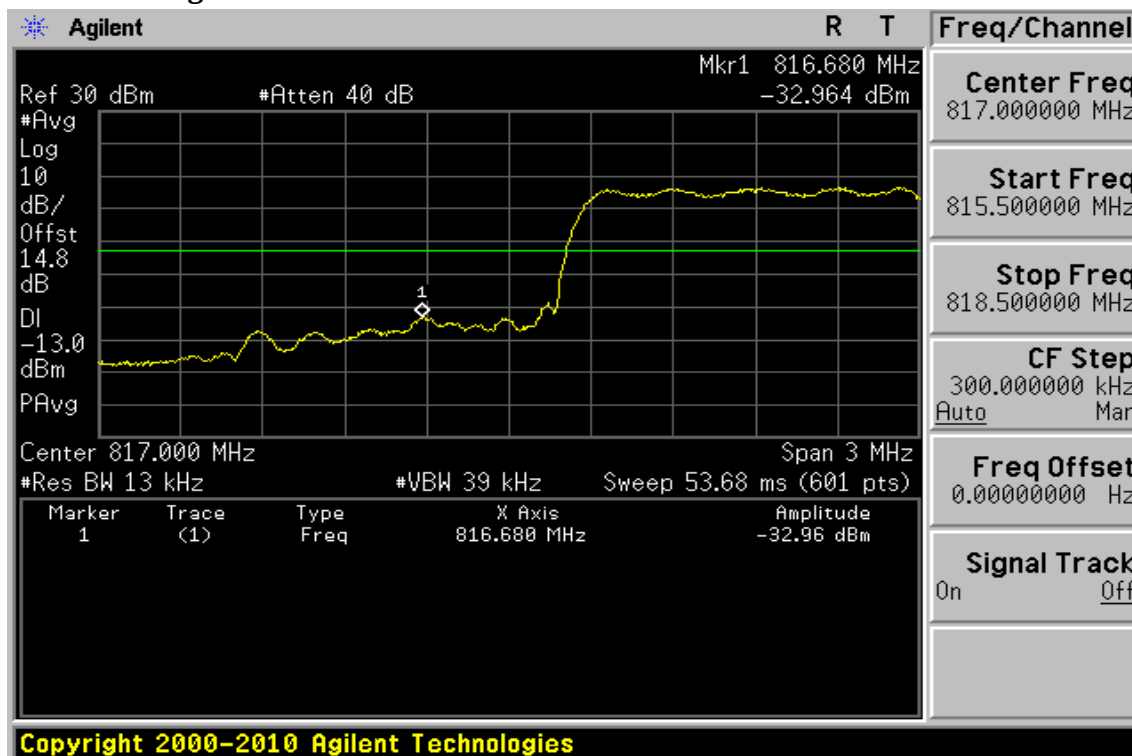
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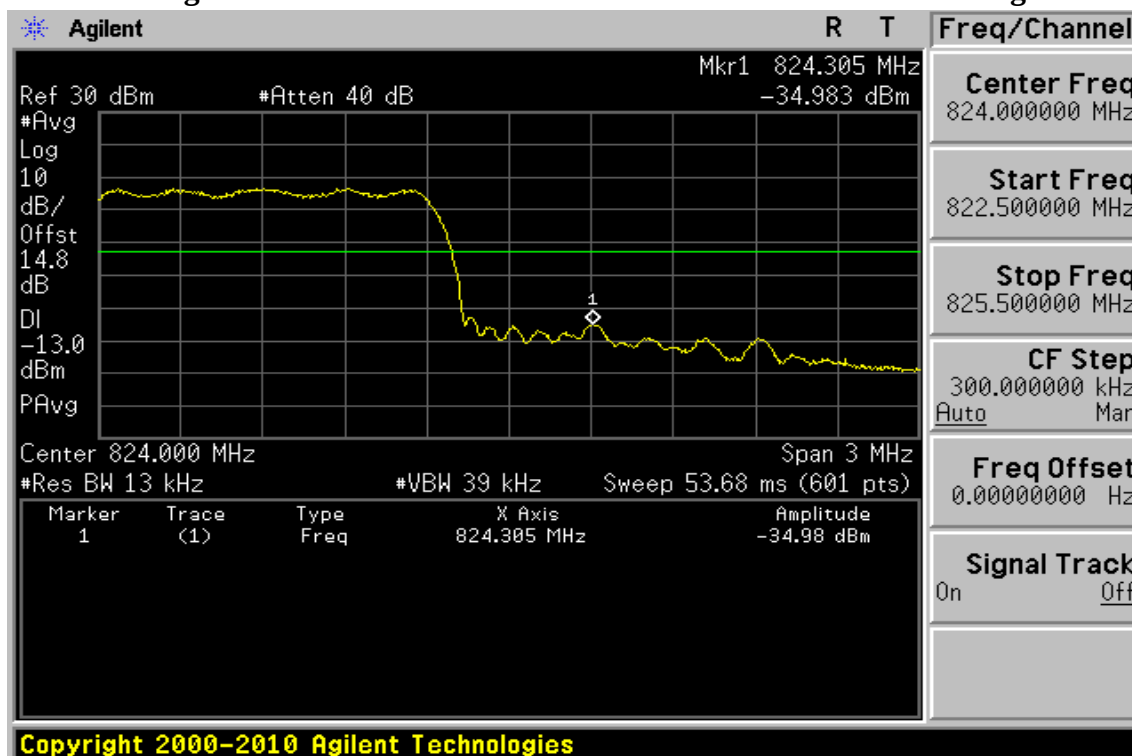
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Band edge emission at antenna terminals – CDMA BC10 Channel Lowest



Band edge emission at antenna terminals – CDMA BC10 Channel Highest



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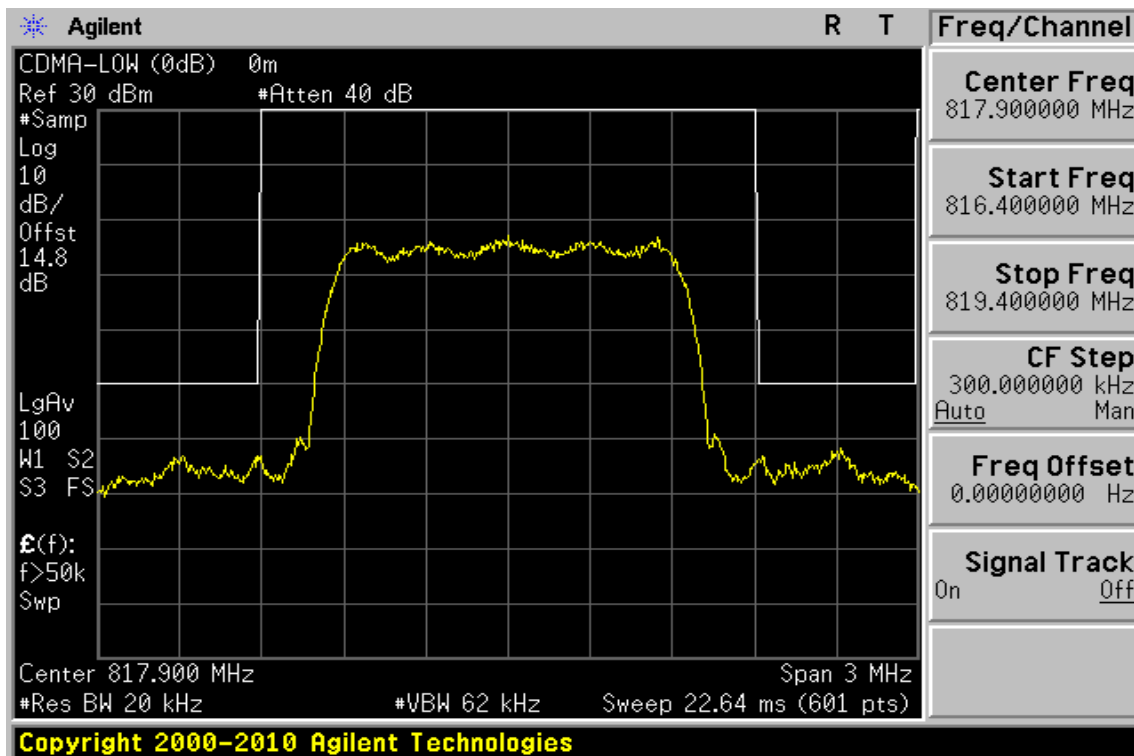
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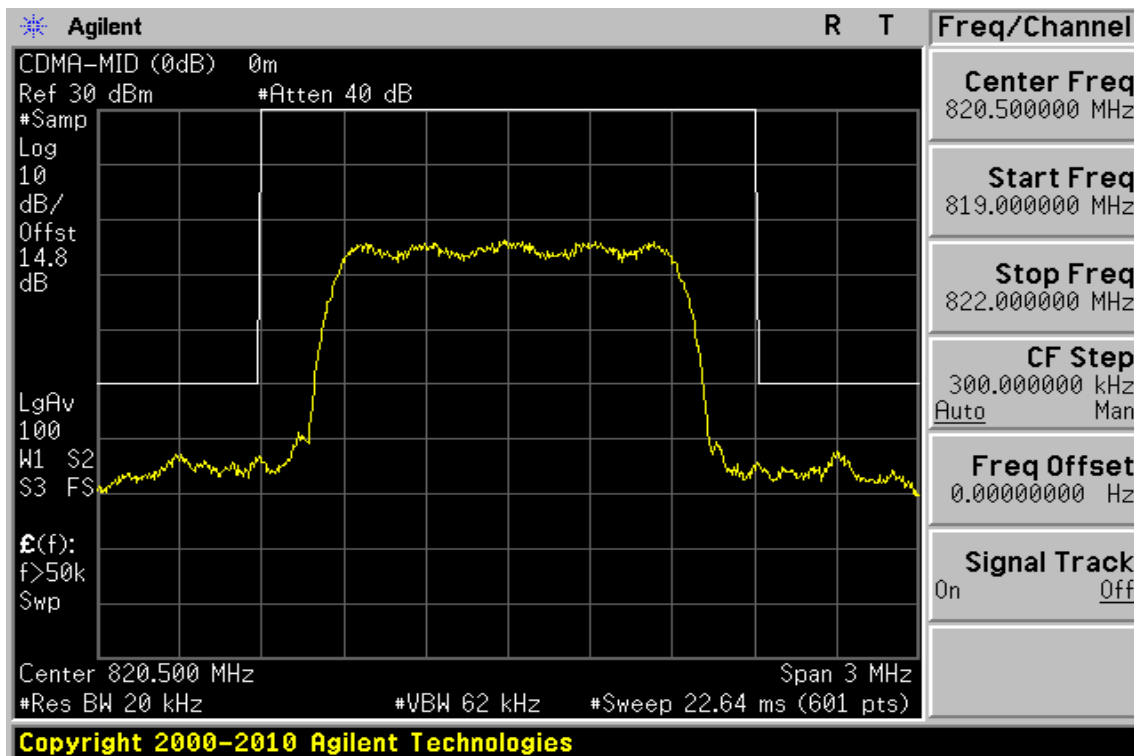
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Emission Mask CDMA2000 BC10 Channel Low



Emission Mask CDMA2000 BC10 Channel Mid



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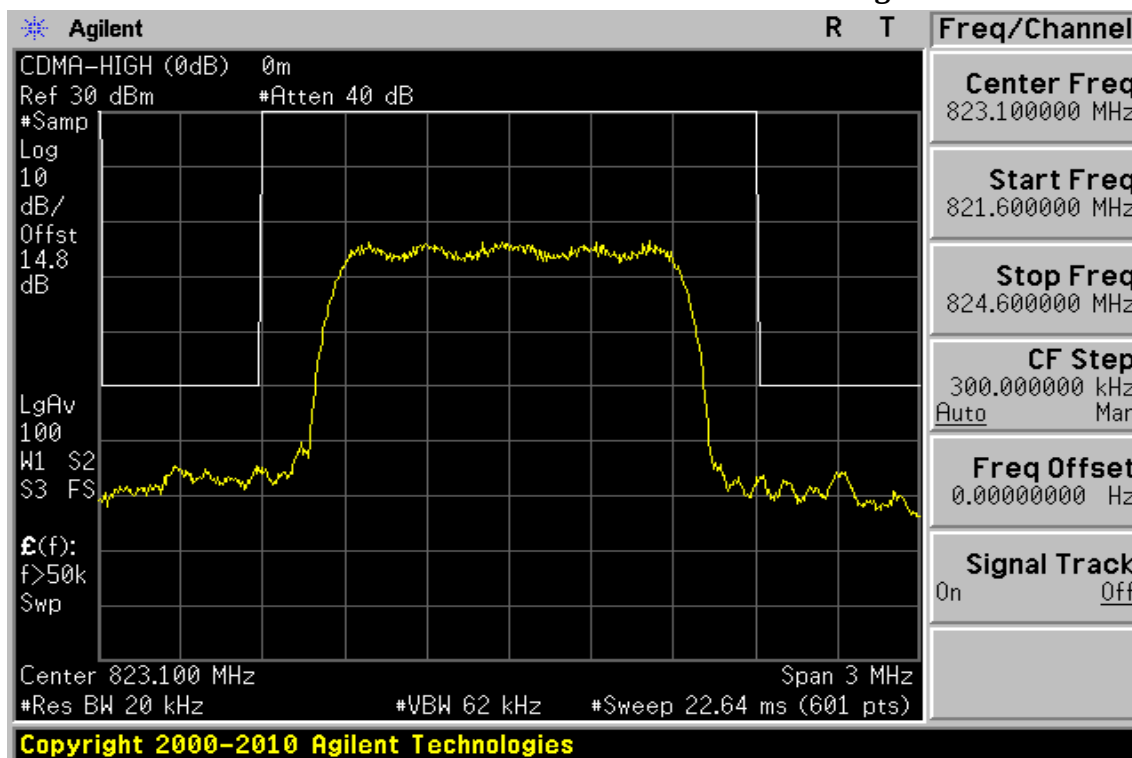
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Emission Mask CDMA2000 BC10 Channel High



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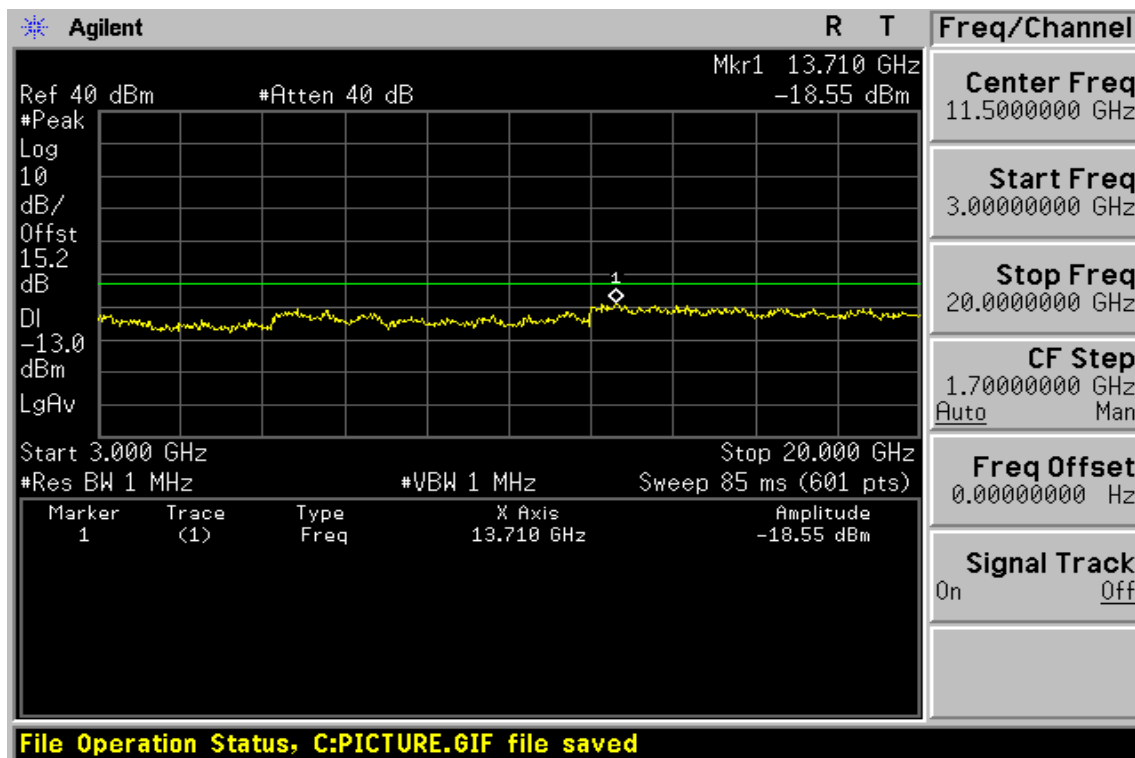
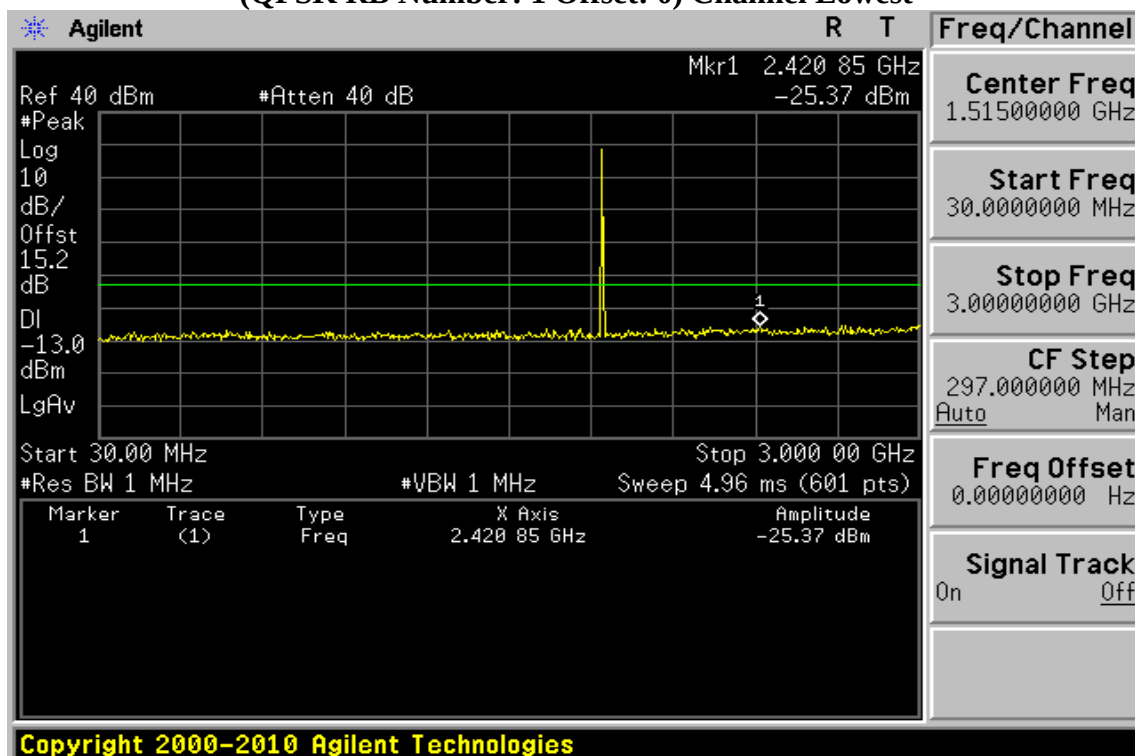
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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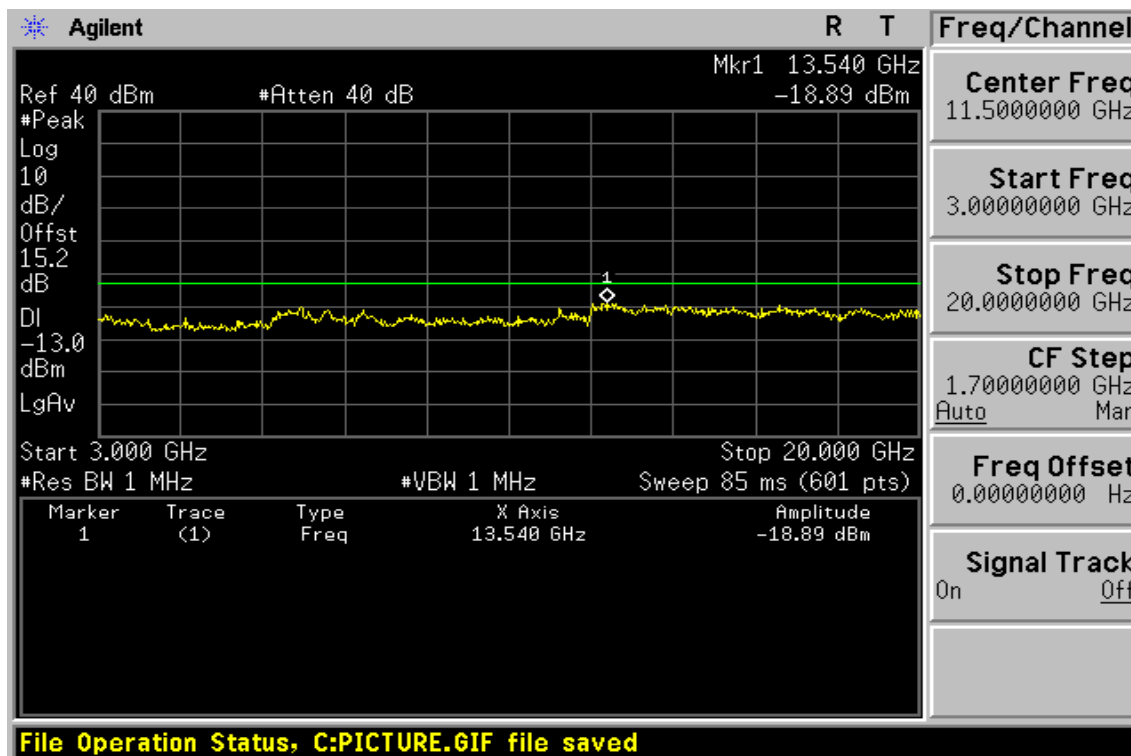
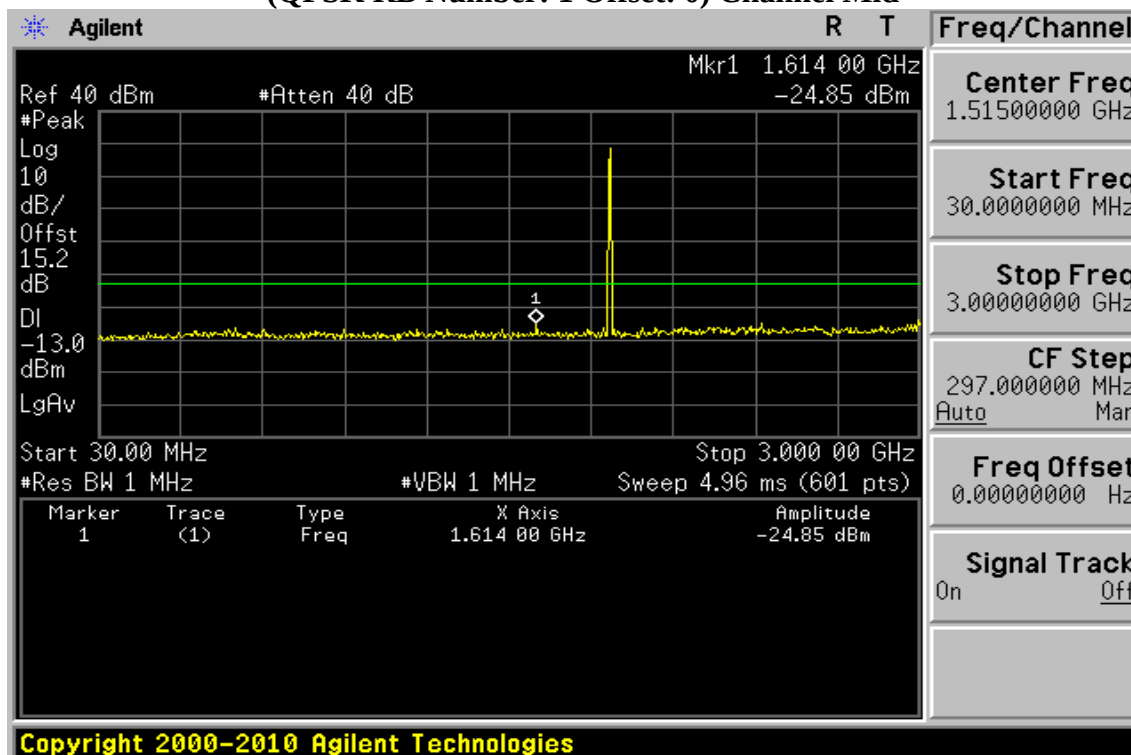
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid



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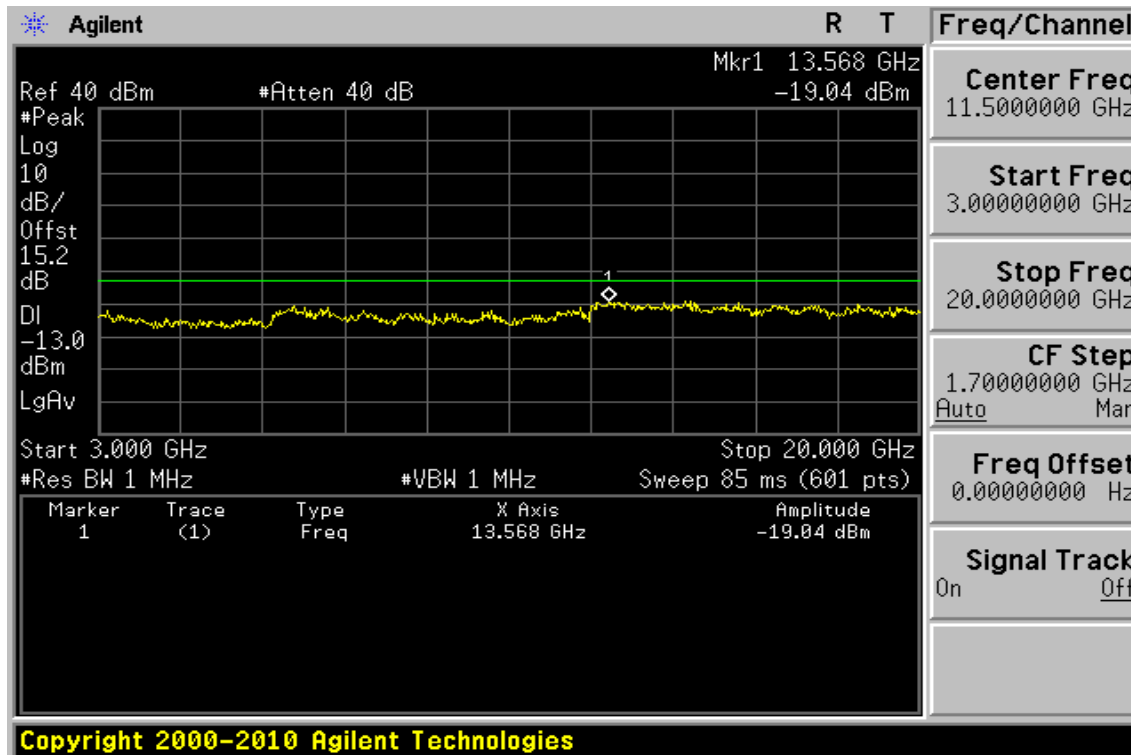
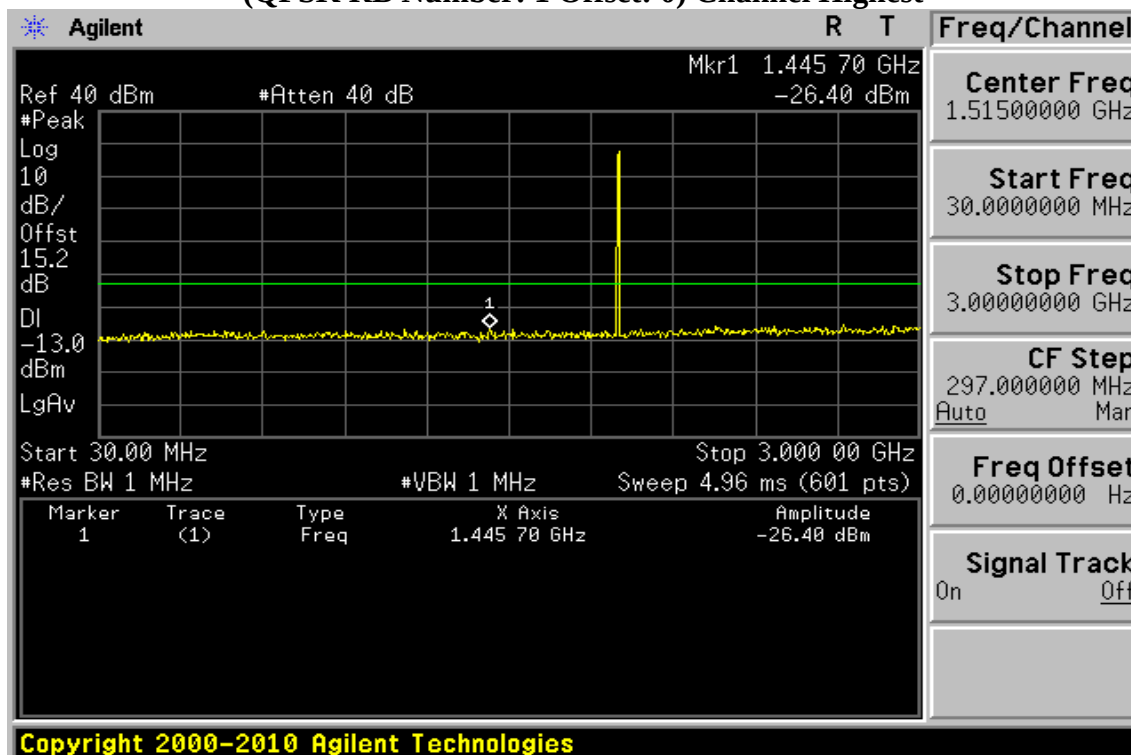
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



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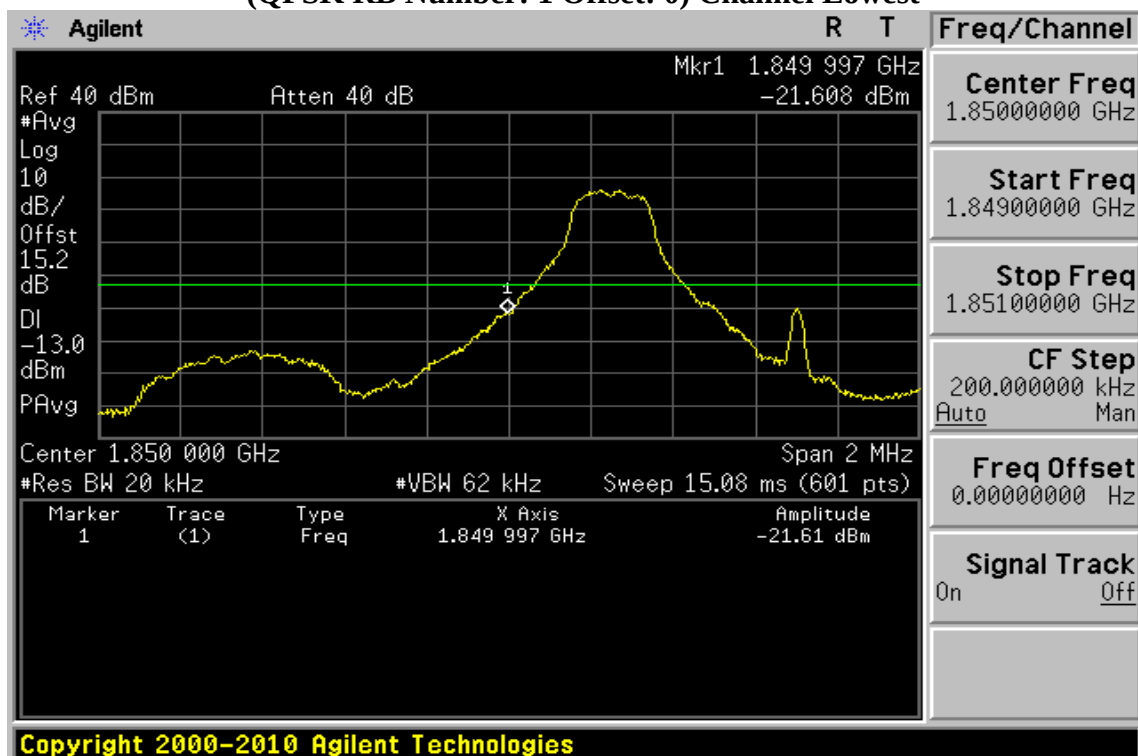
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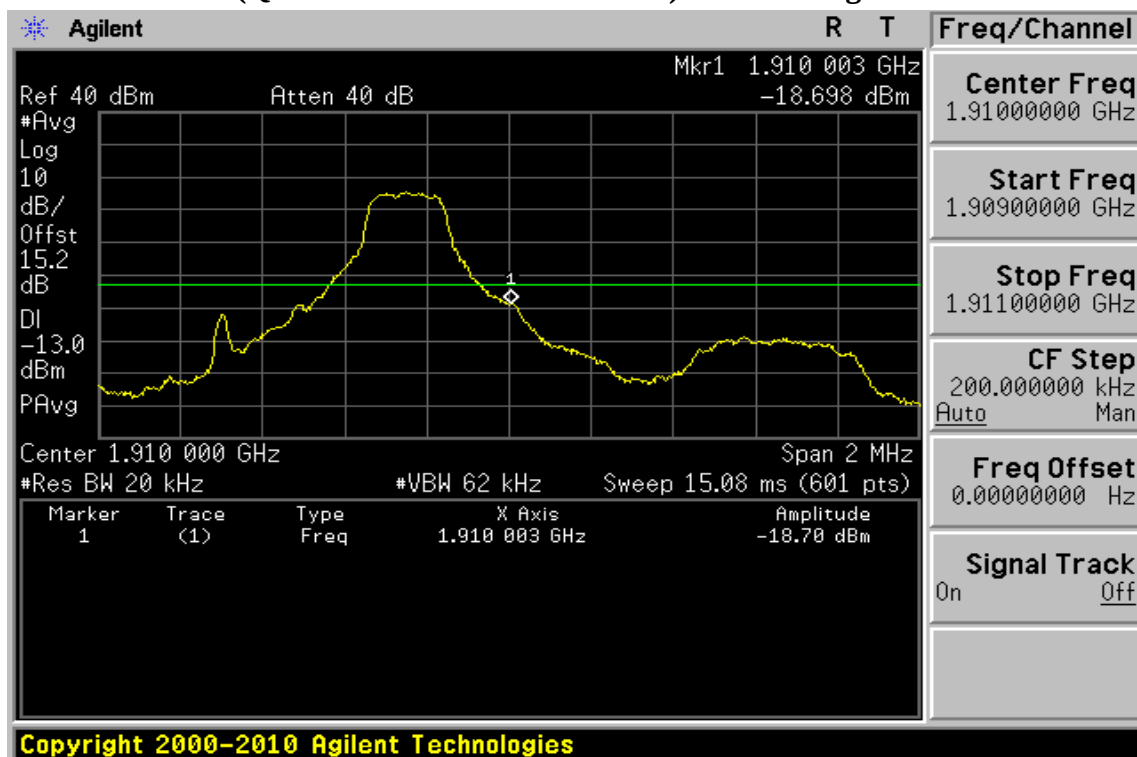
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 5) Channel Highest**



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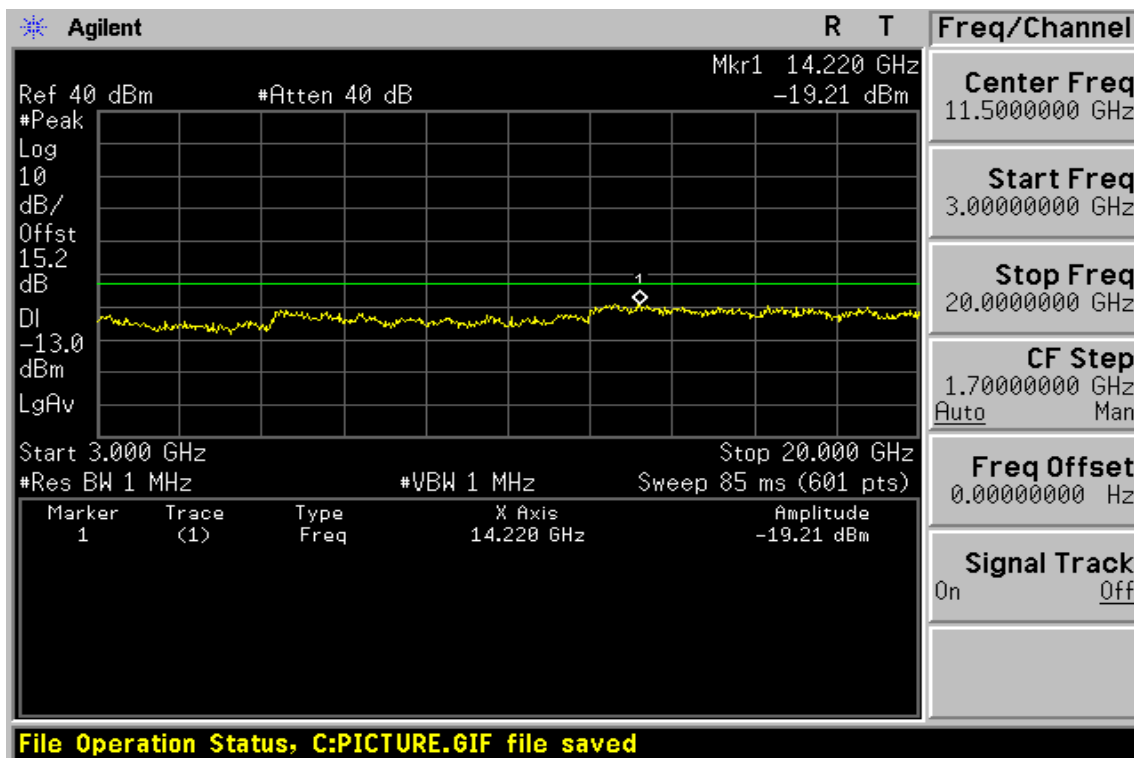
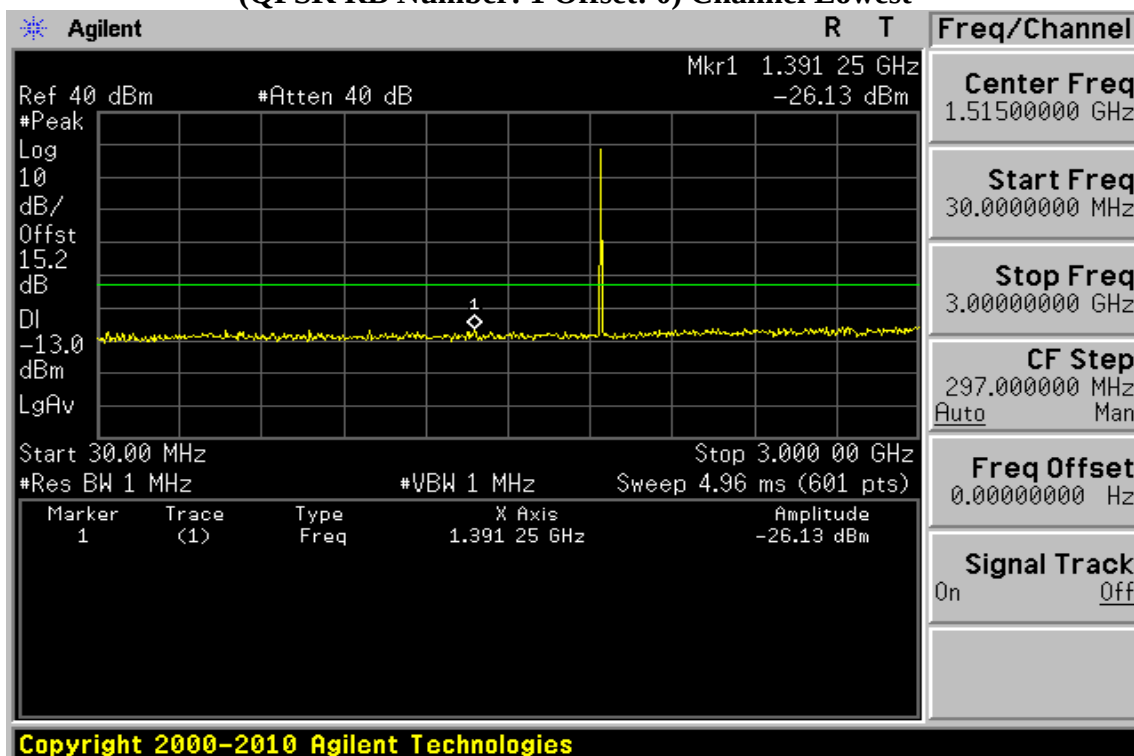
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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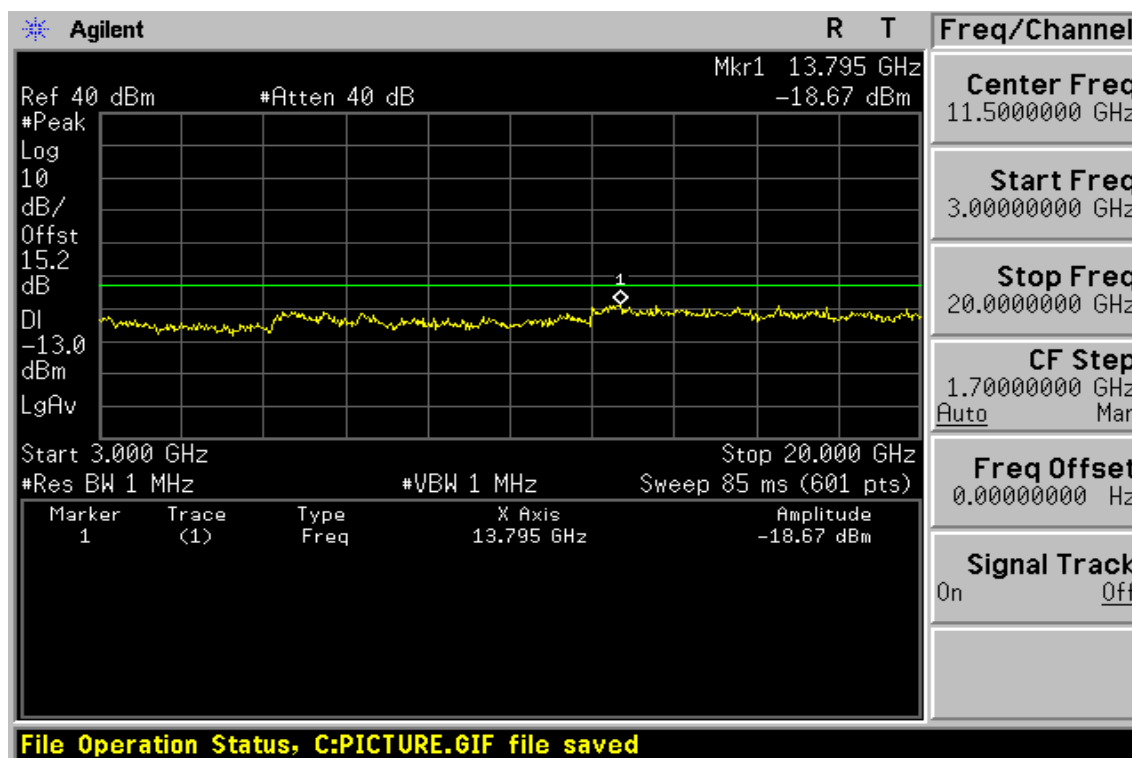
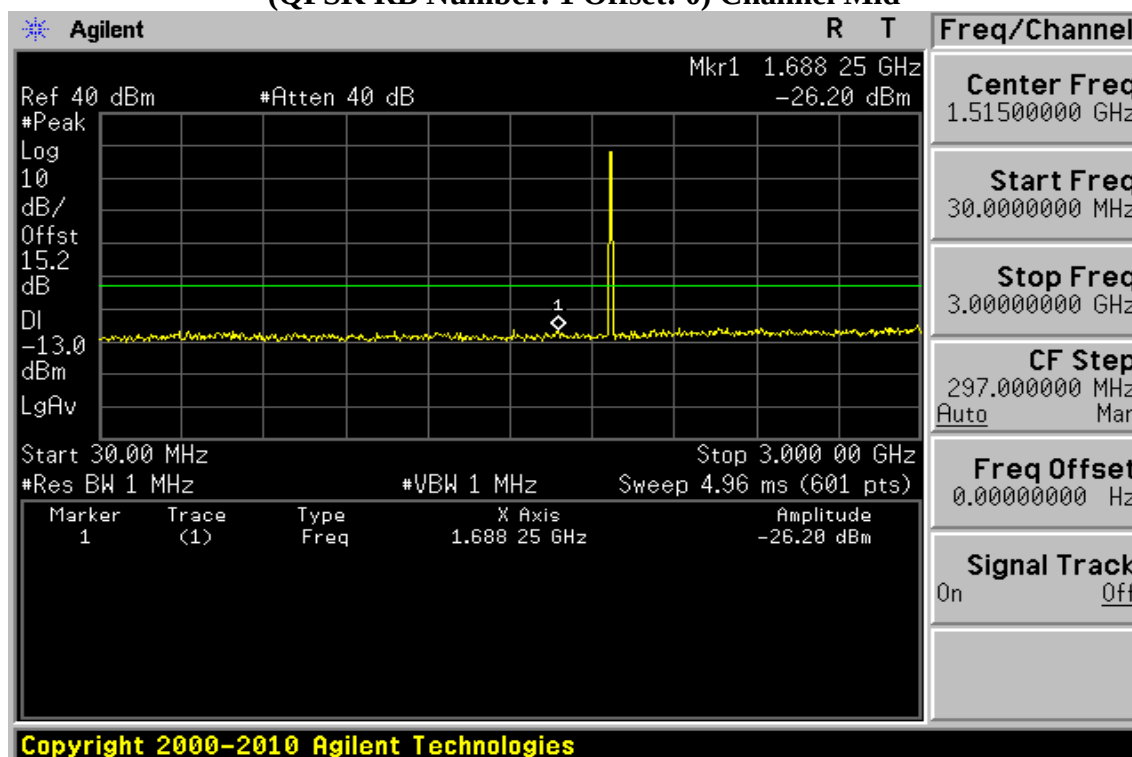
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Out of Band emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid



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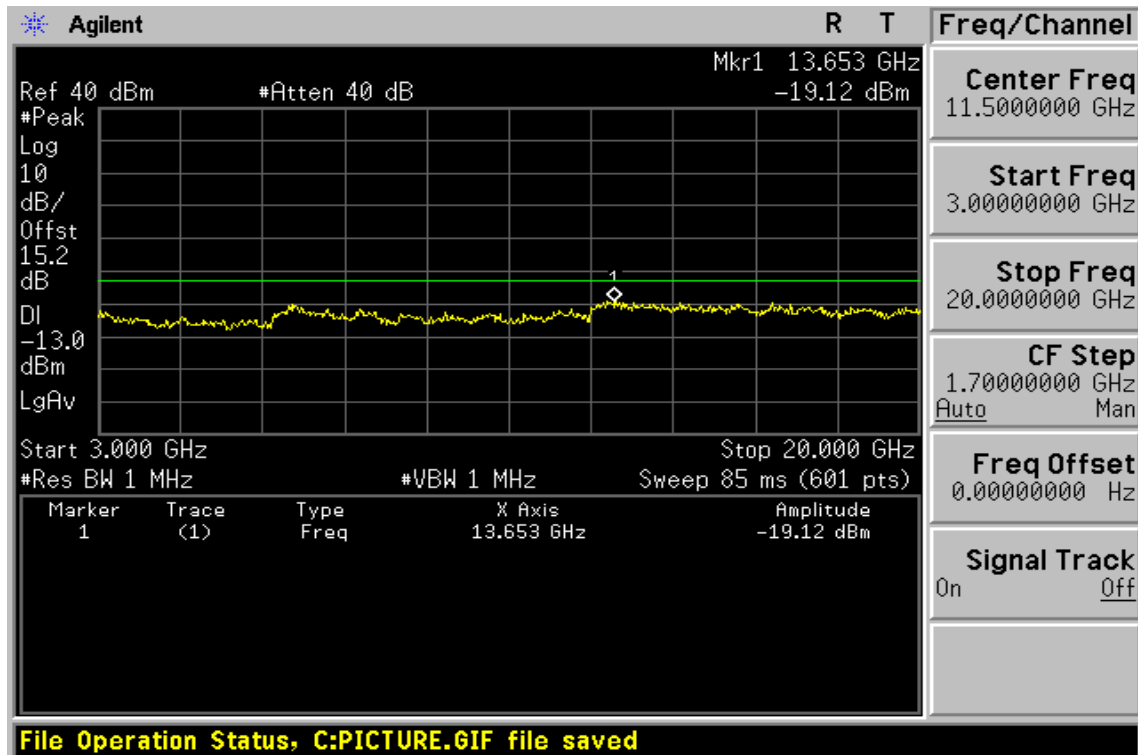
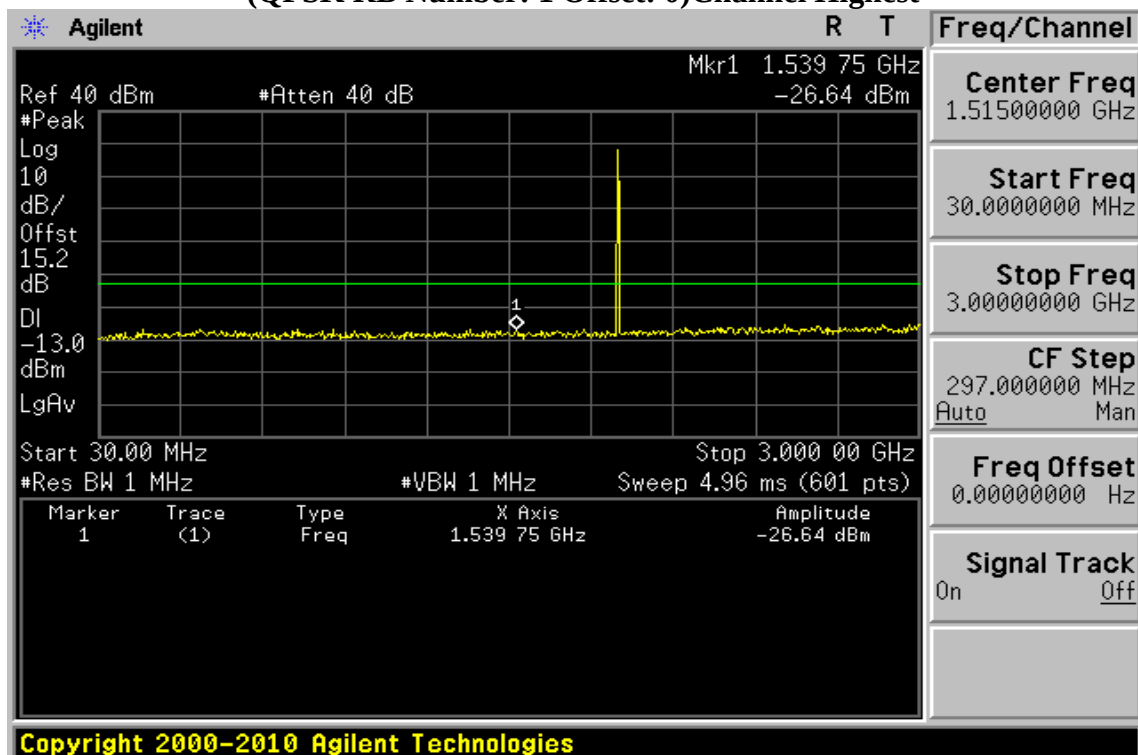
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0)Channel Highest



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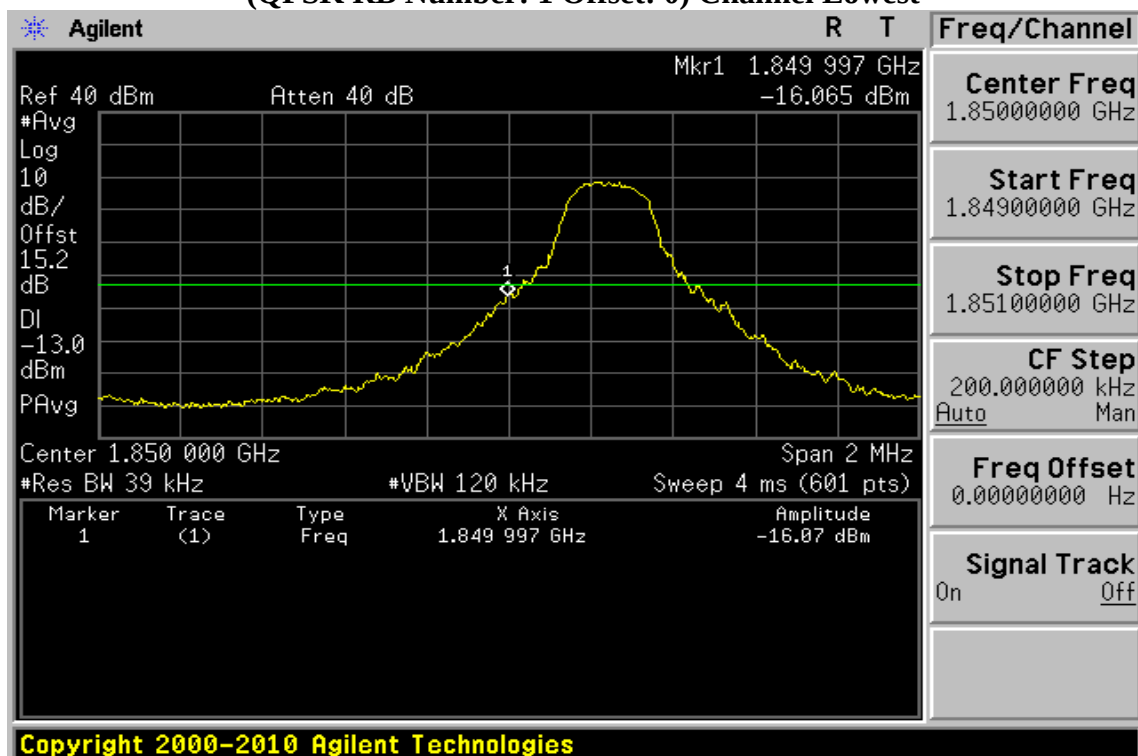
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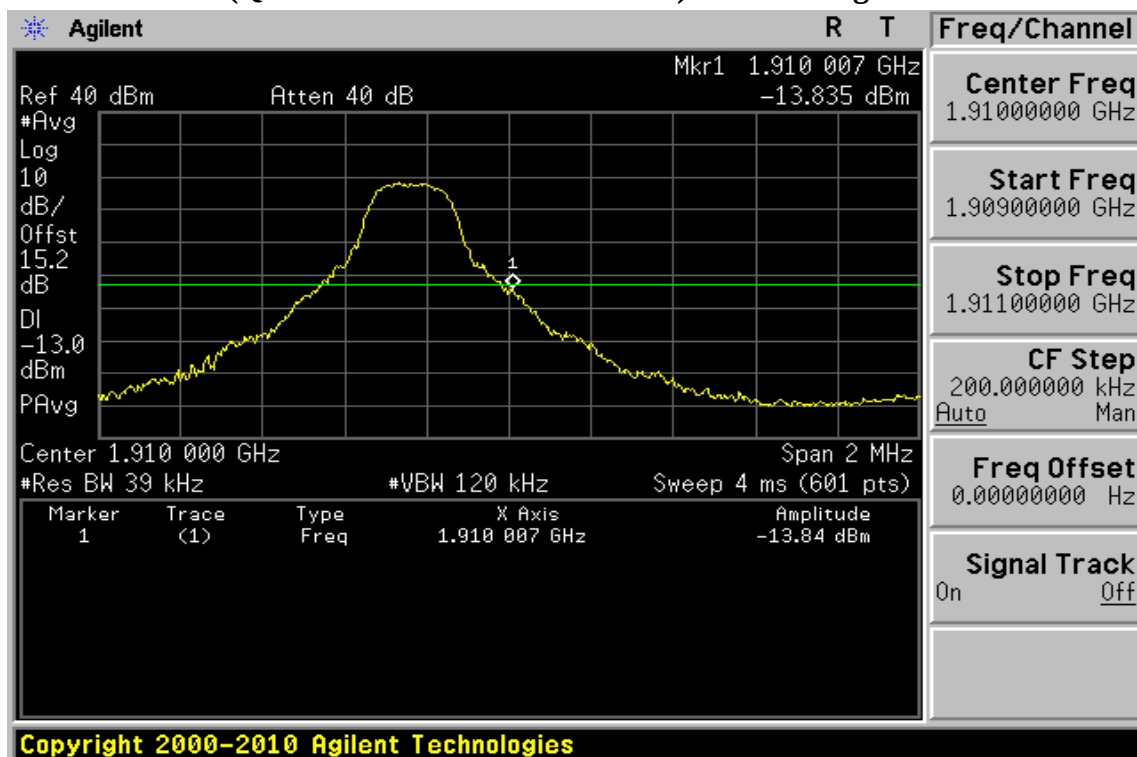
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Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 14) Channel Highest



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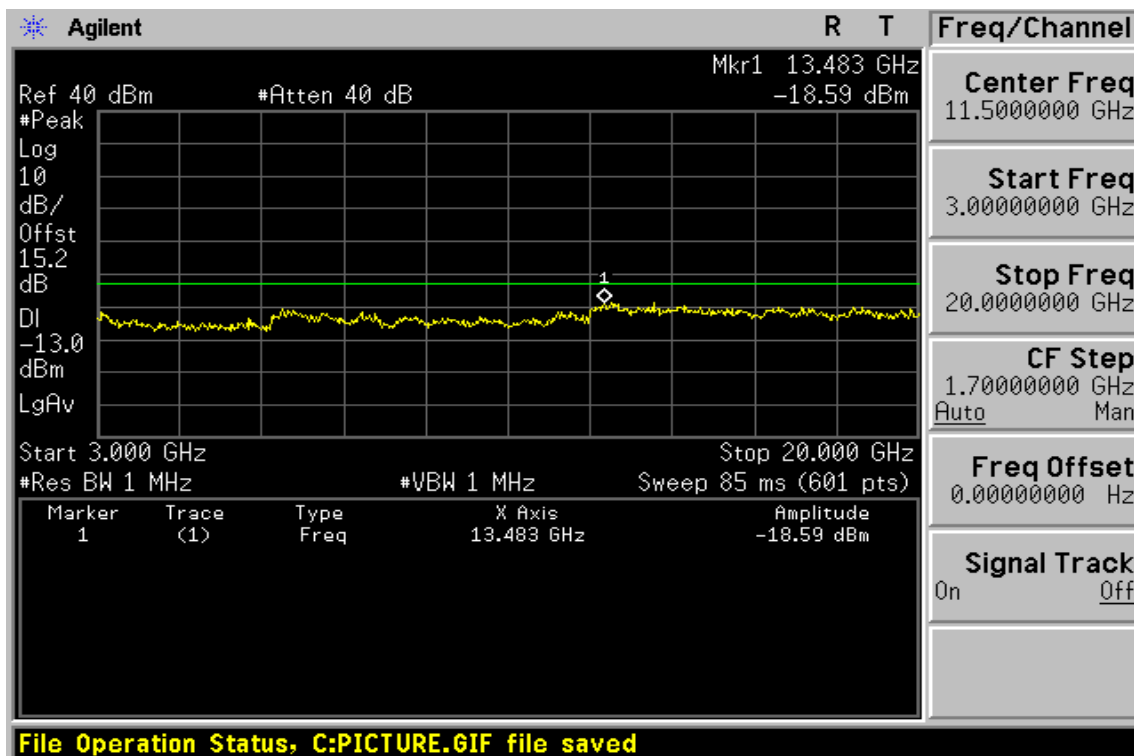
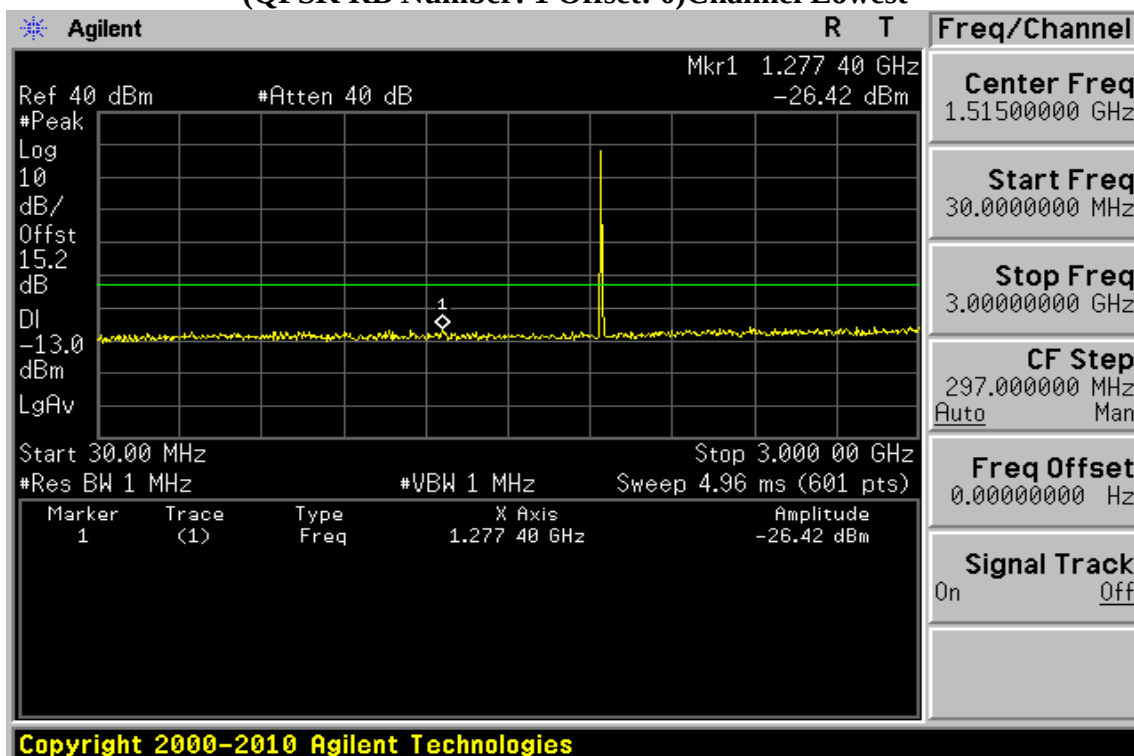
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0)Channel Lowest



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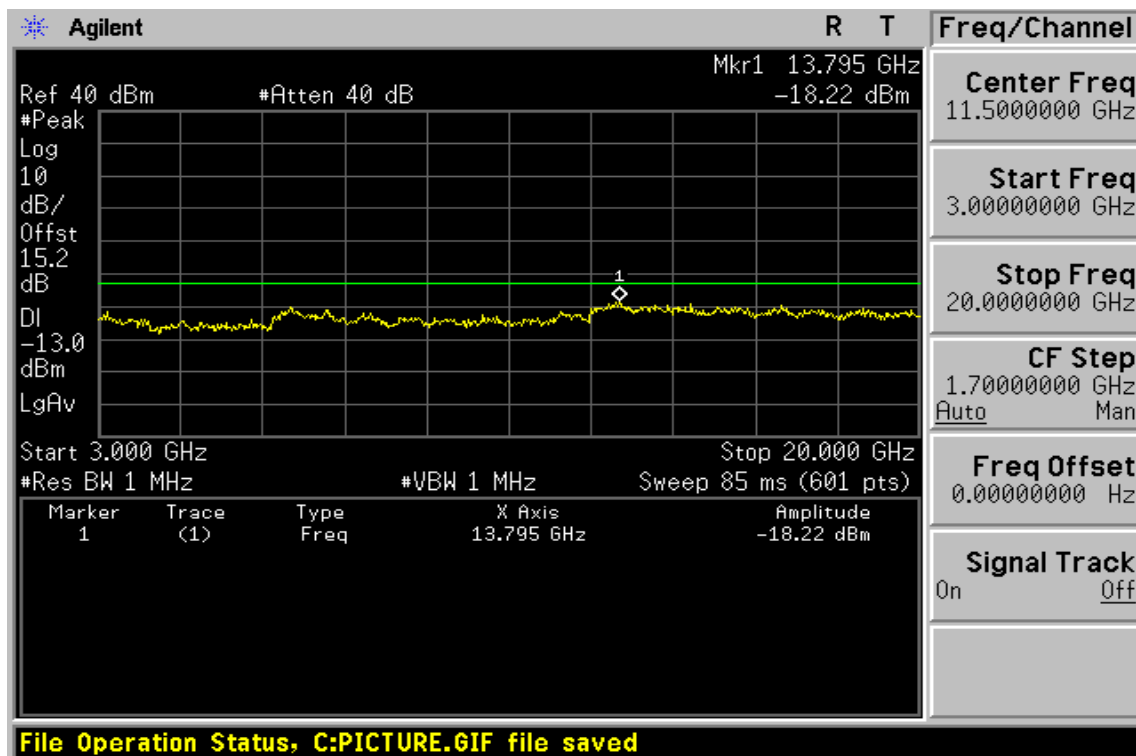
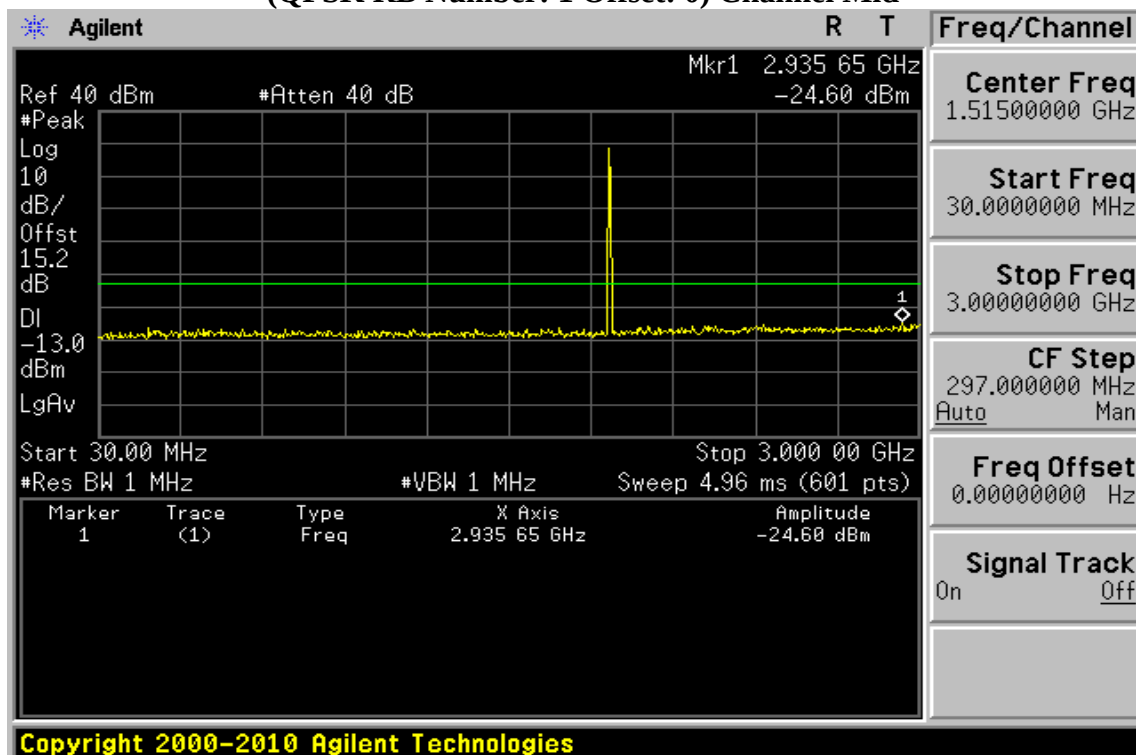
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Out of Band emission at antenna terminals –5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid



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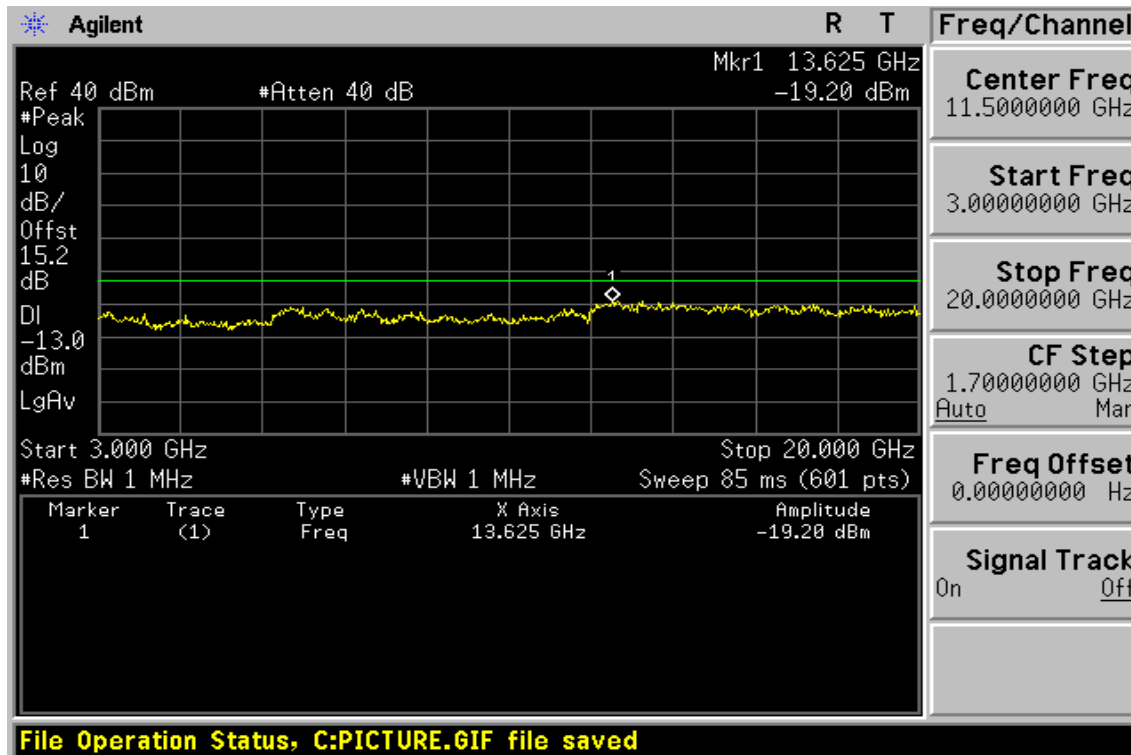
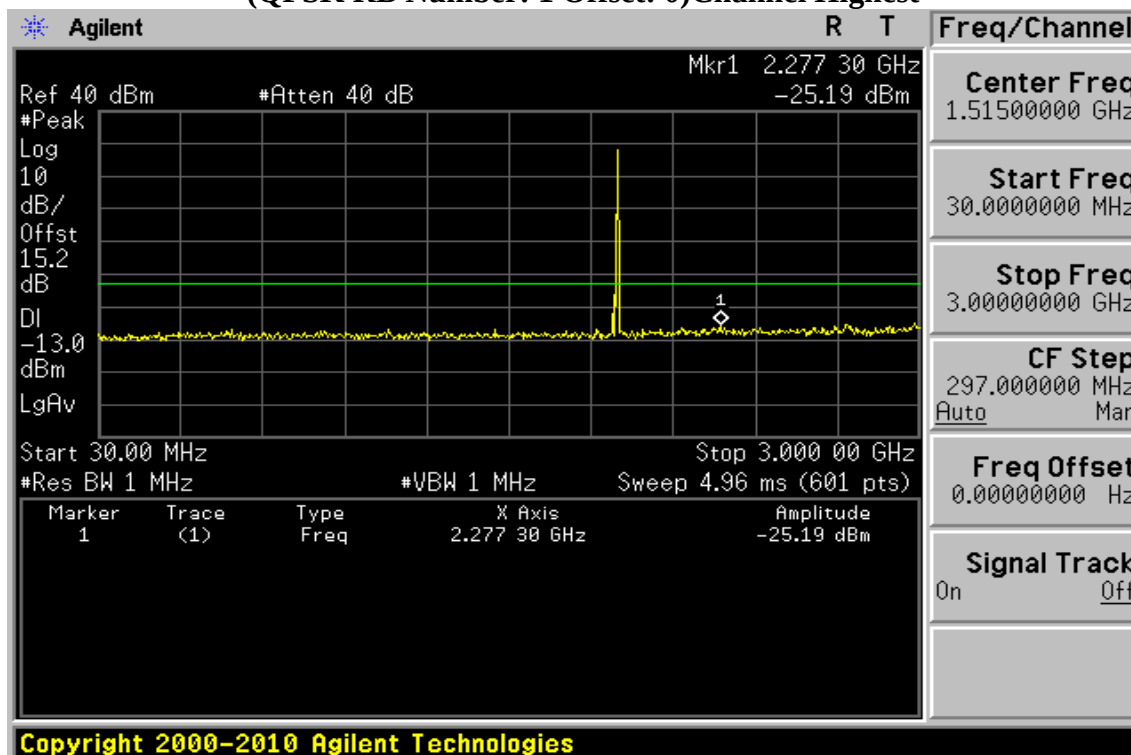
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0)Channel Highest



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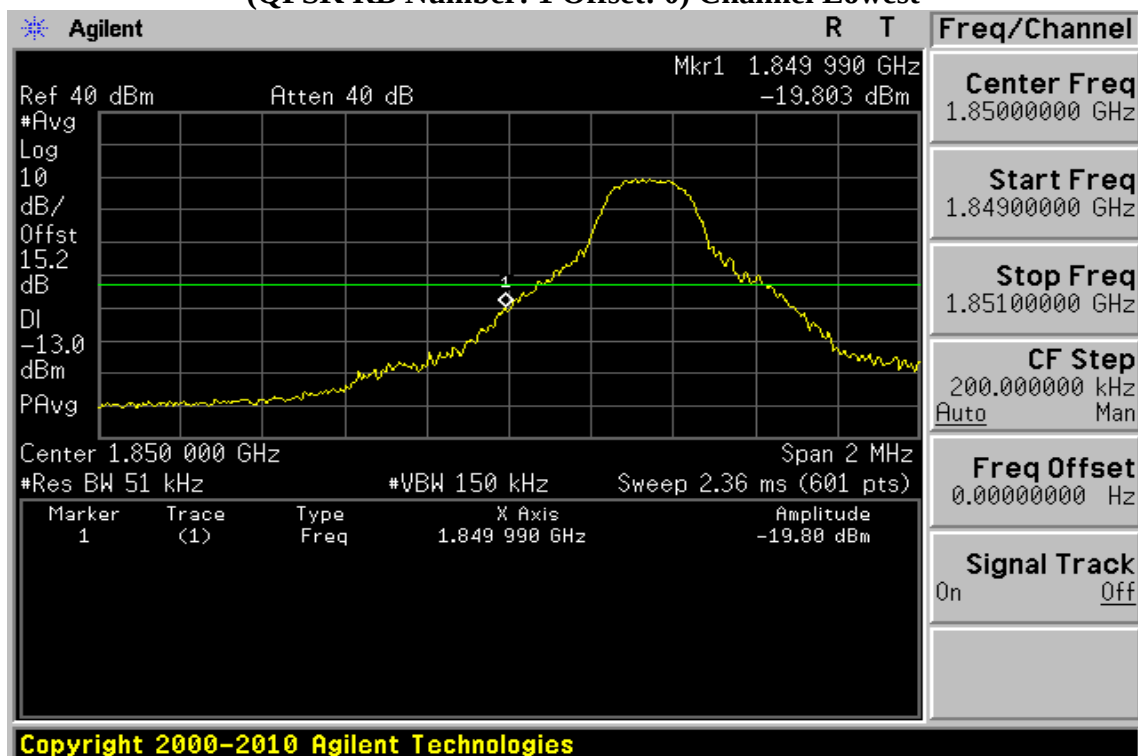
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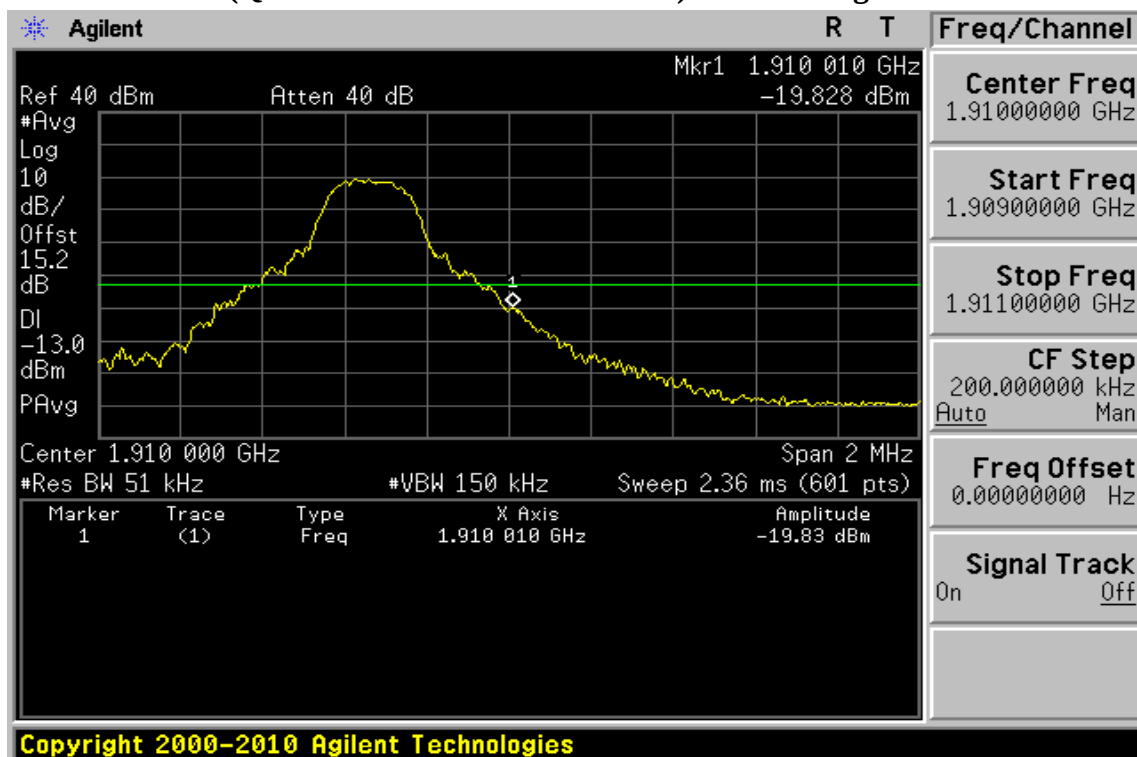
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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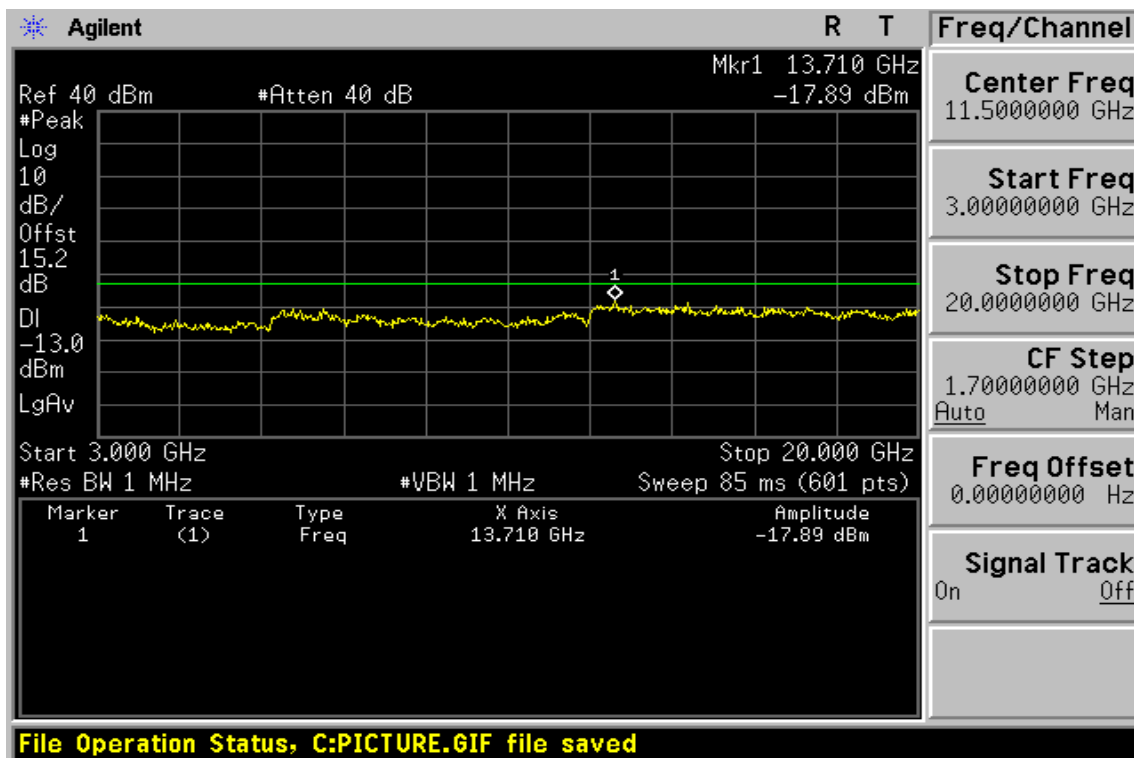
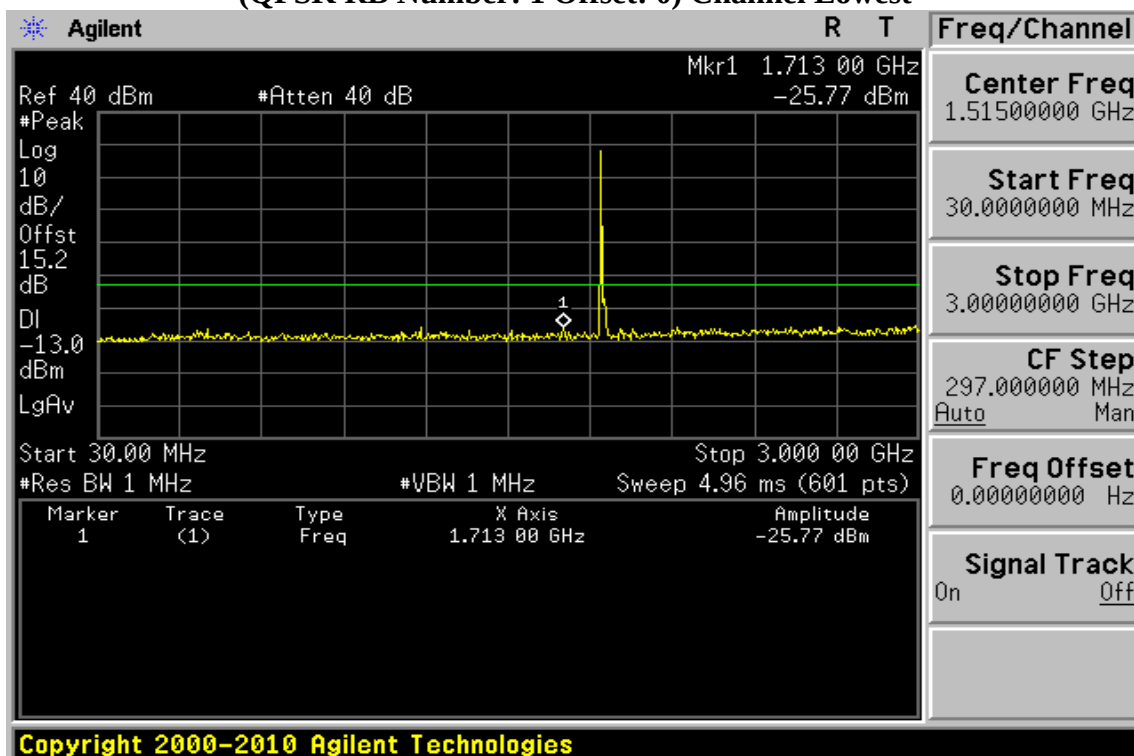
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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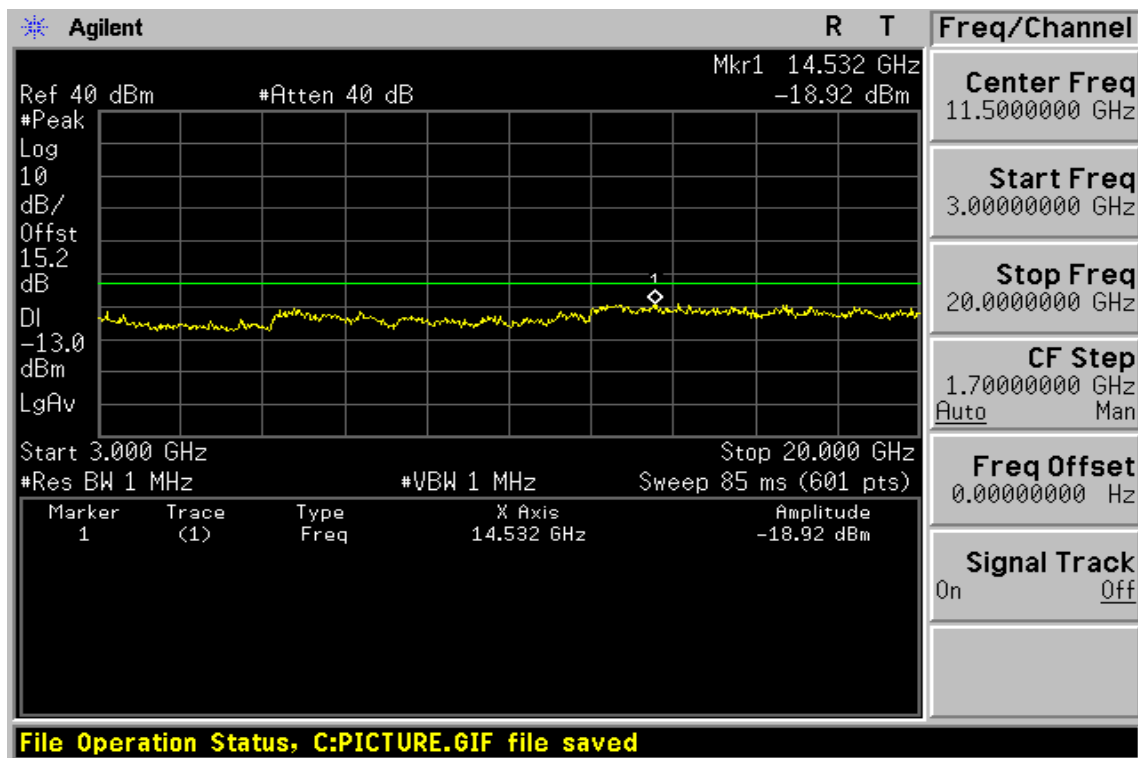
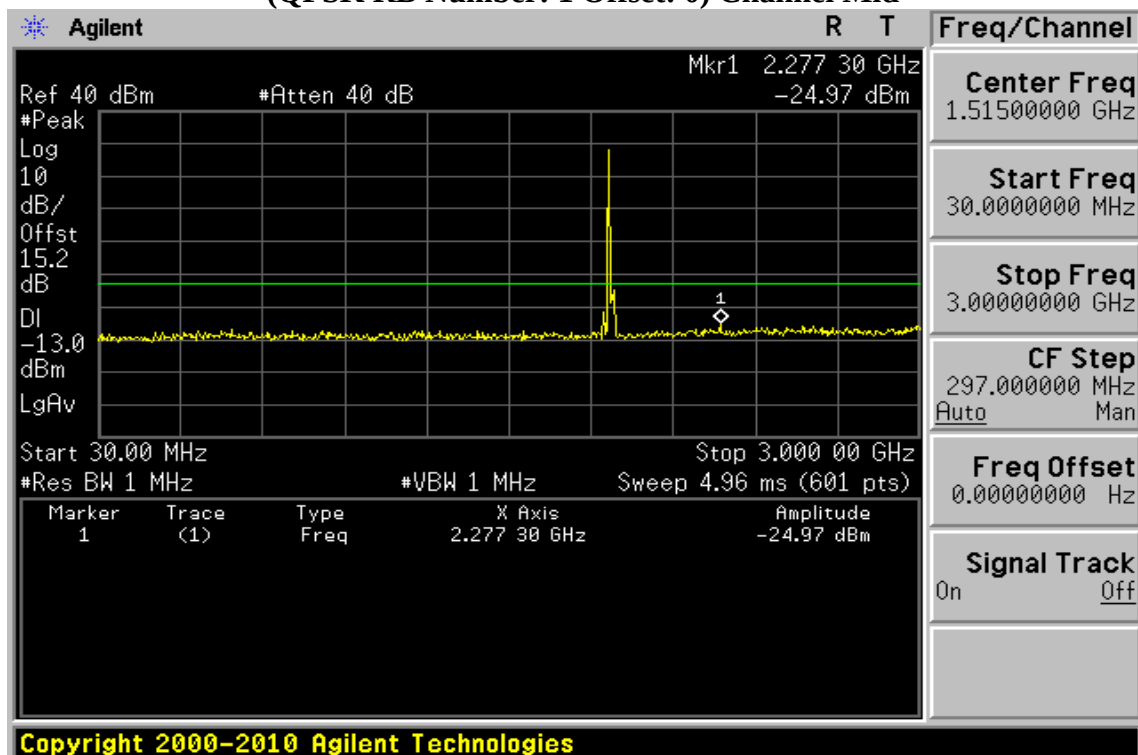
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Out of Band emission at antenna terminals –10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid



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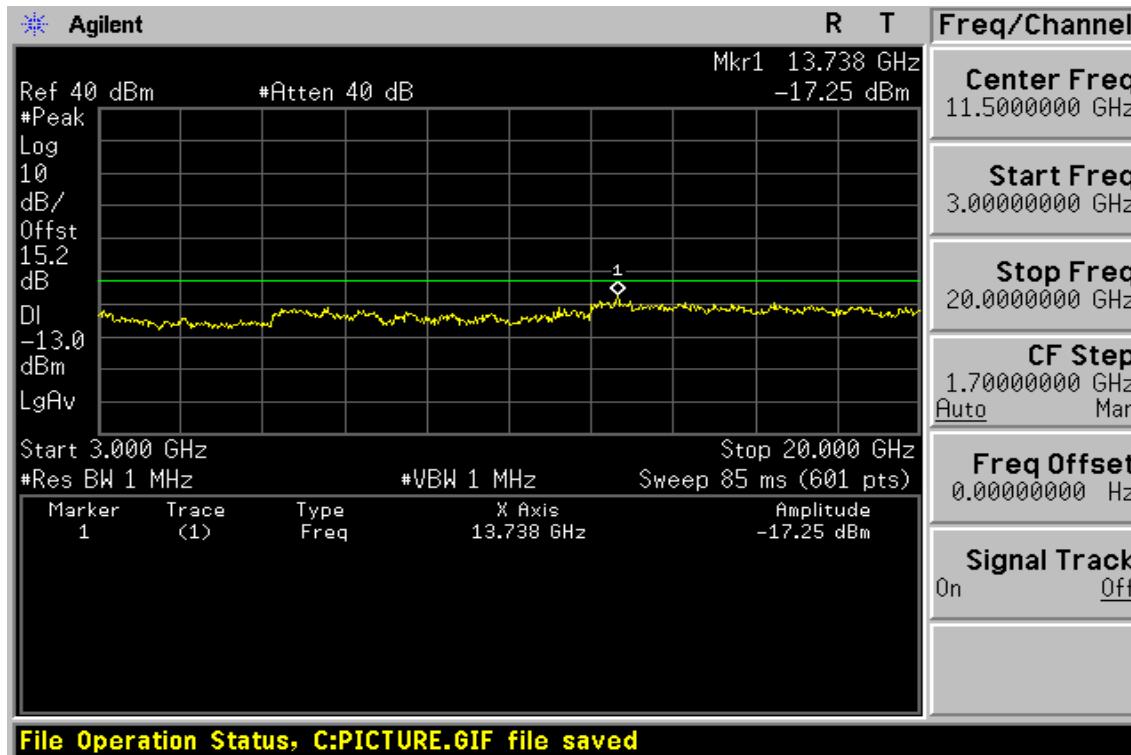
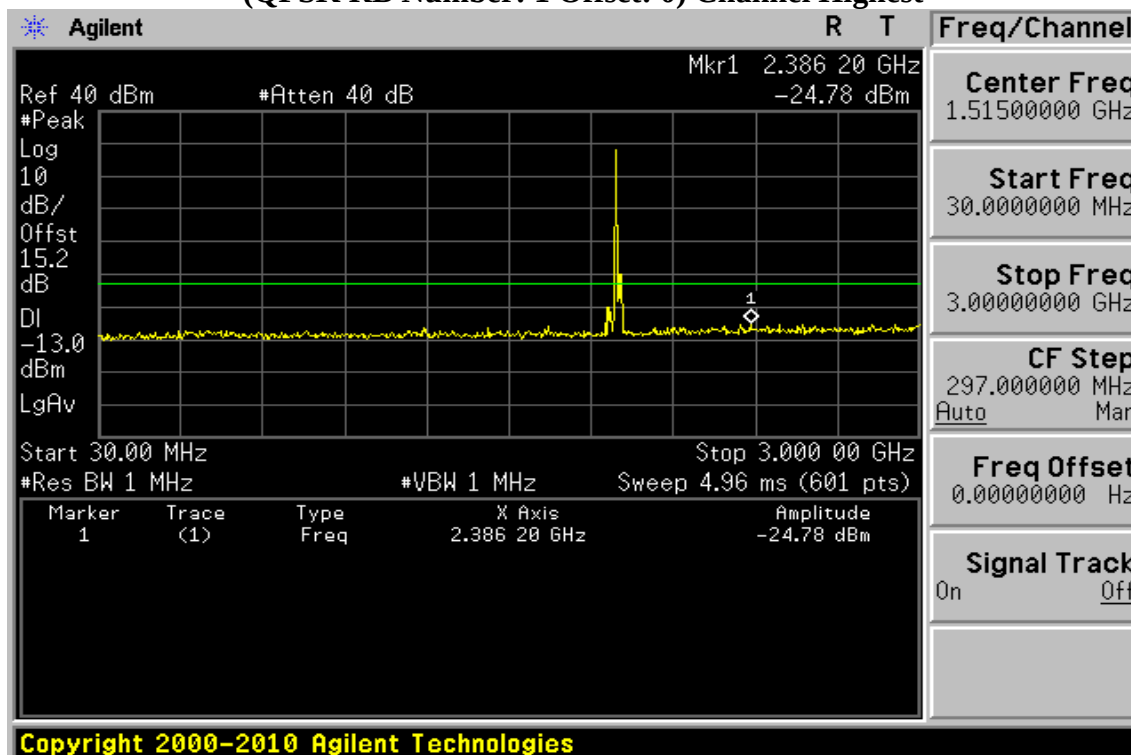
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



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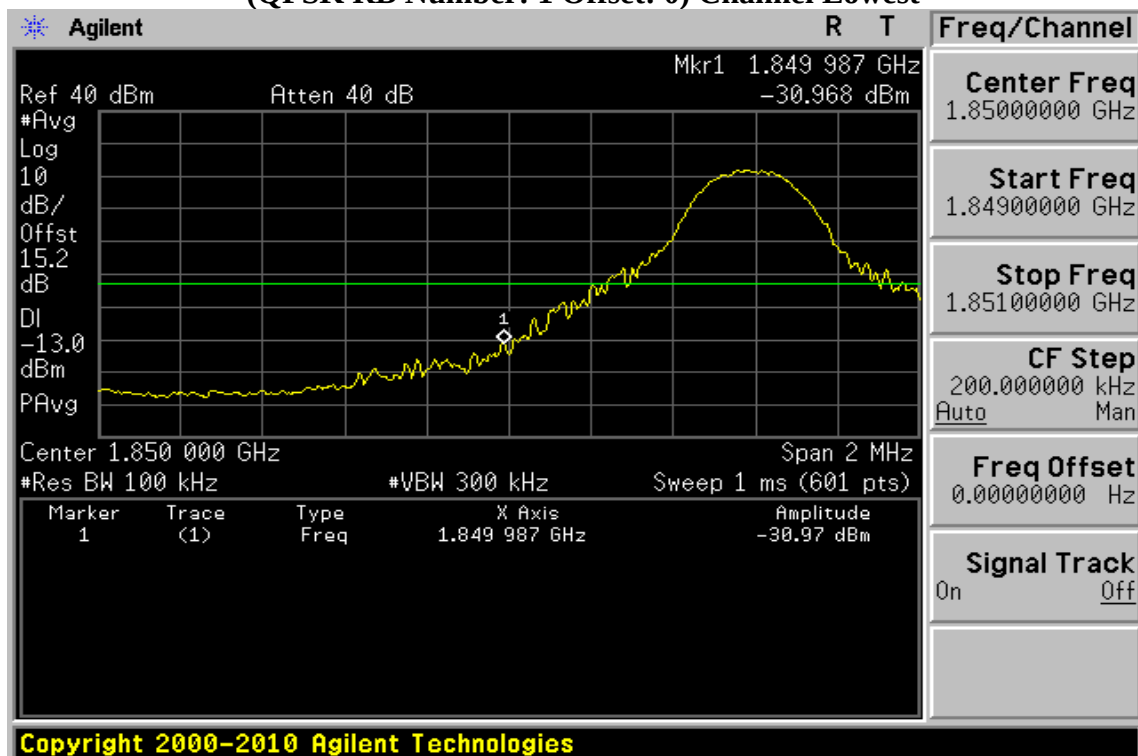
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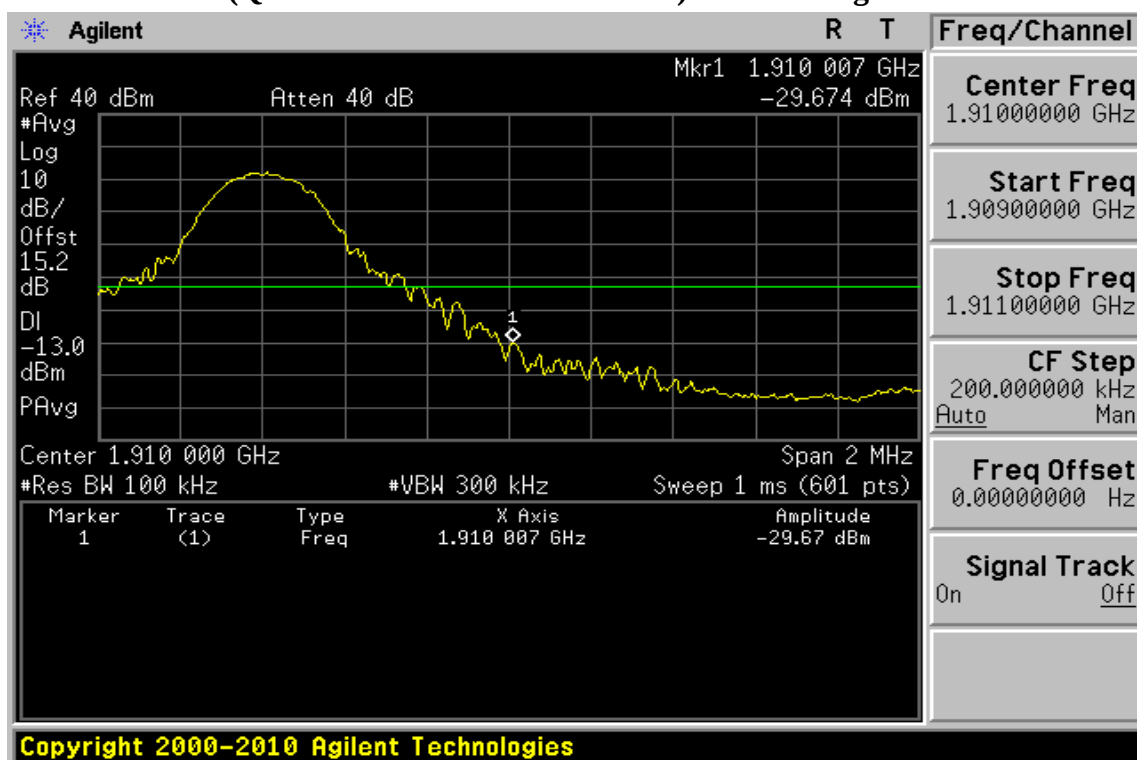
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 49) Channel Highest**



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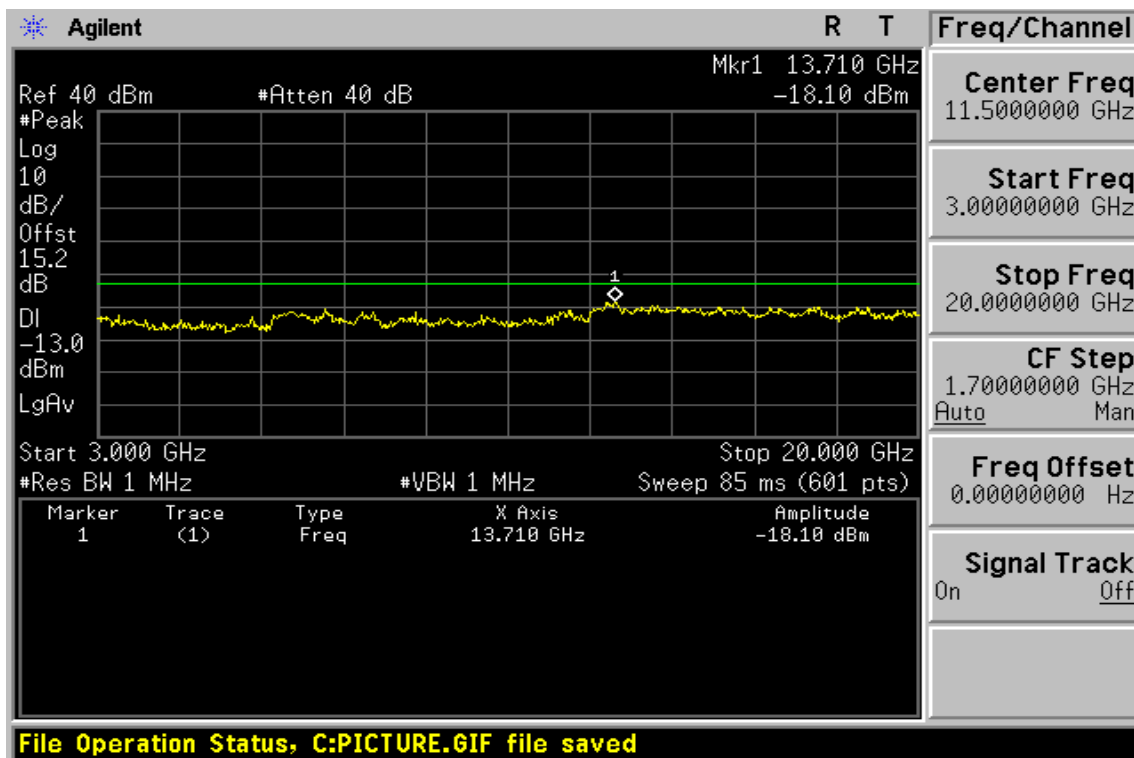
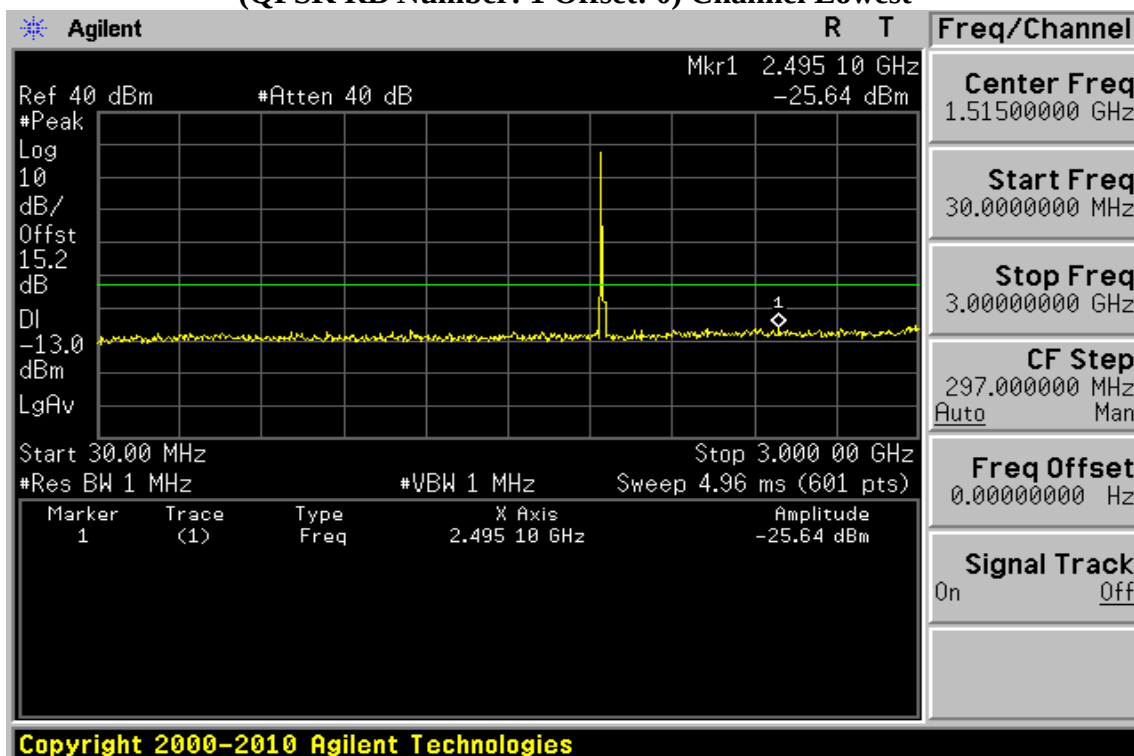
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Out of Band emission at antenna terminals–15MHz BW LTE-Band 2

(QPSK RB Number: 1 Offset: 0) Channel Lowest



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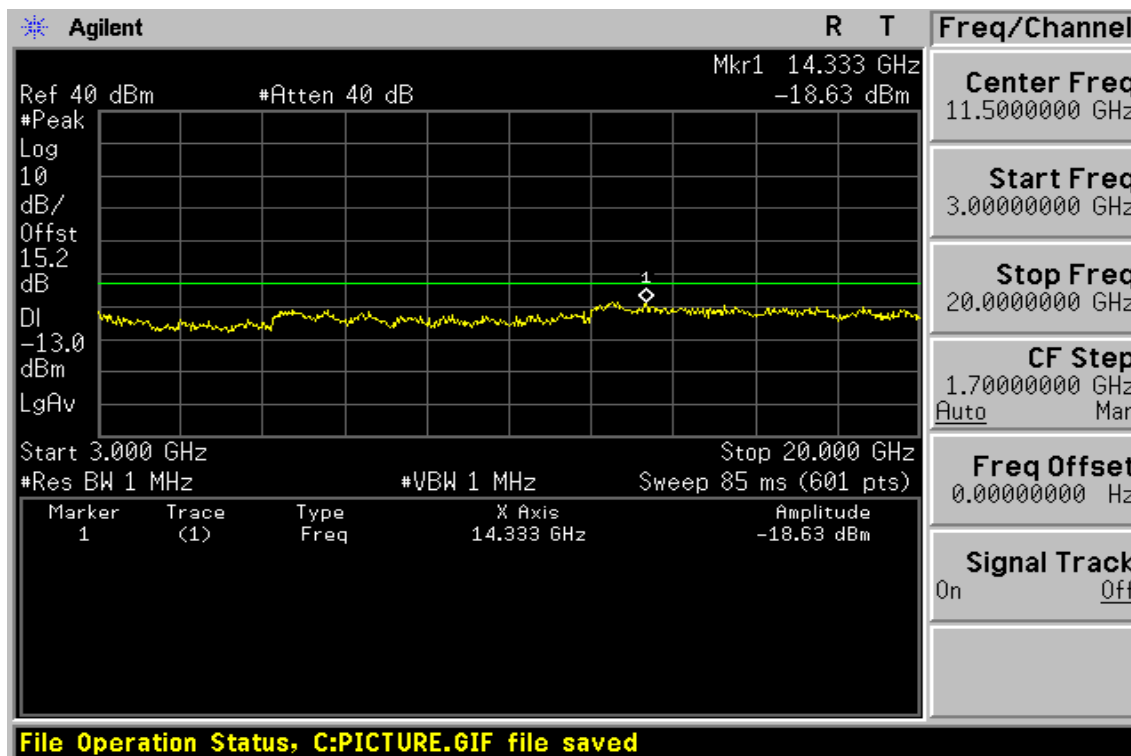
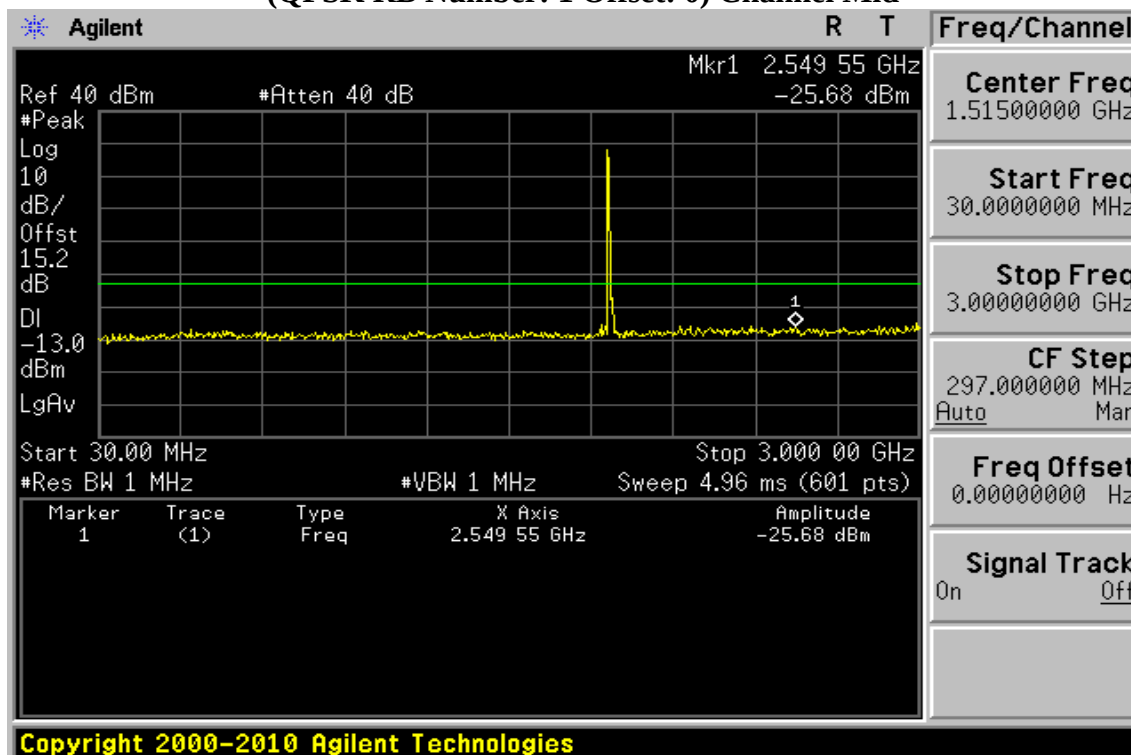
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Out of Band emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid



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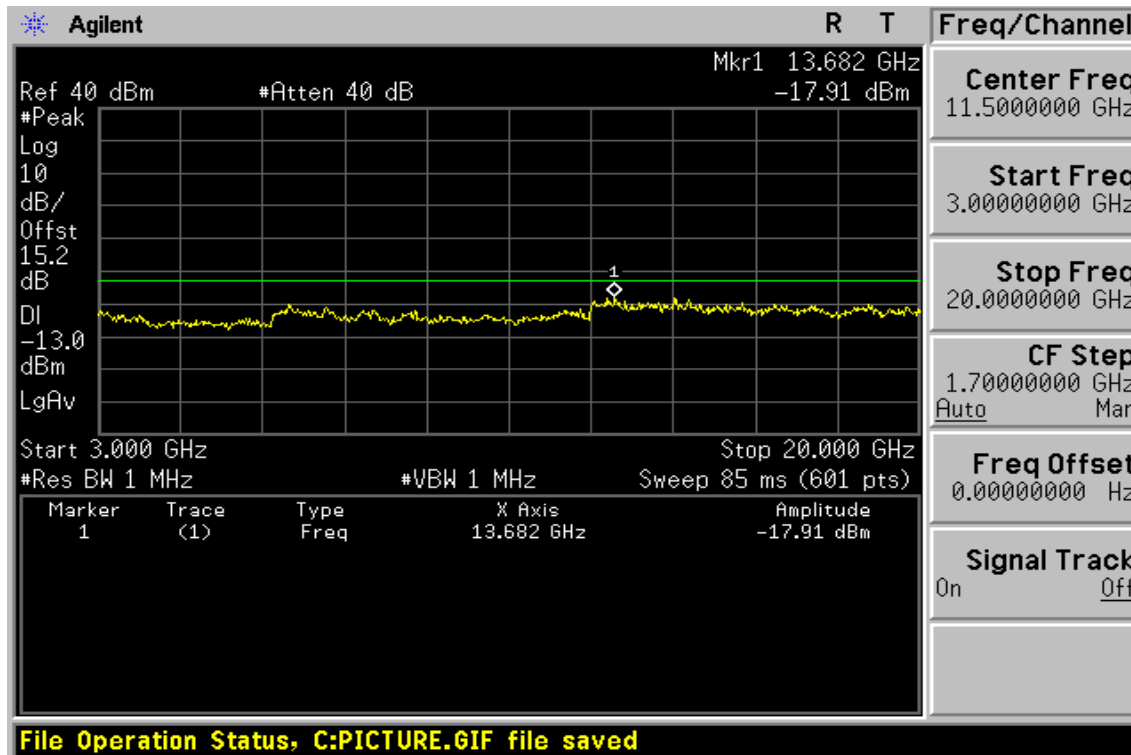
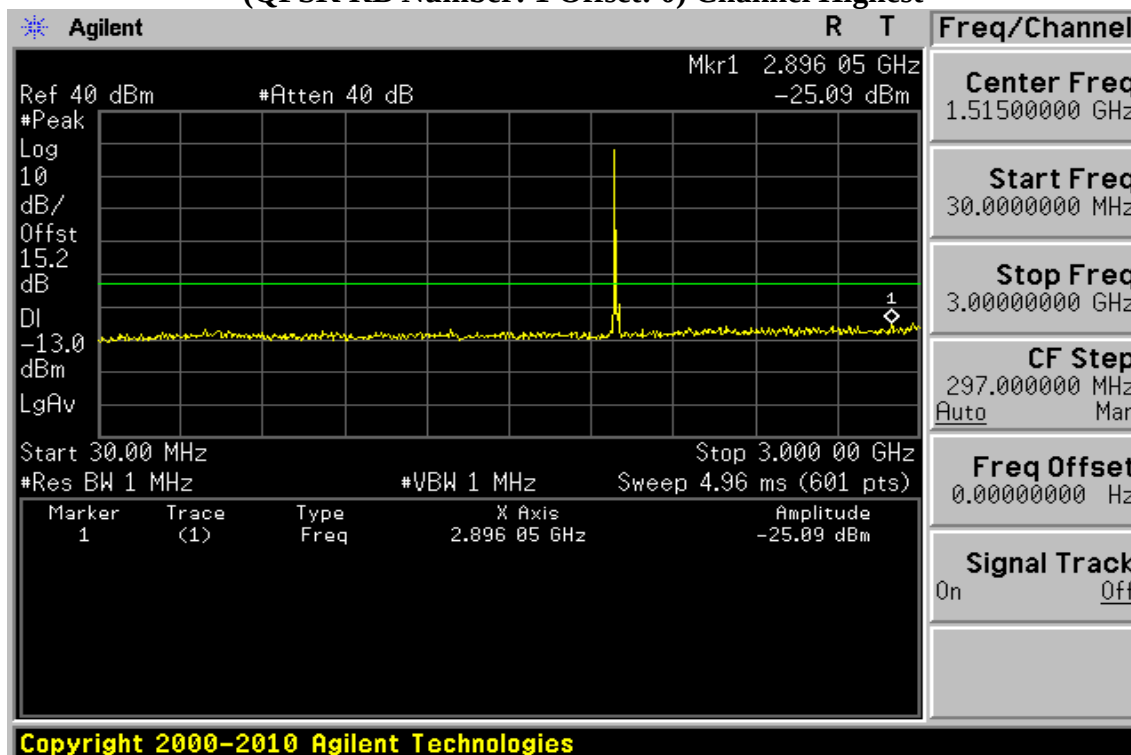
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Out of Band emission at antenna terminals–15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Highest



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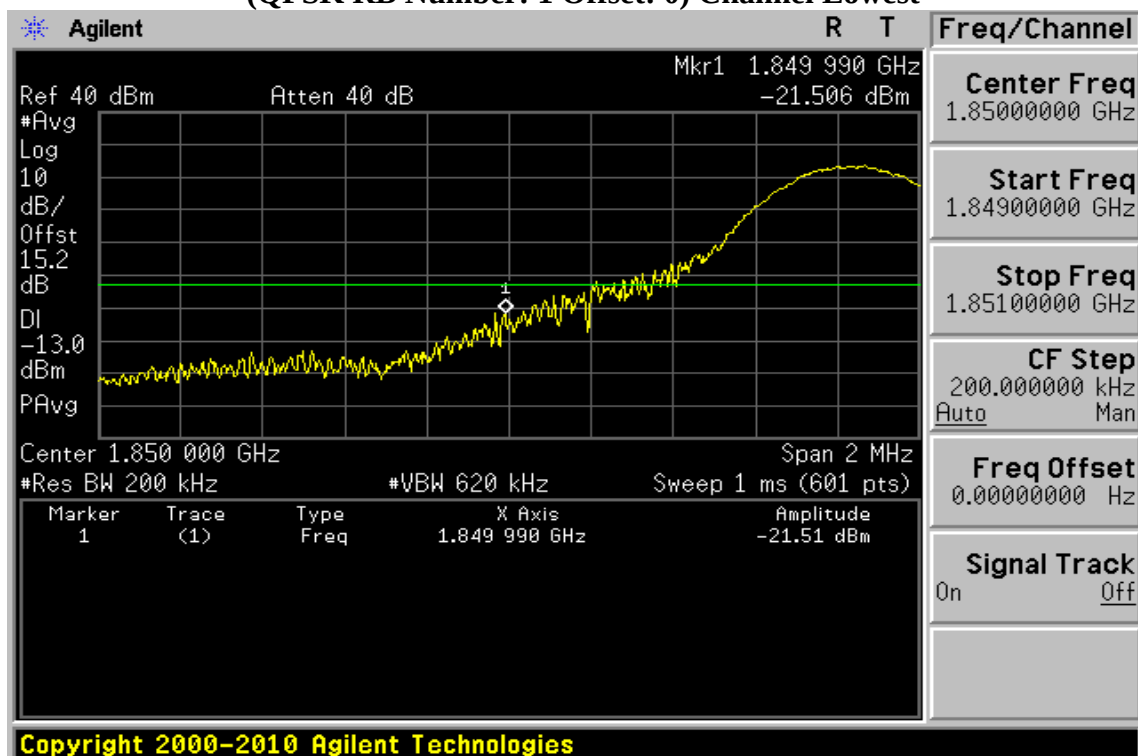
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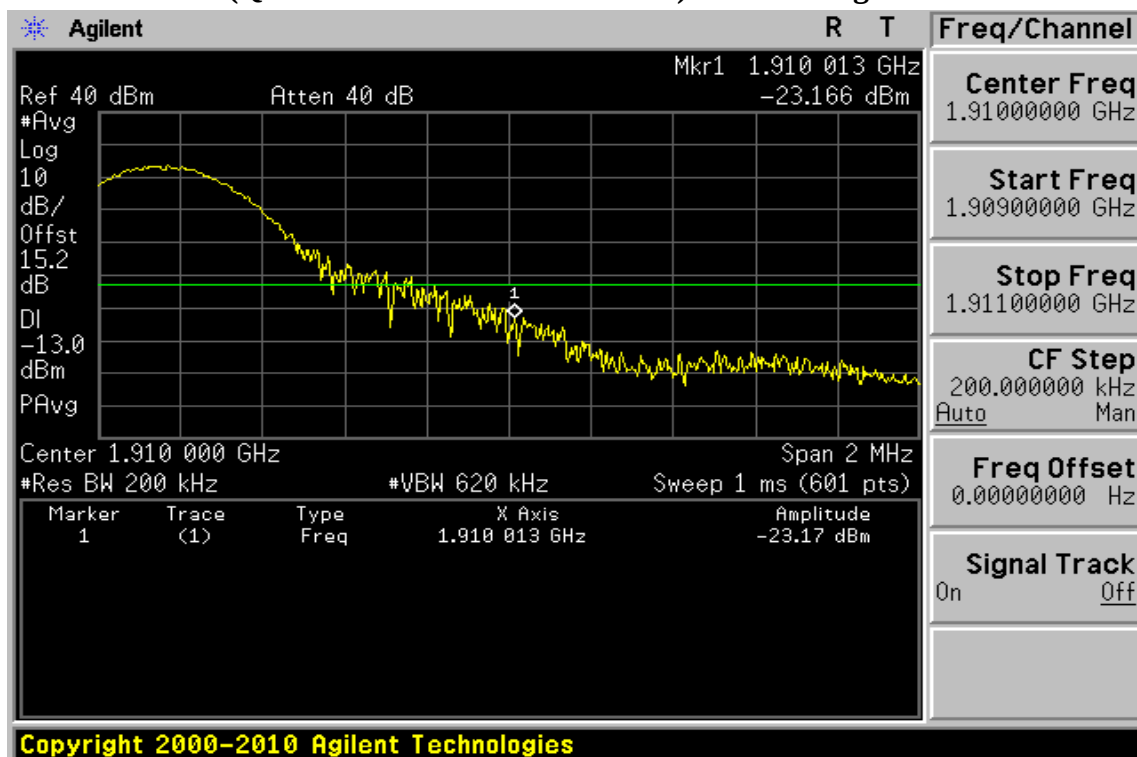
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Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 74) Channel Highest



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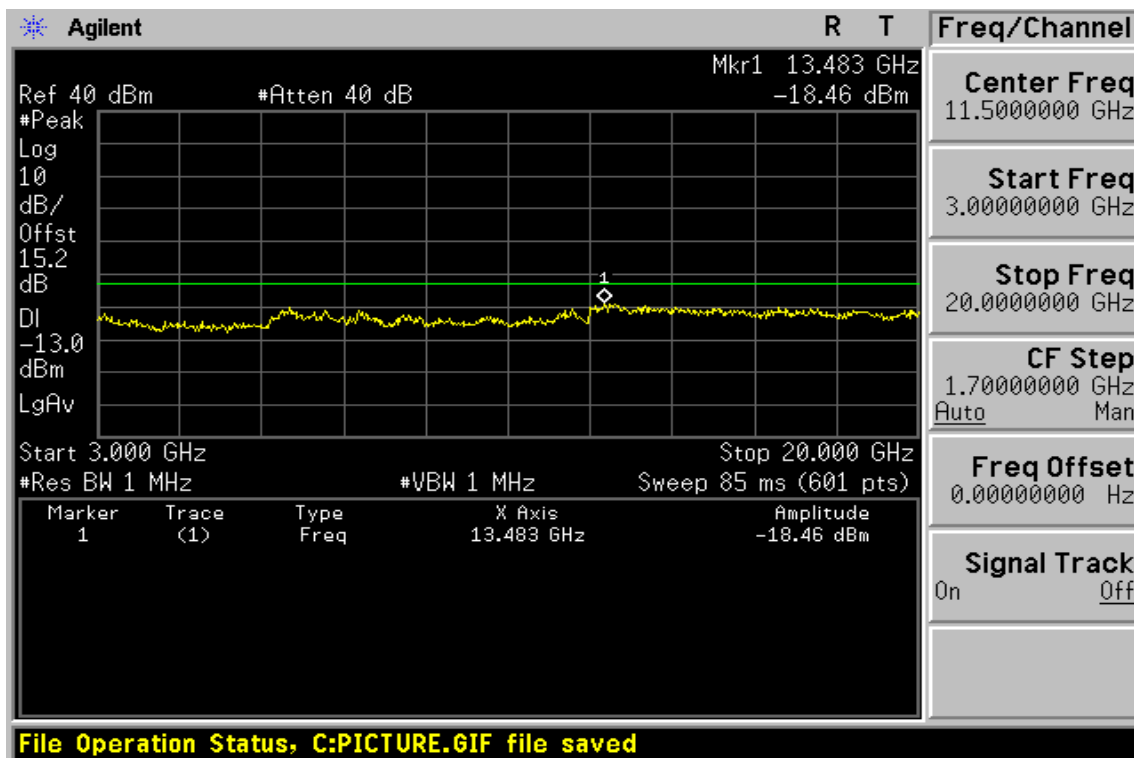
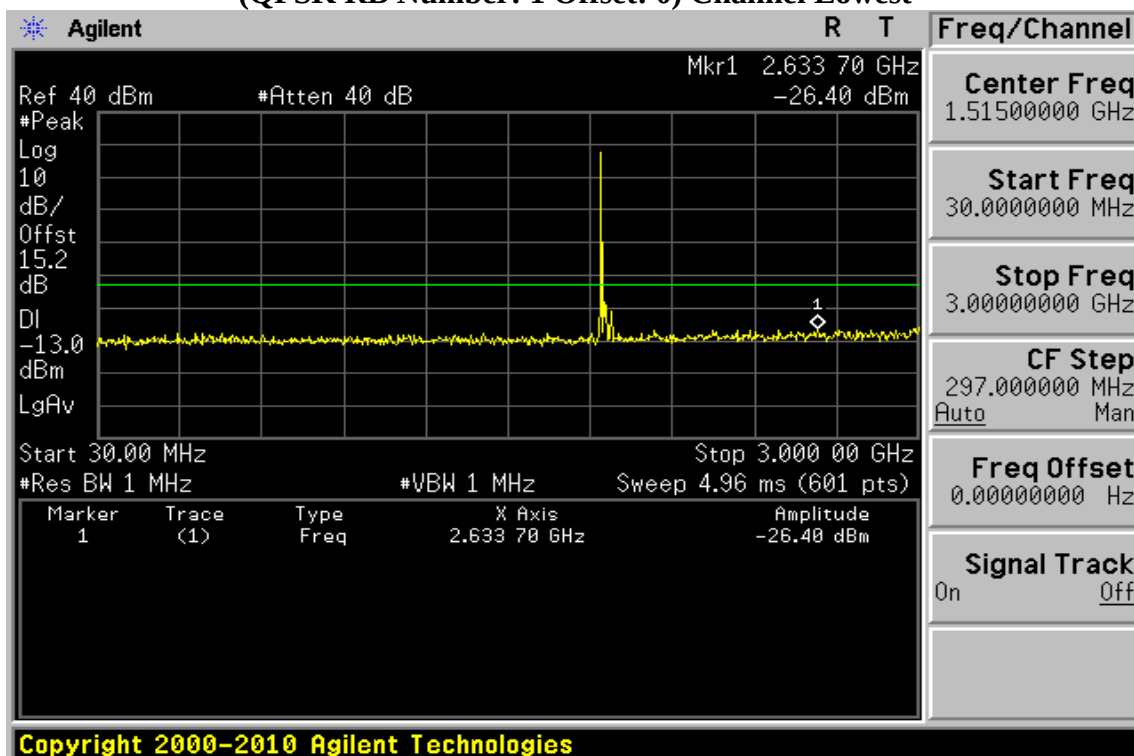
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Out of Band emission at antenna terminals–20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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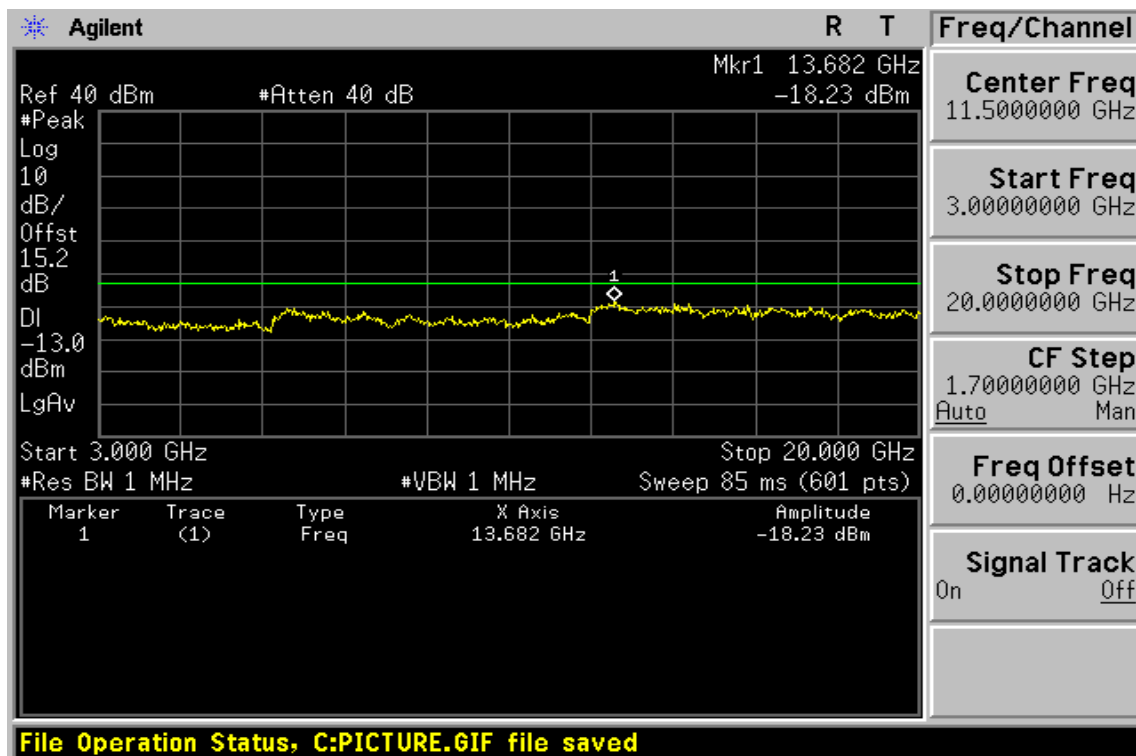
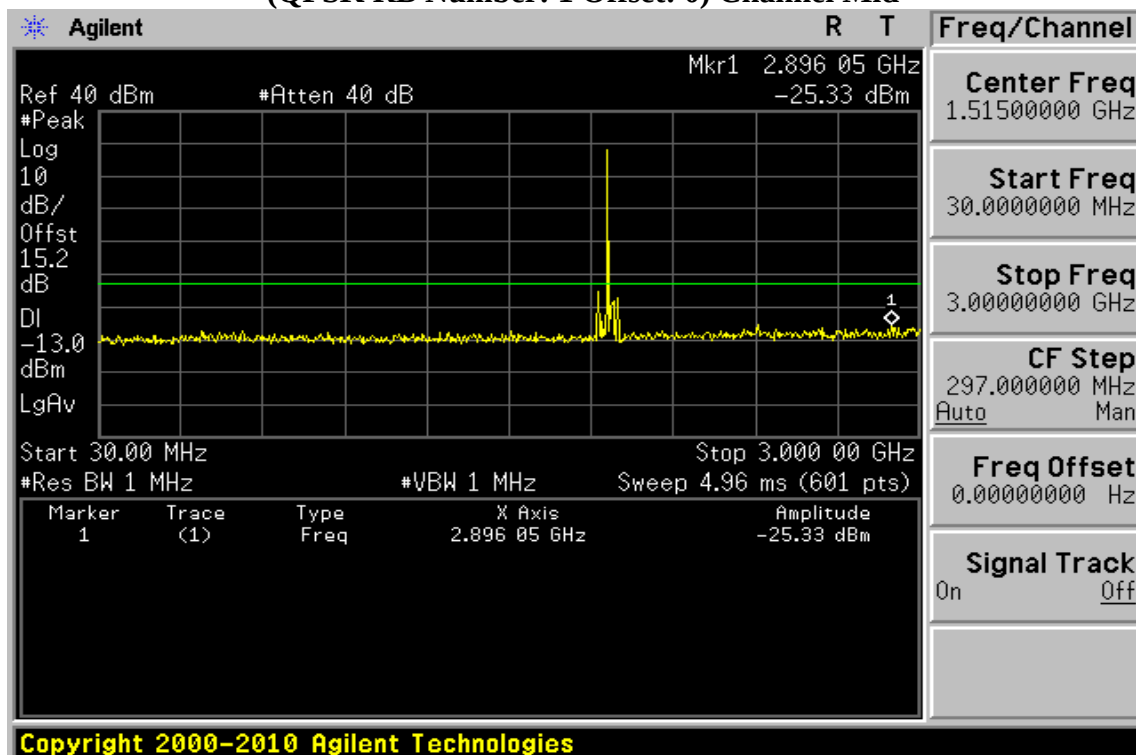
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Out of Band emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Mid



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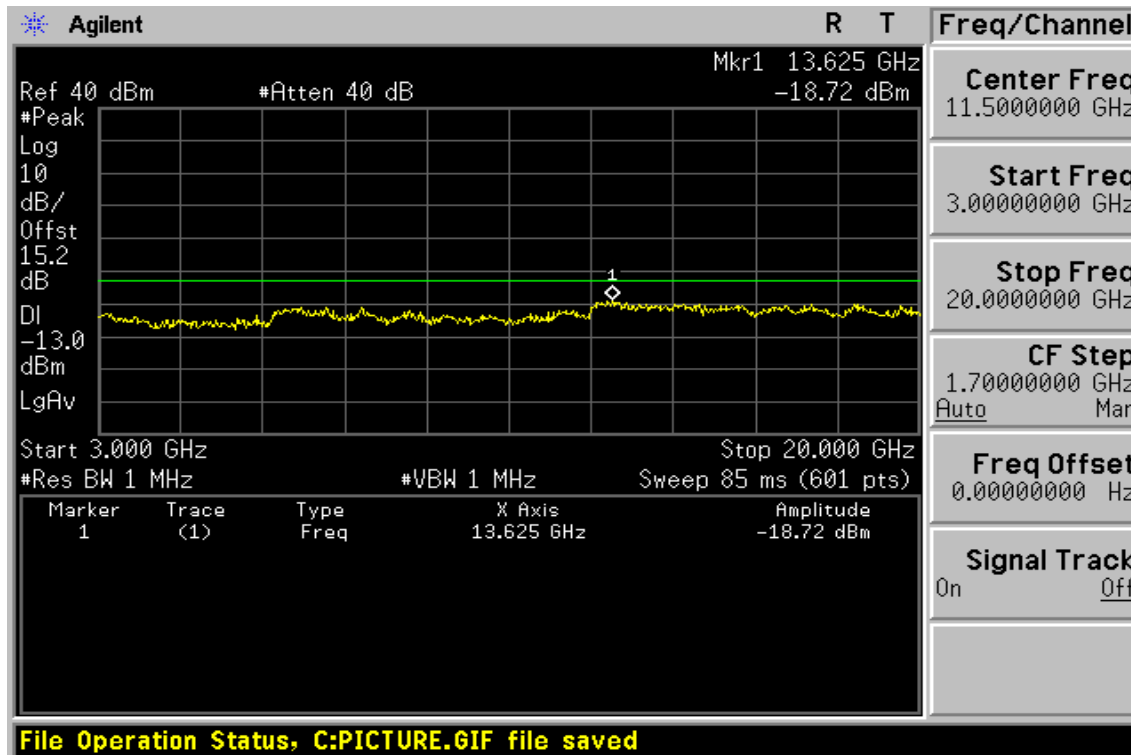
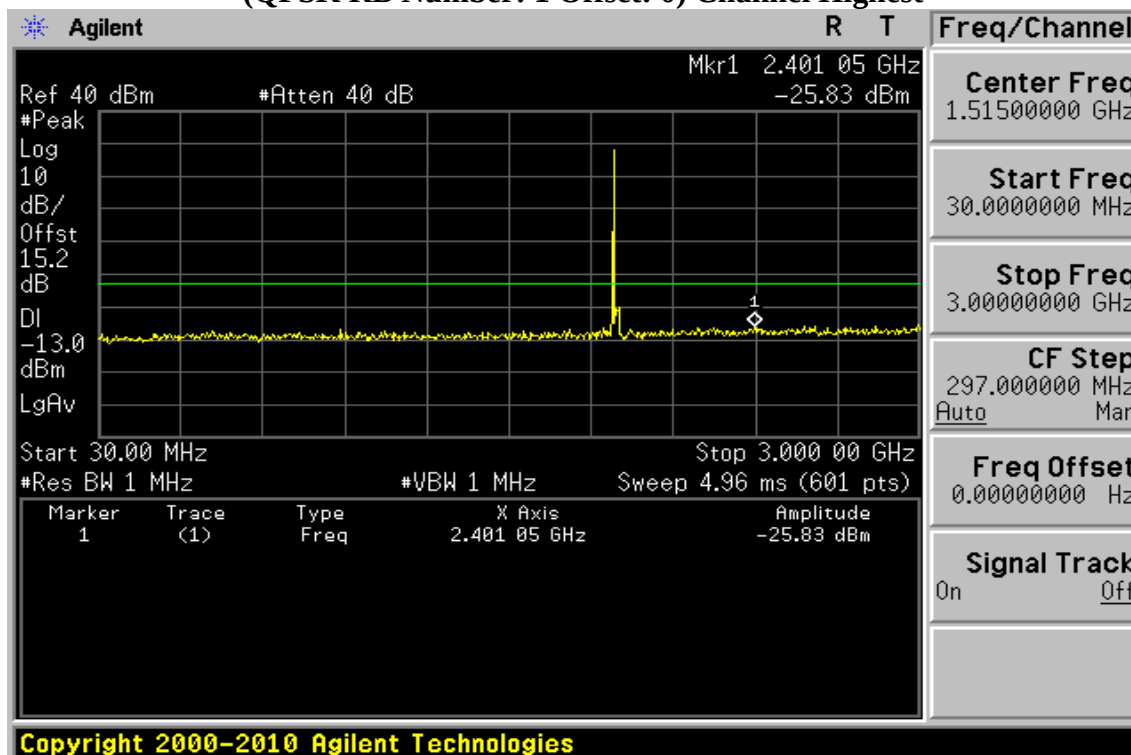
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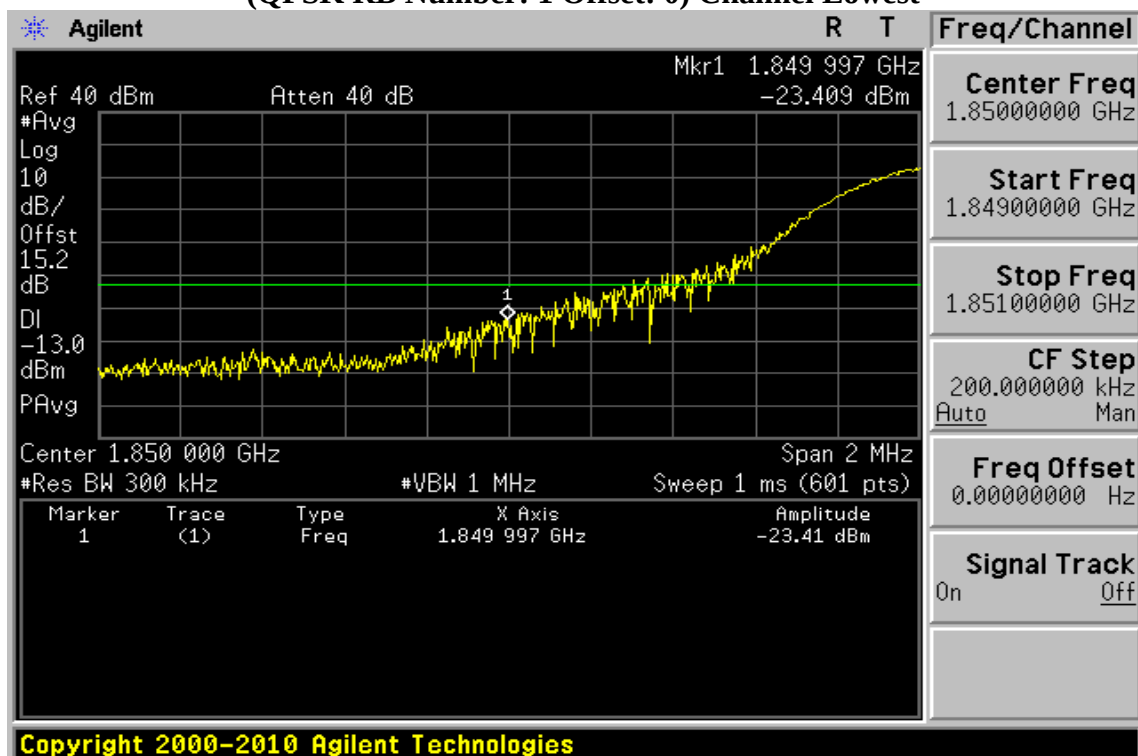
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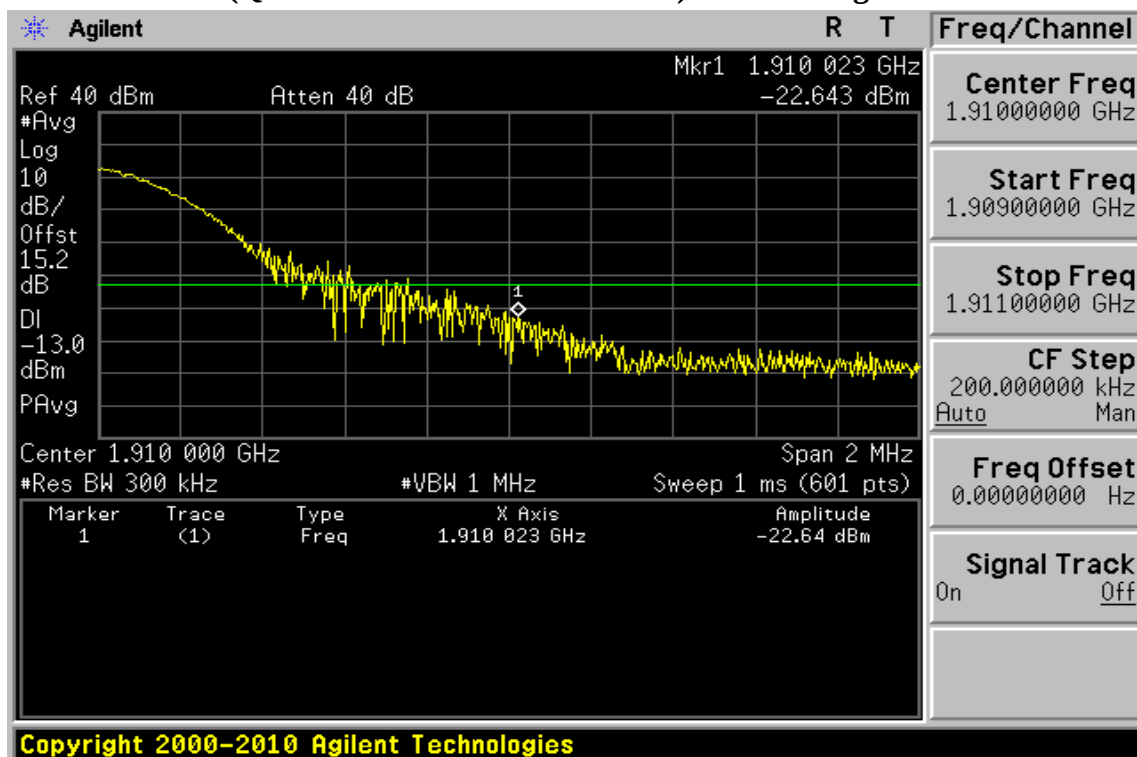
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Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 2 (QPSK RB Number: 1 Offset: 99) Channel Highest



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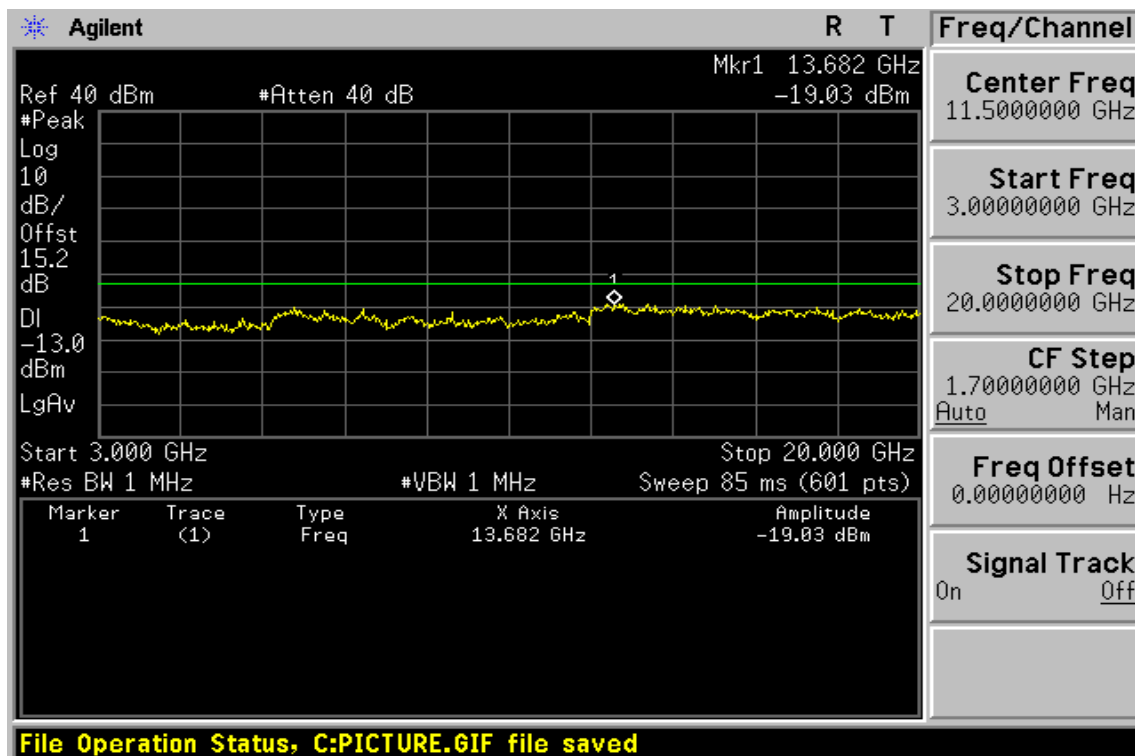
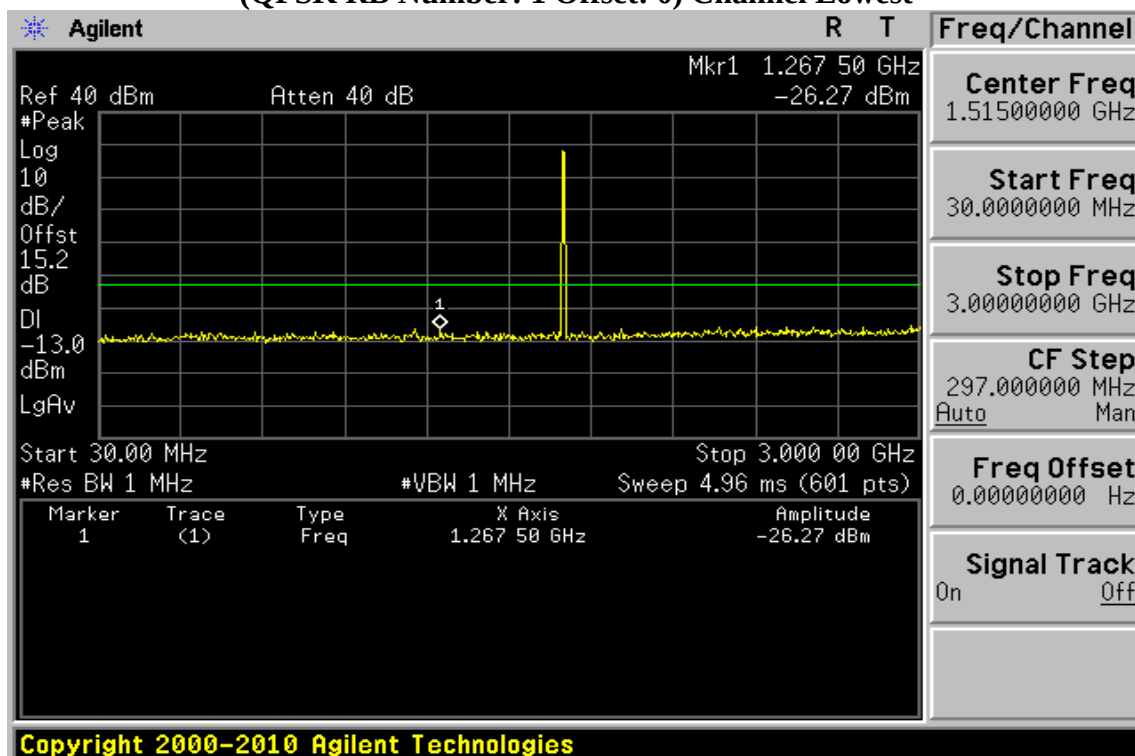
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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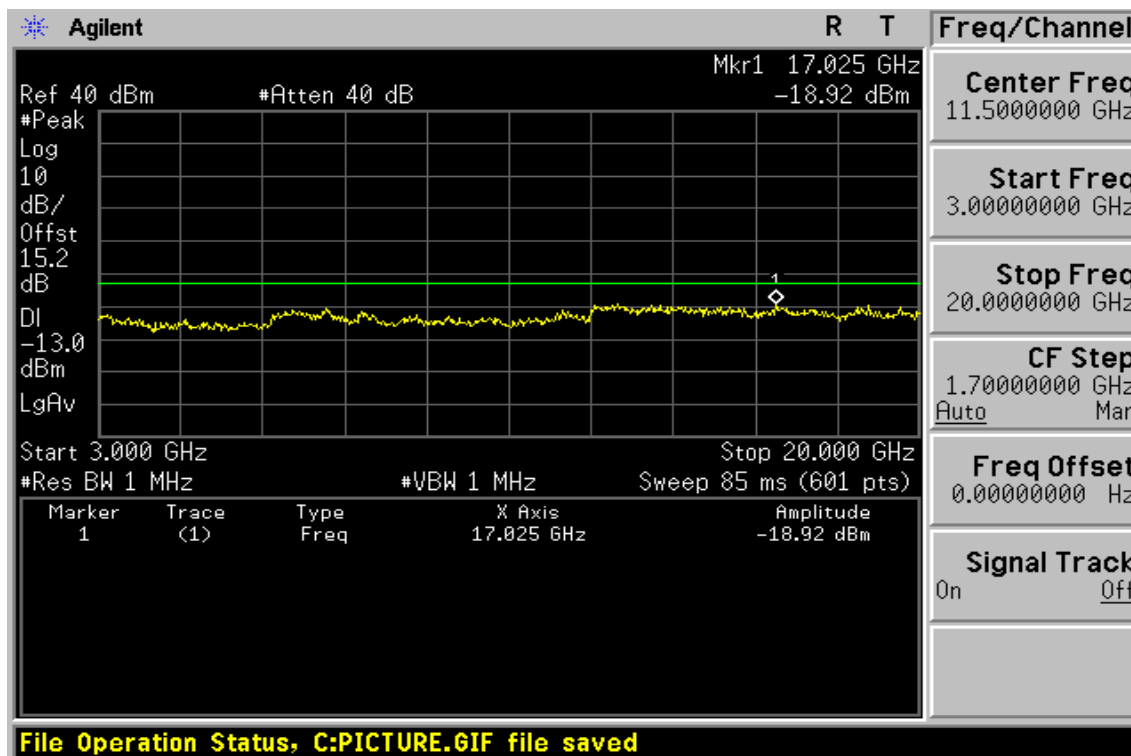
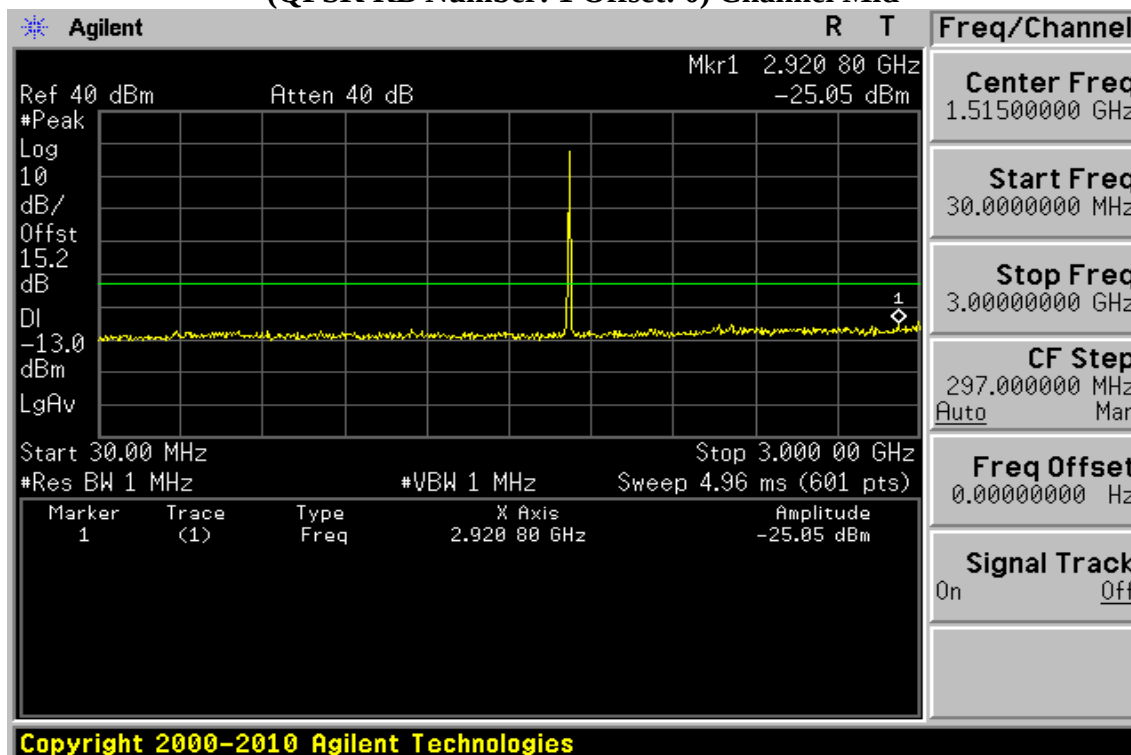
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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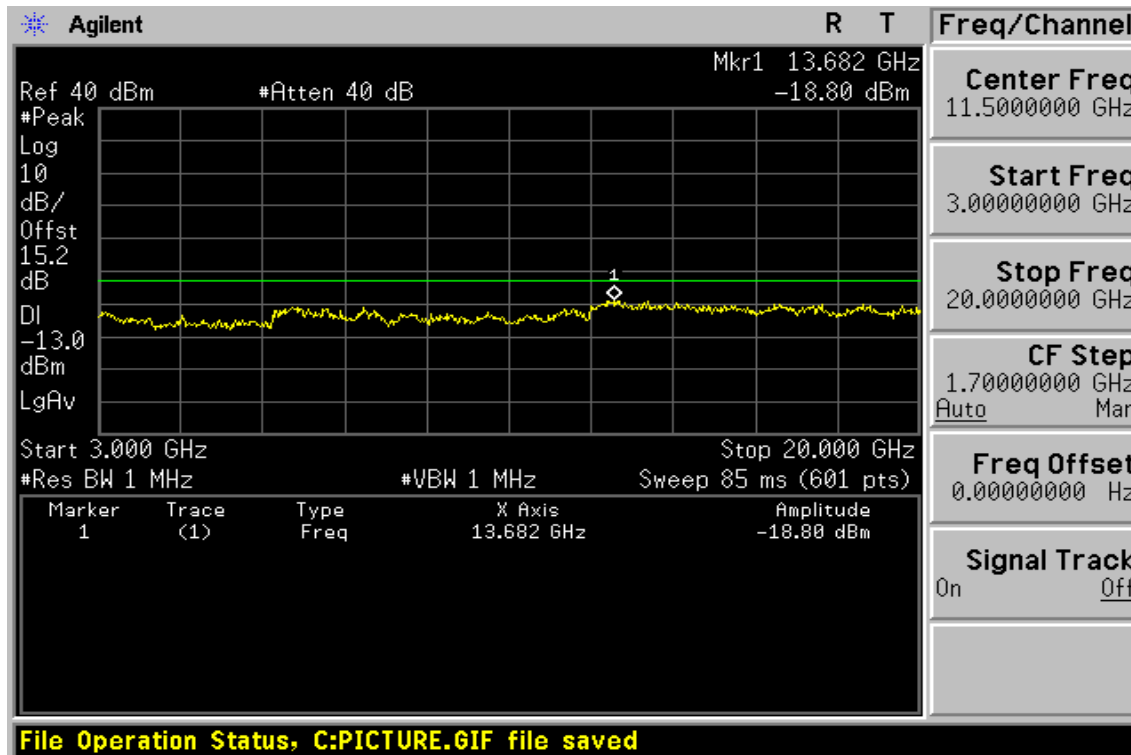
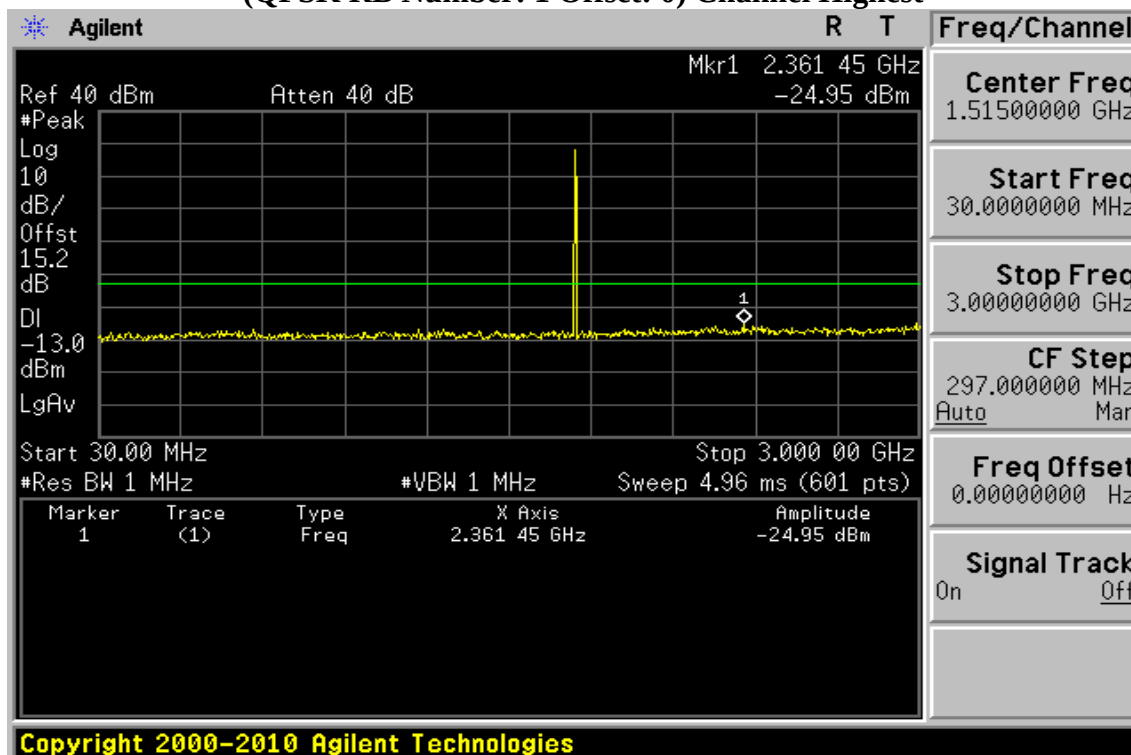
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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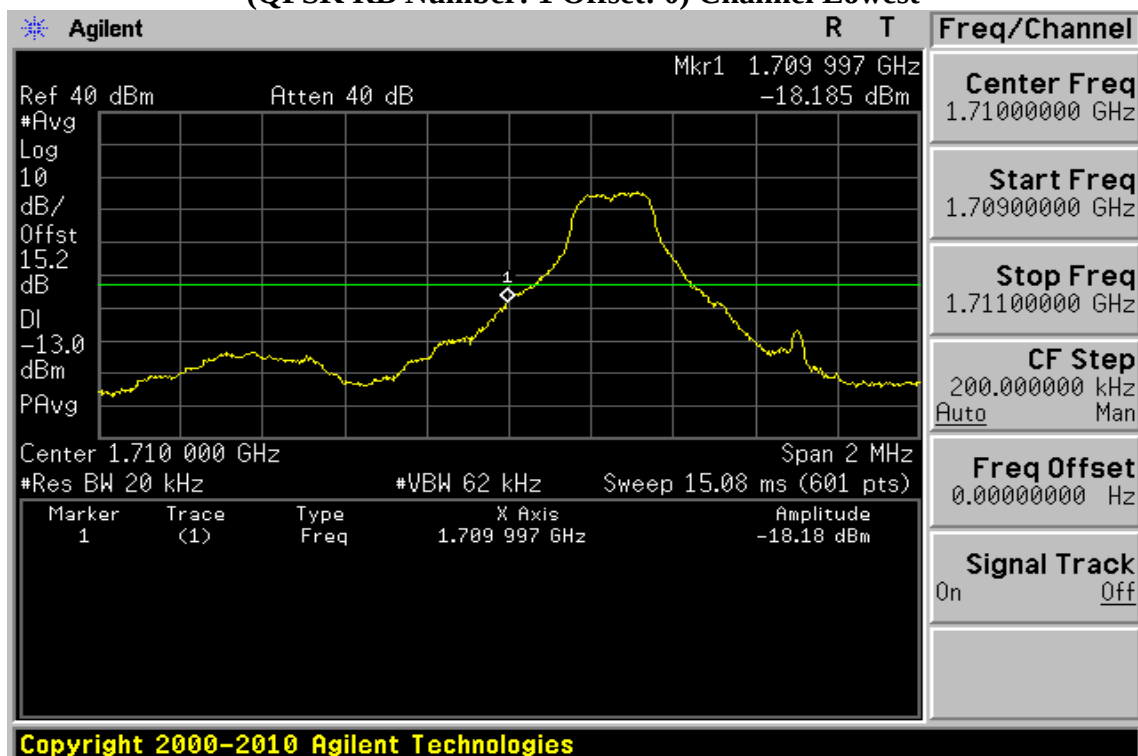
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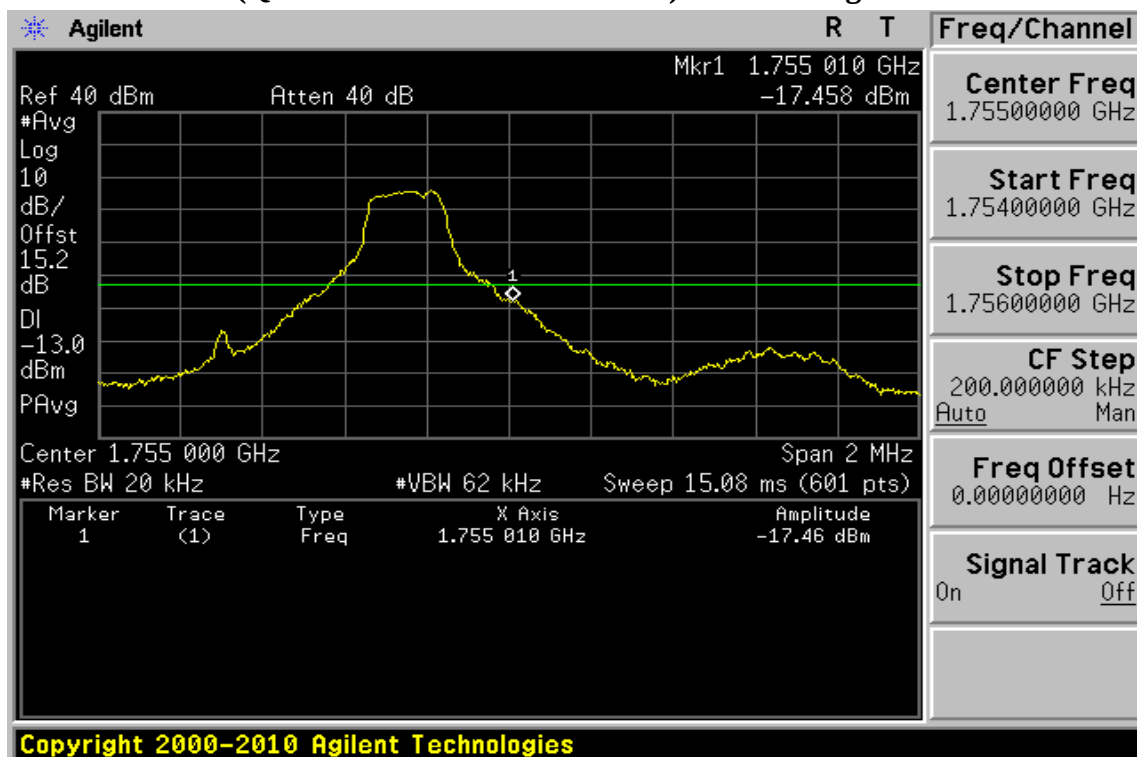
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 5) Channel Highest**



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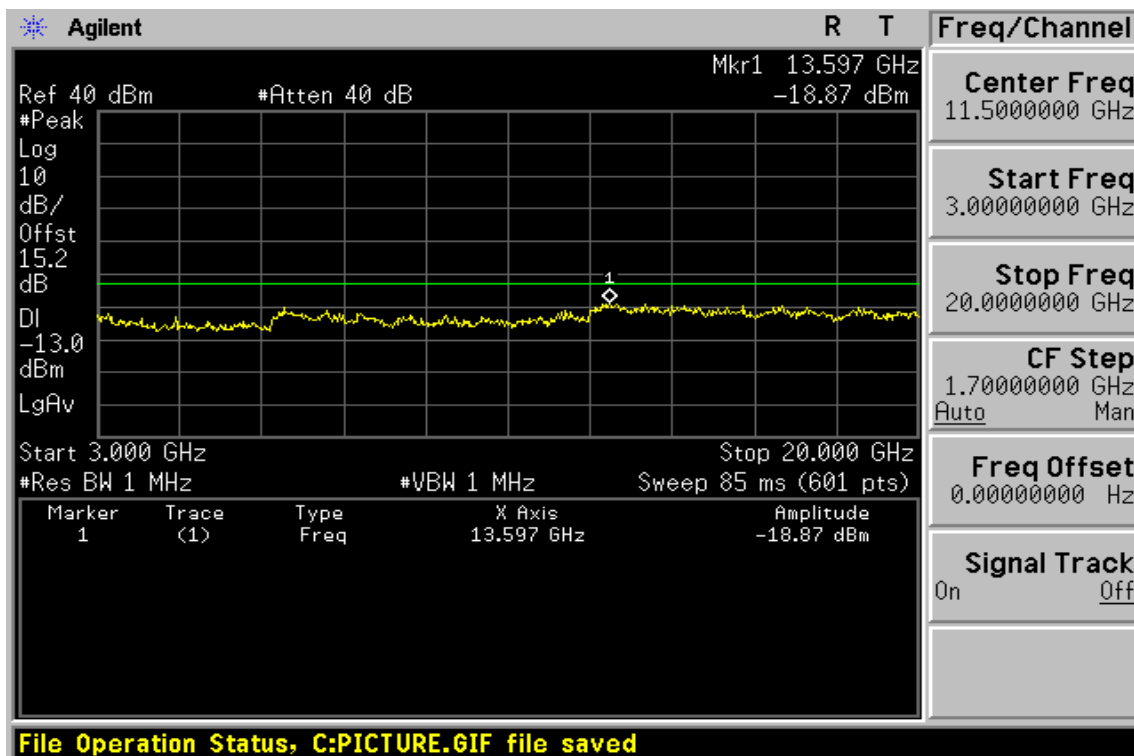
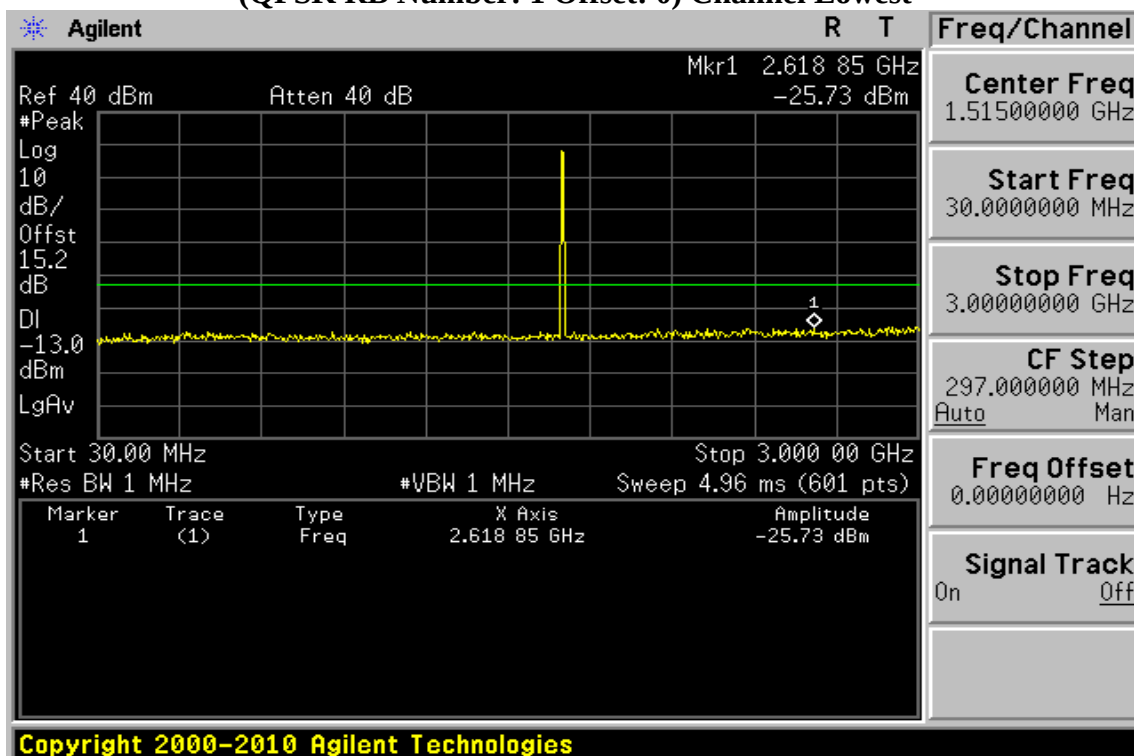
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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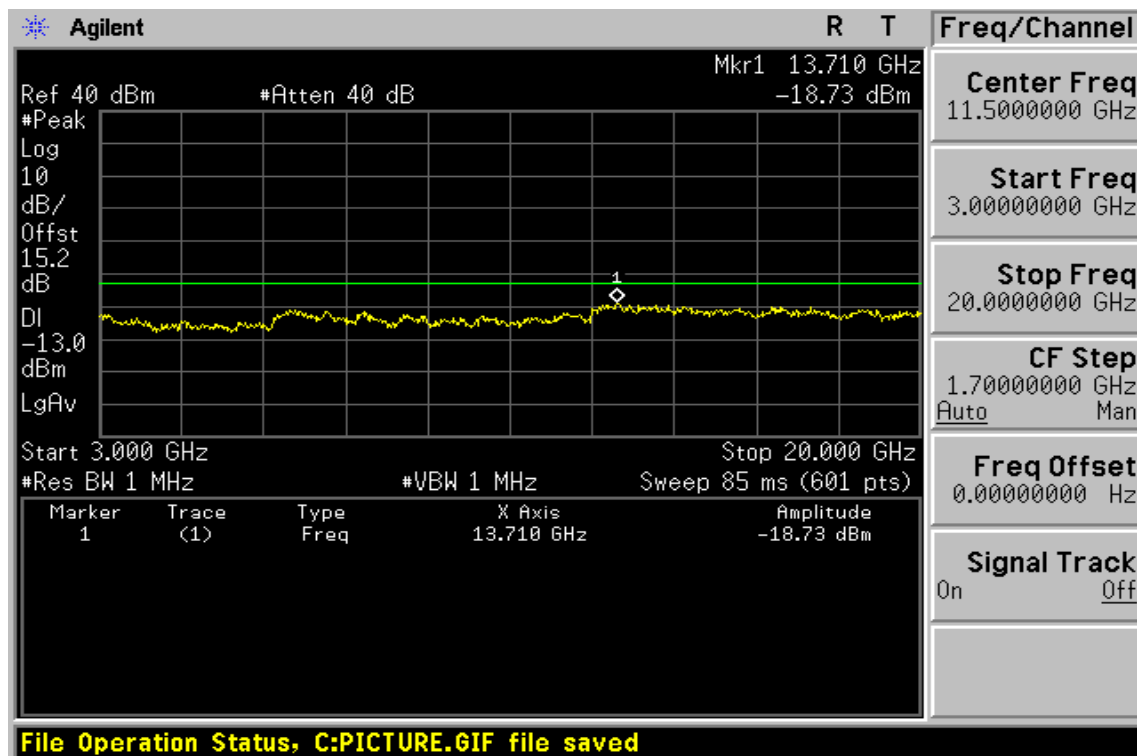
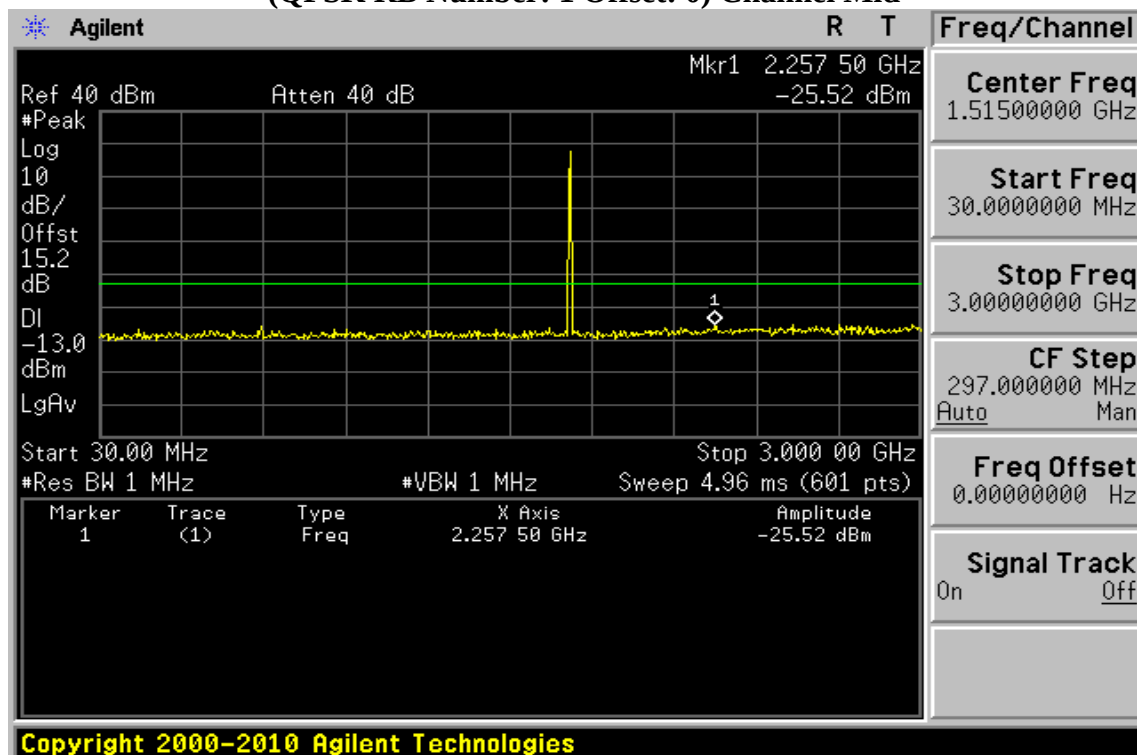
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Out of Band emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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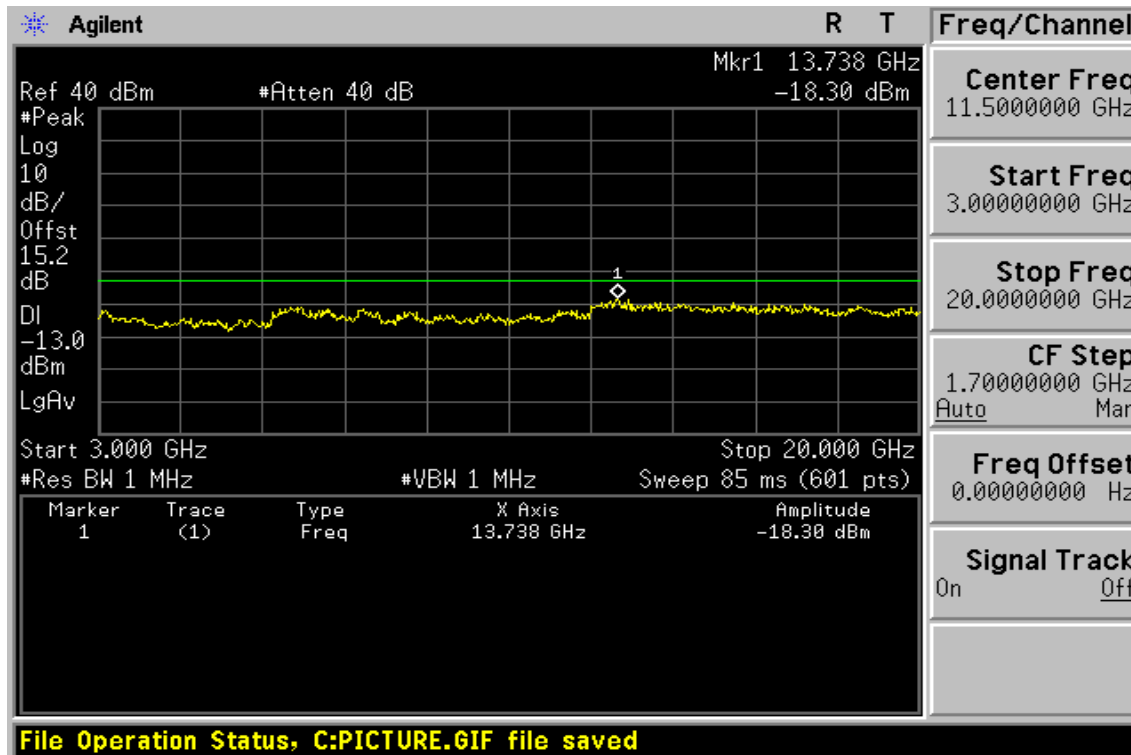
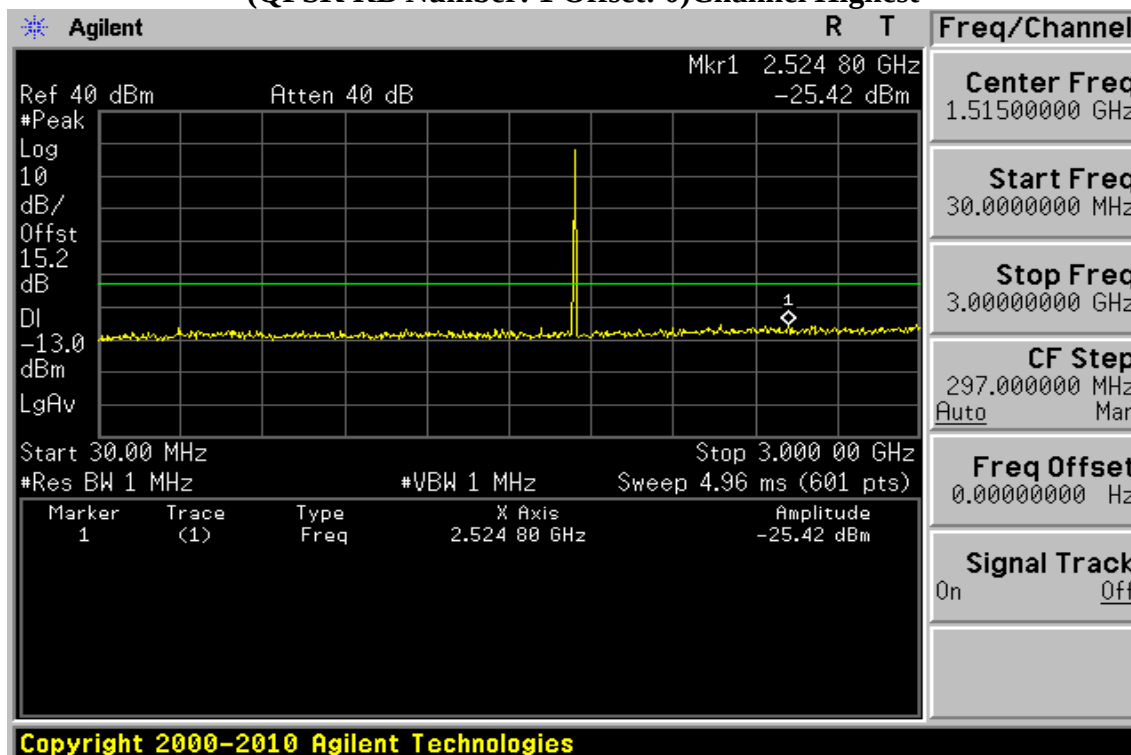
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0)Channel Highest



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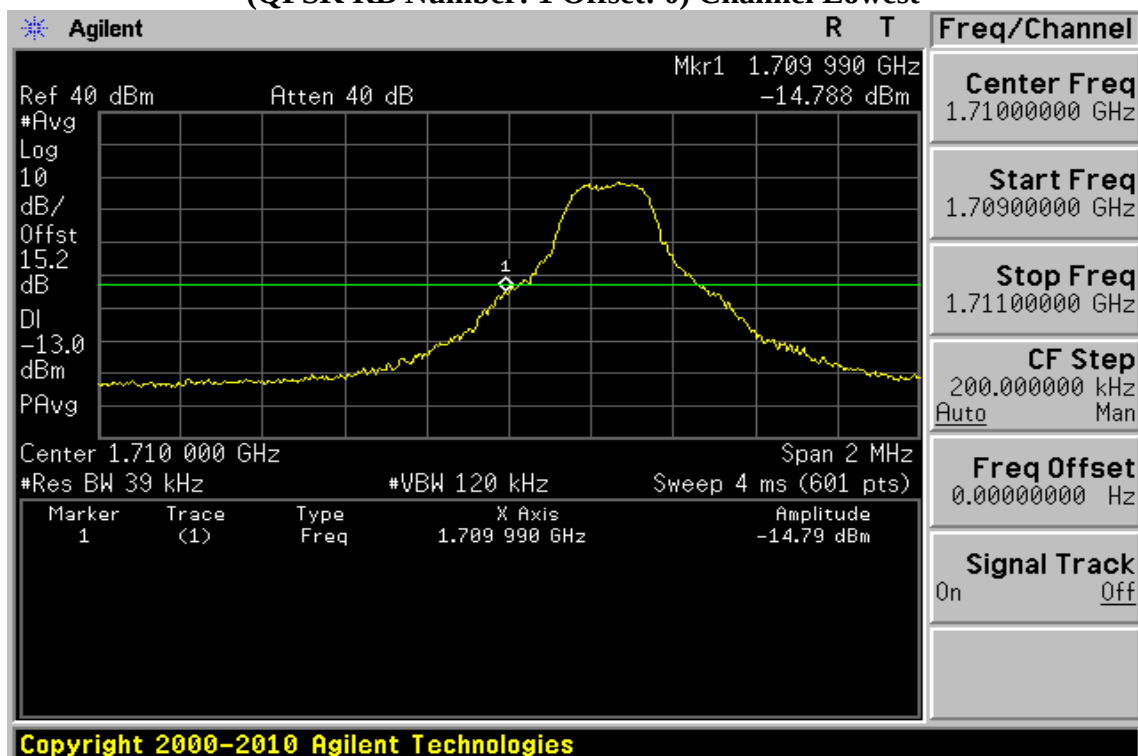
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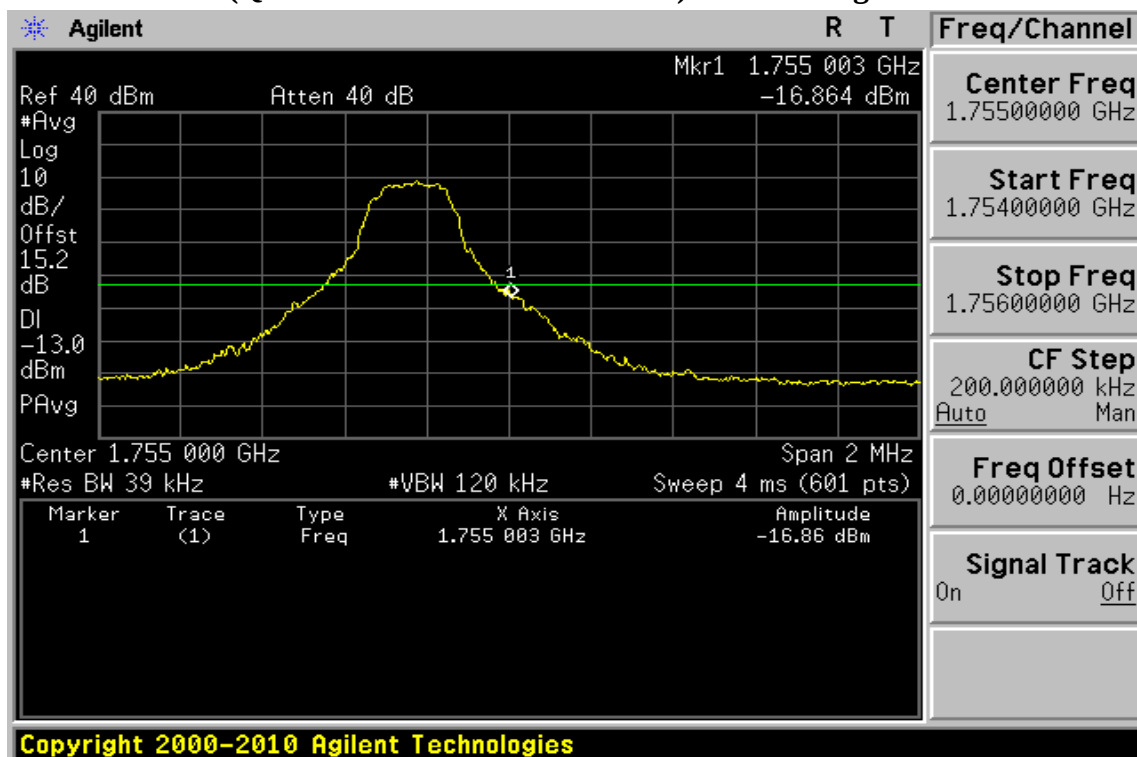
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**Band edge emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –3MHz BW LTE-Band 4
(QPSK RB Number: 1 Offset: 14) Channel Highest**



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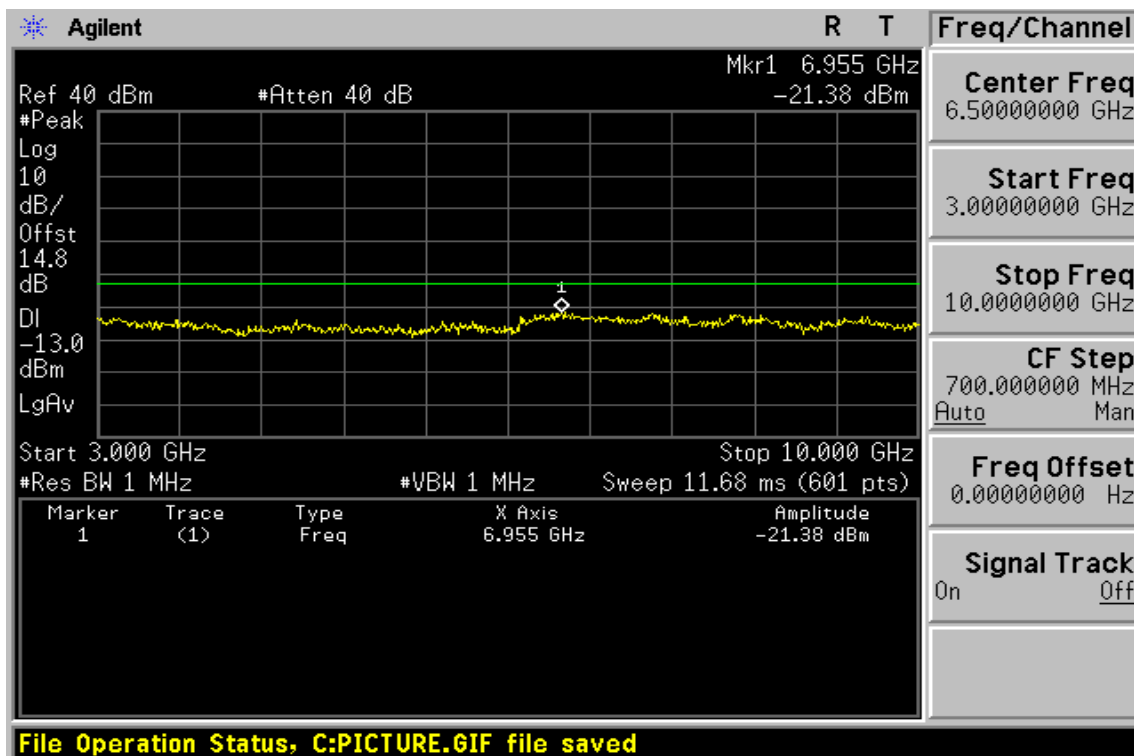
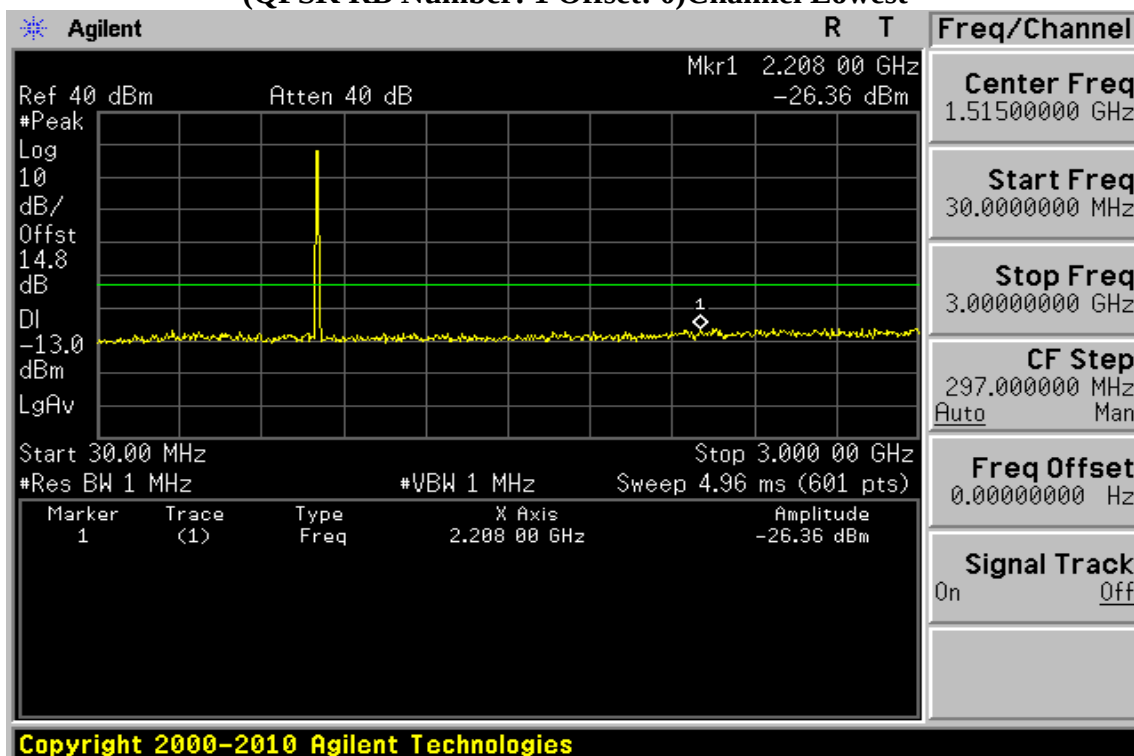
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0)Channel Lowest



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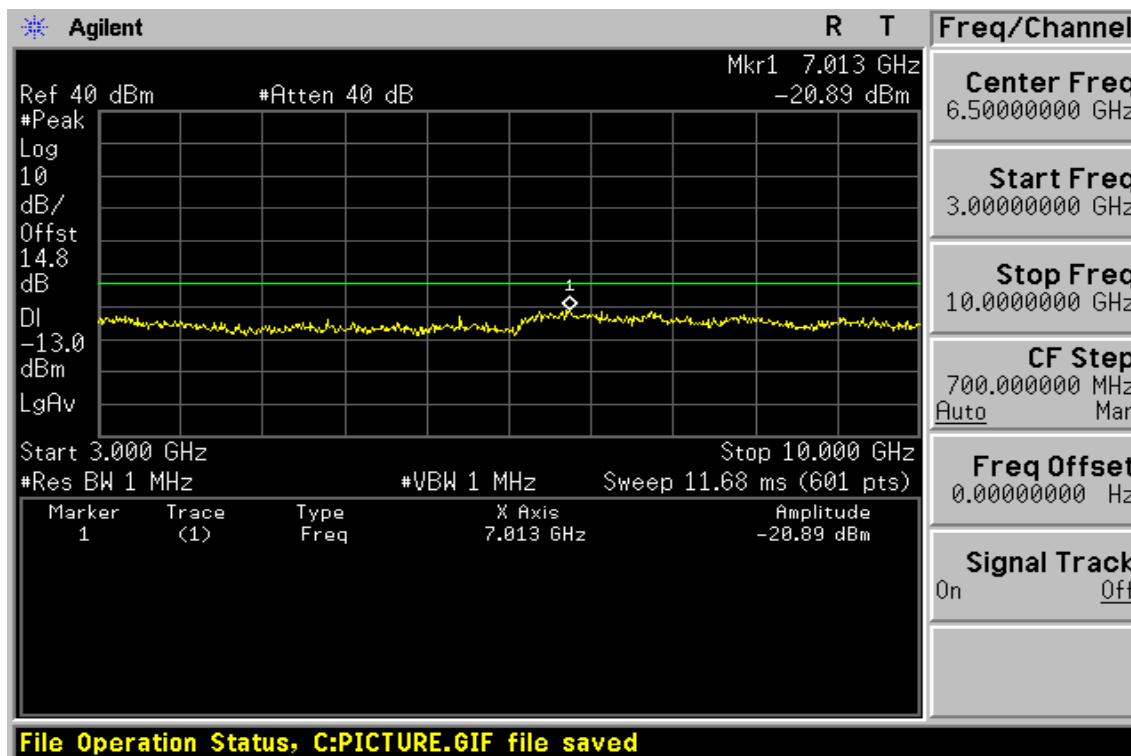
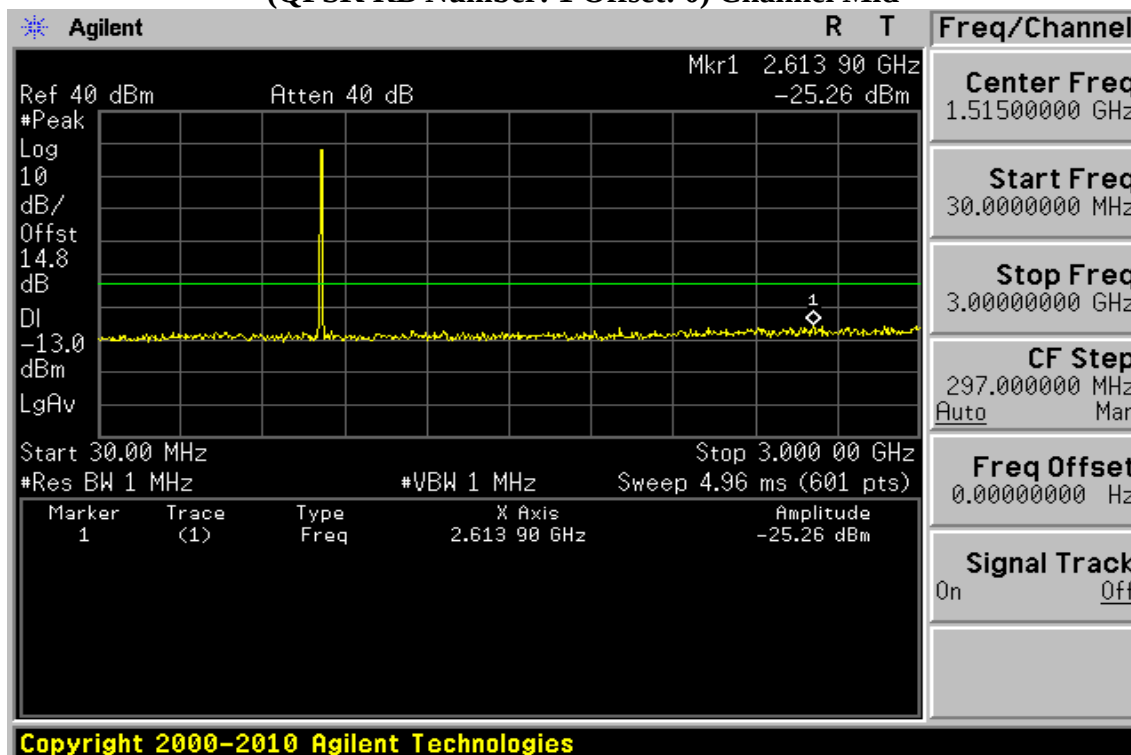
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Out of Band emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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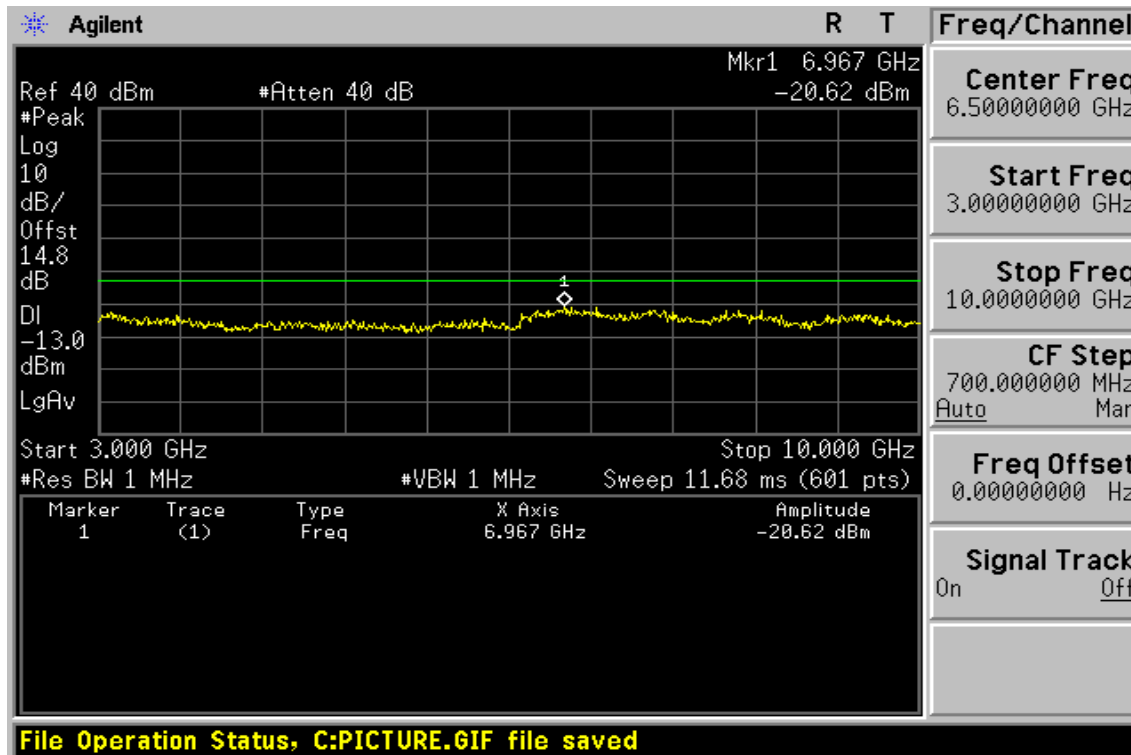
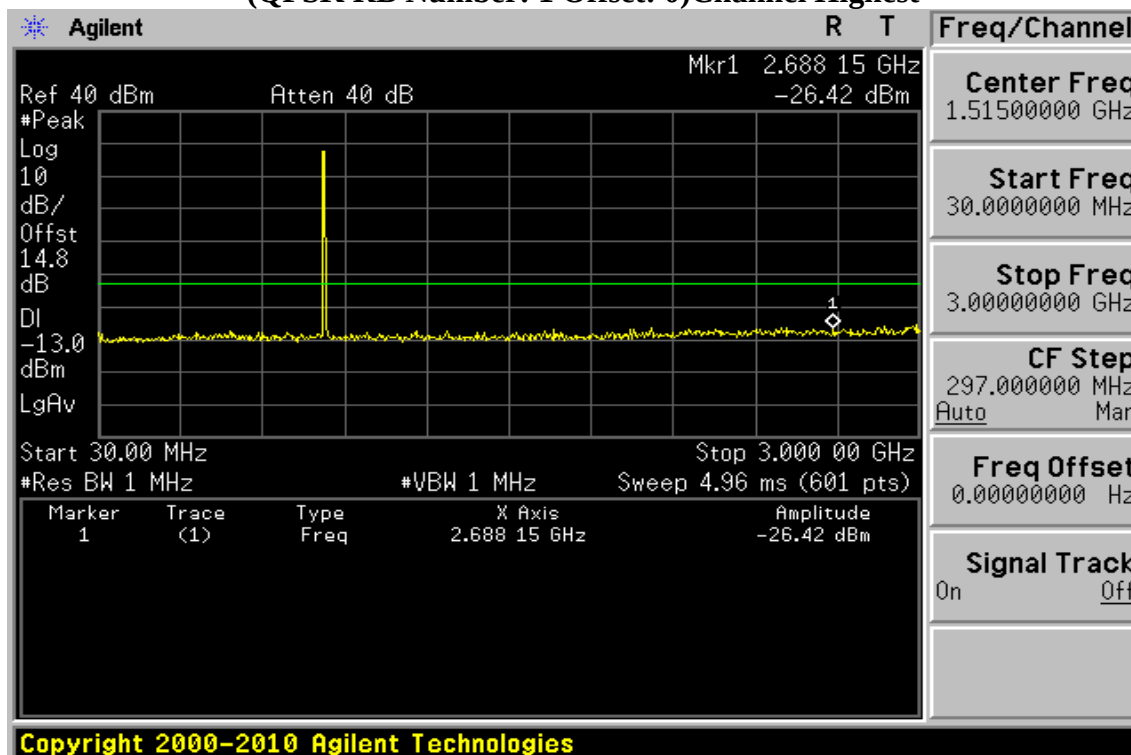
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0)Channel Highest



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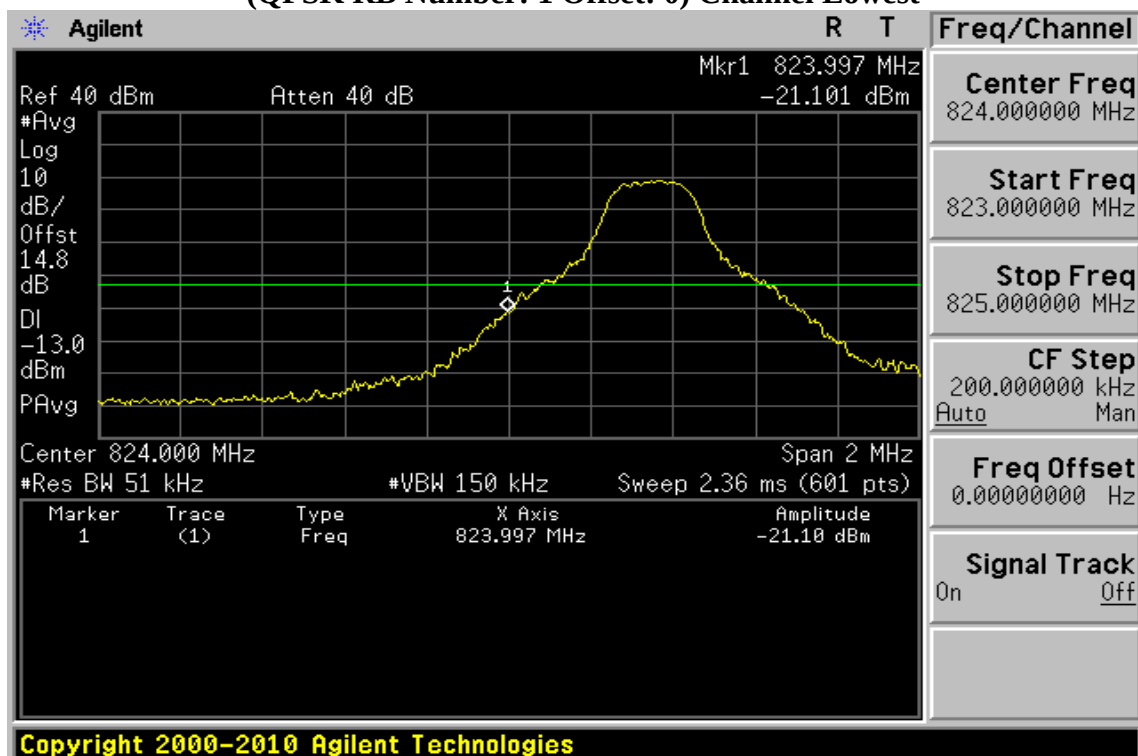
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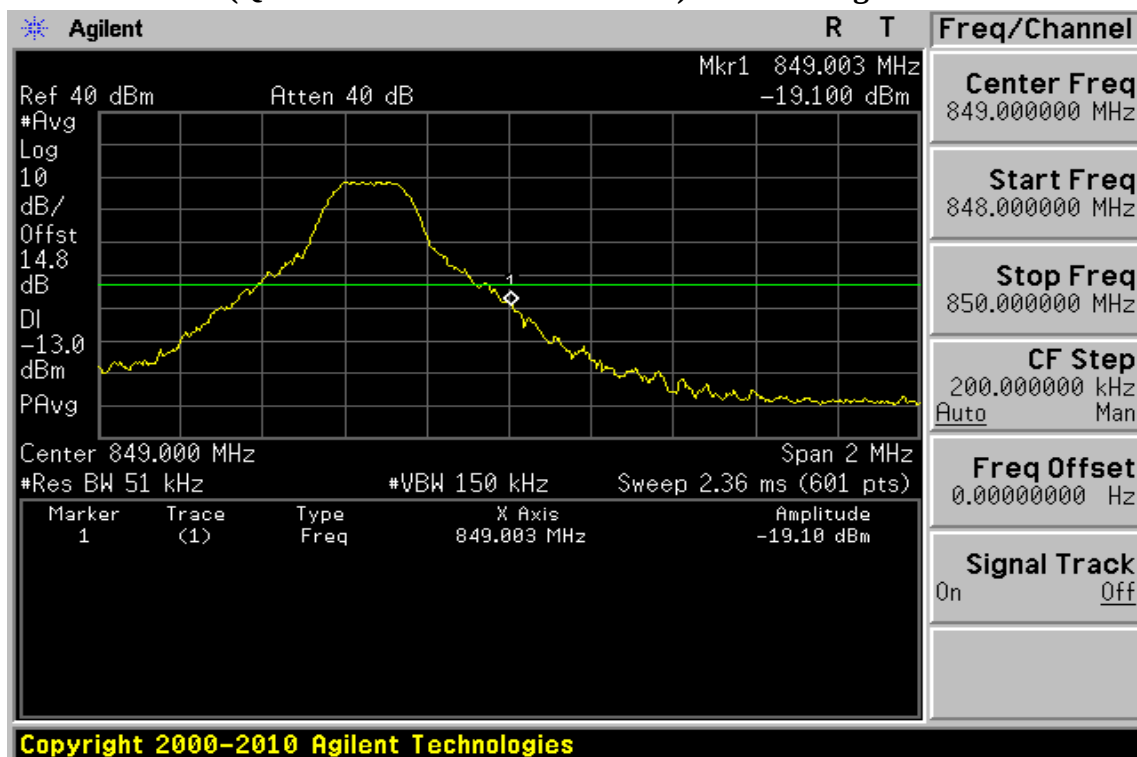
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Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Highest



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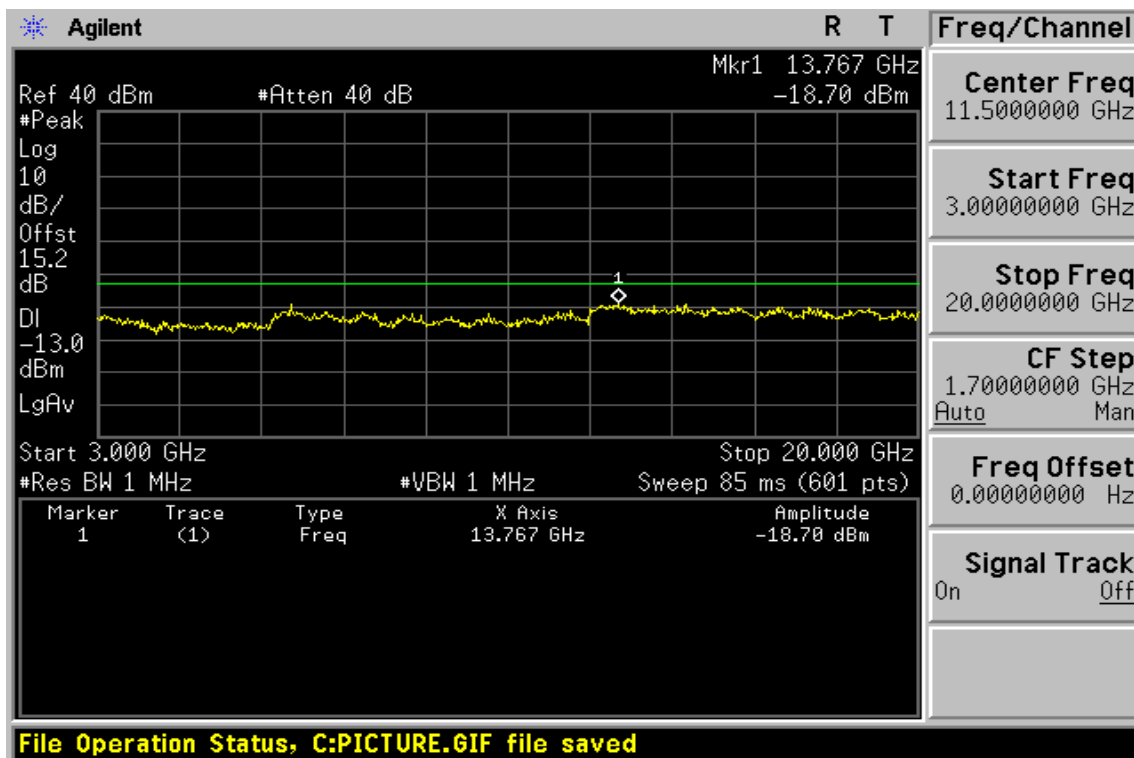
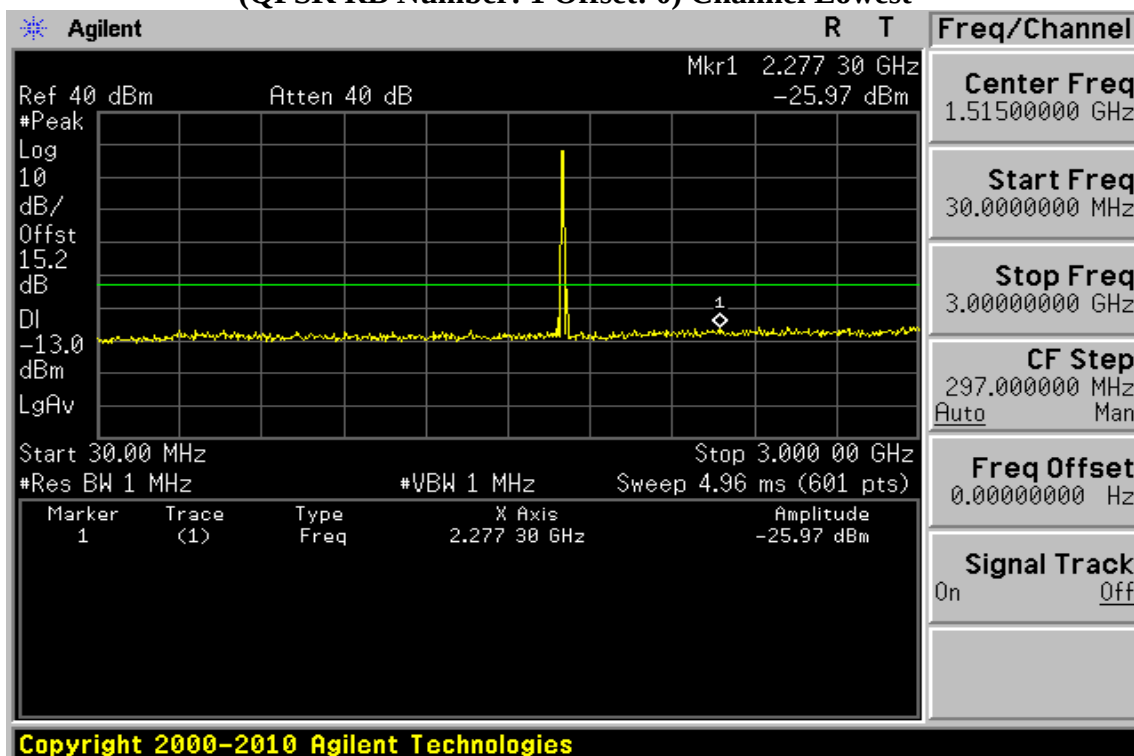
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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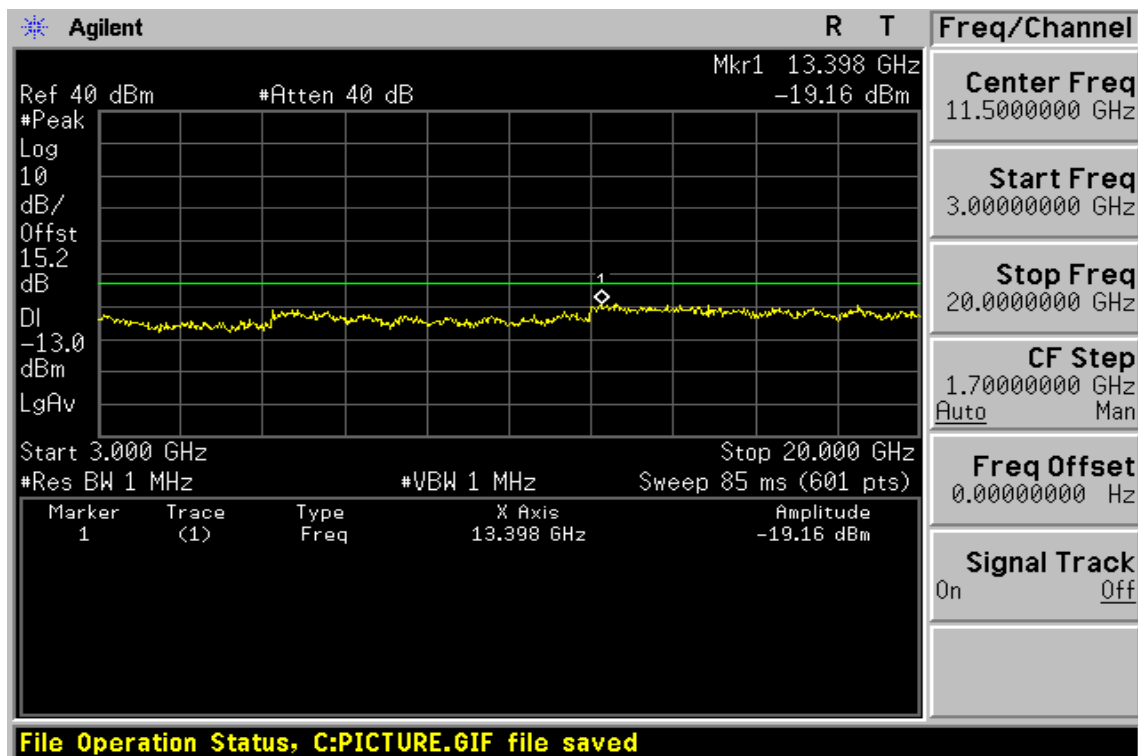
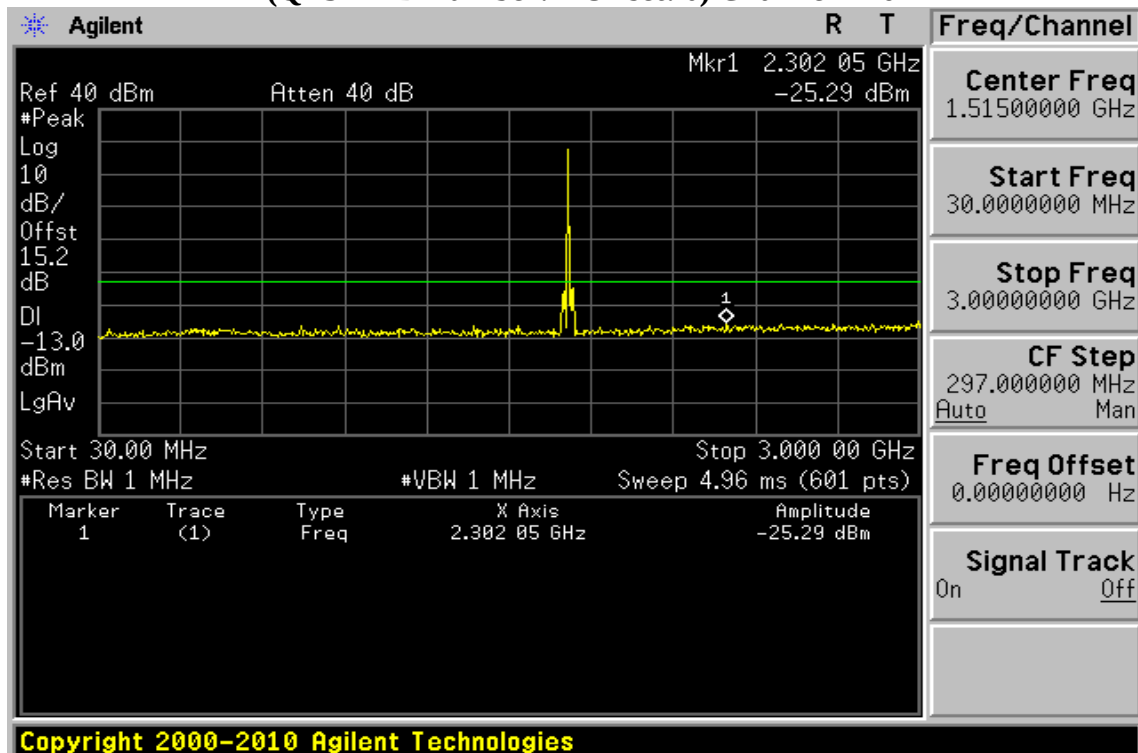
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Out of Band emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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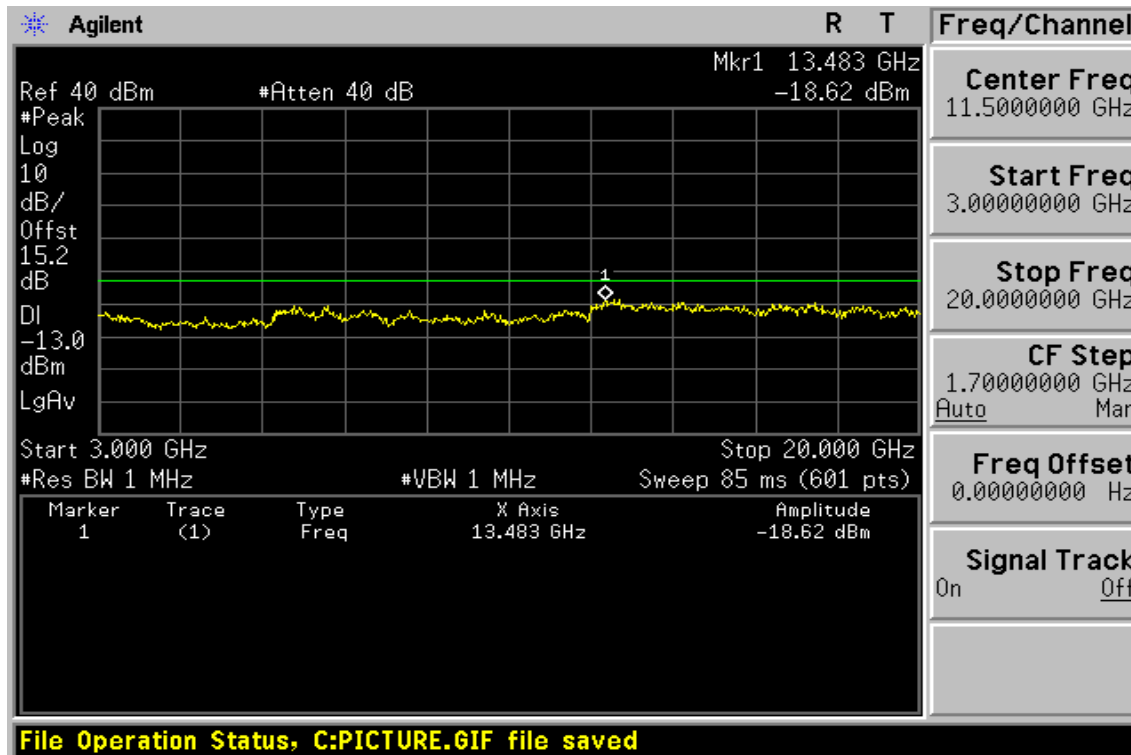
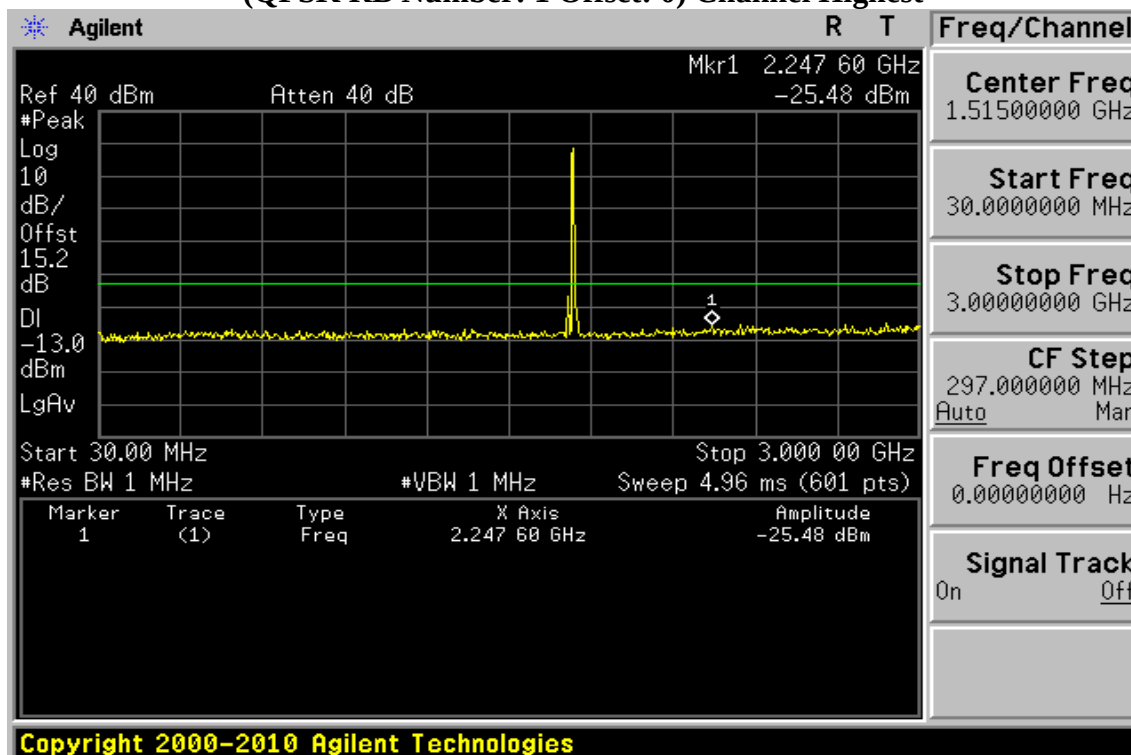
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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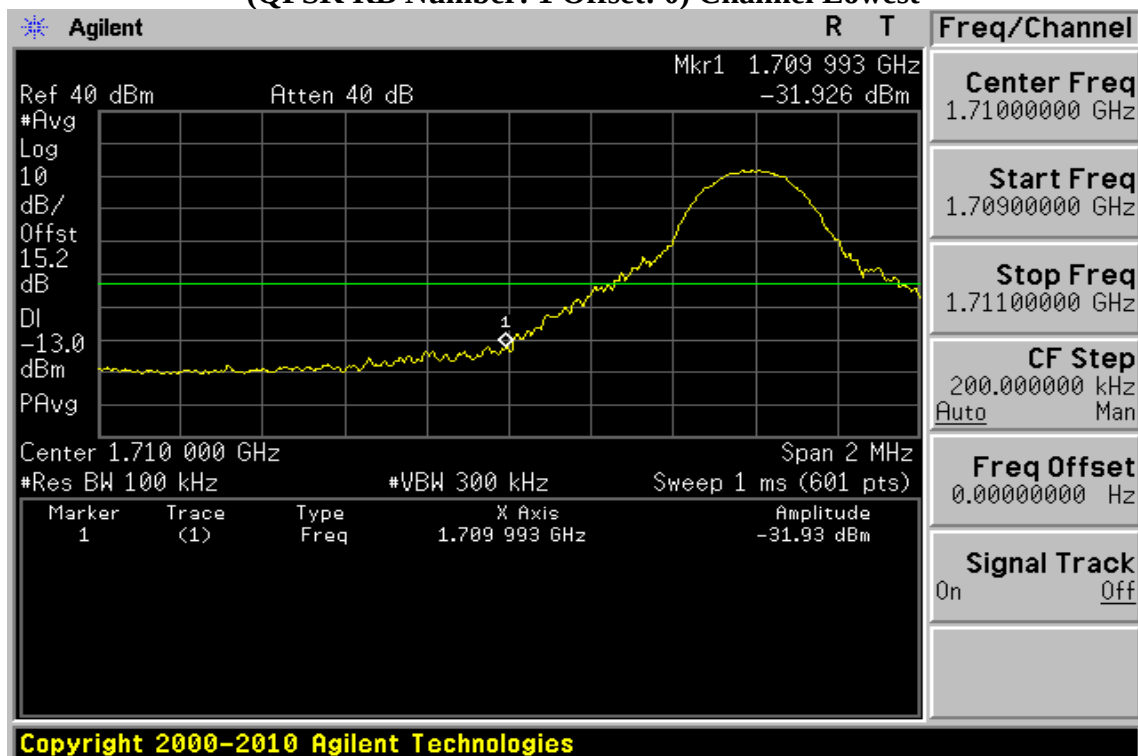
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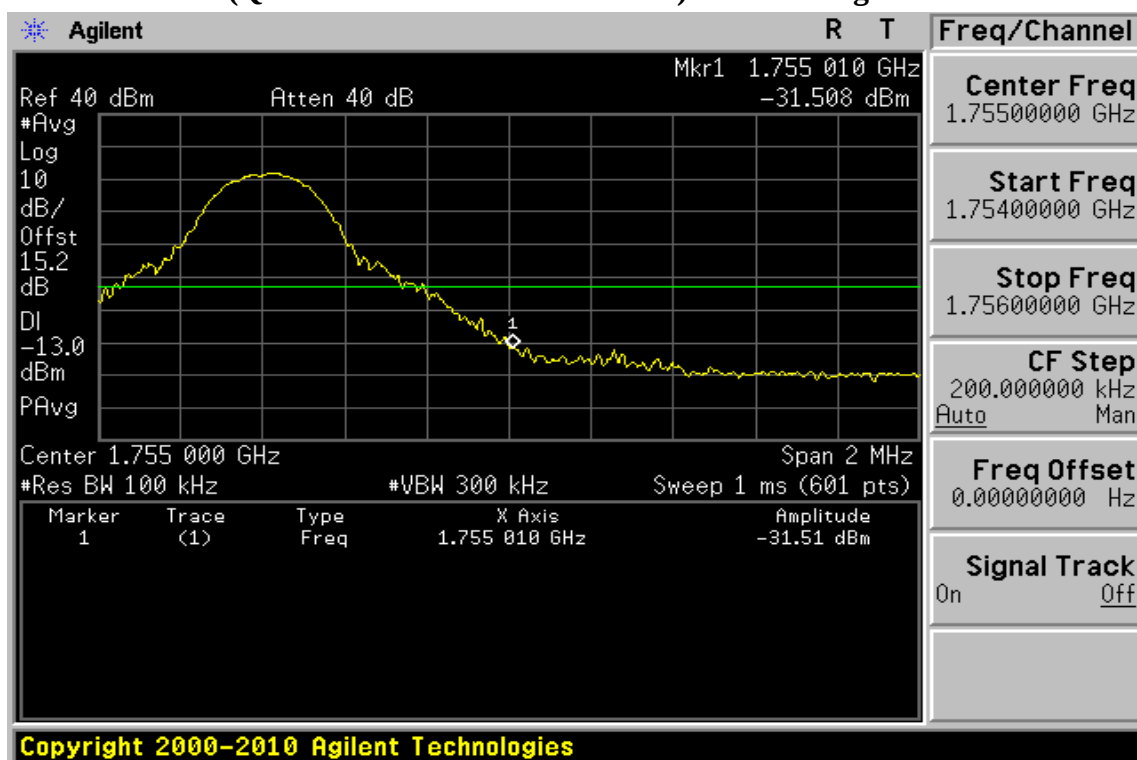
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Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Highest



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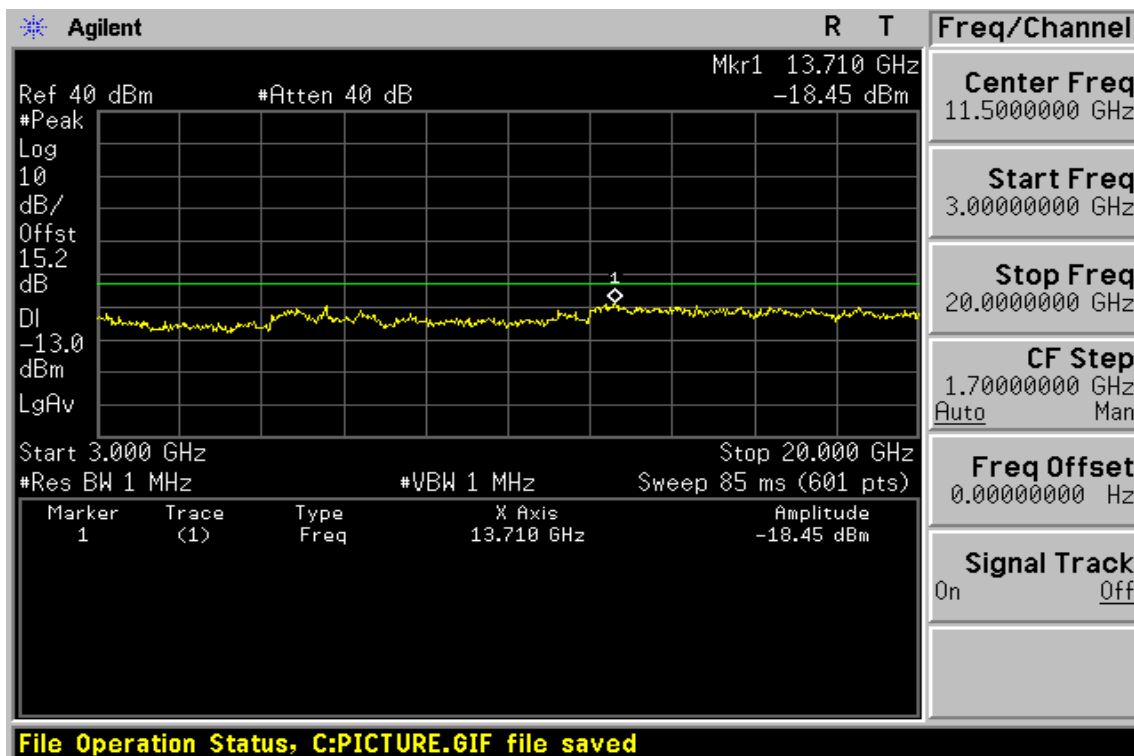
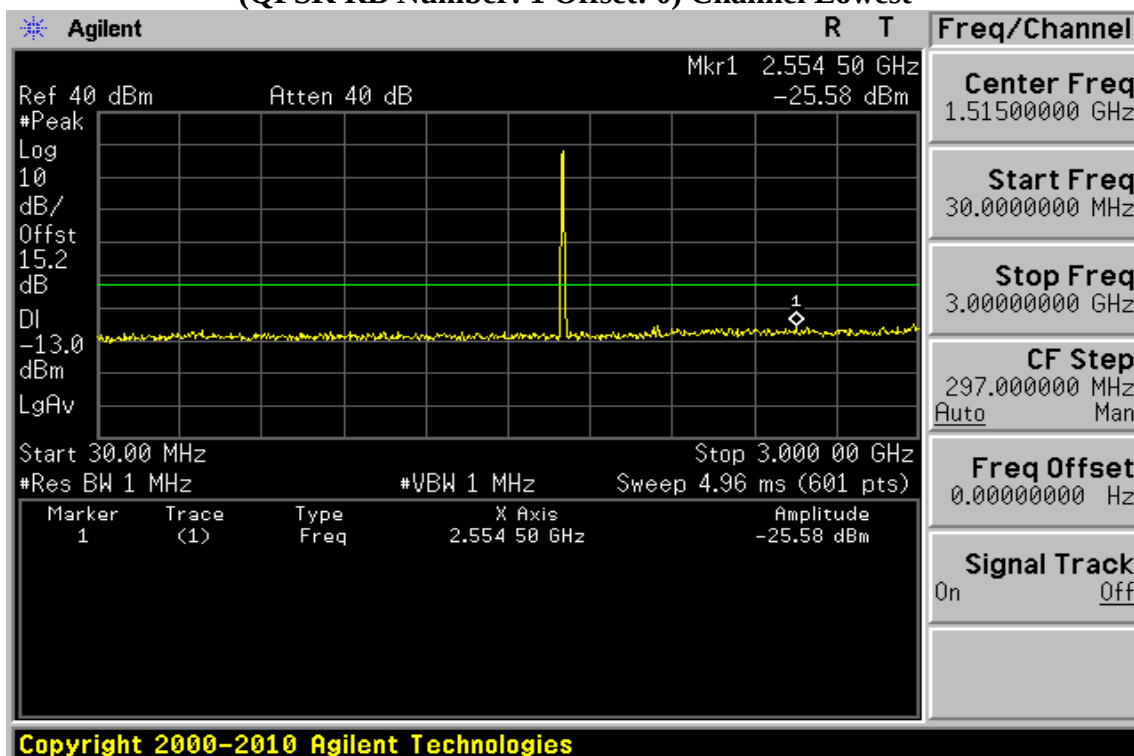
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Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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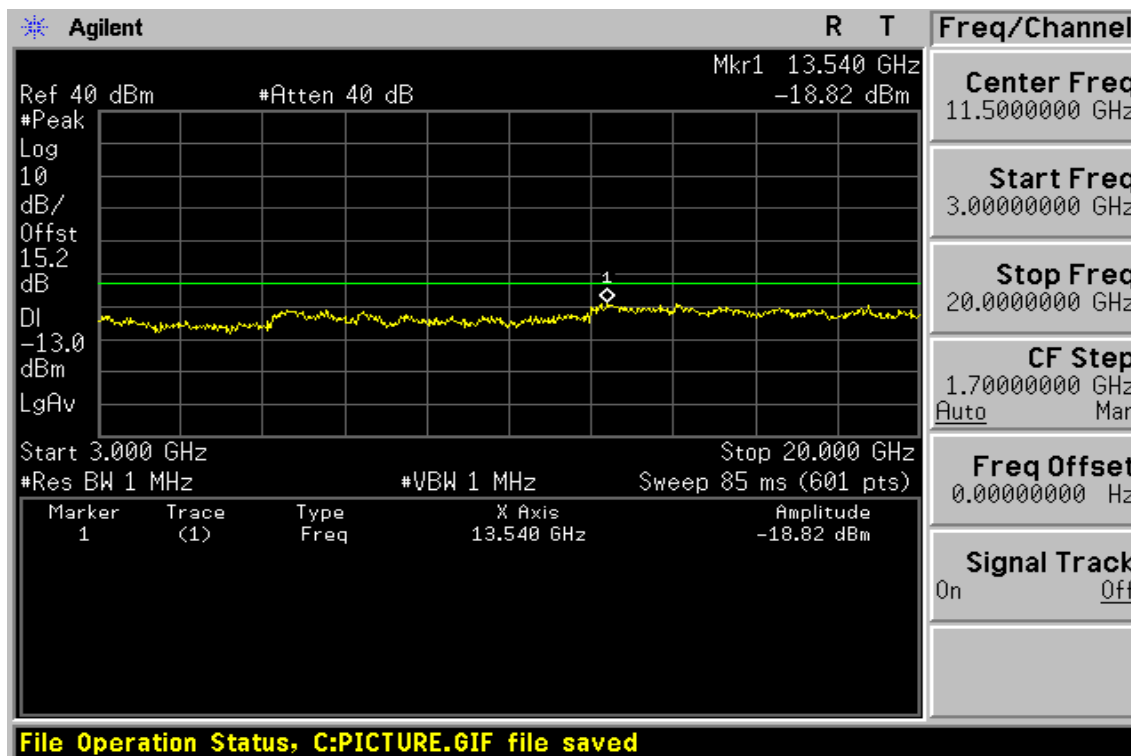
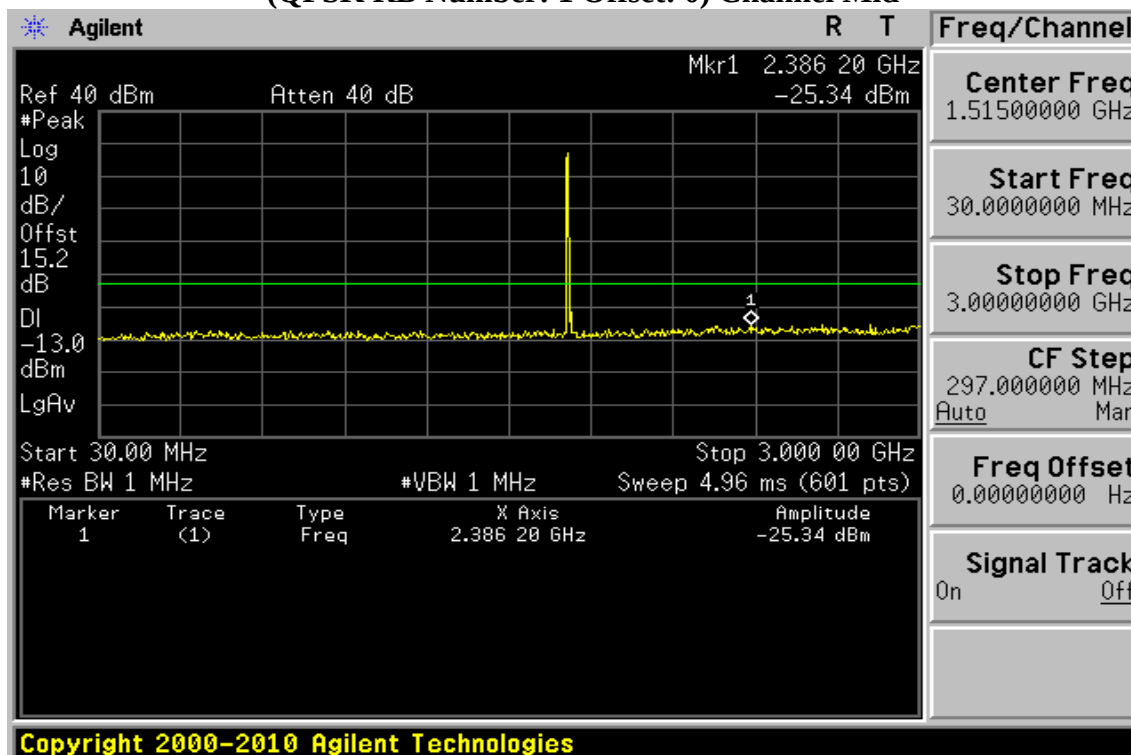
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Out of Band emission at antenna terminals –15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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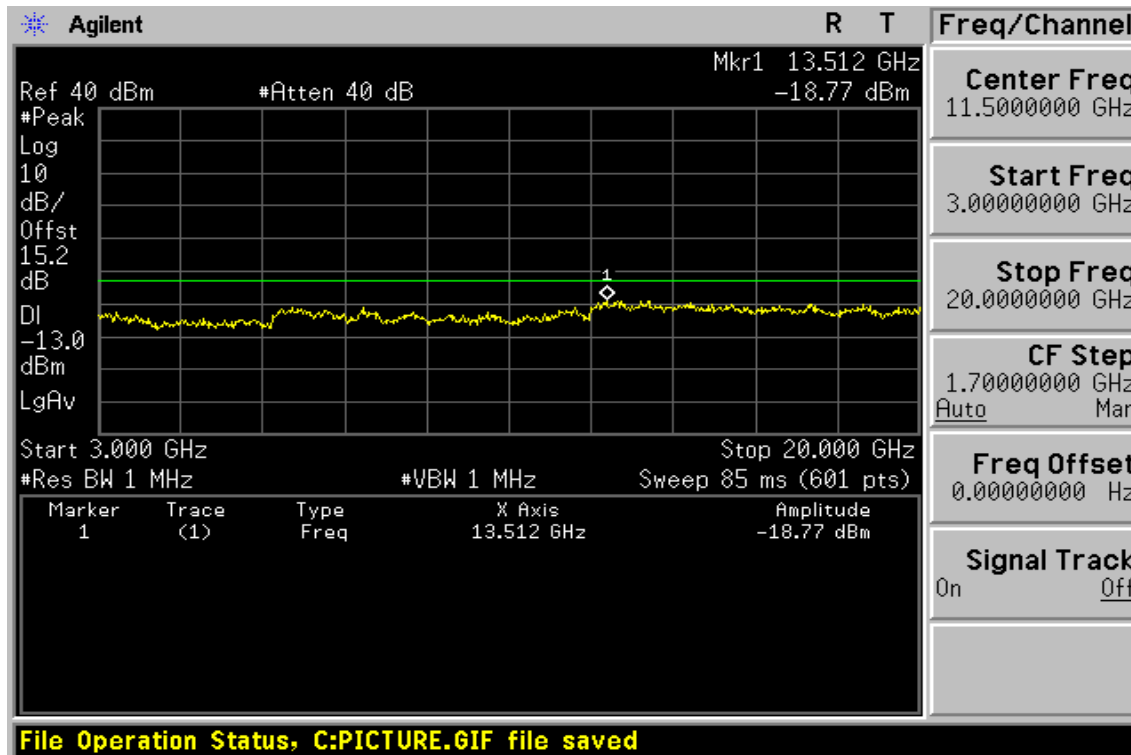
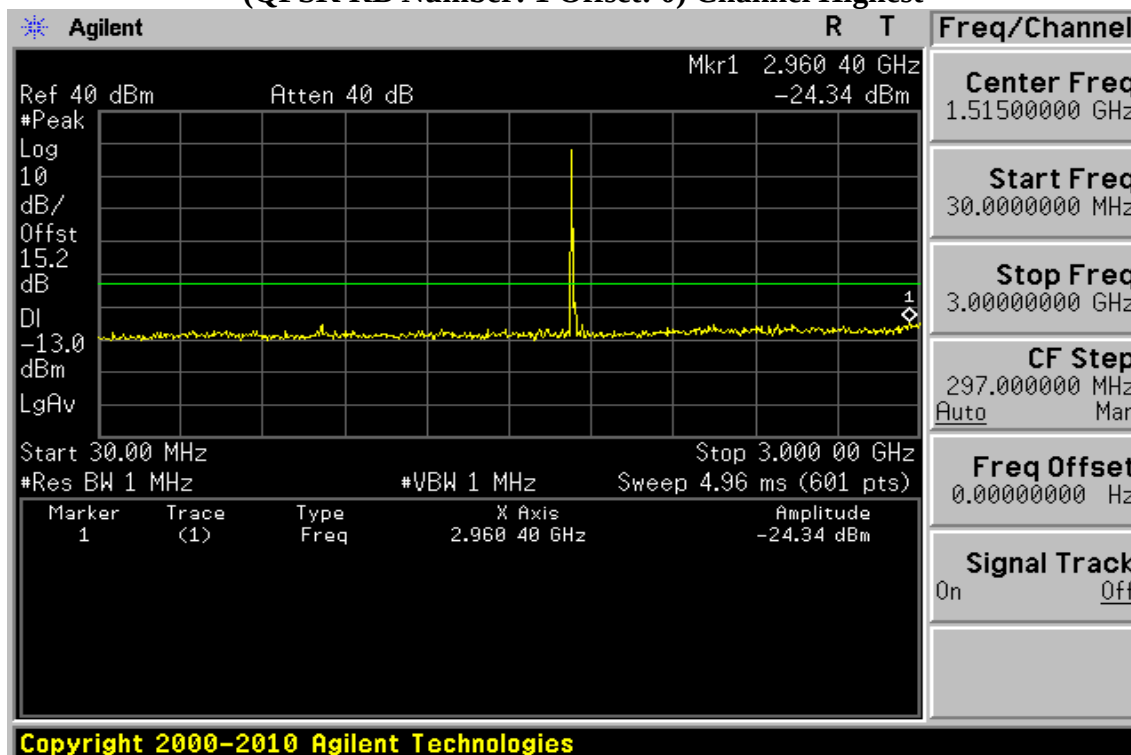
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Out of Band emission at antenna terminals–15MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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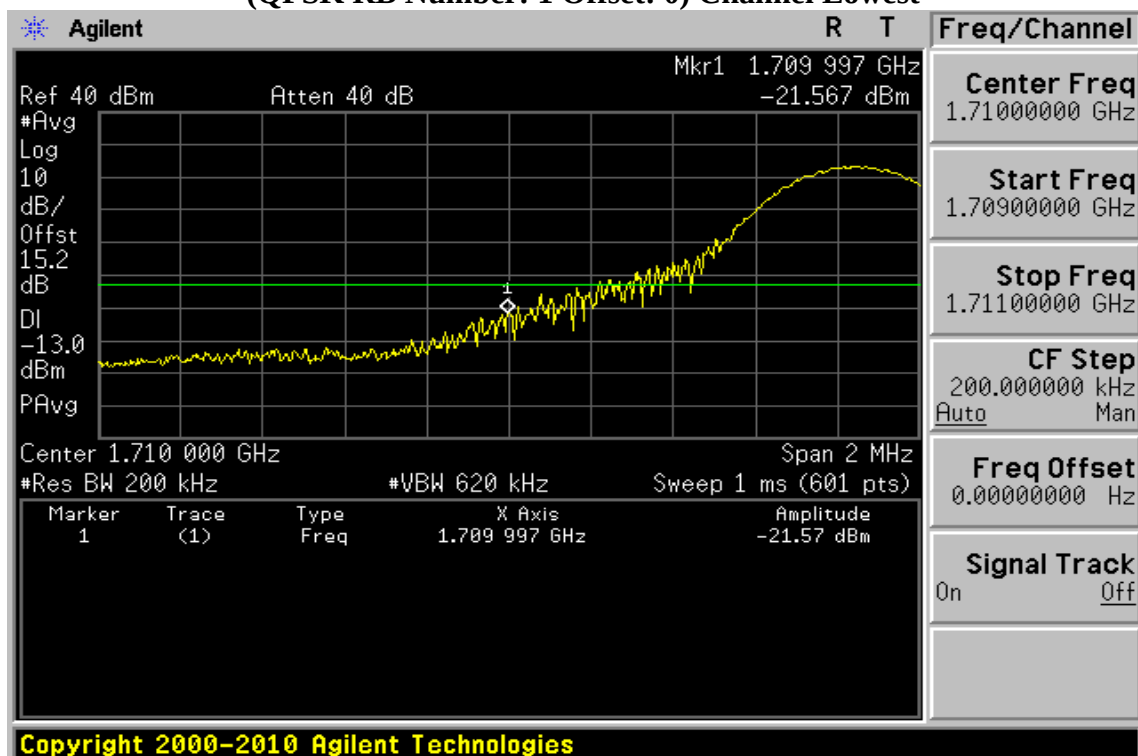
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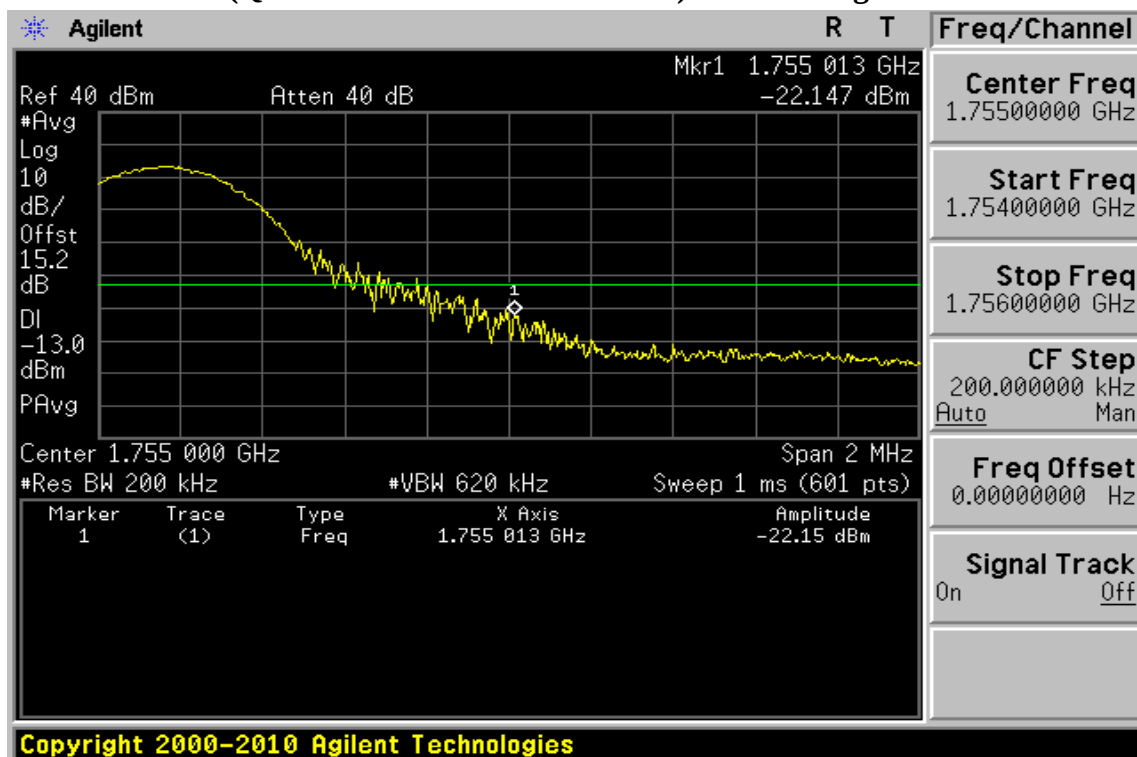
Band edge emission at antenna terminals –15MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –15MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 74) Channel Highest



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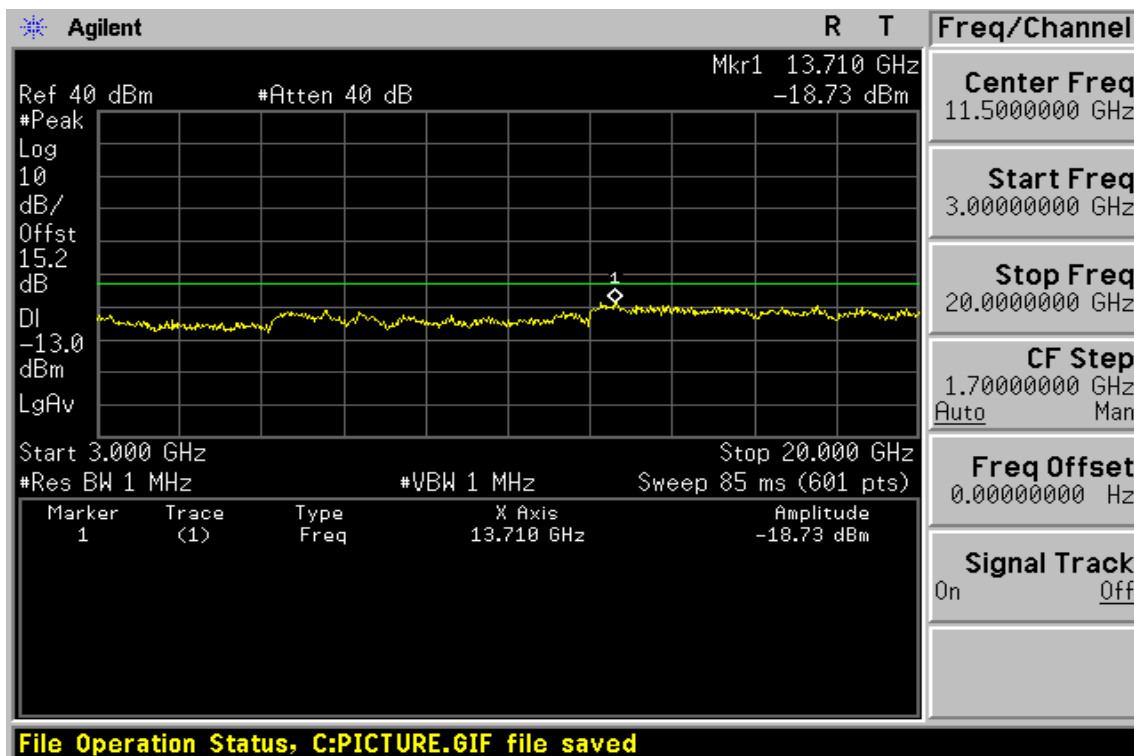
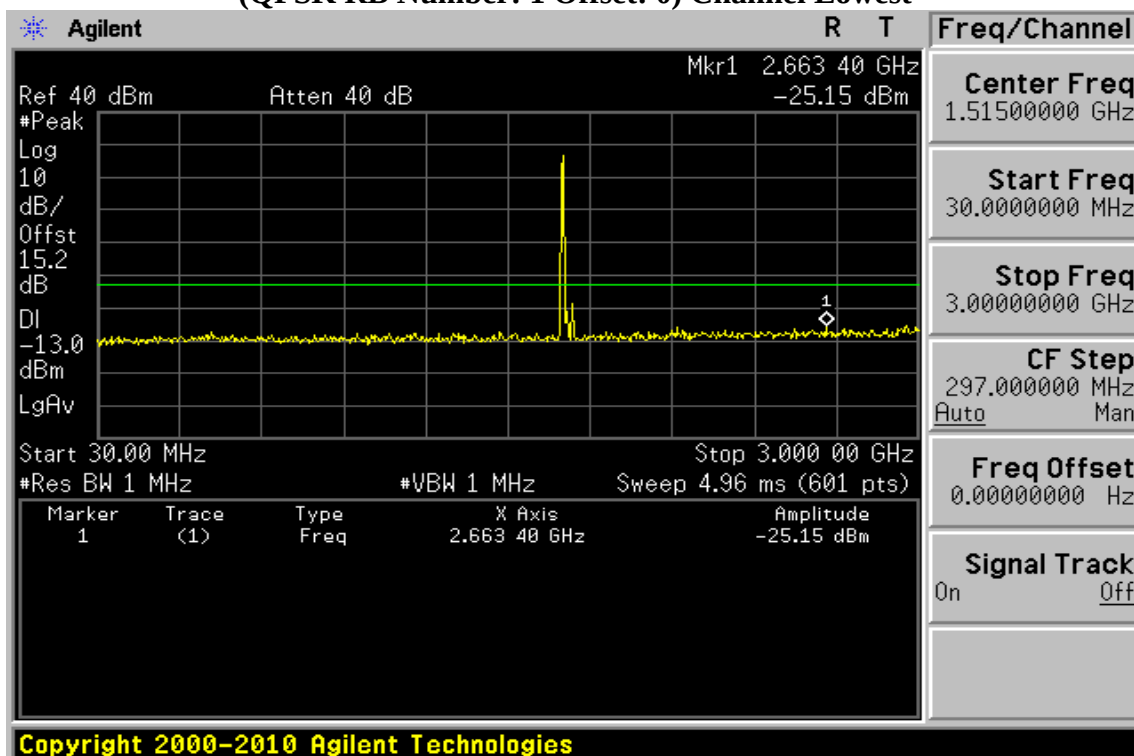
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Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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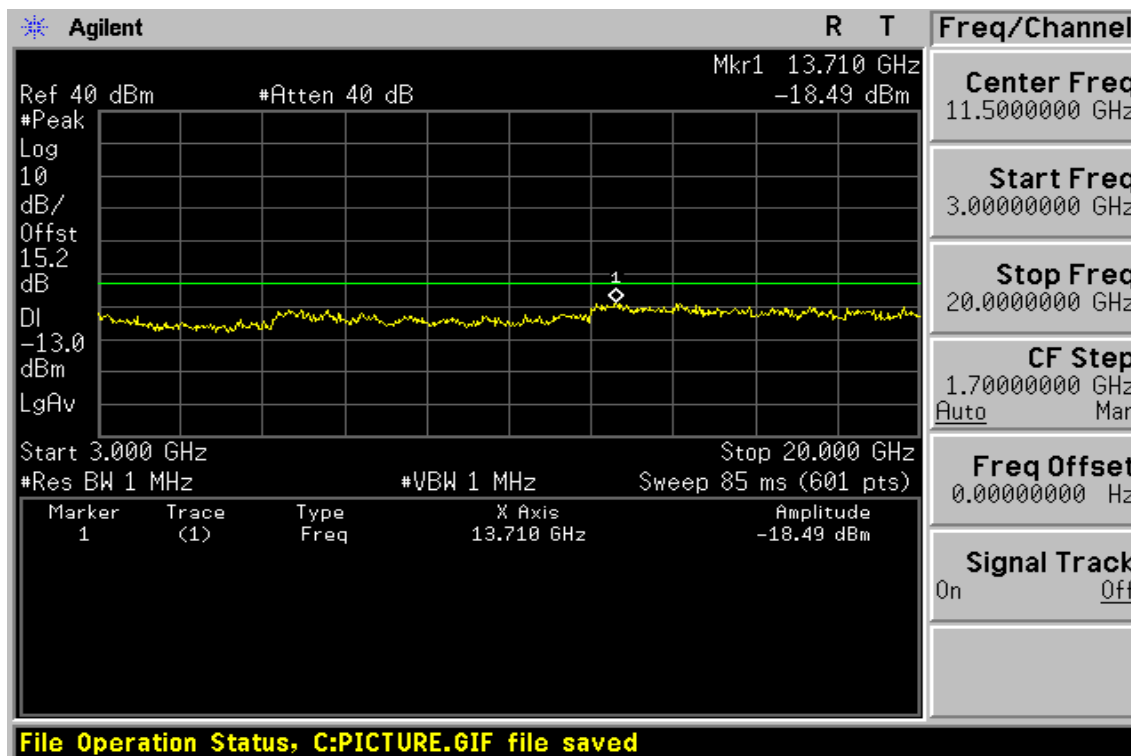
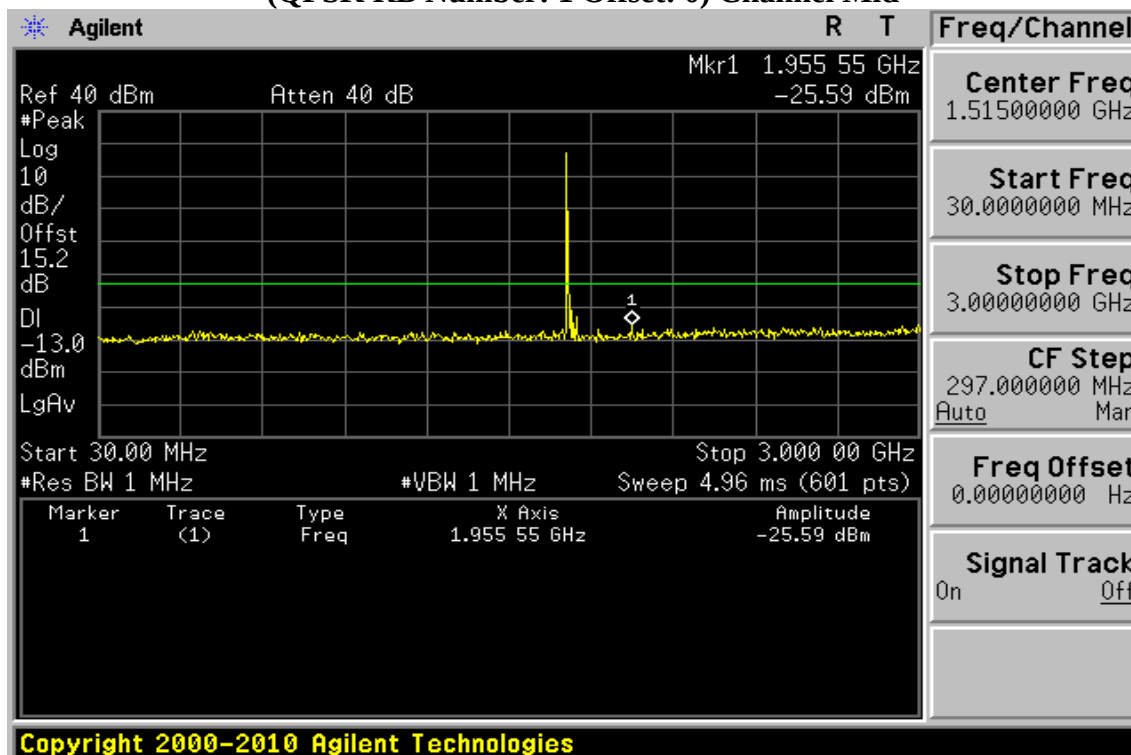
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Out of Band emission at antenna terminals –20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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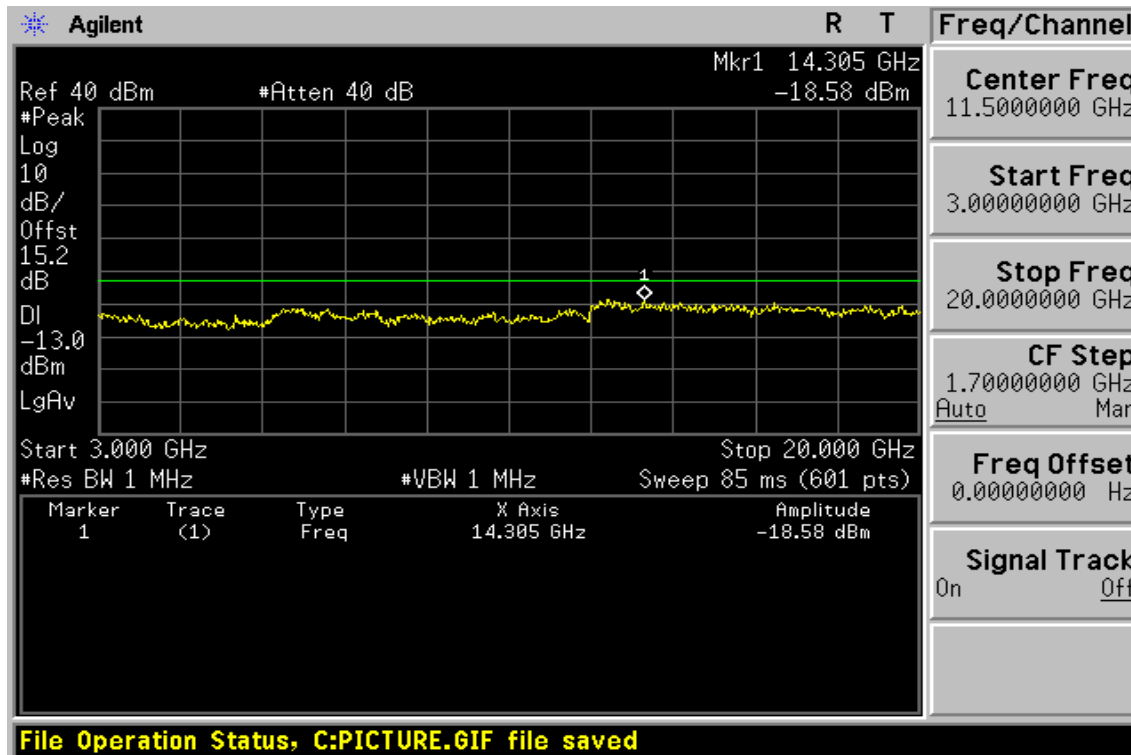
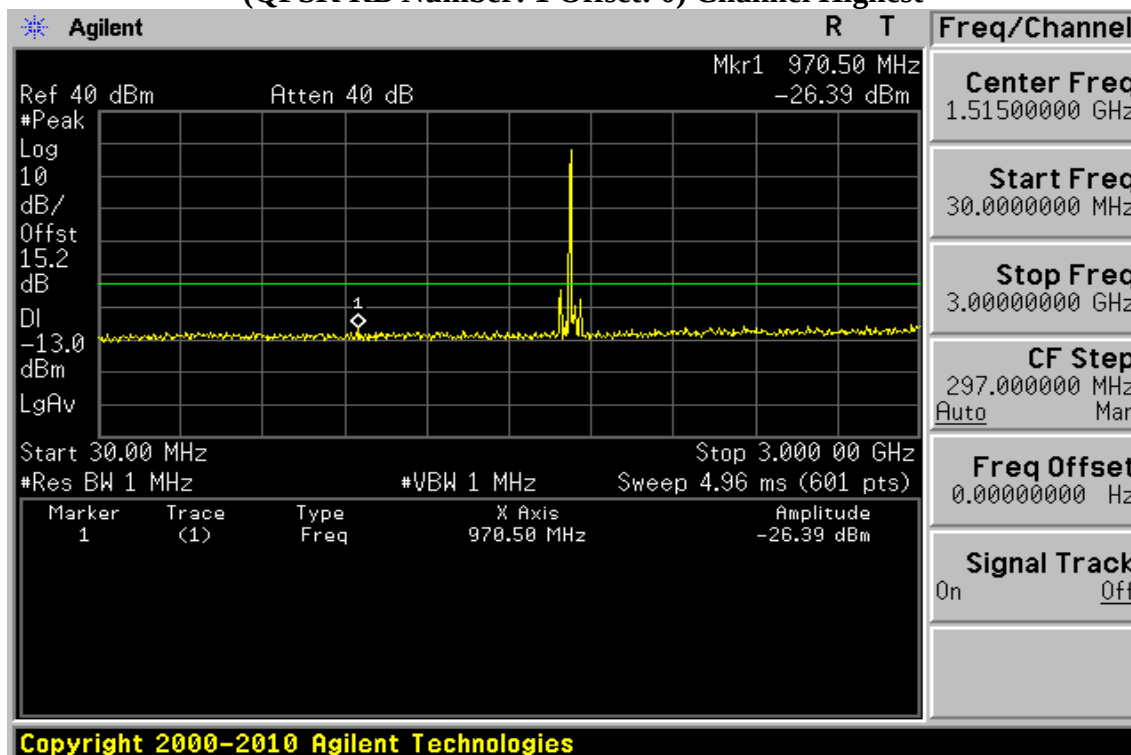
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Out of Band emission at antenna terminals–20MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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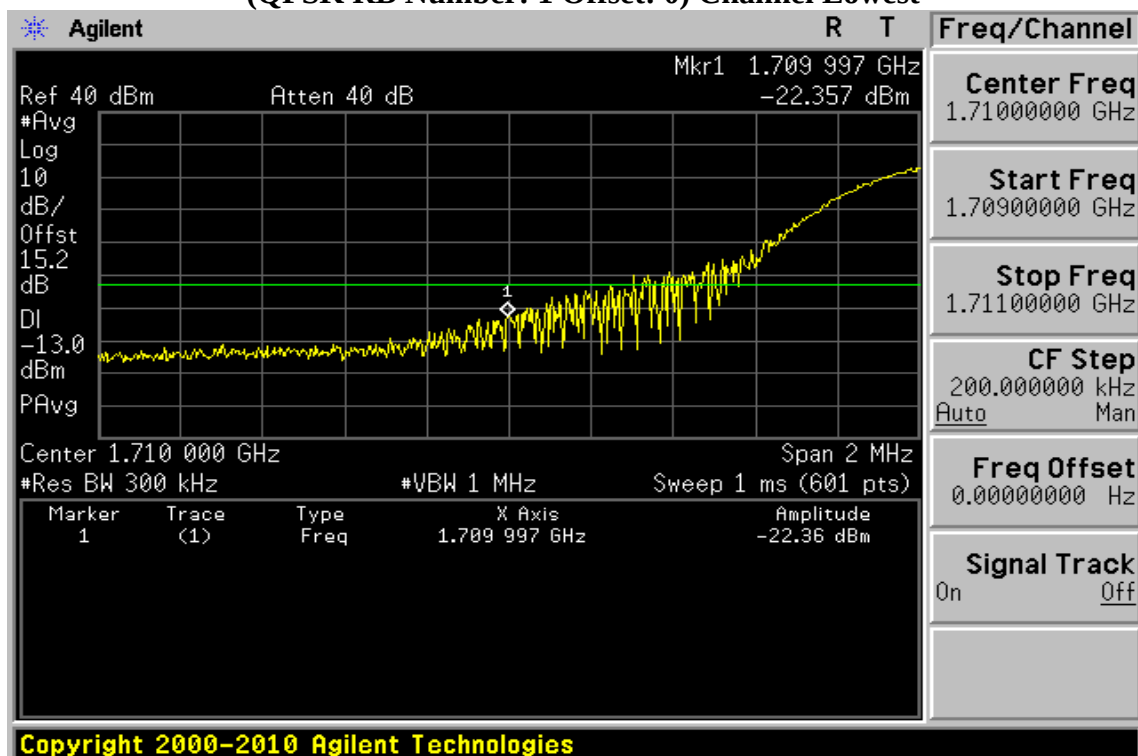
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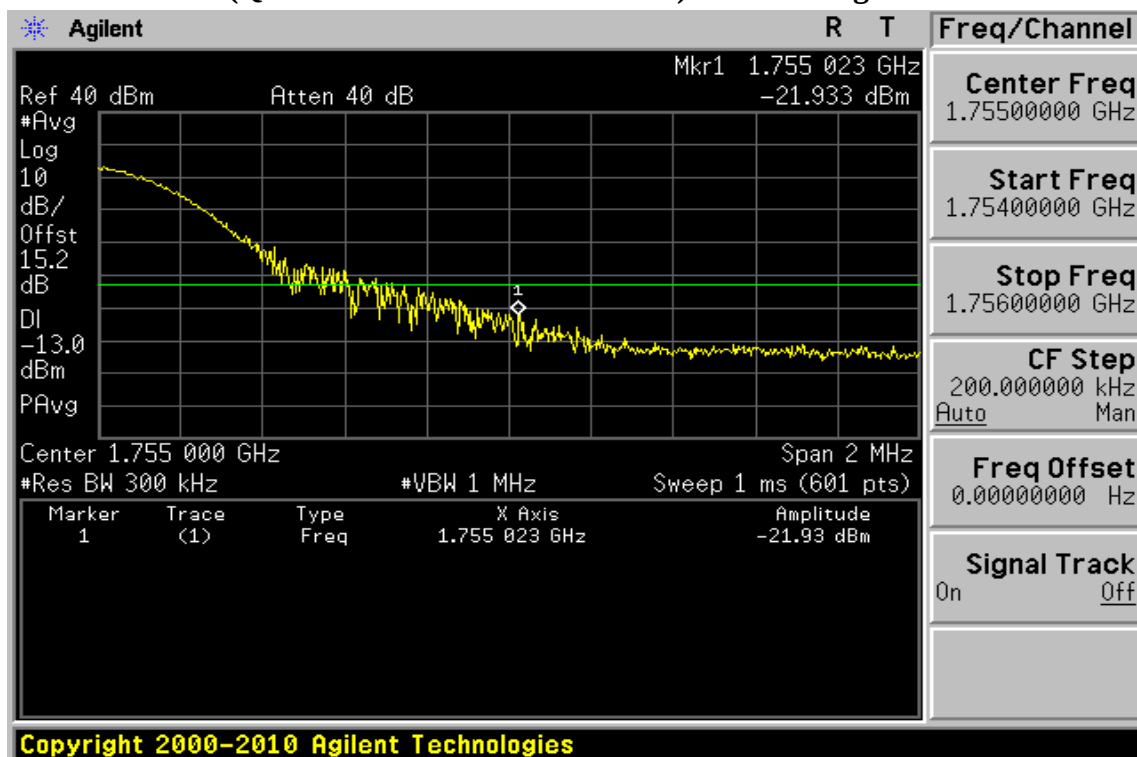
Band edge emission at antenna terminals –20MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 4

(QPSK RB Number: 1 Offset: 99) Channel Highest



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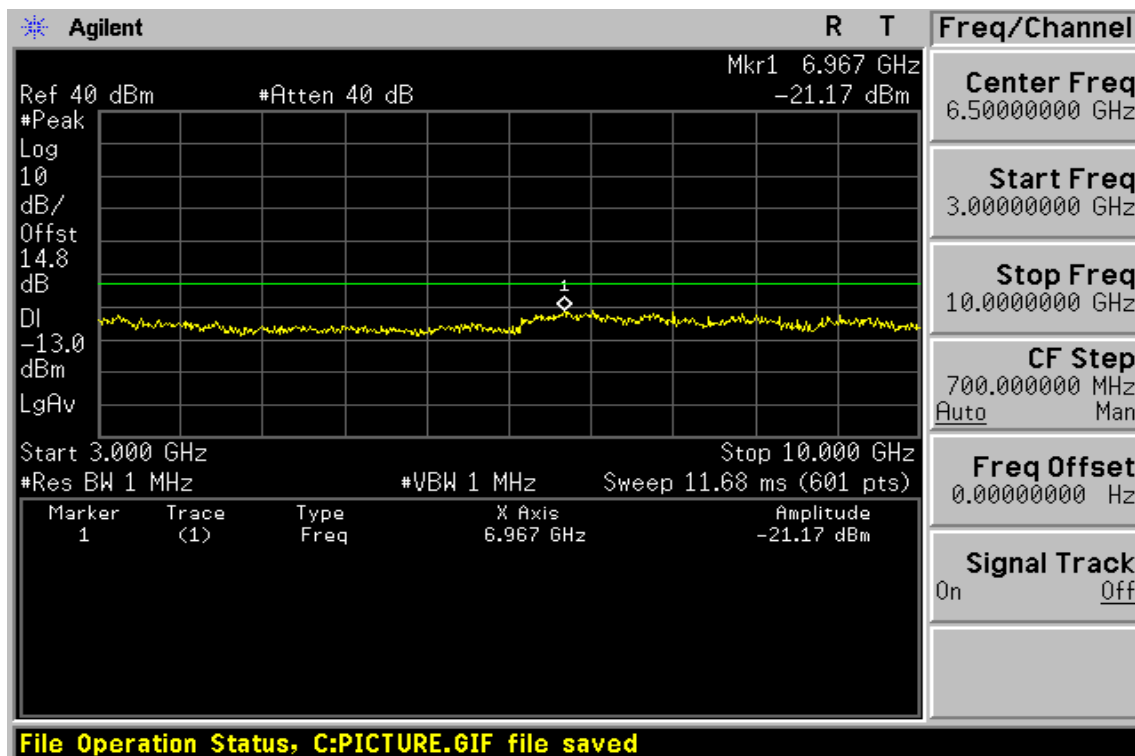
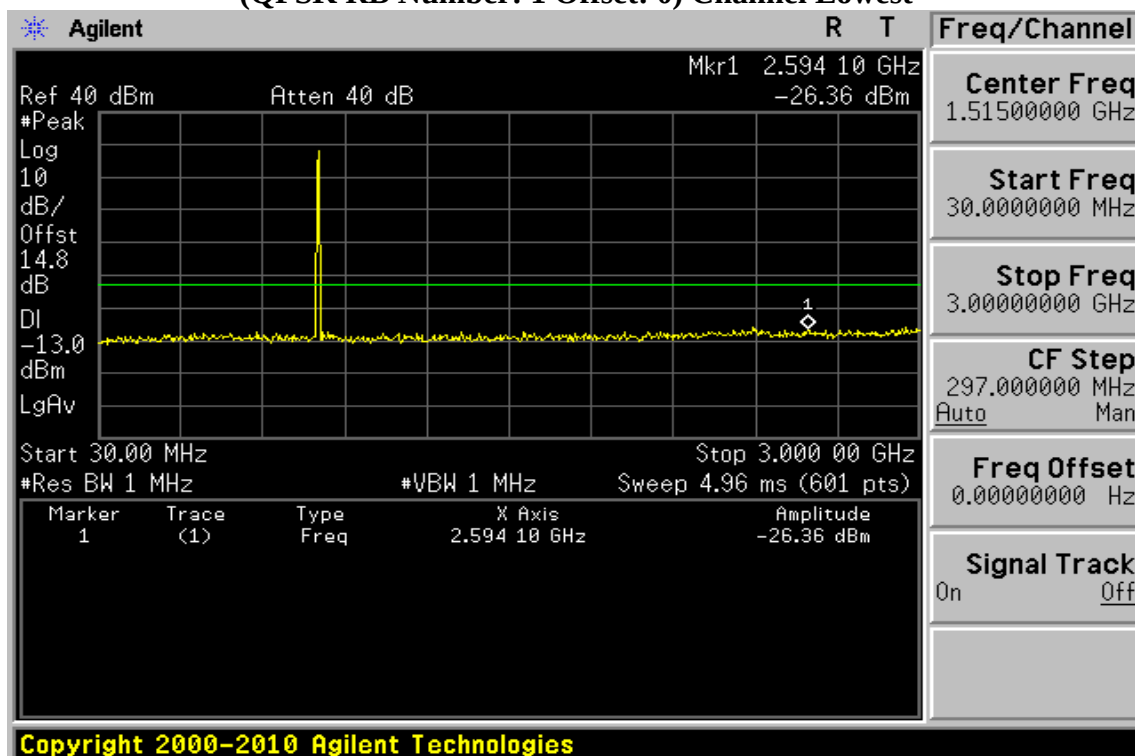
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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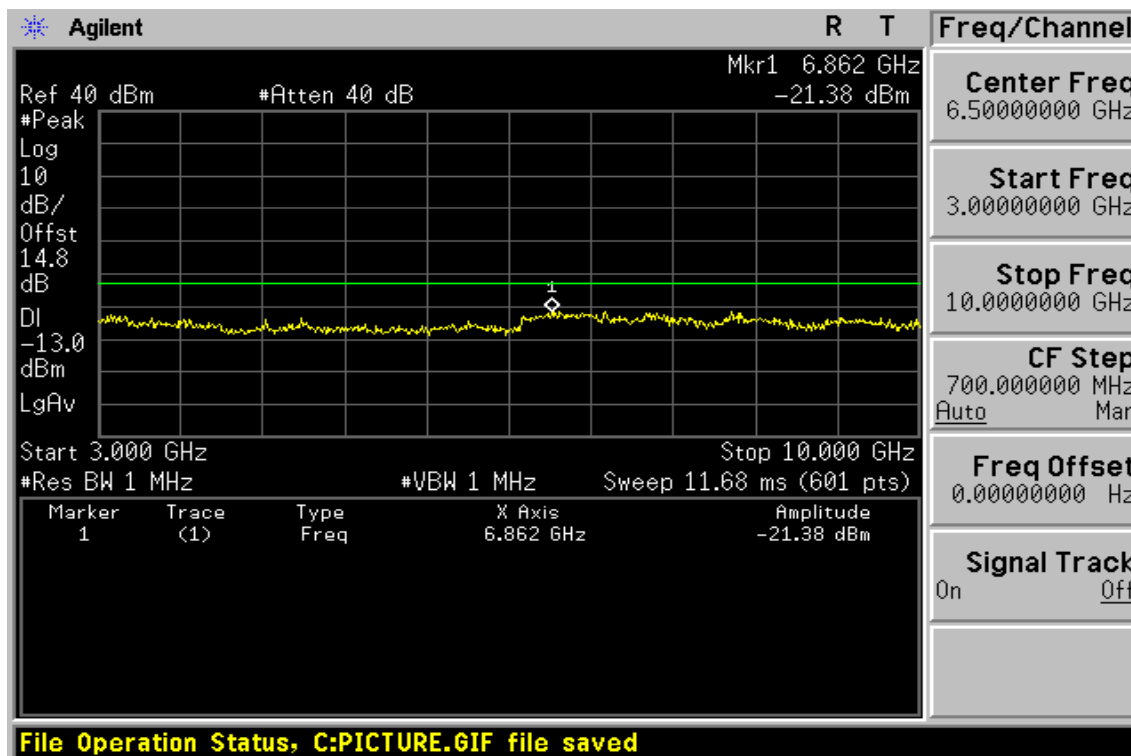
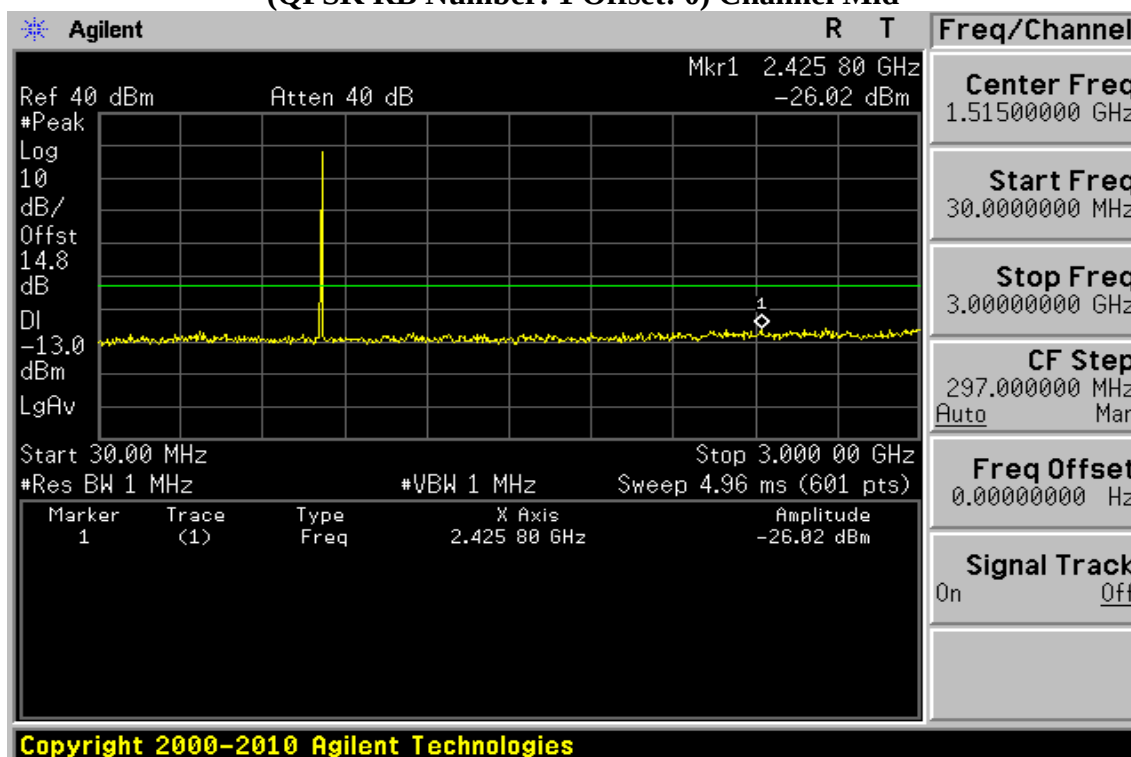
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Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid



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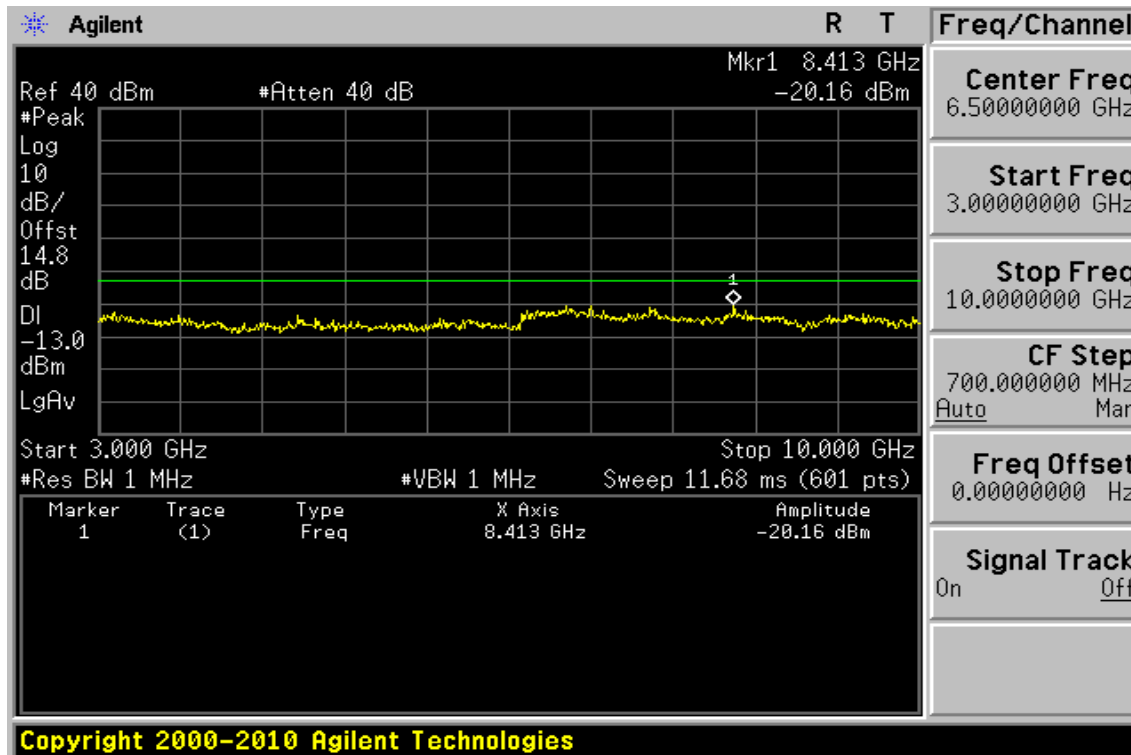
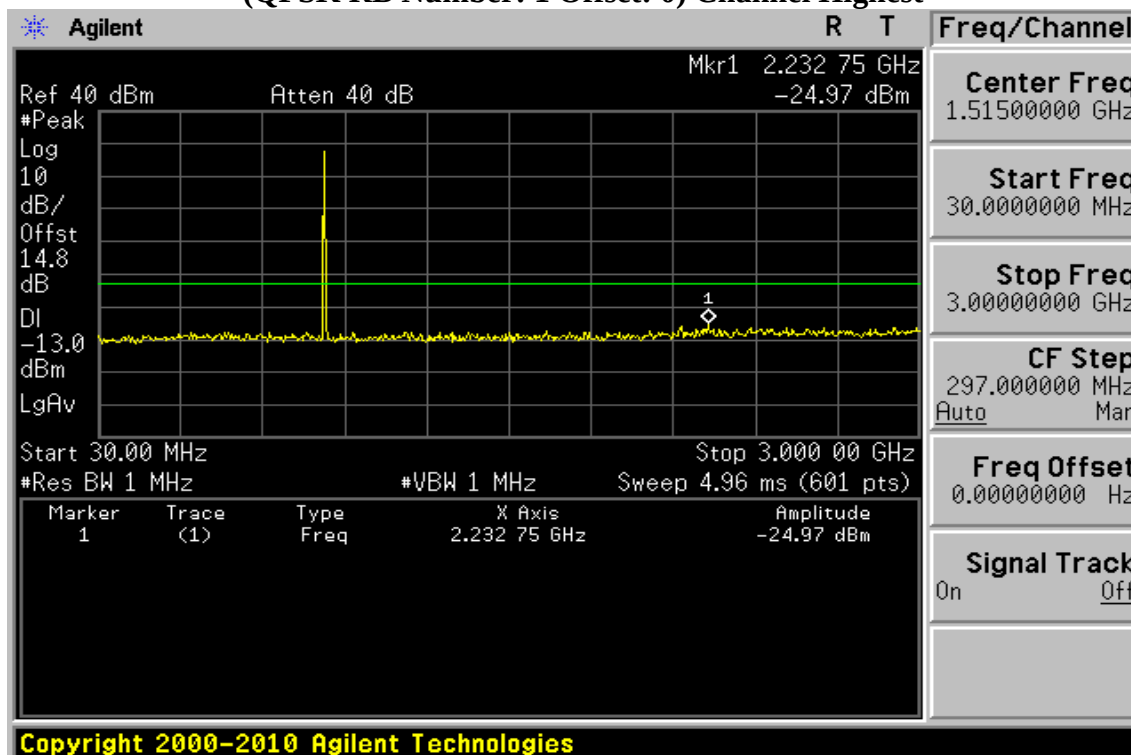
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



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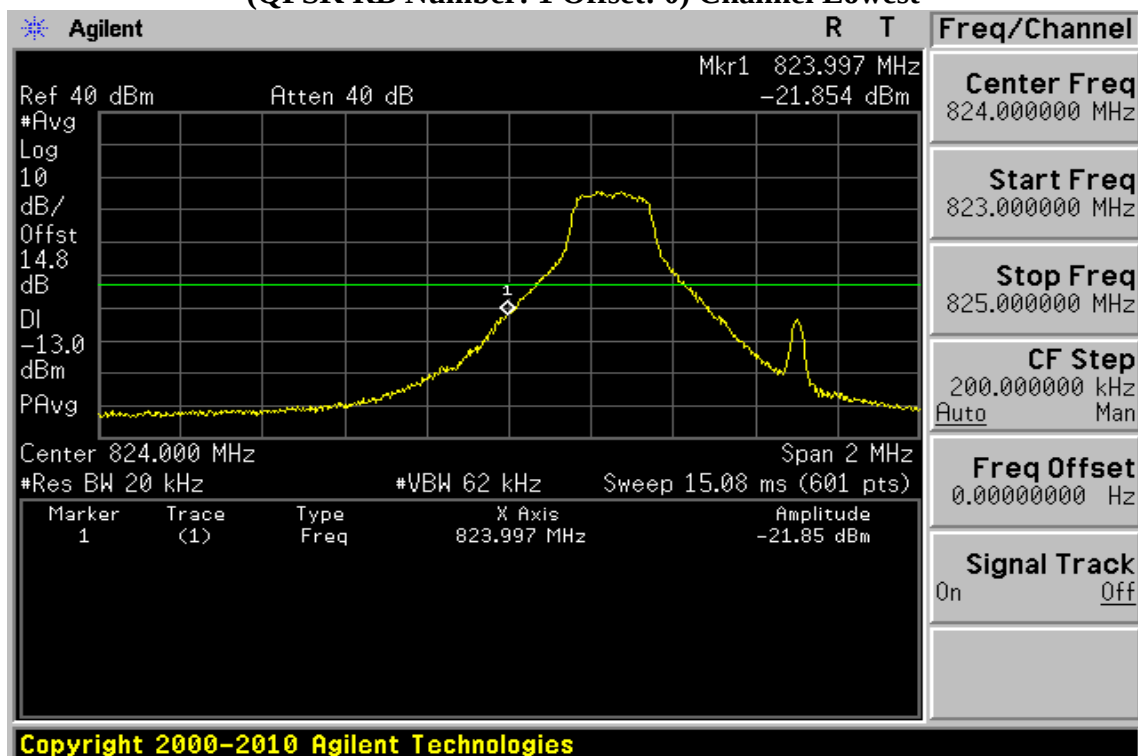
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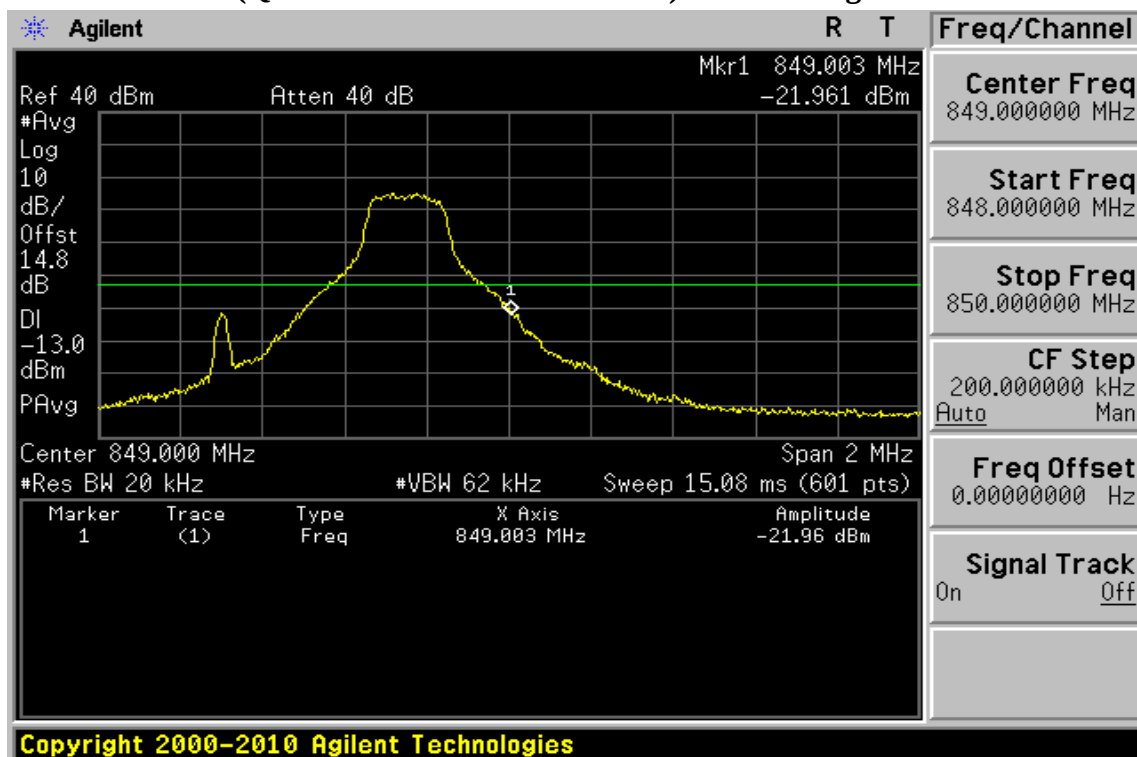
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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 5) Channel Highest



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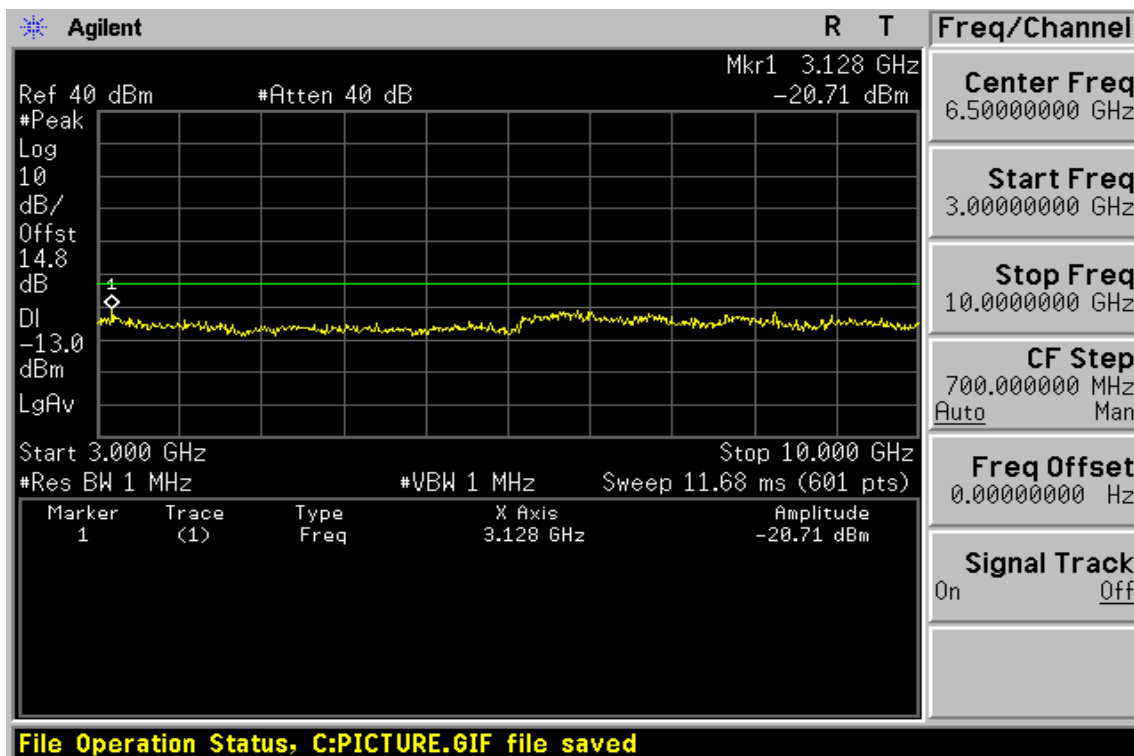
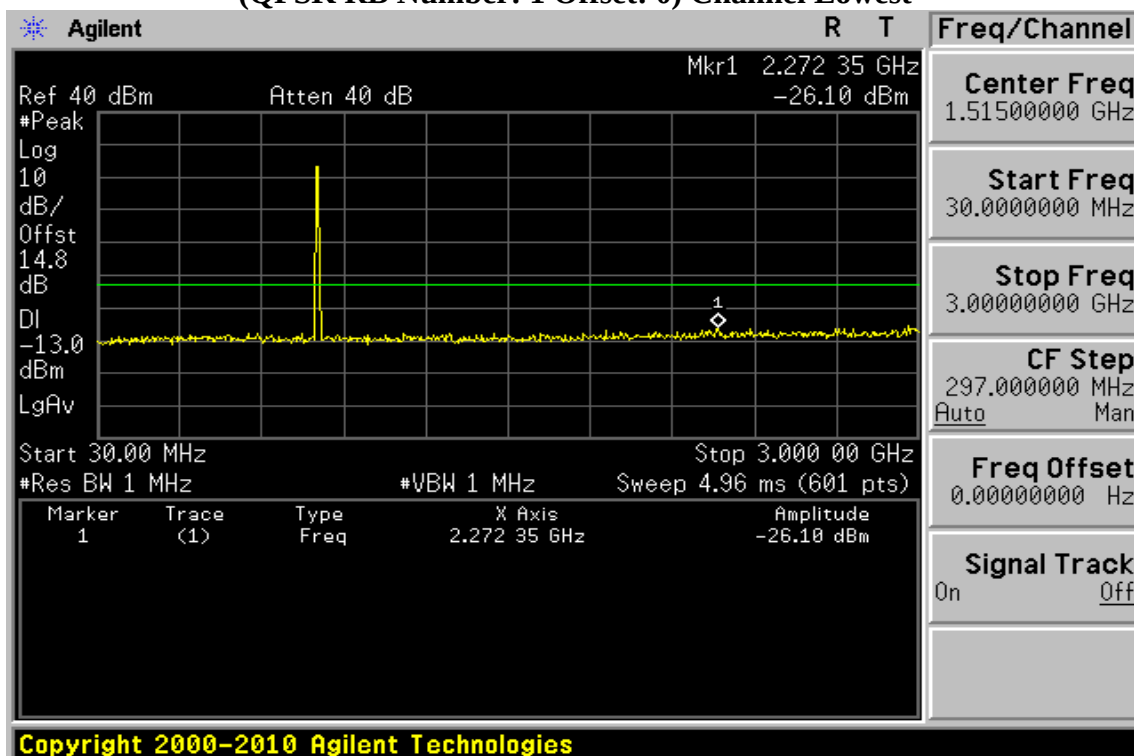
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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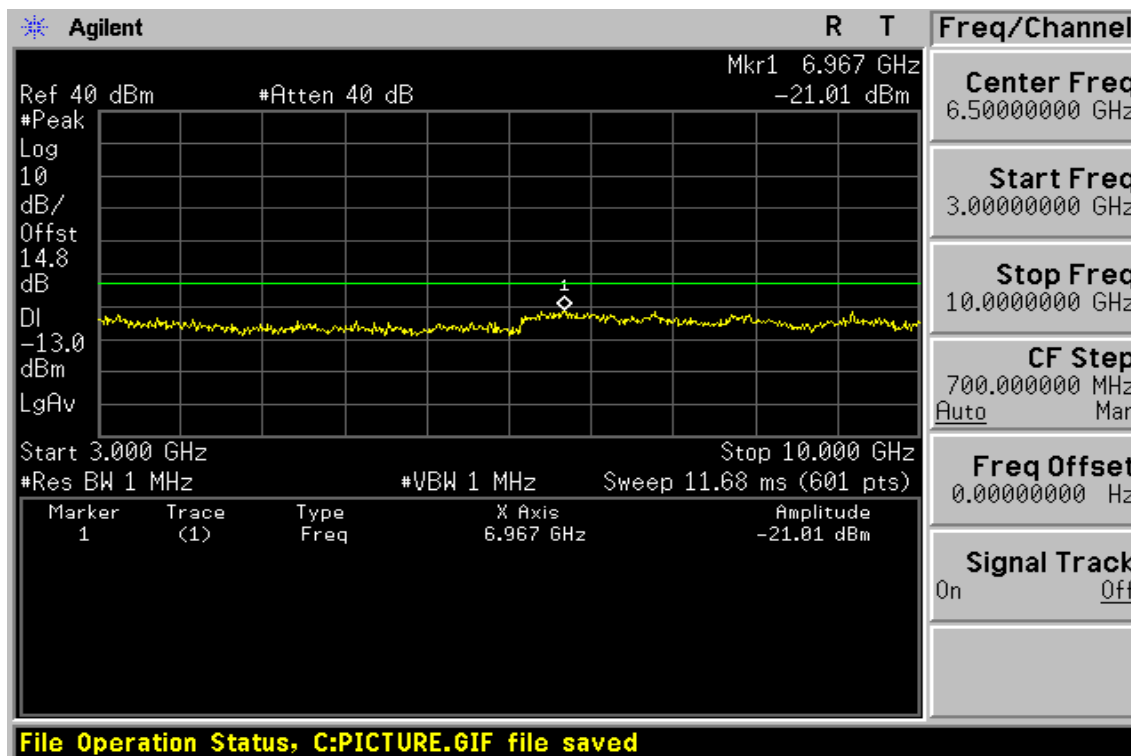
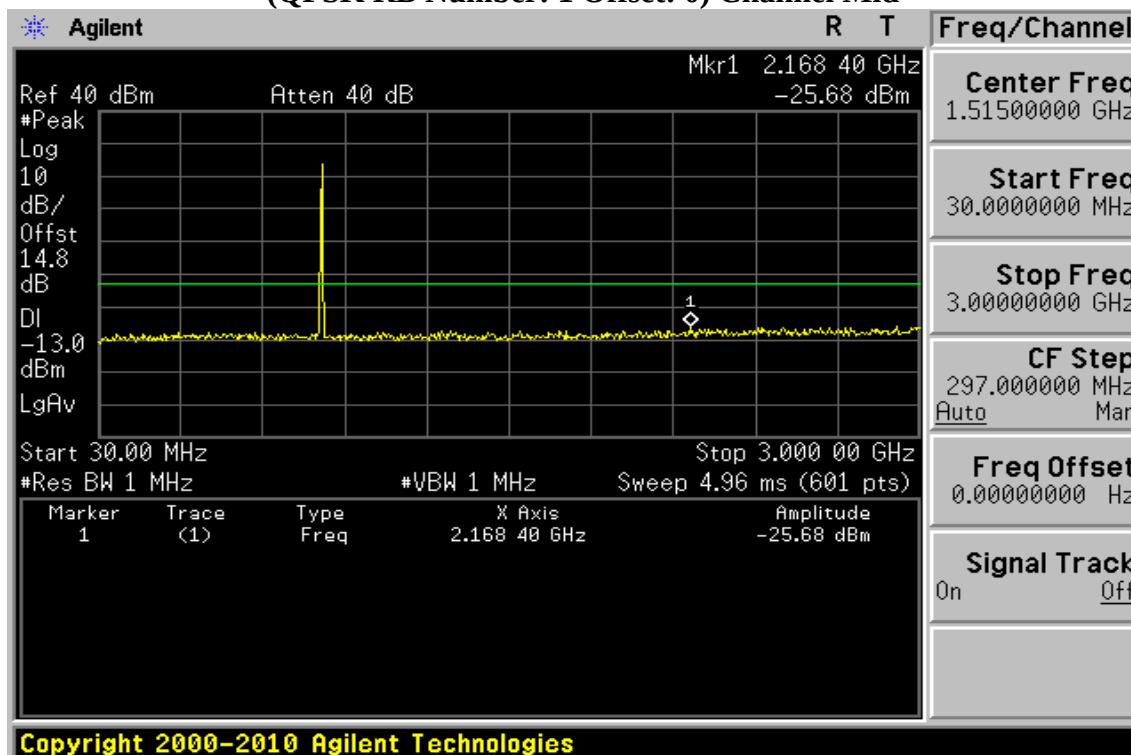
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Out of Band emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid



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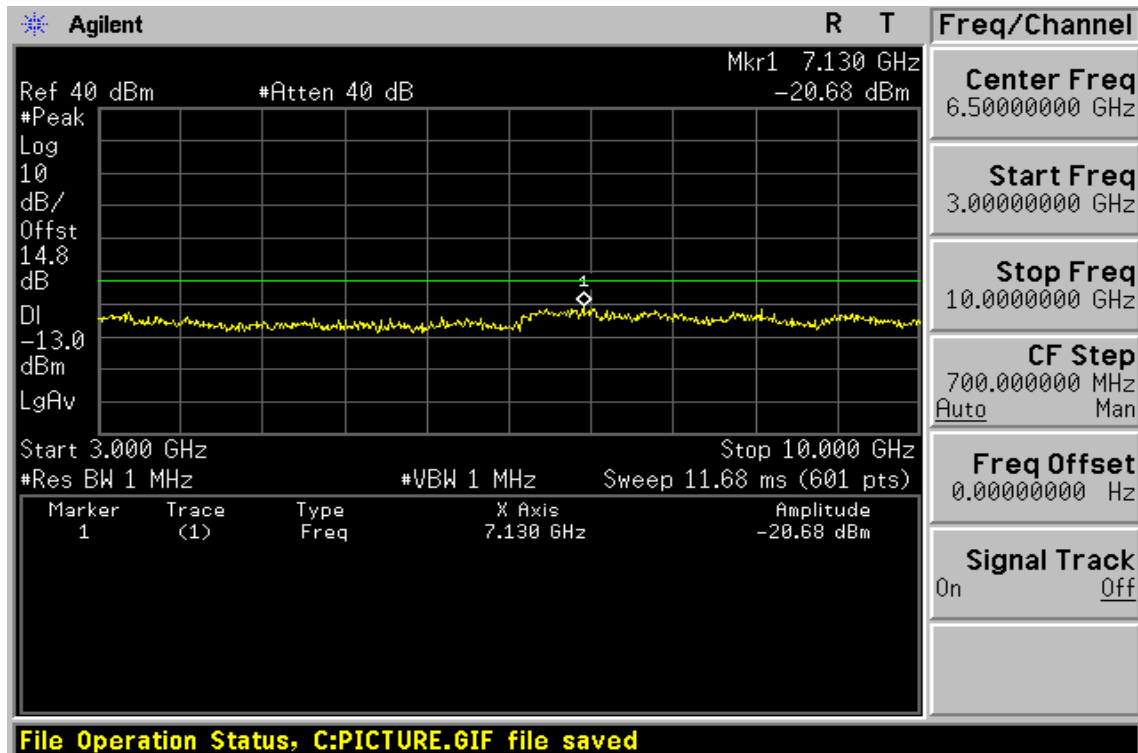
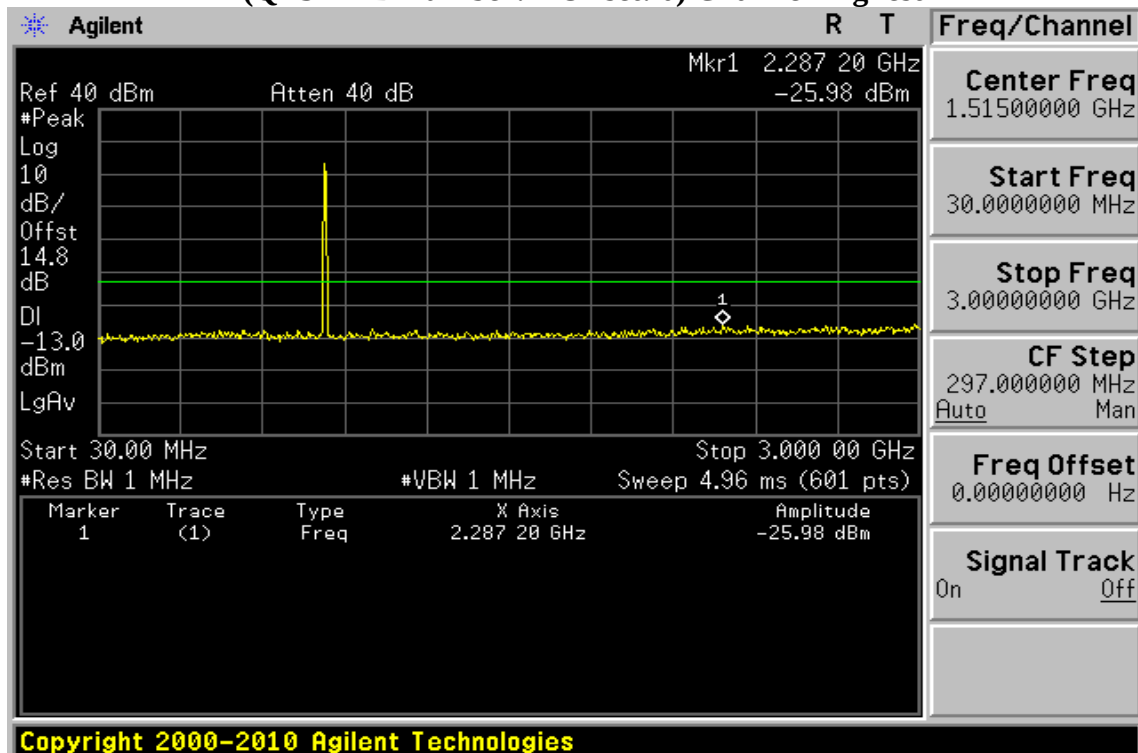
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



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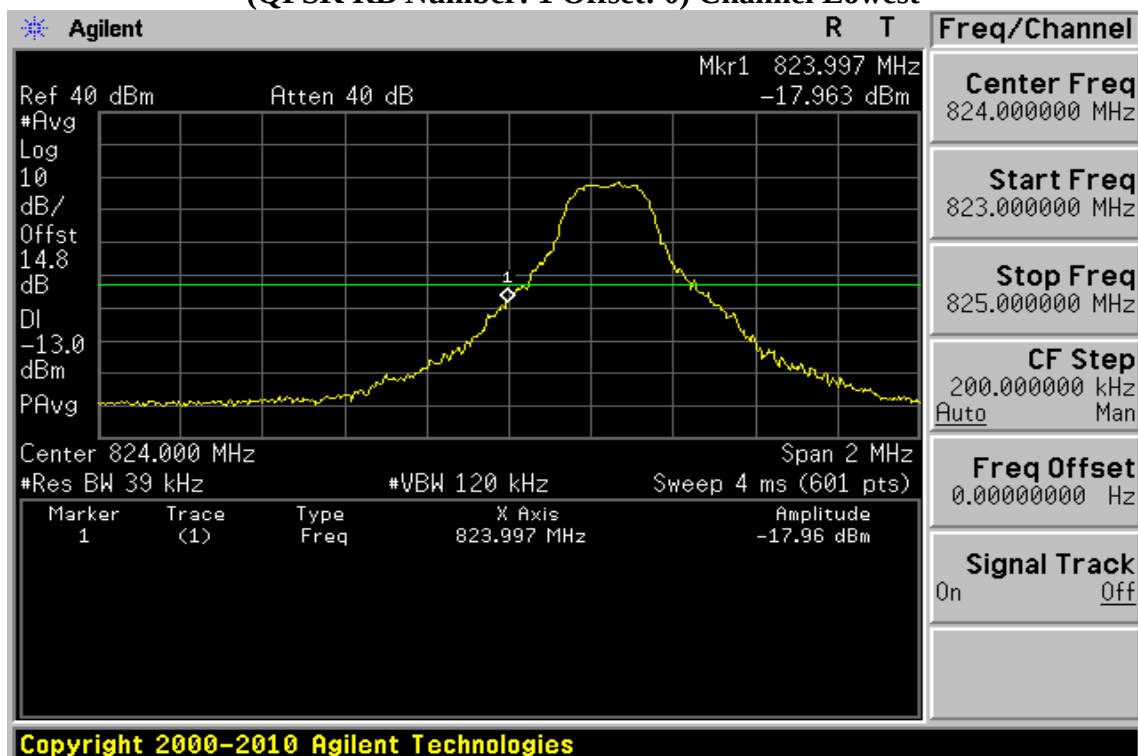
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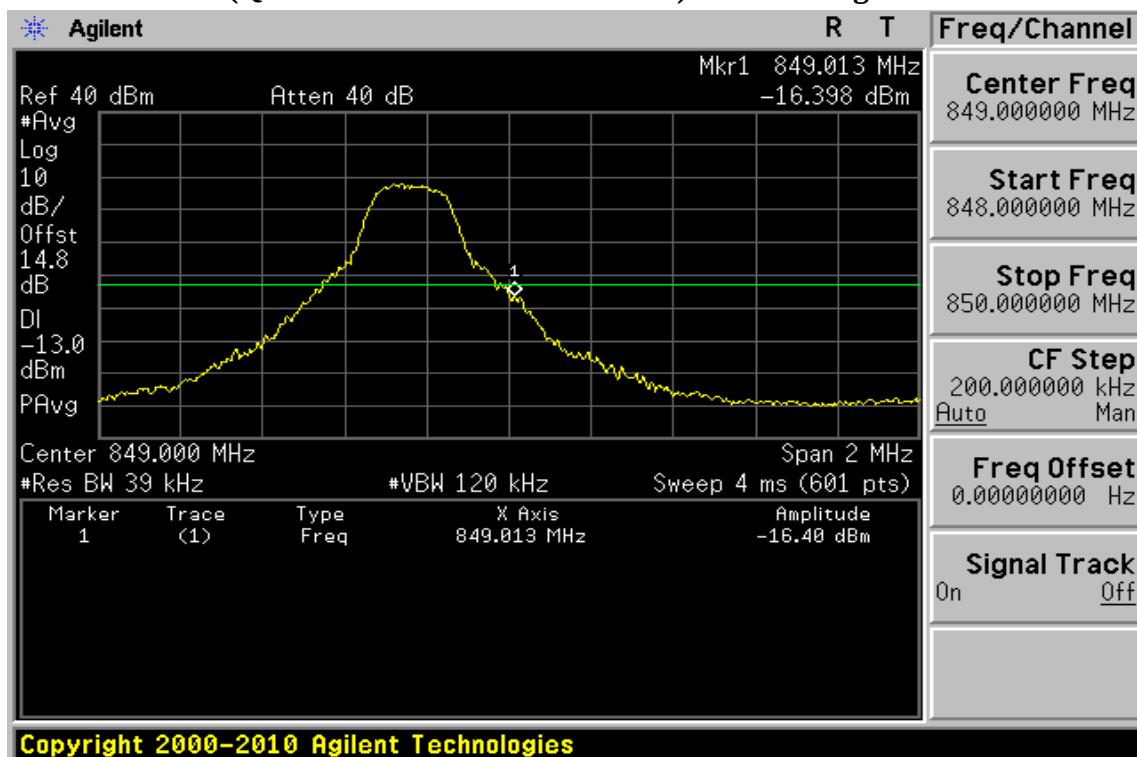
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Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 14) Channel Highest



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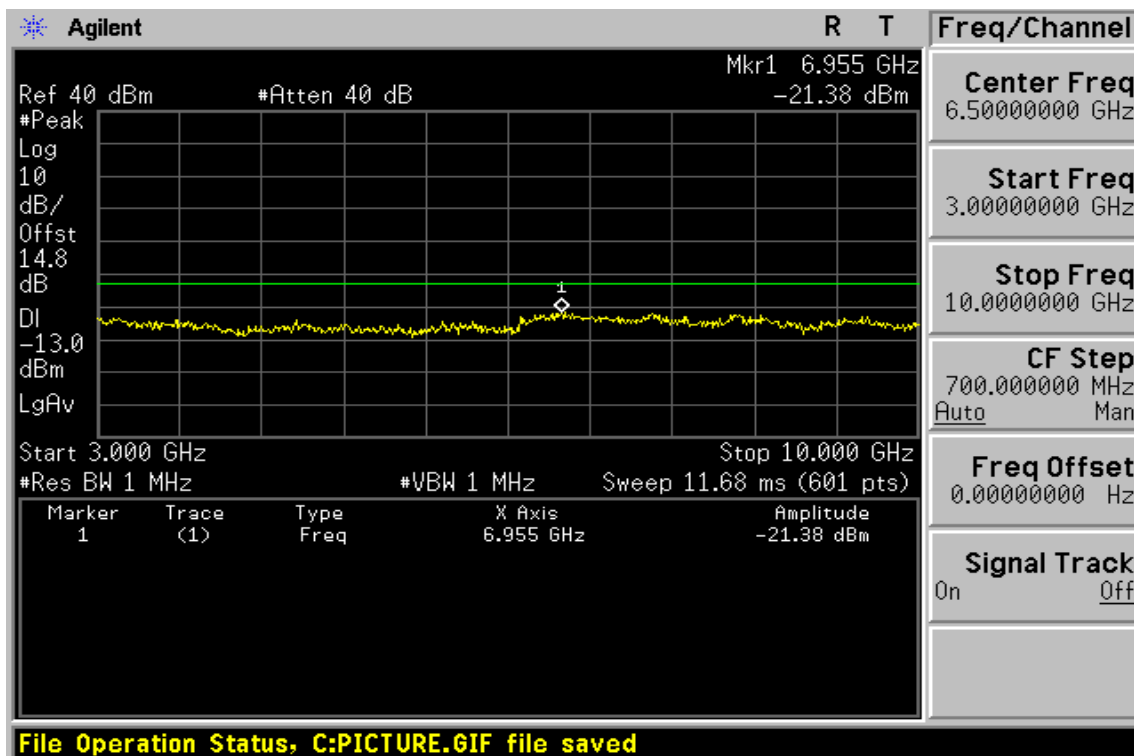
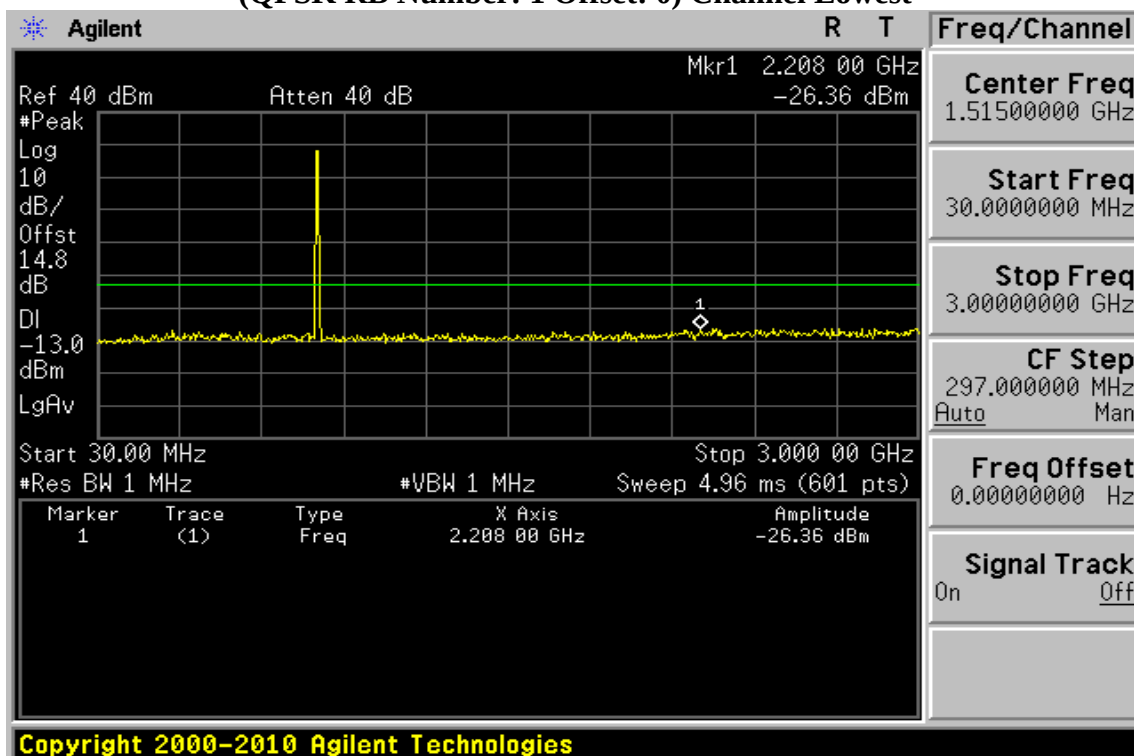
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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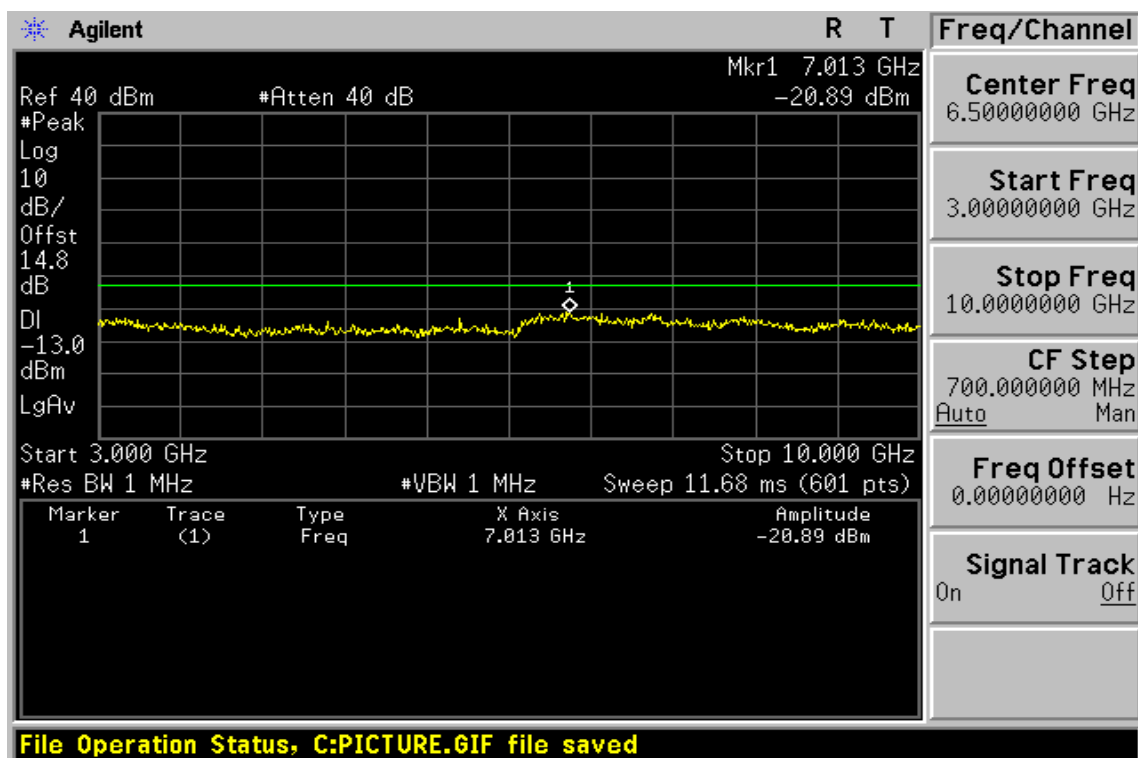
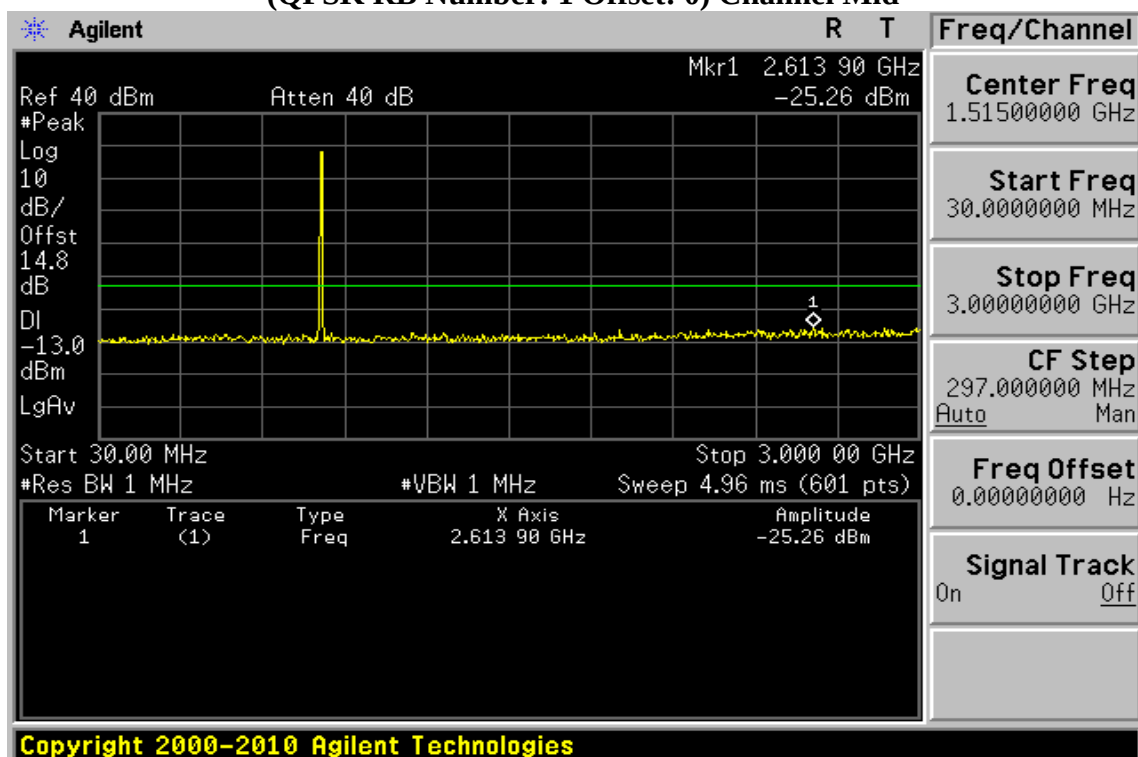
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Out of Band emission at antenna terminals –5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid



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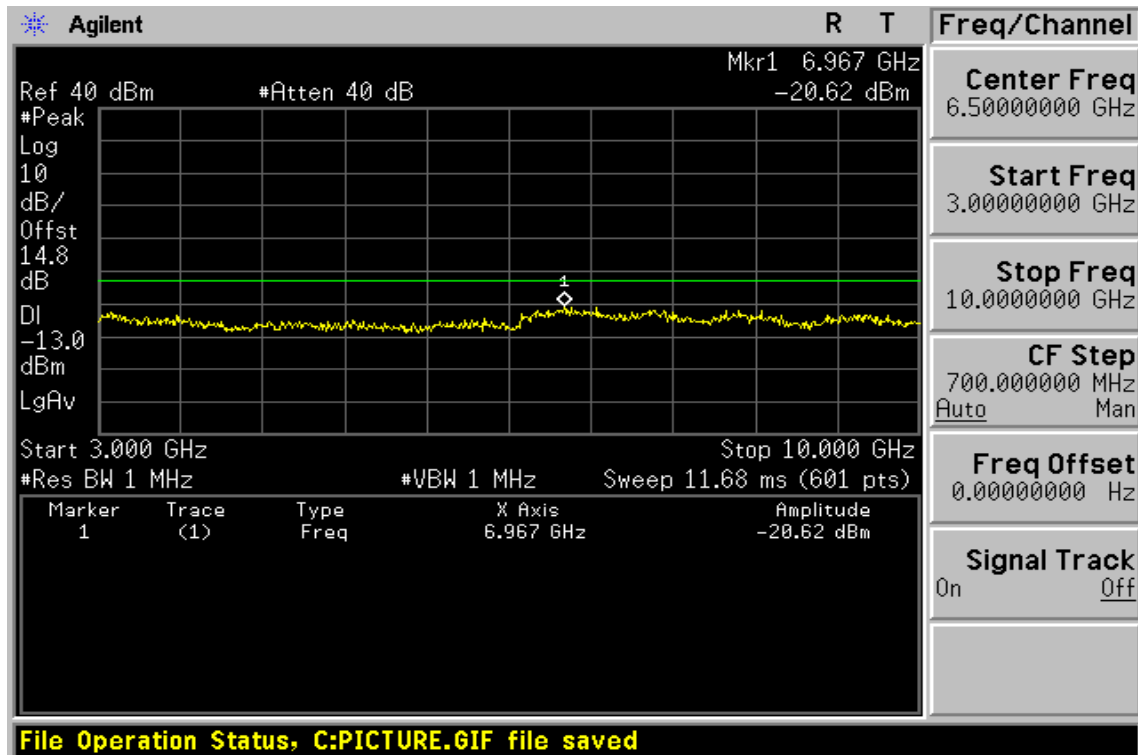
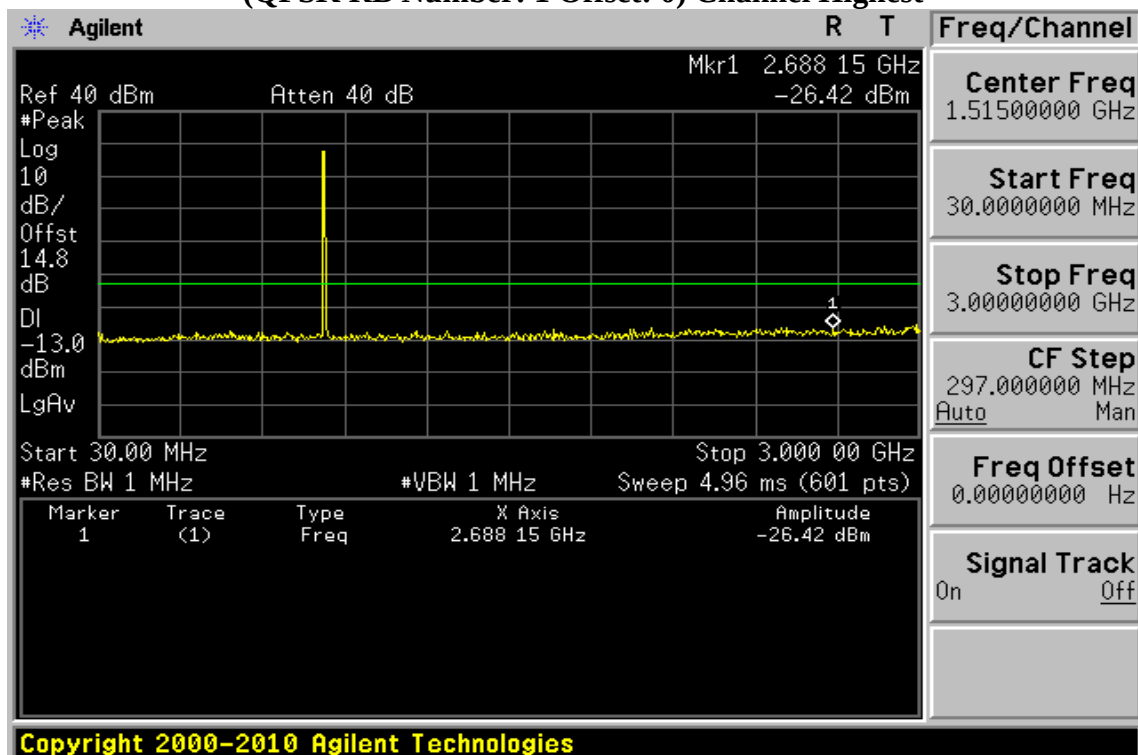
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



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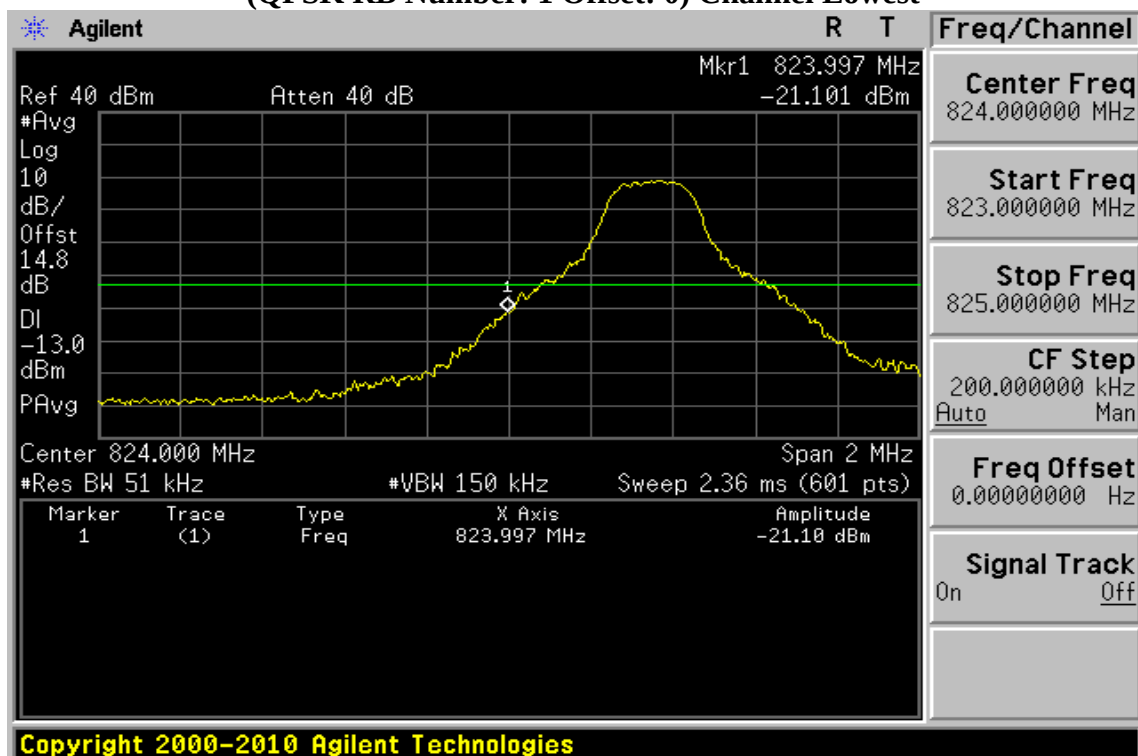
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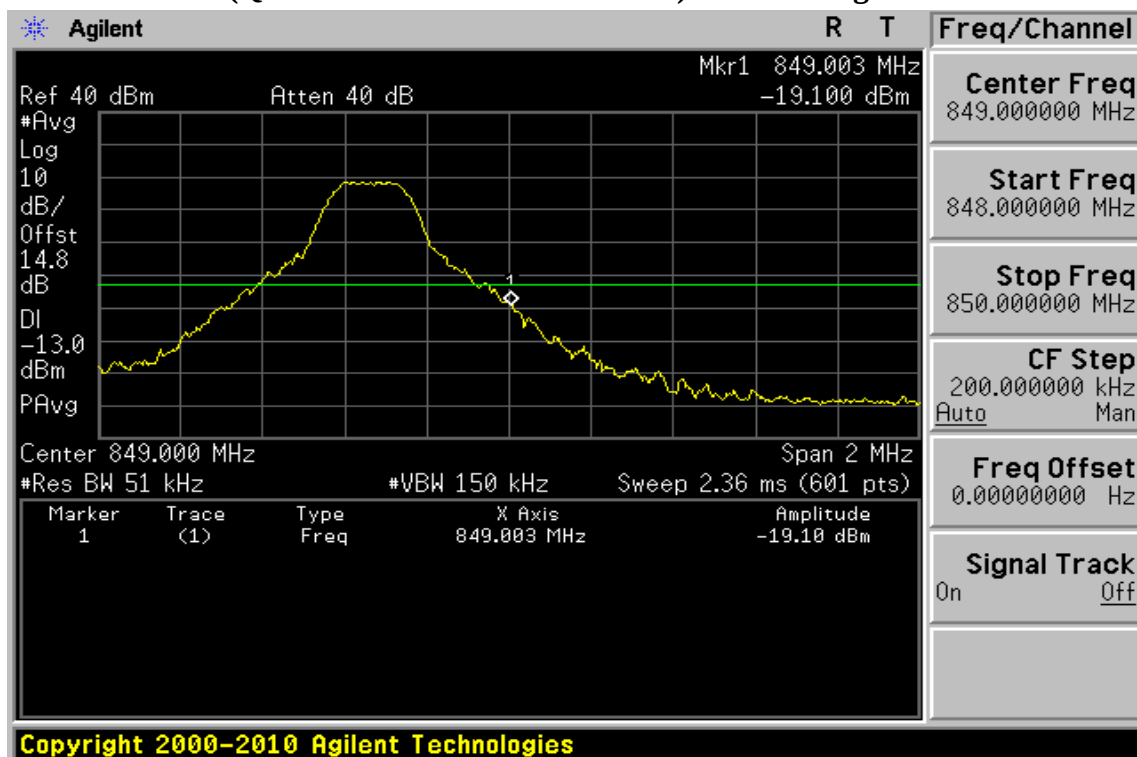
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 5
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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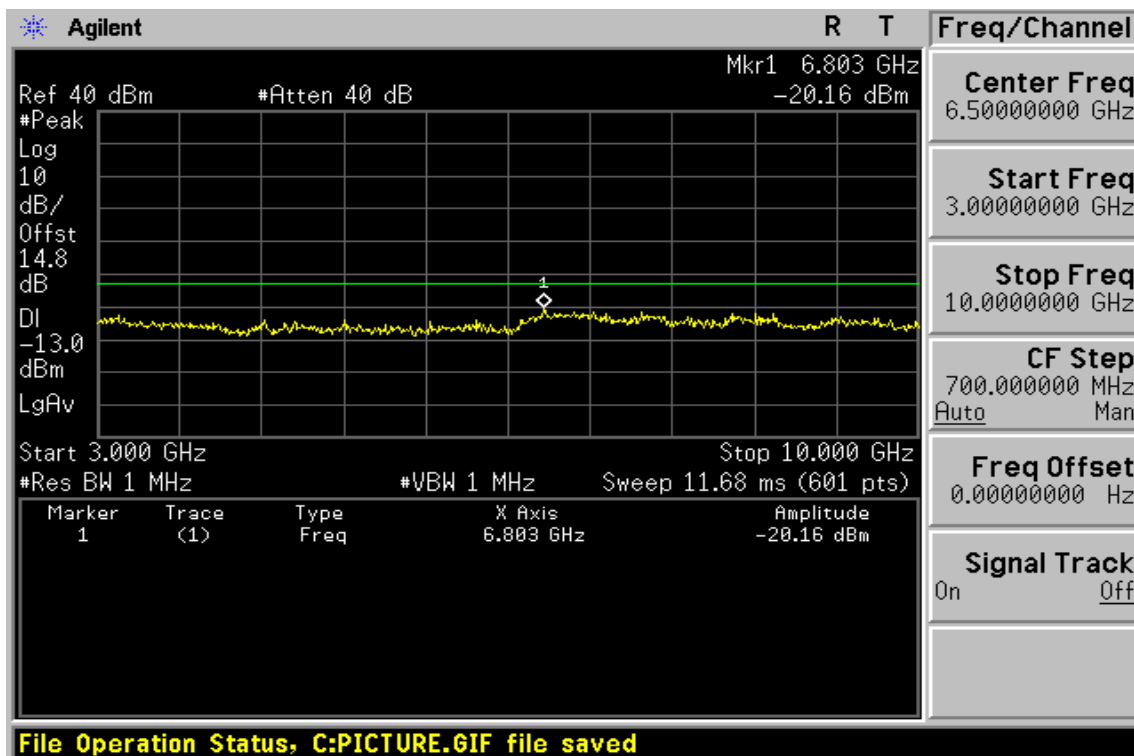
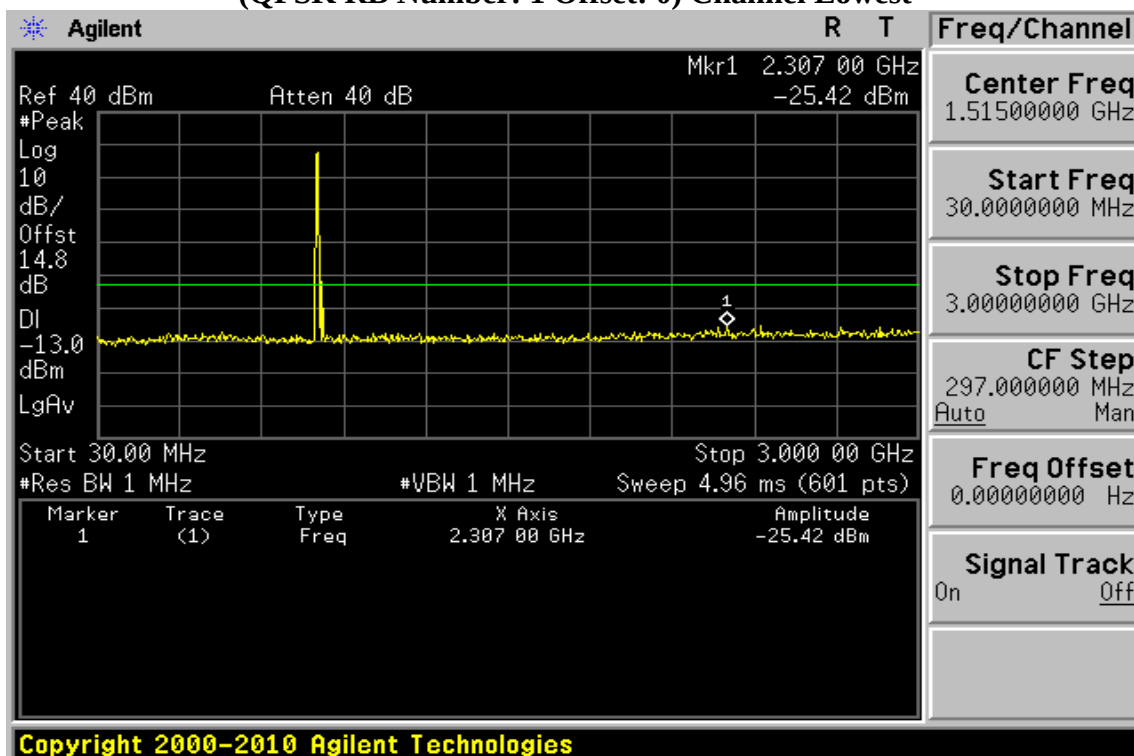
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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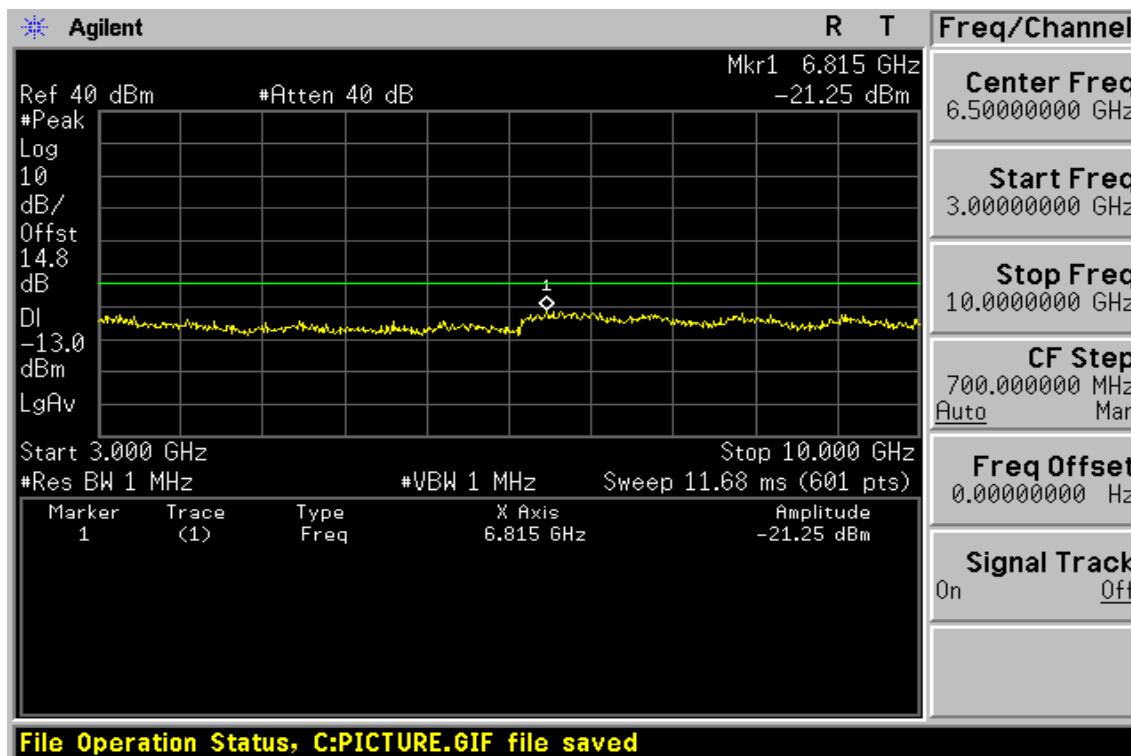
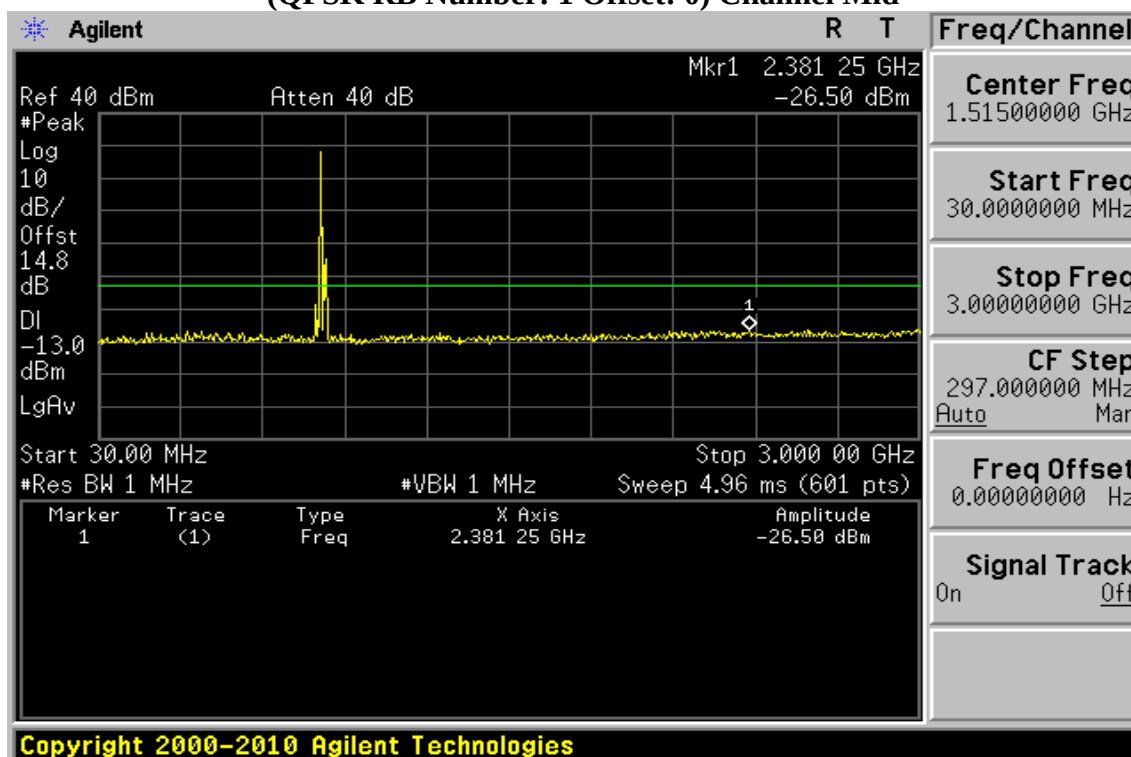
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Out of Band emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Mid



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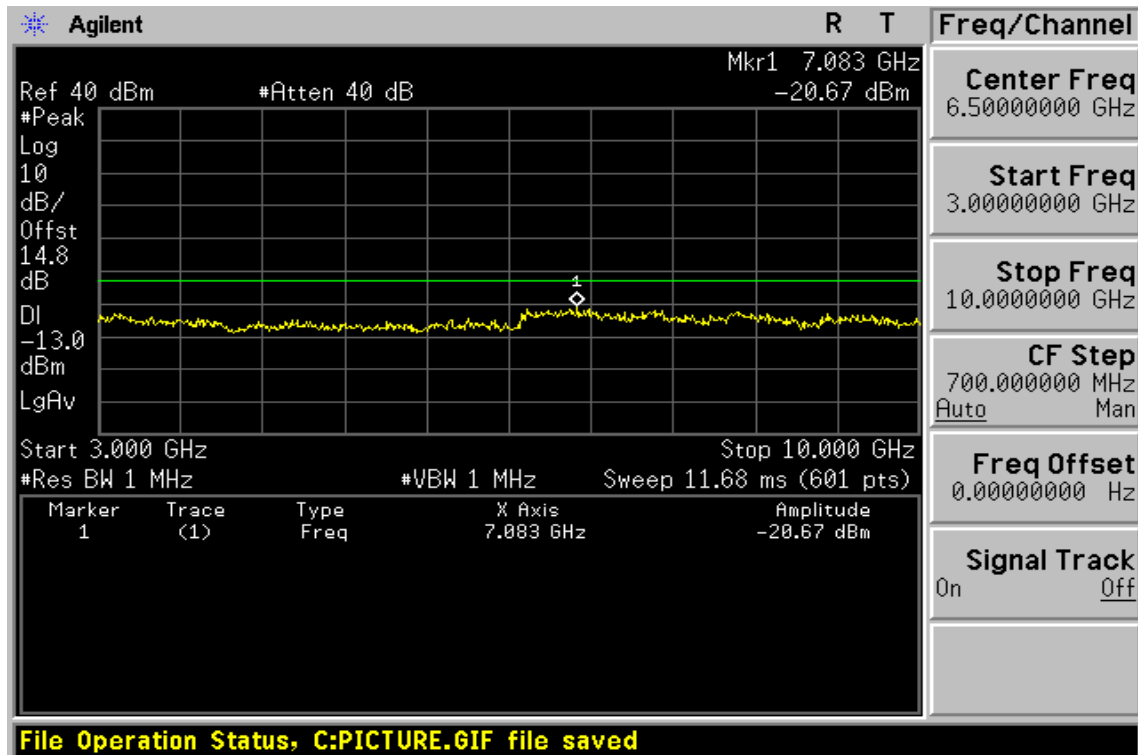
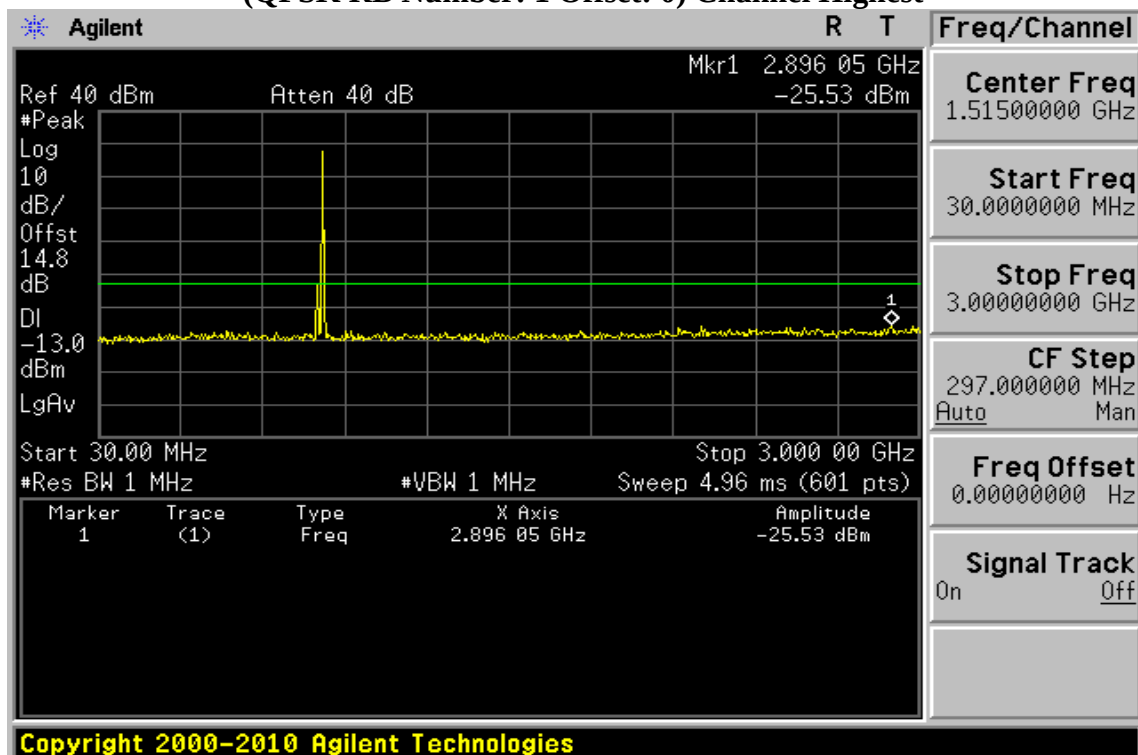
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Highest



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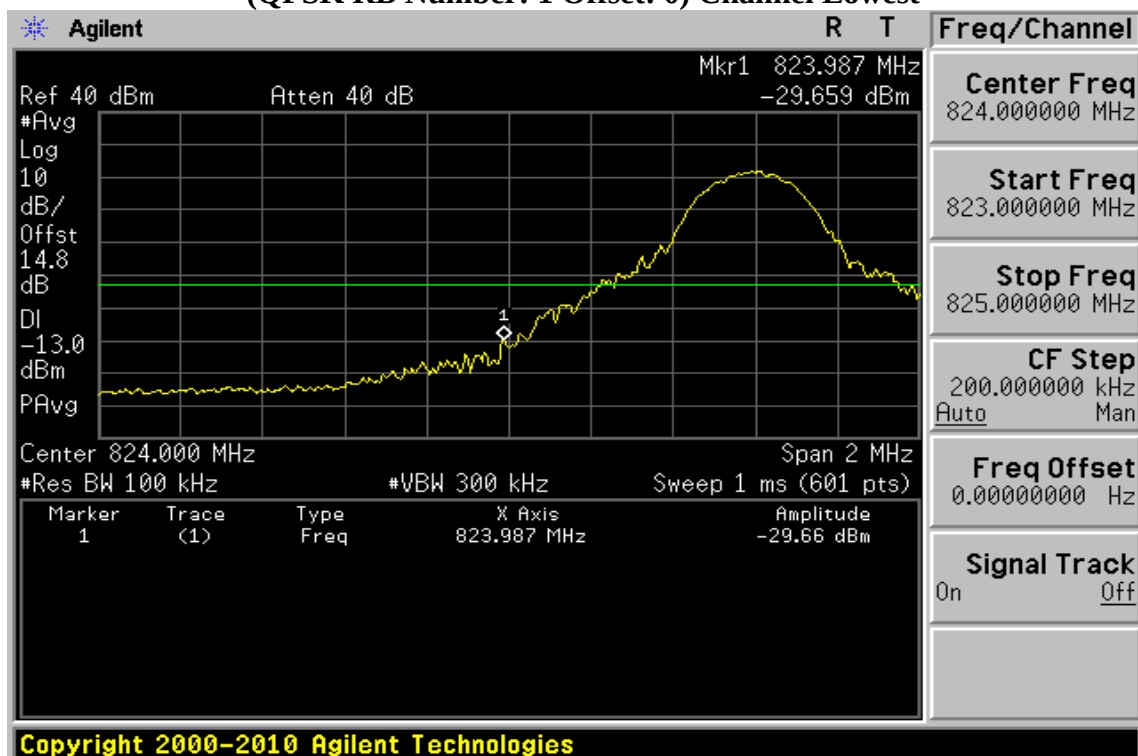
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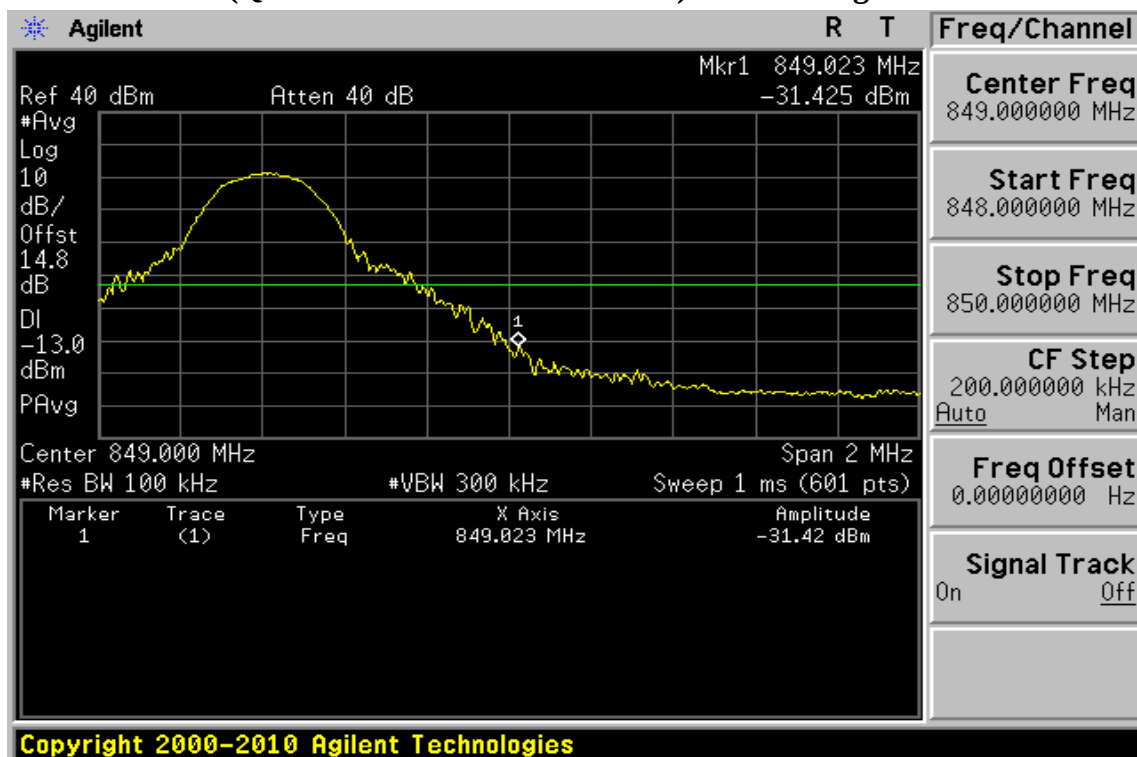
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Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 5 (QPSK RB Number: 1 Offset: 49) Channel Highest



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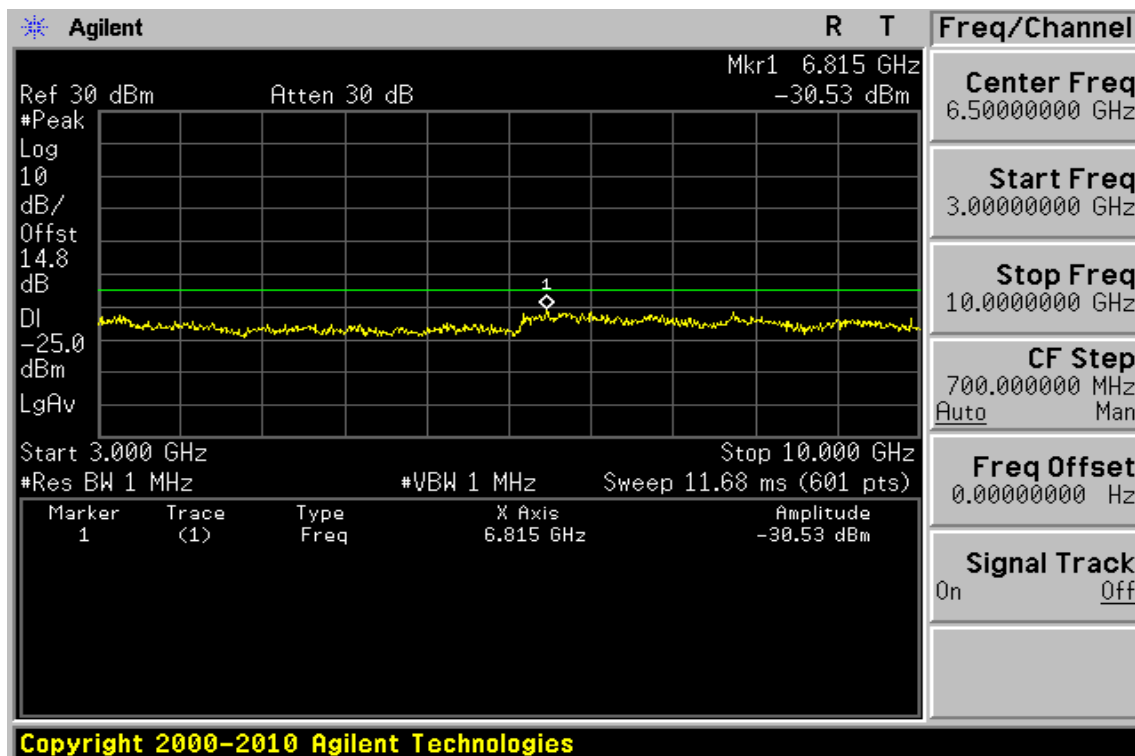
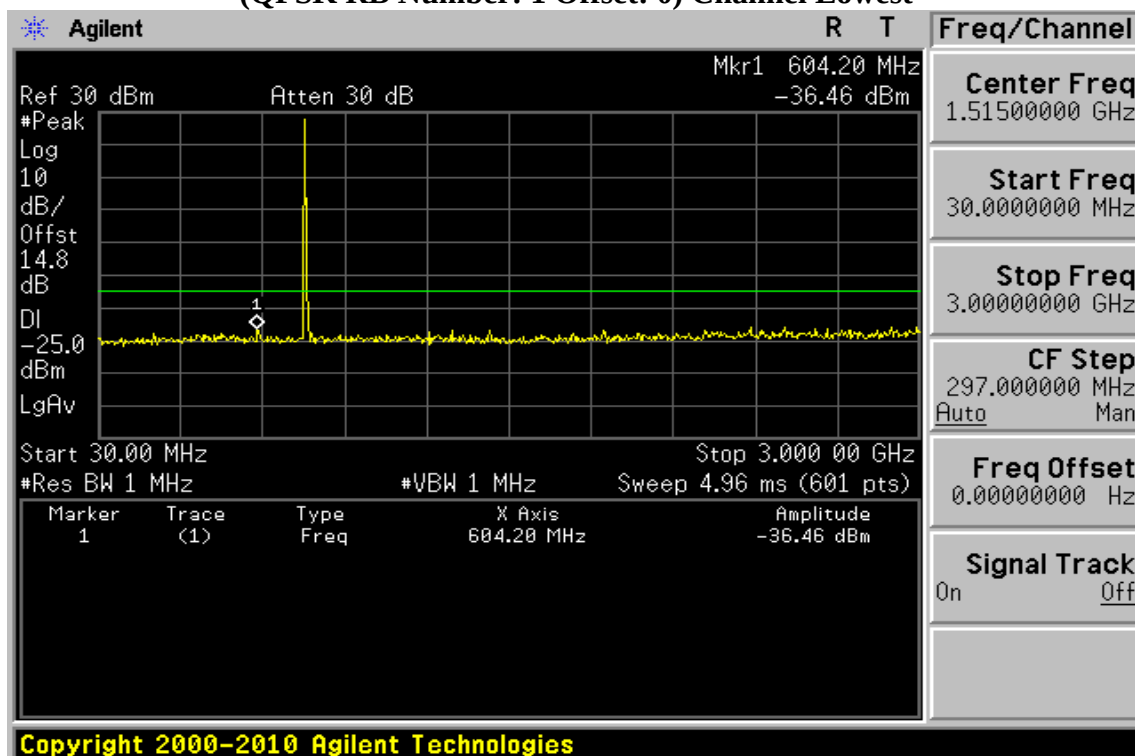
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 13

(QPSK RB Number: 1 Offset: 0) Channel Lowest



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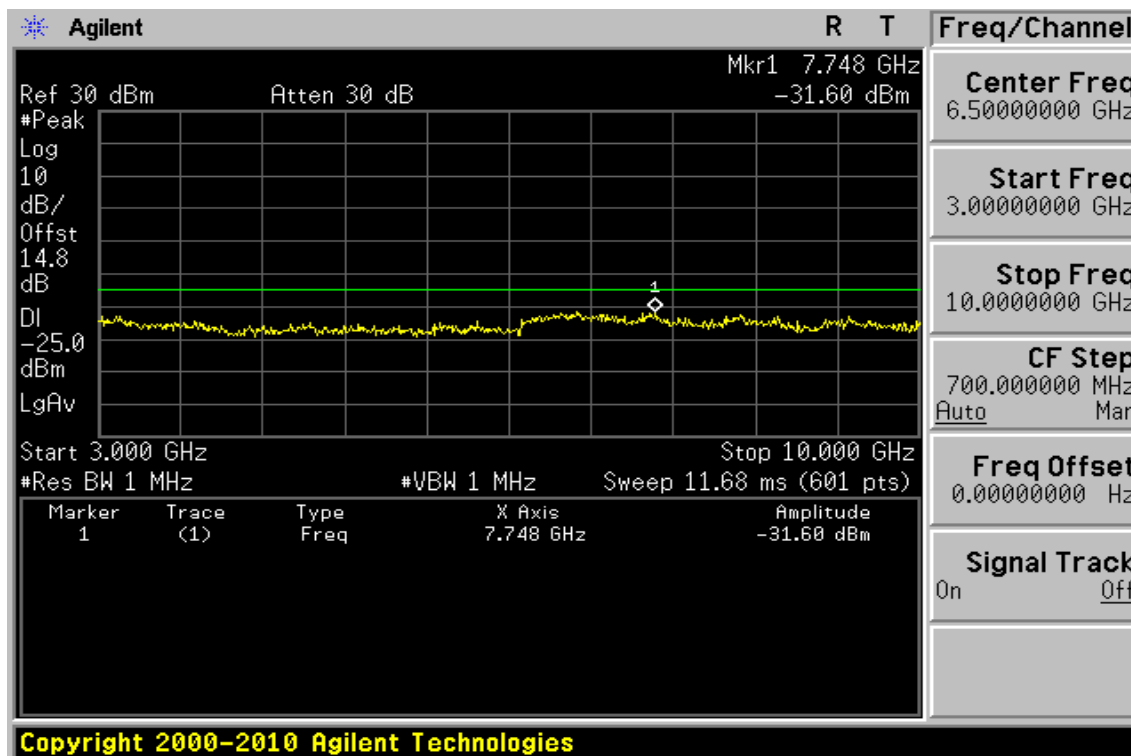
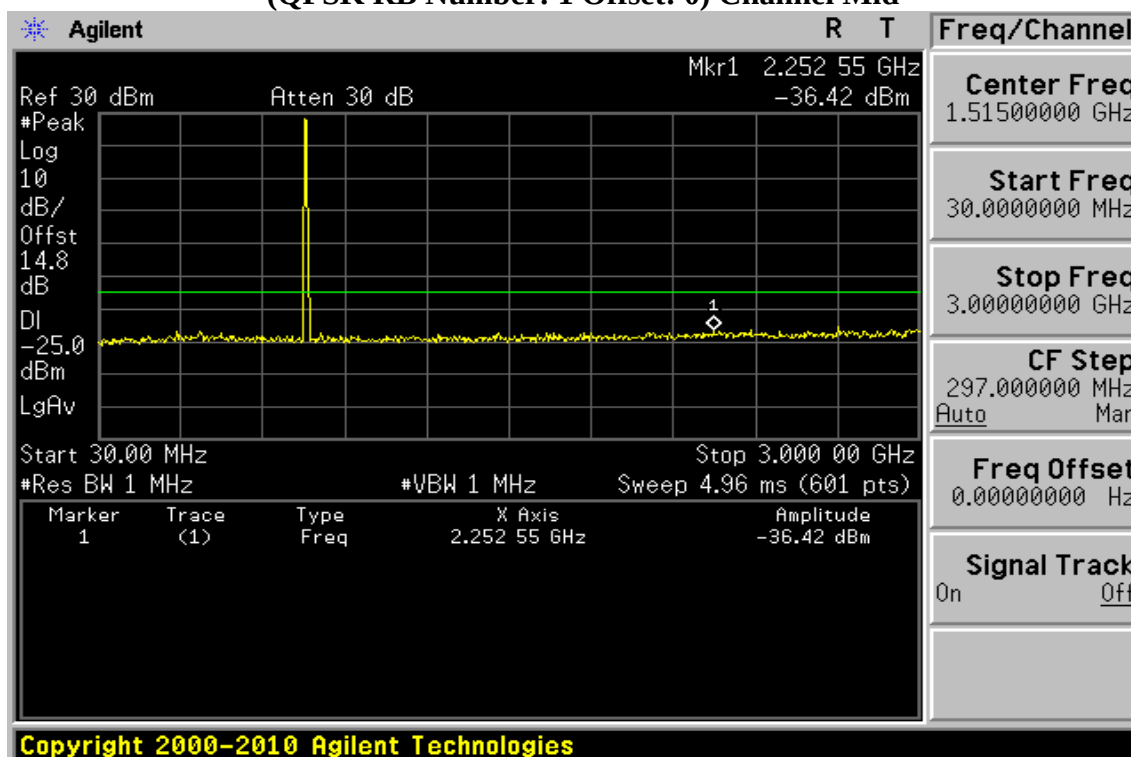
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Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid



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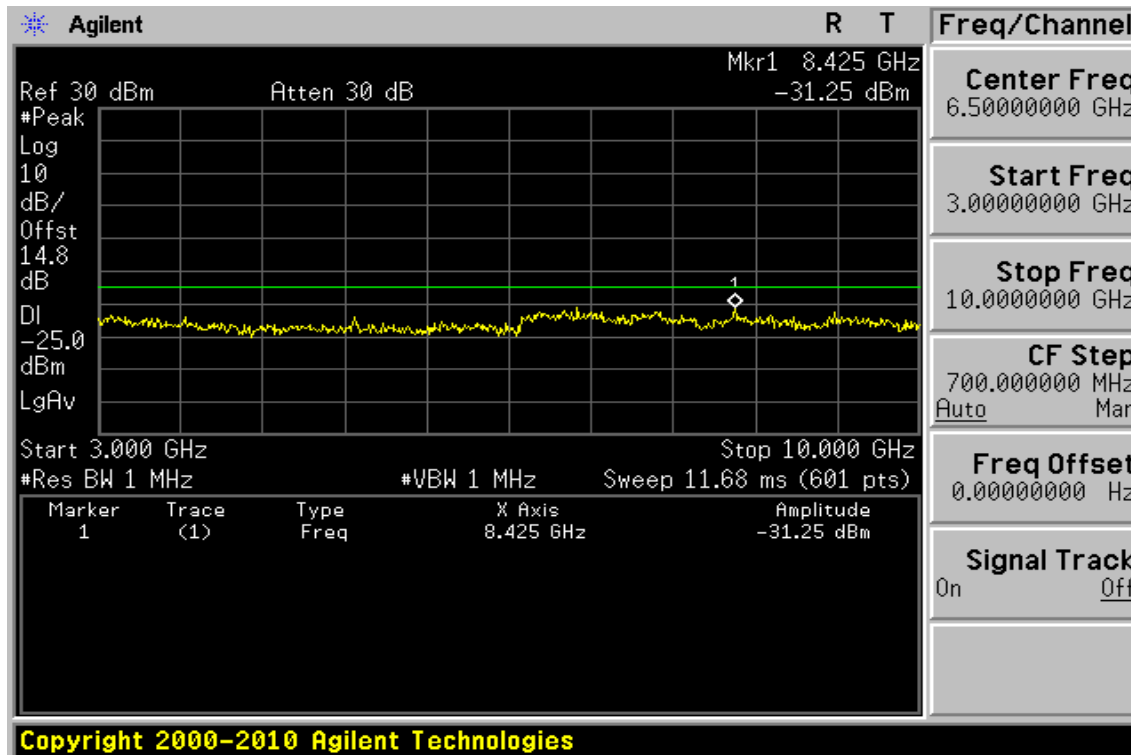
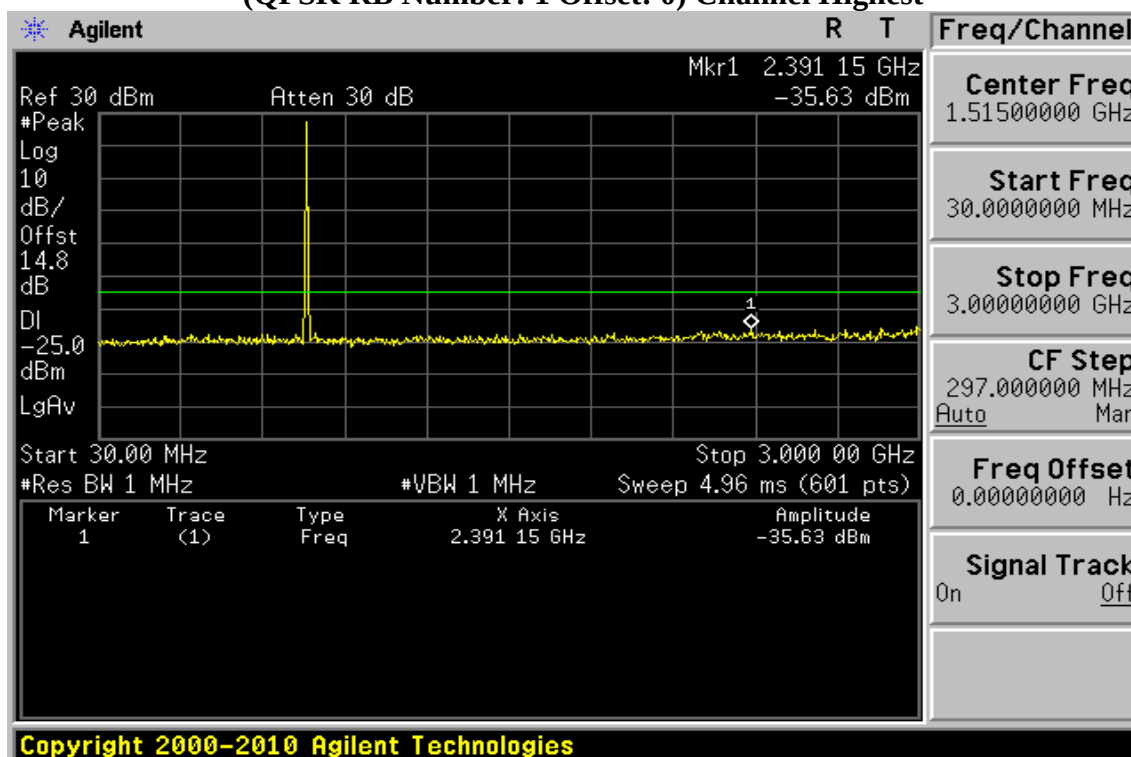
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest



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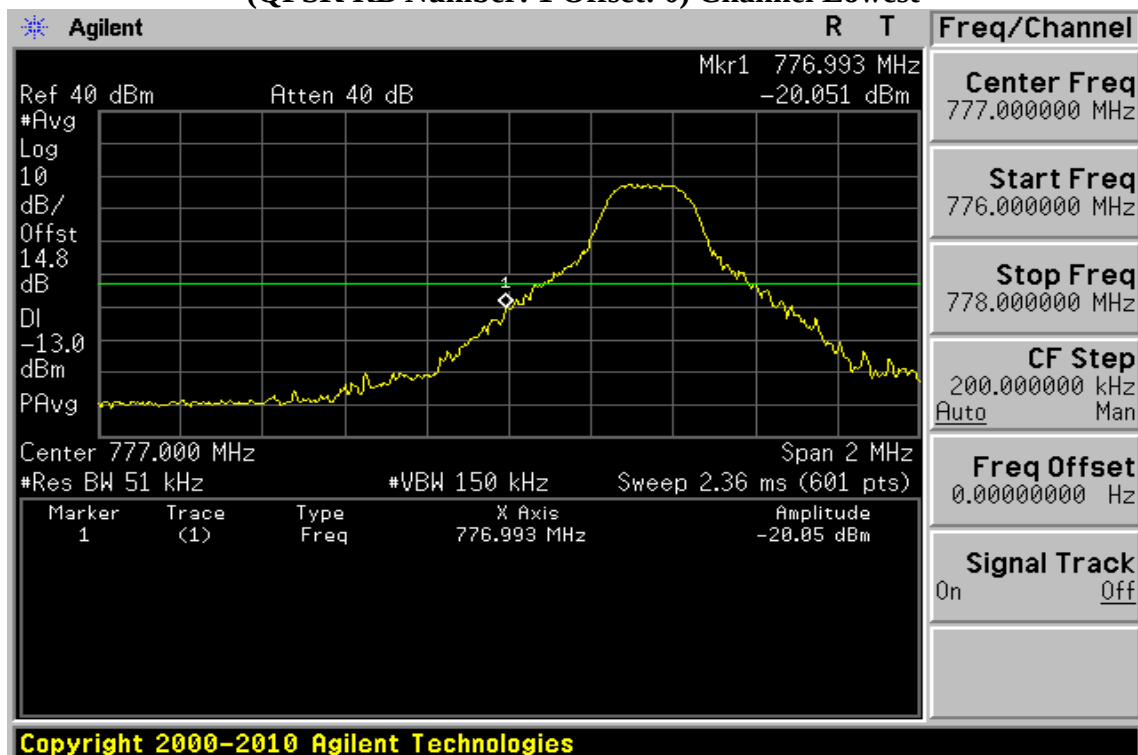
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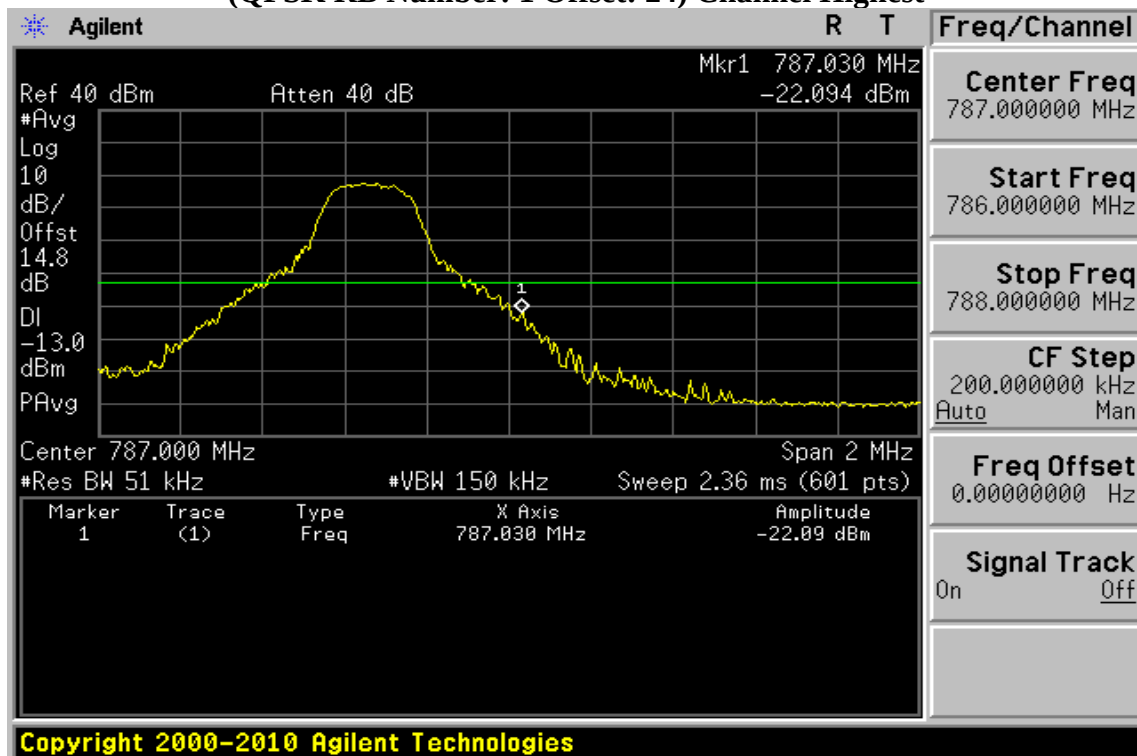
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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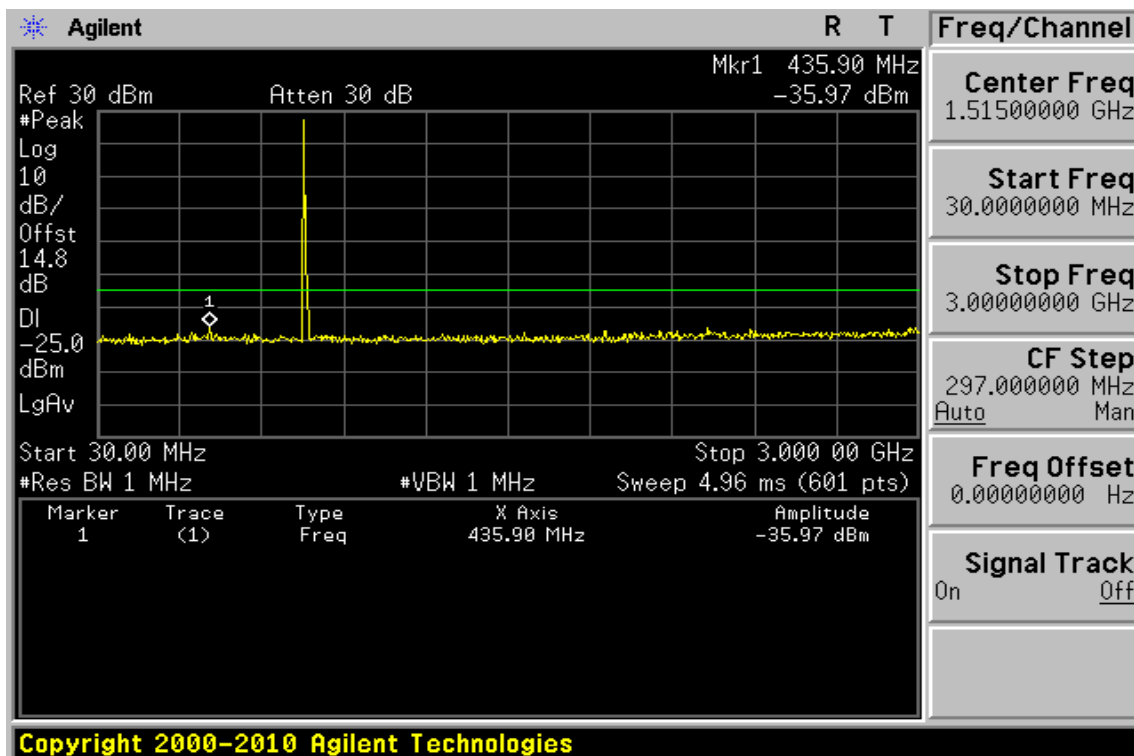
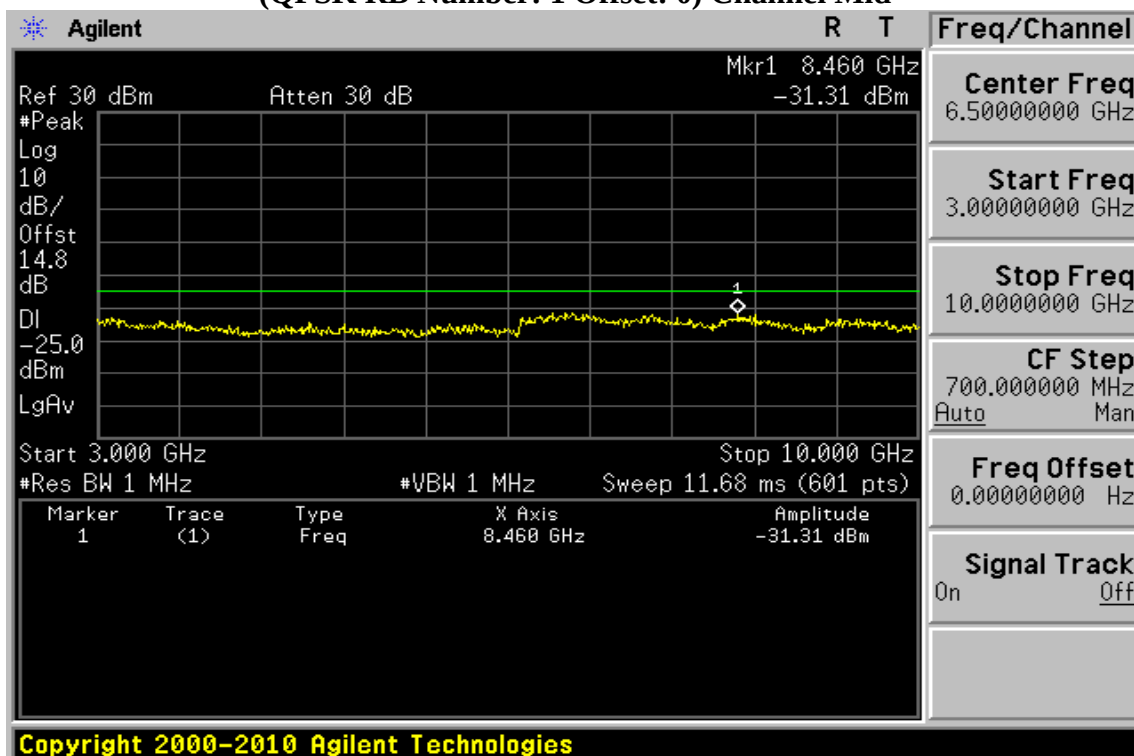
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid



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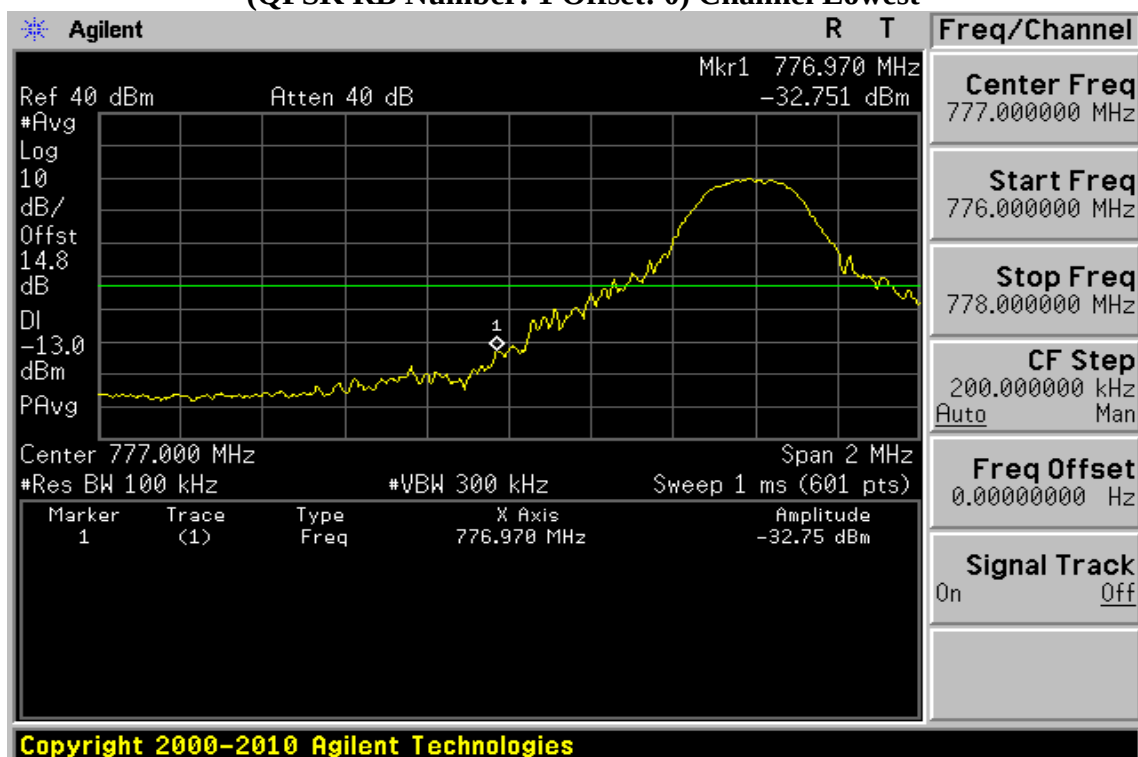
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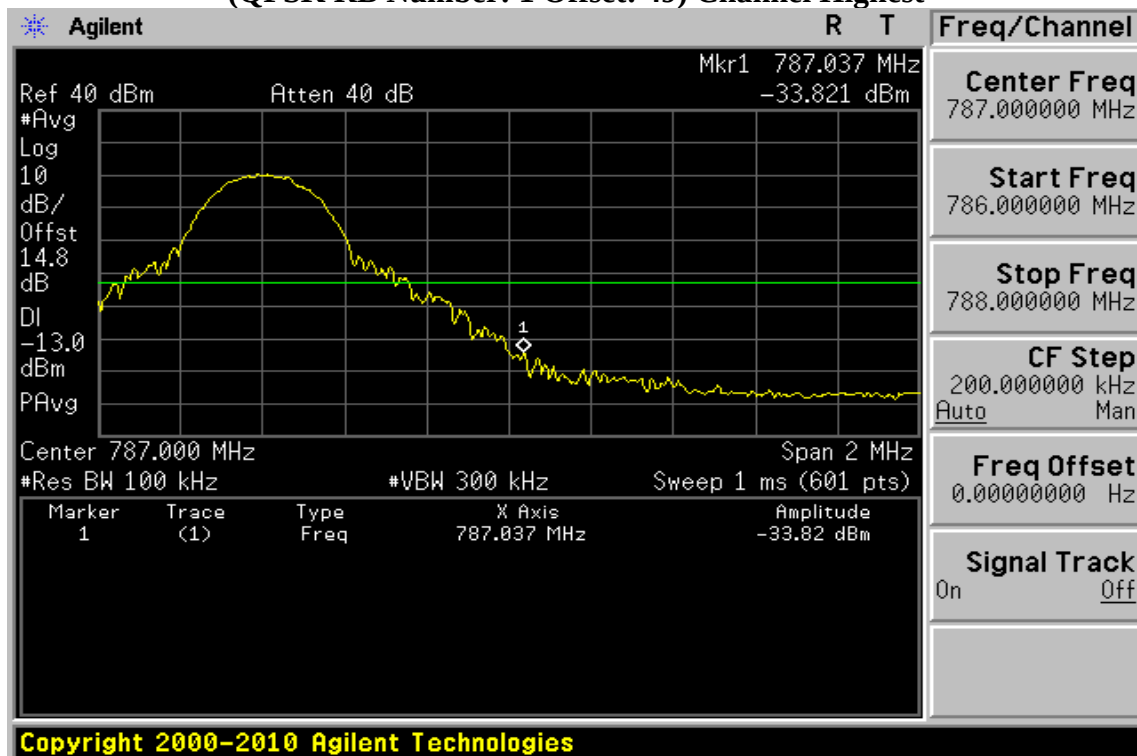
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 49) Channel Highest**



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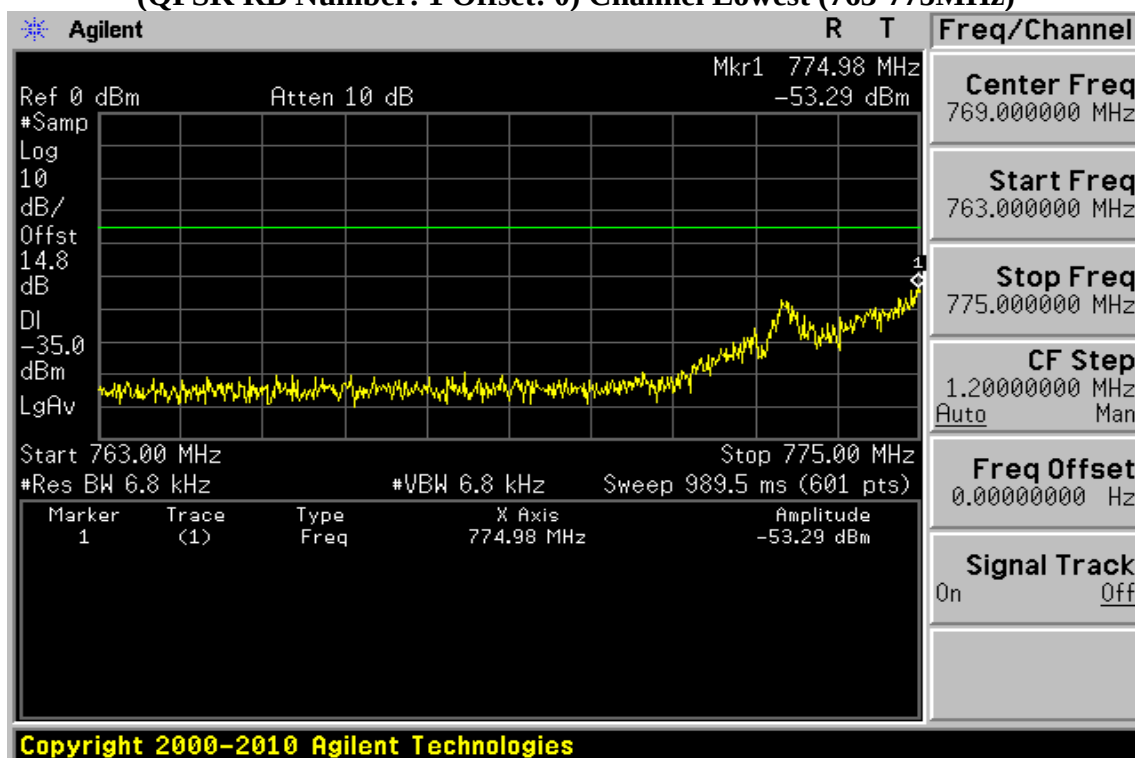
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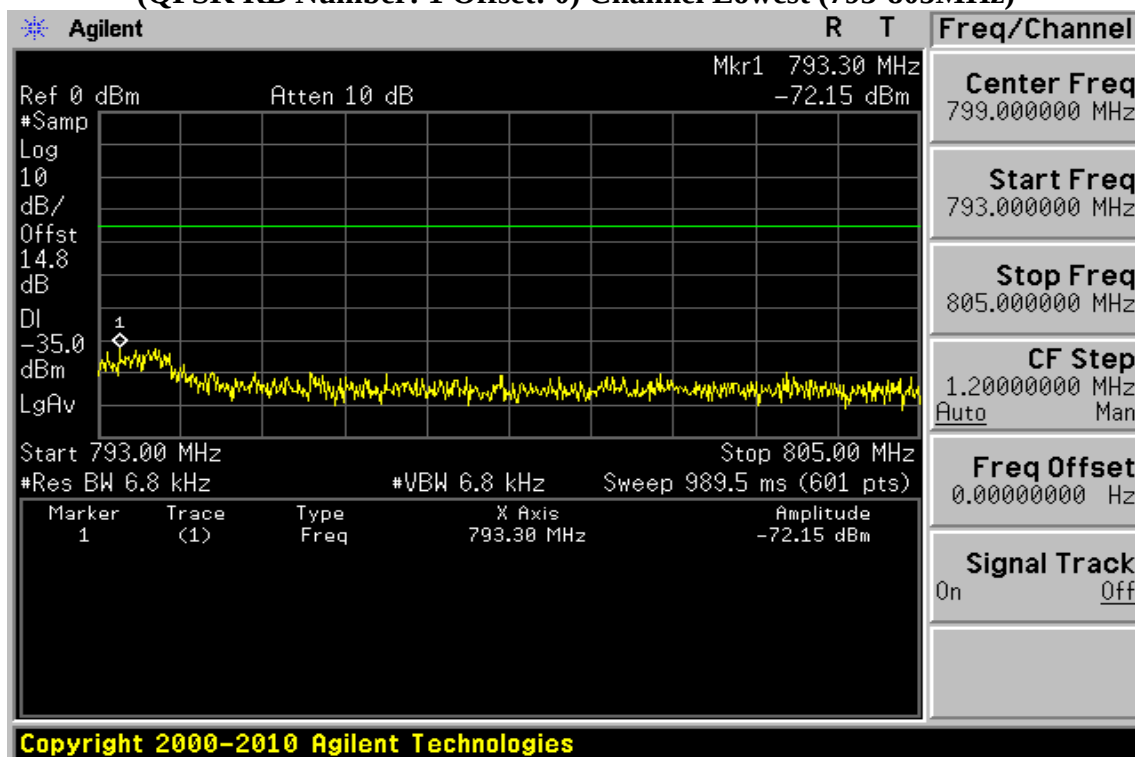
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (763-775MHz)



Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Lowest (793-805MHz)



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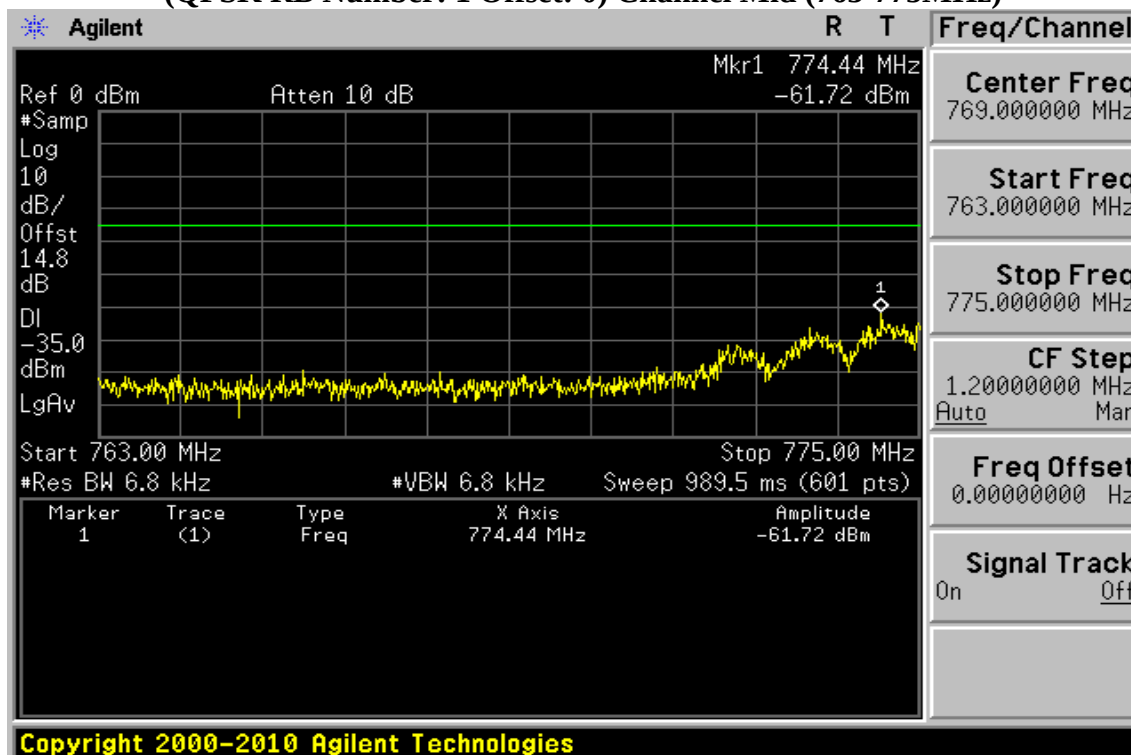
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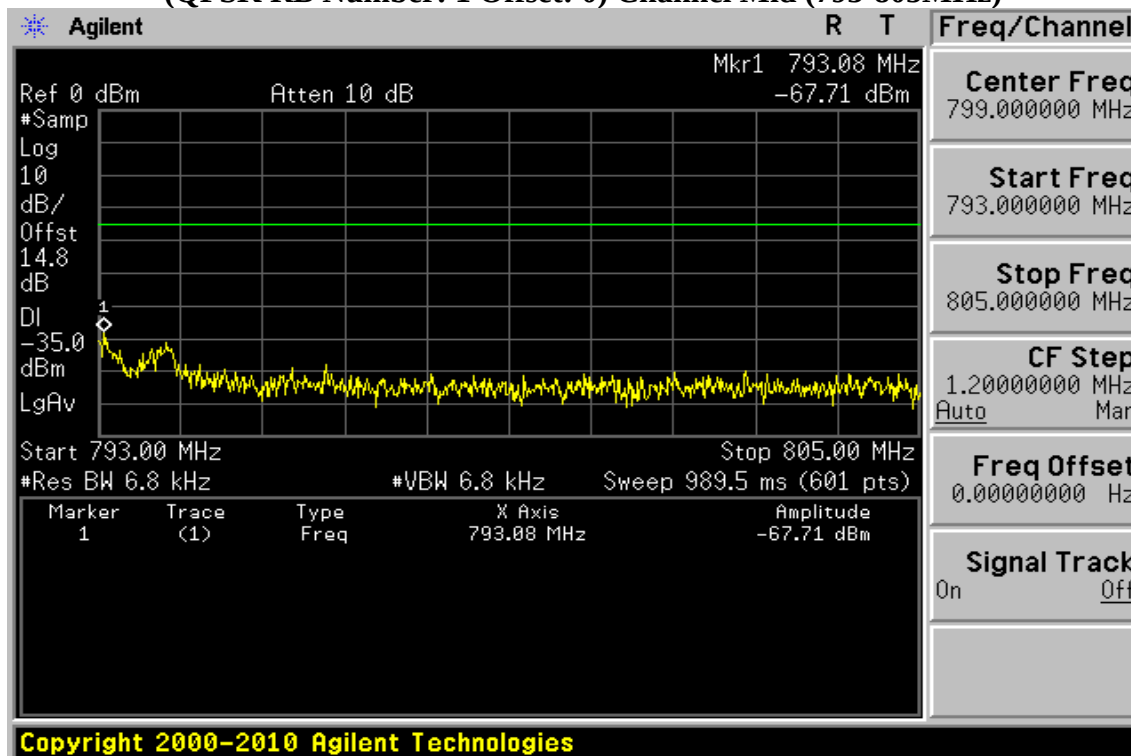
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Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)



Out of Band emission at antenna terminals –5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)



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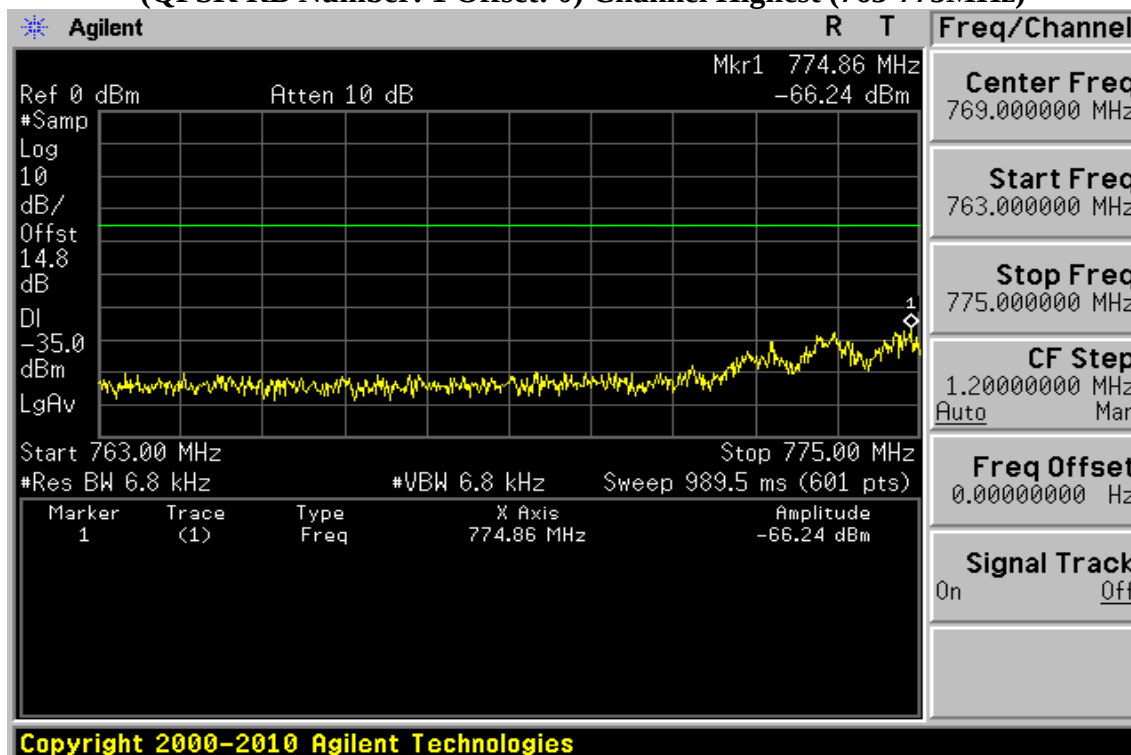
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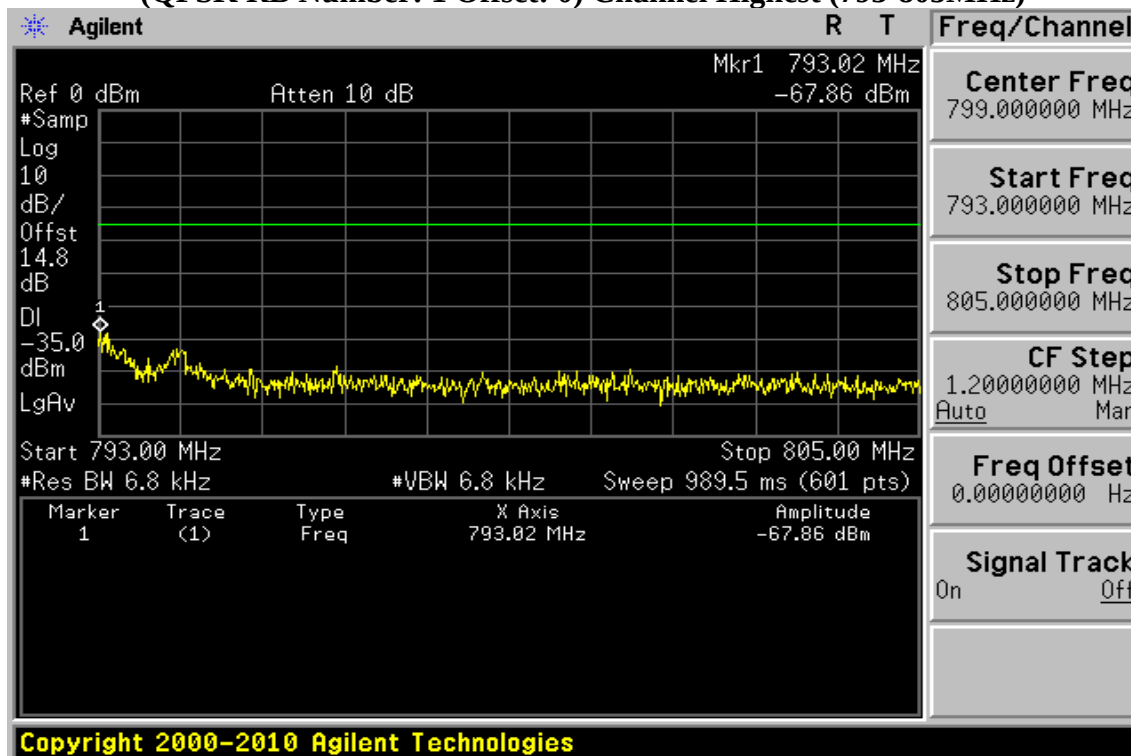
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (763-775MHz)



Out of Band emission at antenna terminals–5MHz BW LTE-Band 13 (QPSK RB Number: 1 Offset: 0) Channel Highest (793-805MHz)



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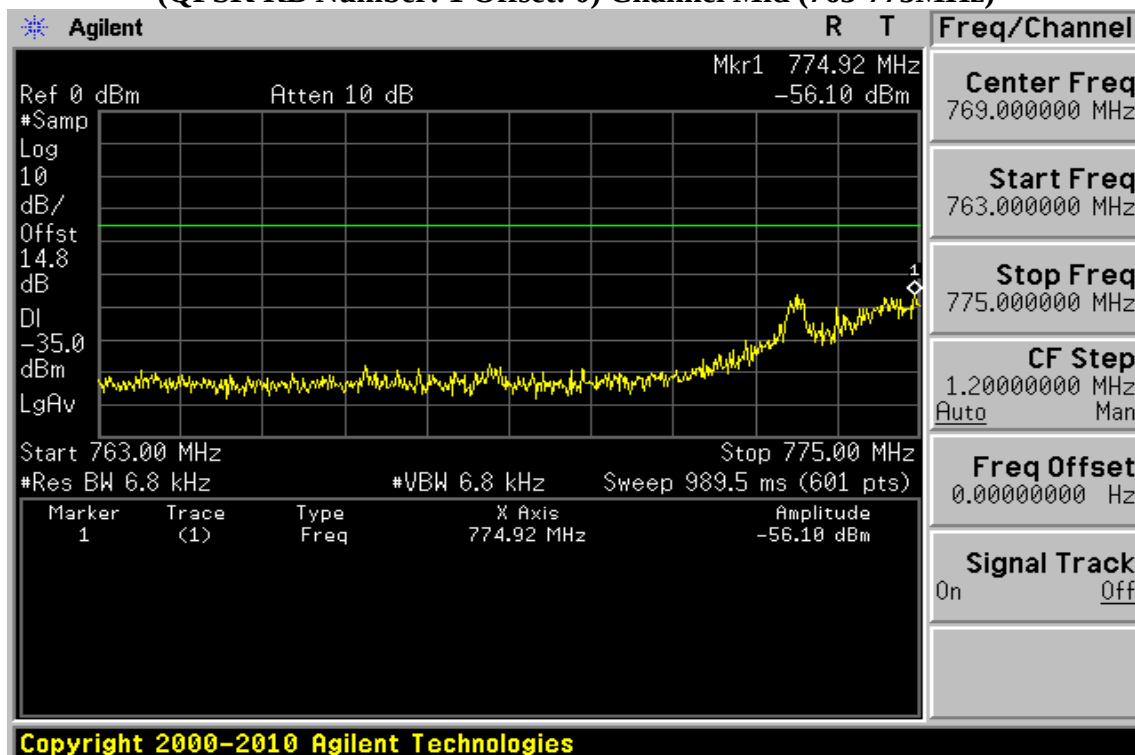
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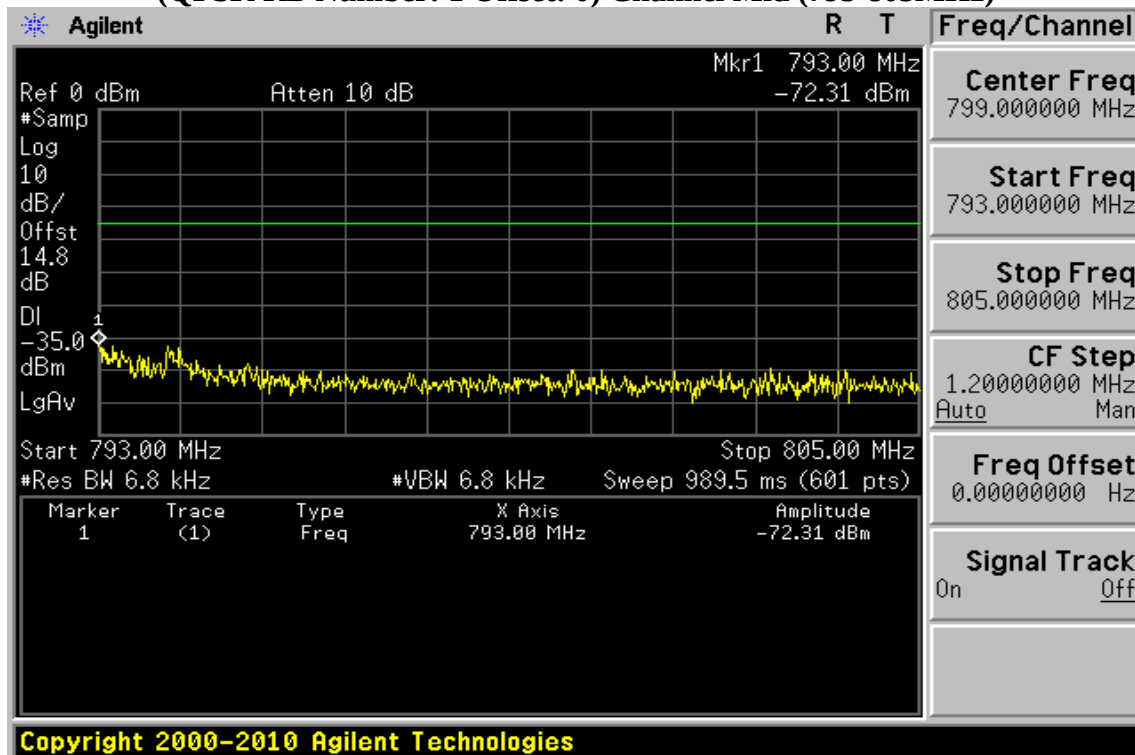
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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Mid (763-775MHz)**



**Out of Band emission at antenna terminals–10MHz BW LTE-Band 13
(QPSK RB Number: 1 Offset: 0) Channel Mid (793-805MHz)**



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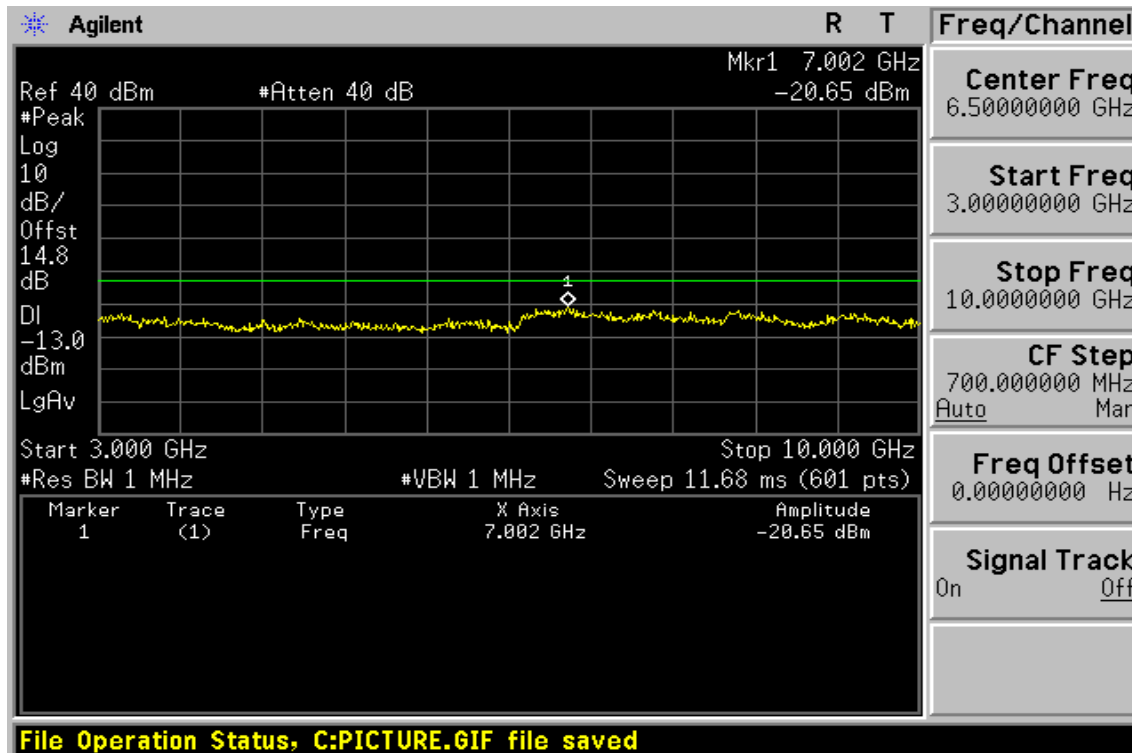
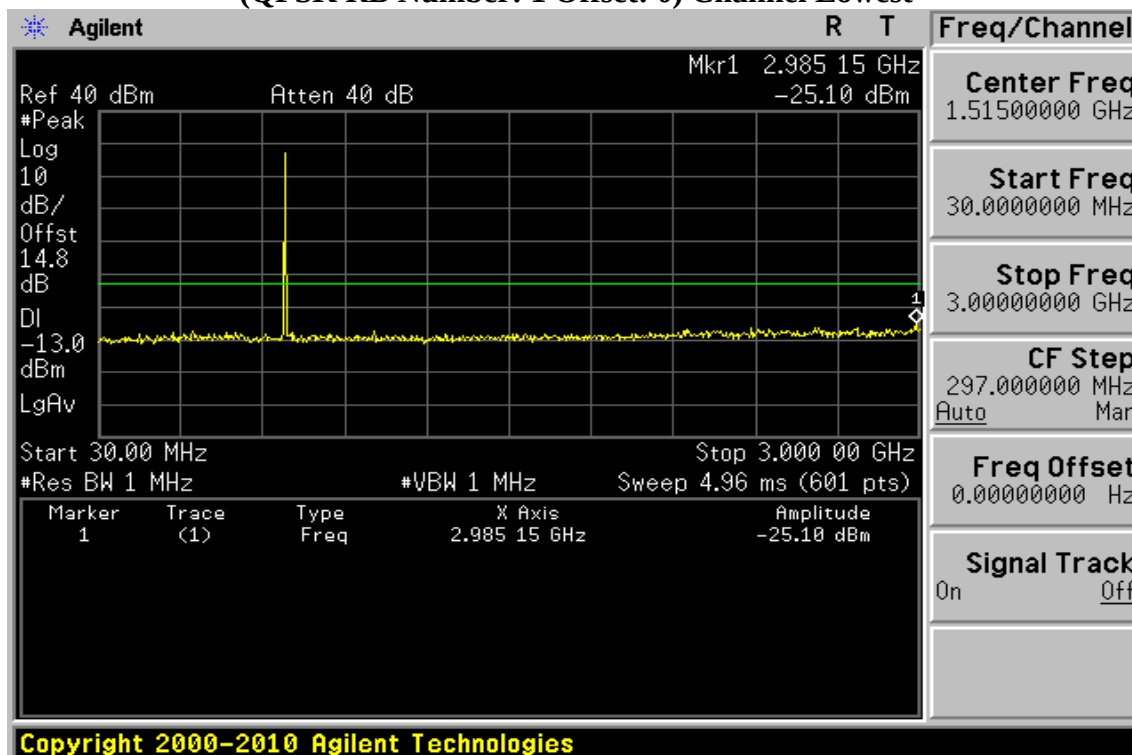
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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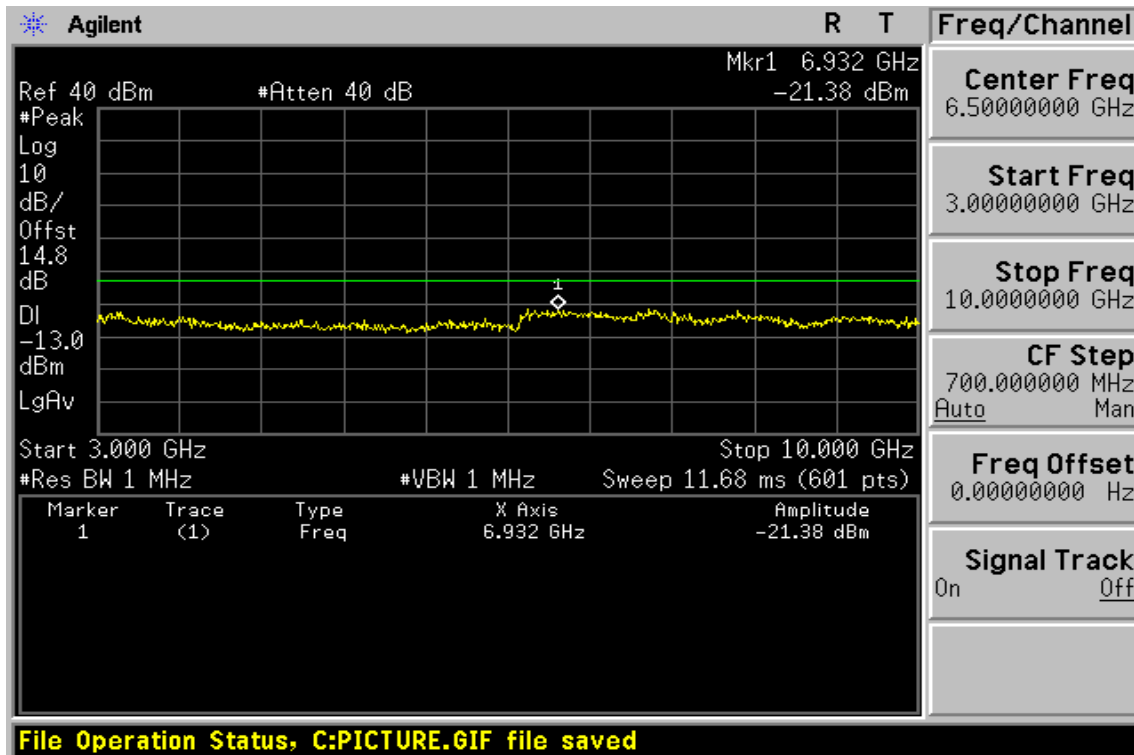
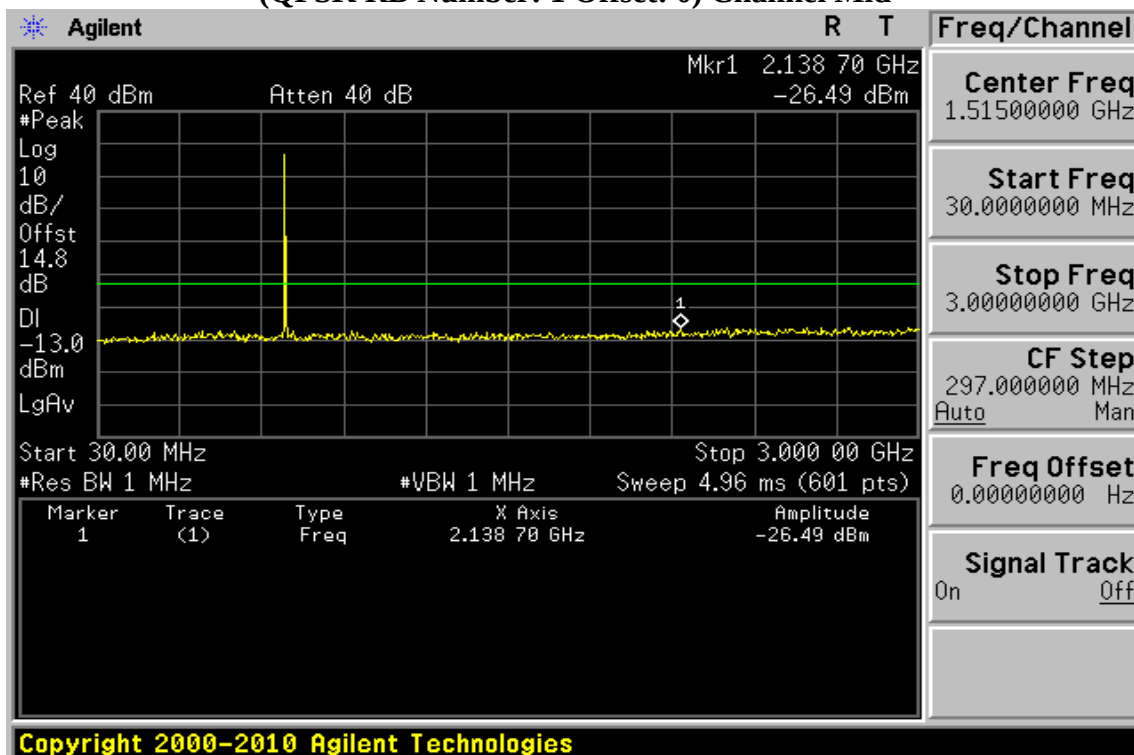
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid



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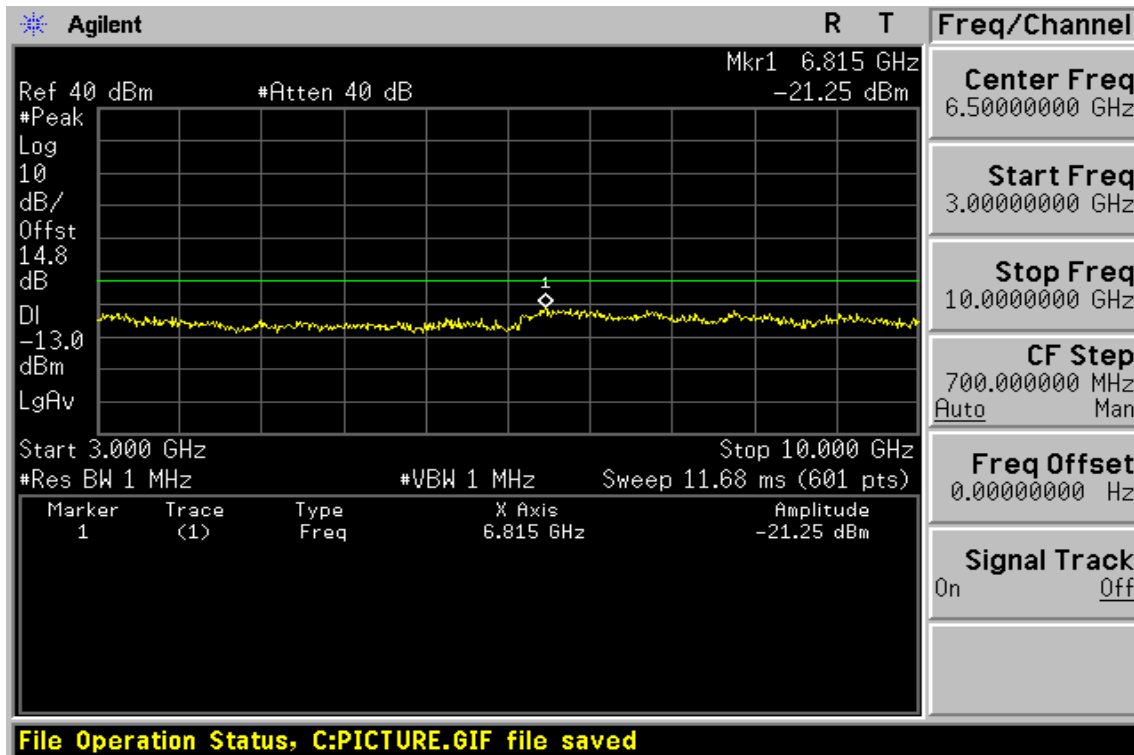
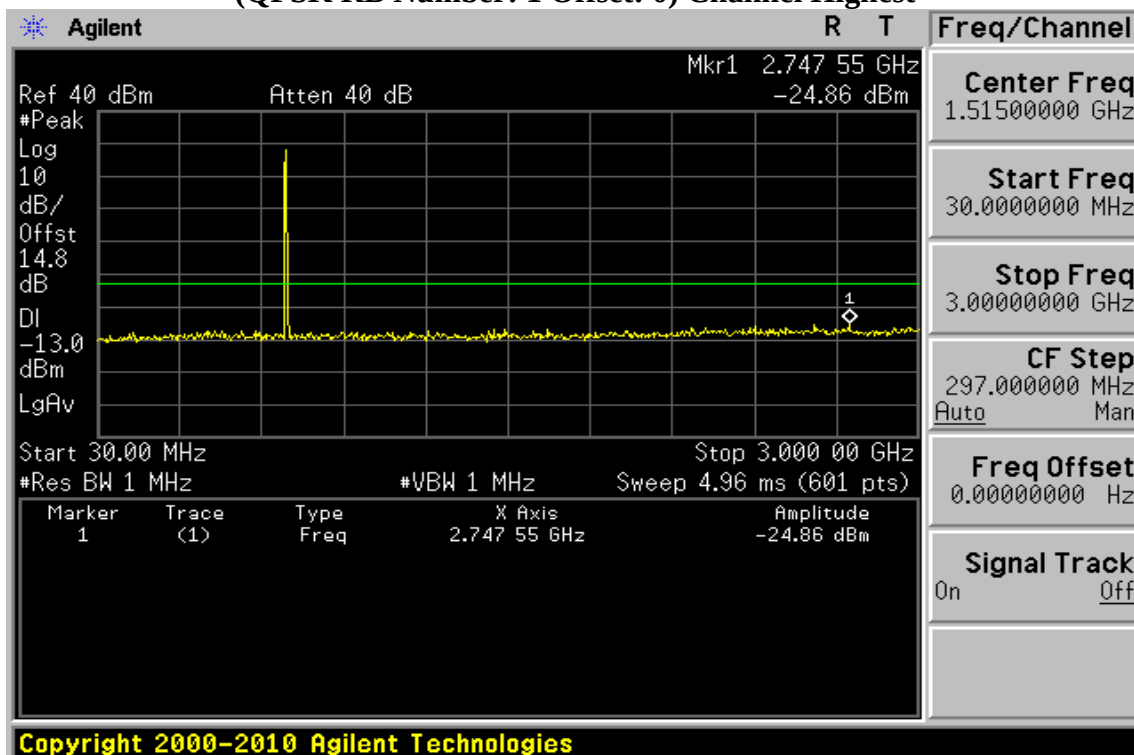
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Out of Band emission at antenna terminals-5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest



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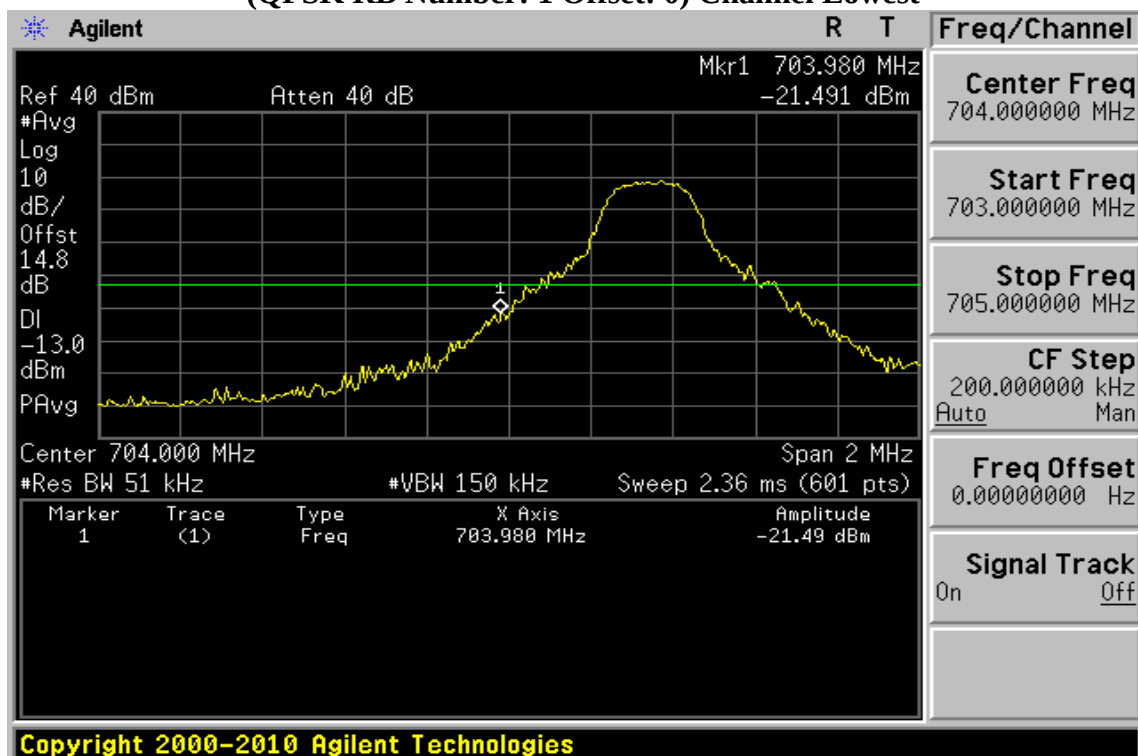
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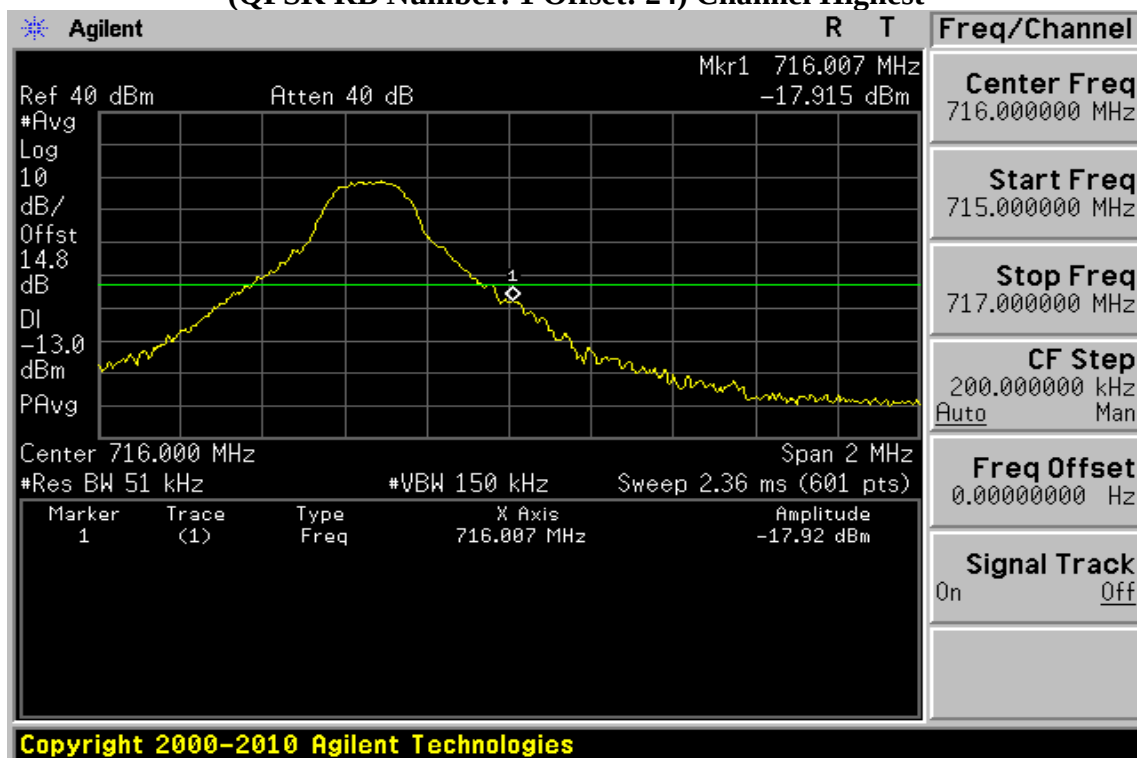
Band edge emission at antenna terminals –5MHz BW LTE-Band 17

(QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 17

(QPSK RB Number: 1 Offset: 24) Channel Highest



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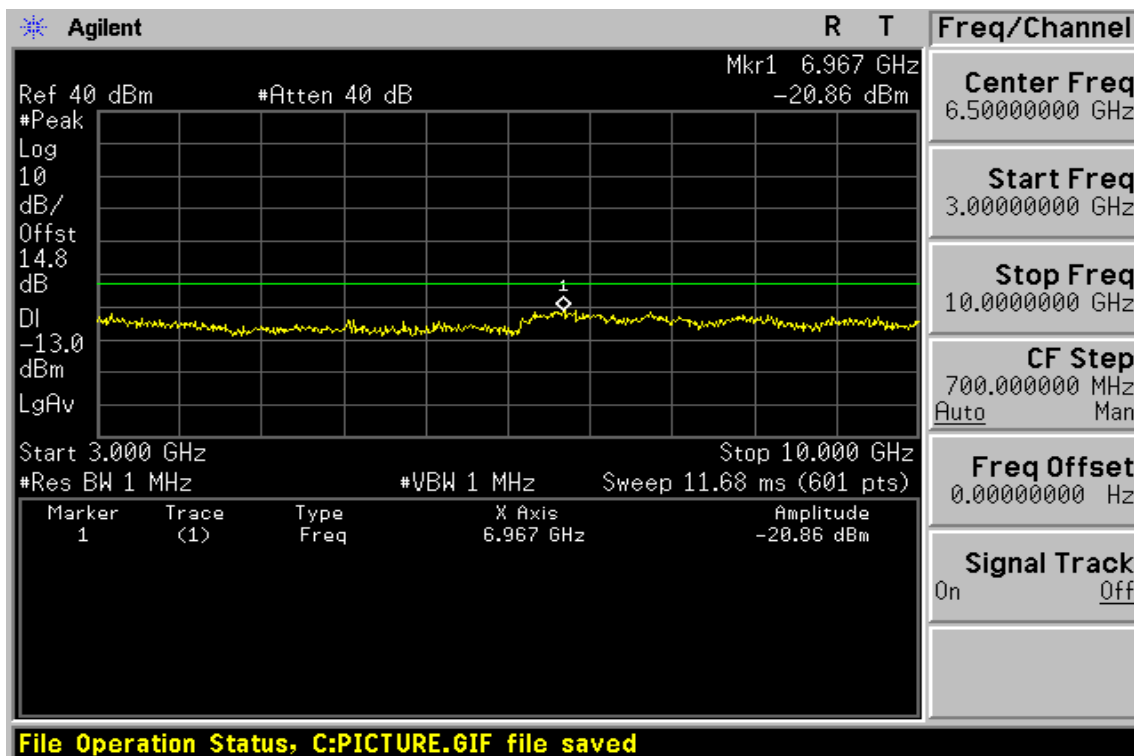
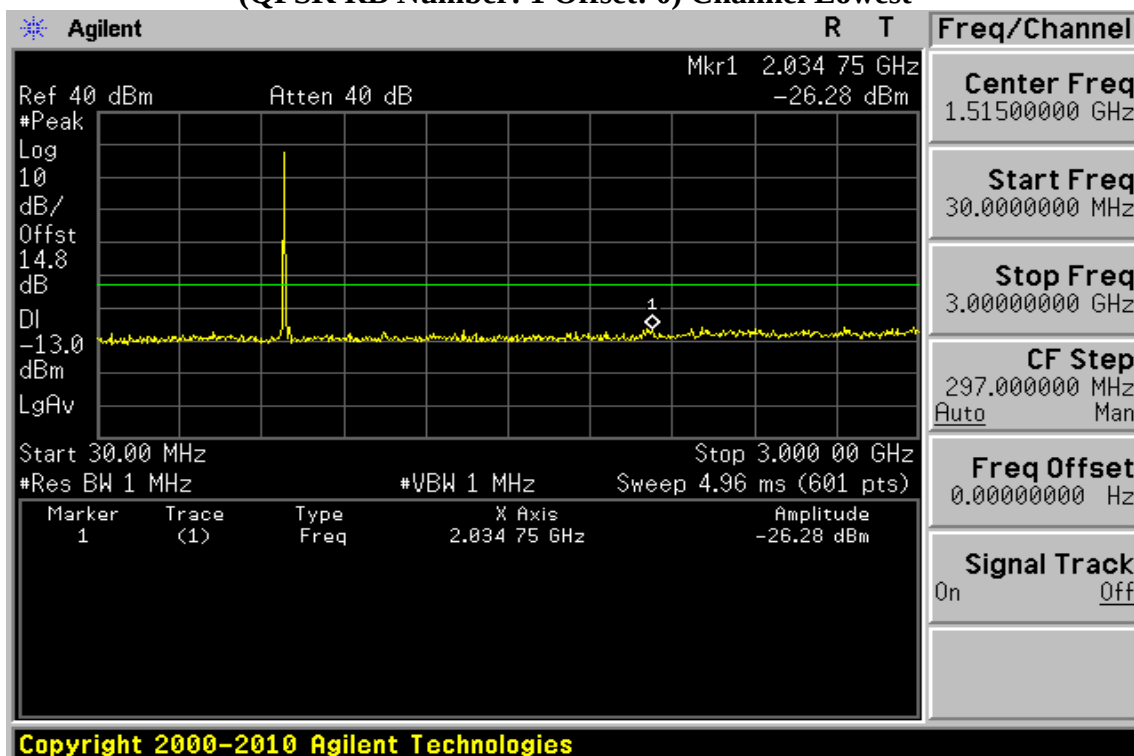
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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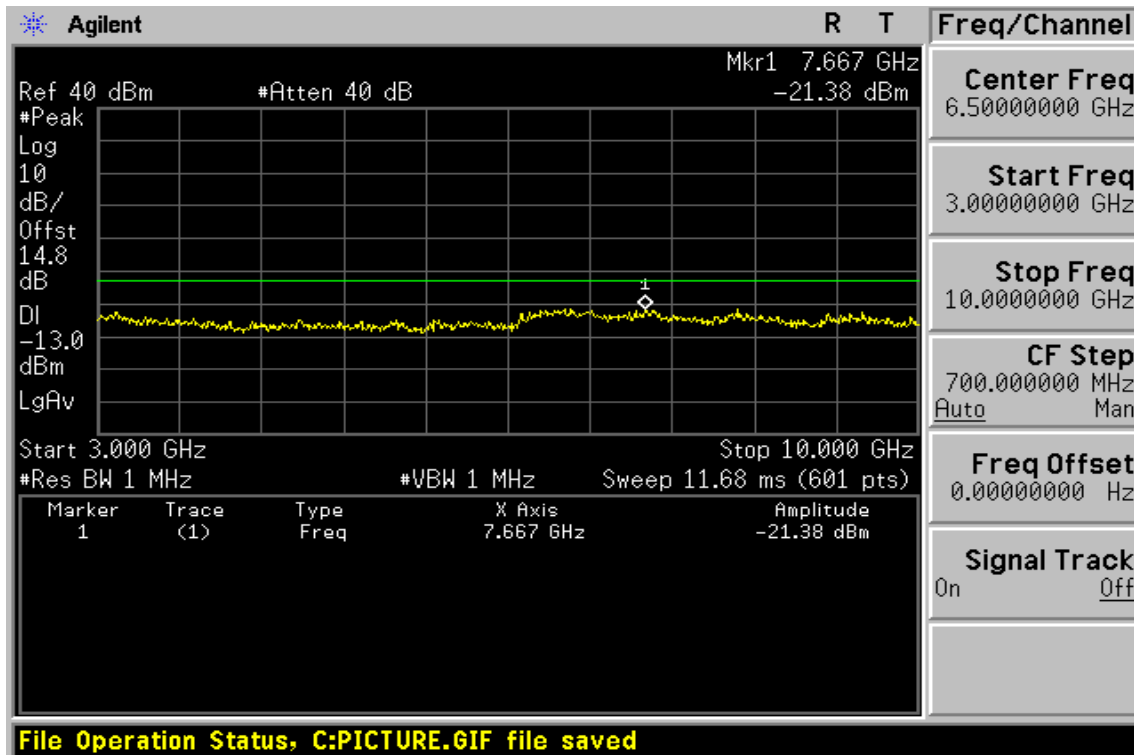
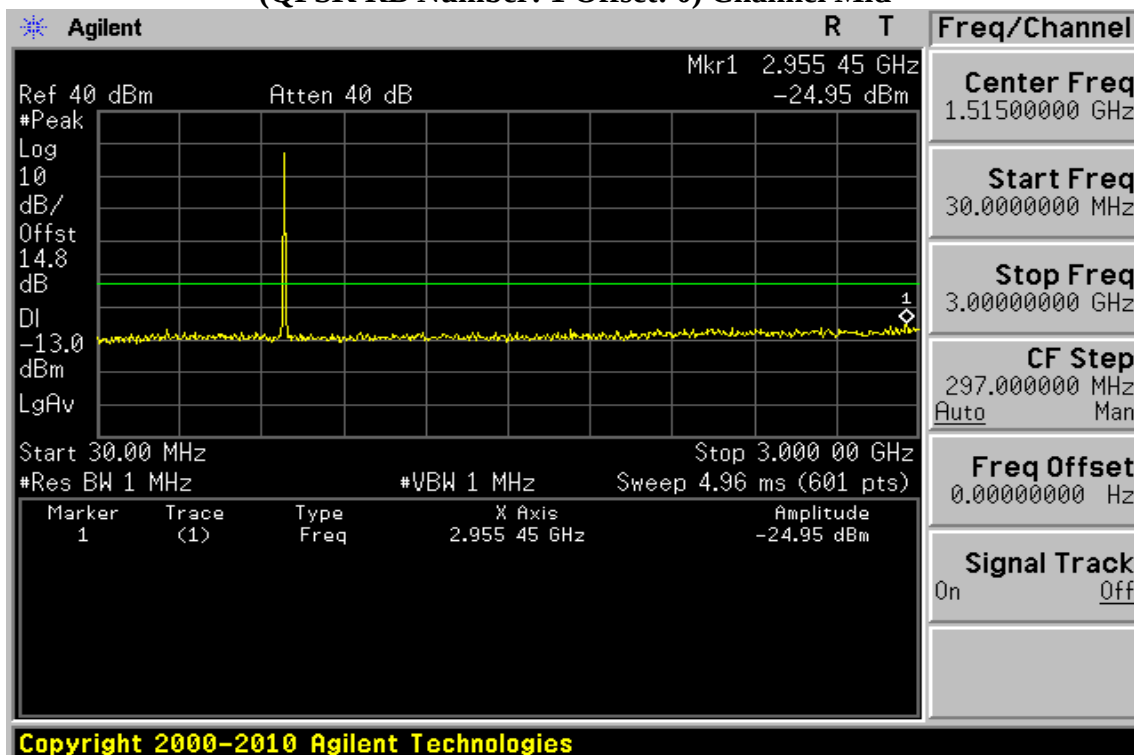
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid



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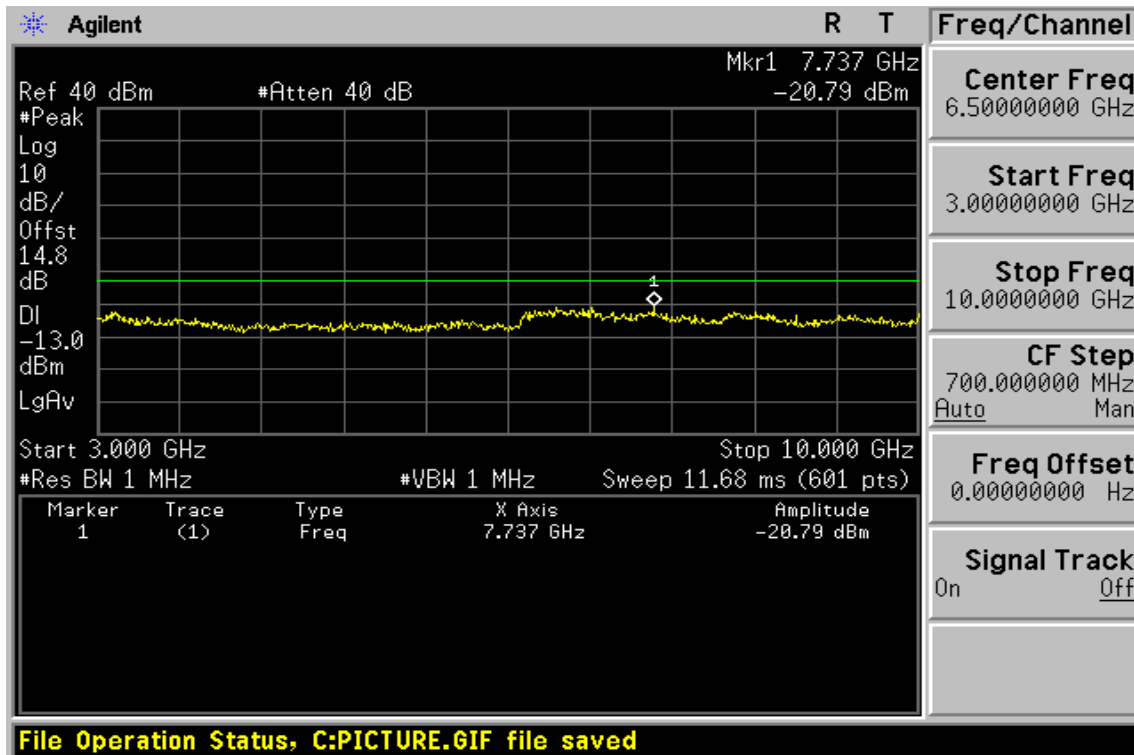
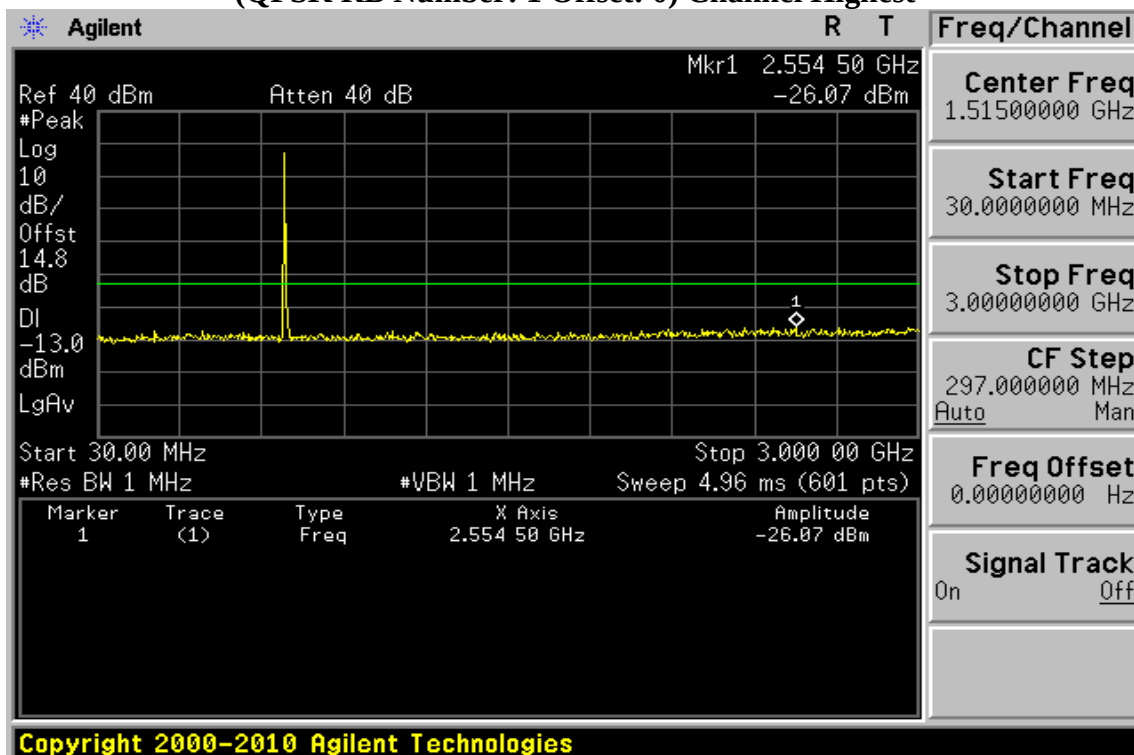
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest



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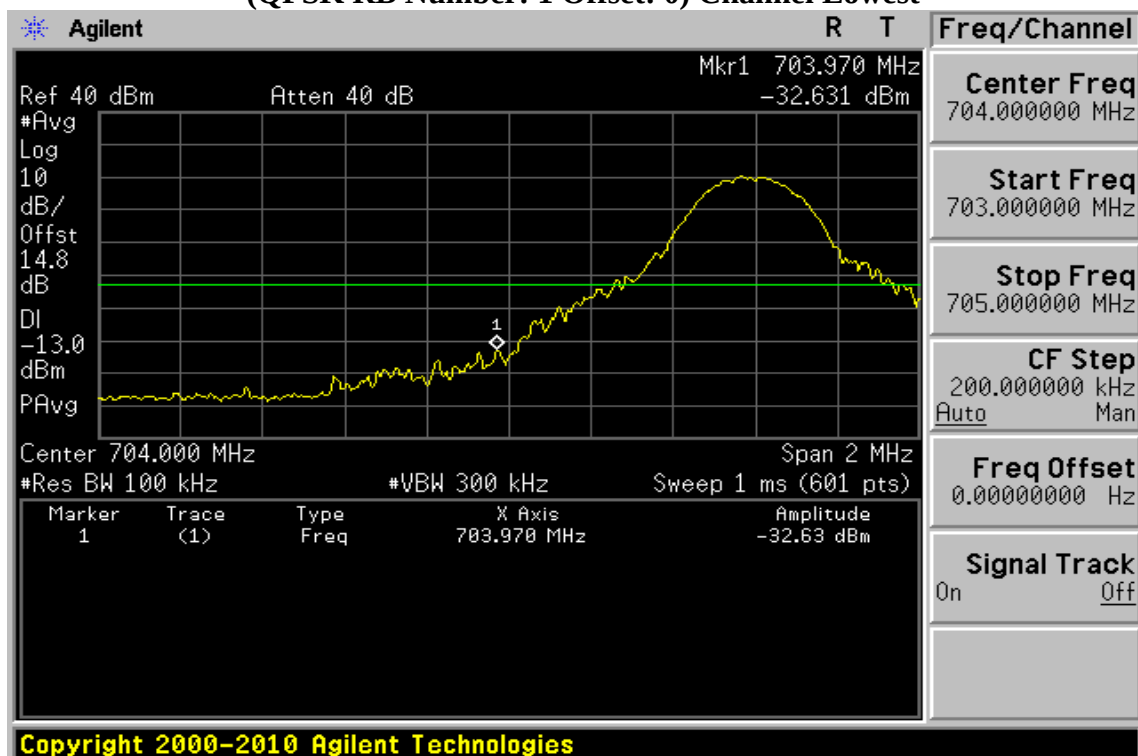
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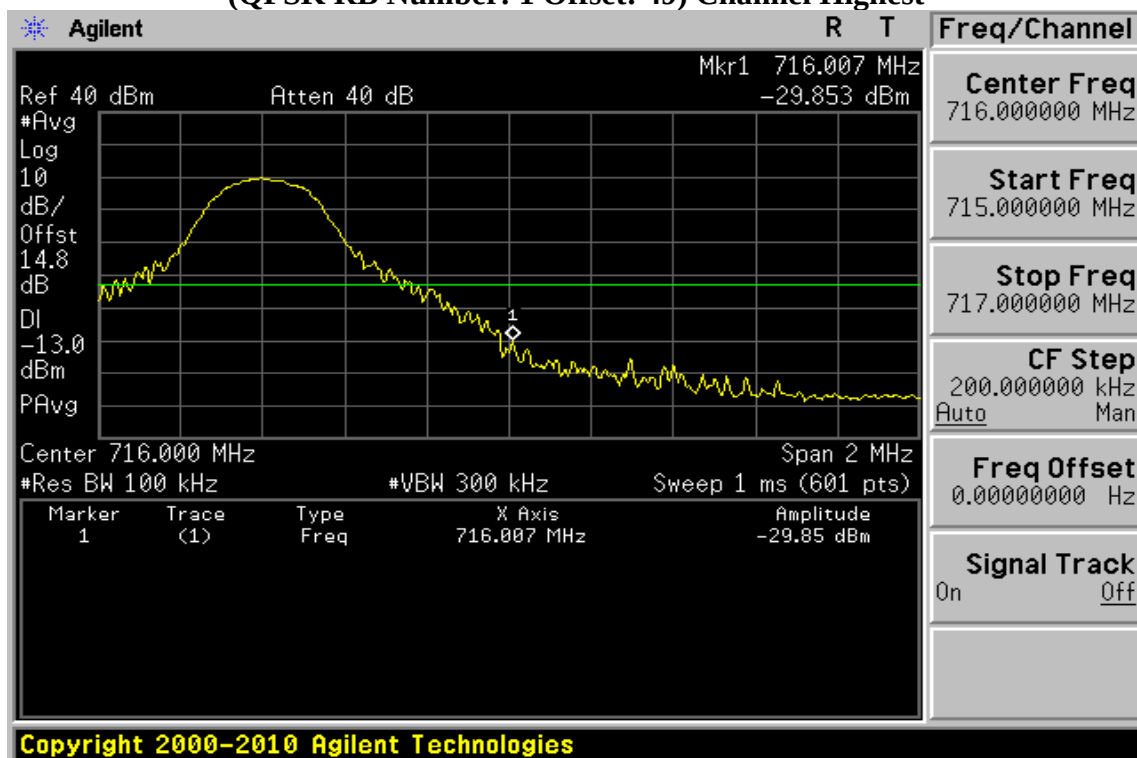
Band edge emission at antenna terminals –10MHz BW LTE-Band 17

(QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 17

(QPSK RB Number: 1 Offset: 49) Channel Highest



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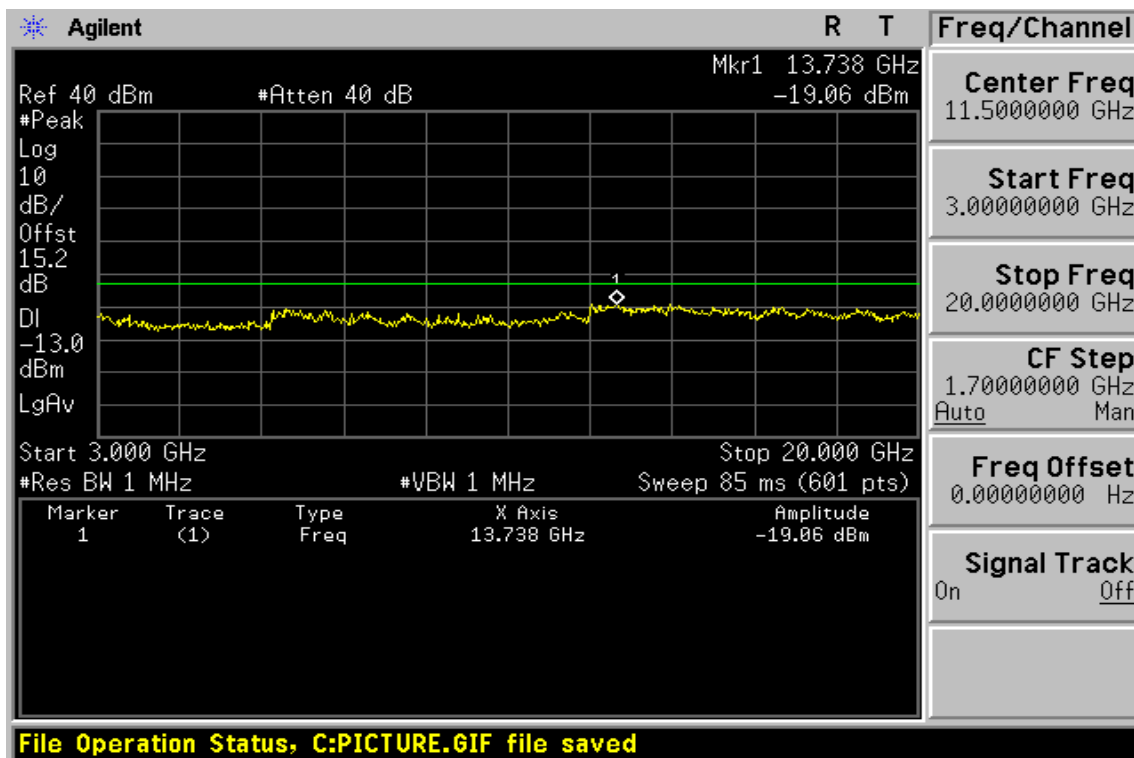
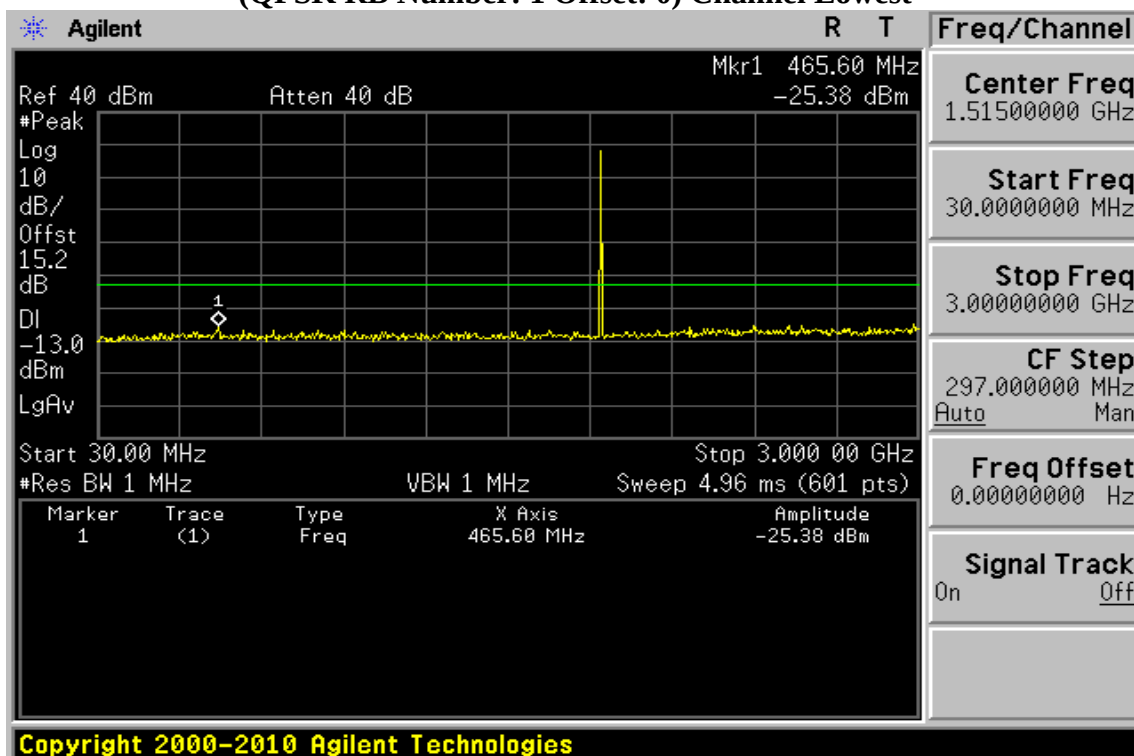
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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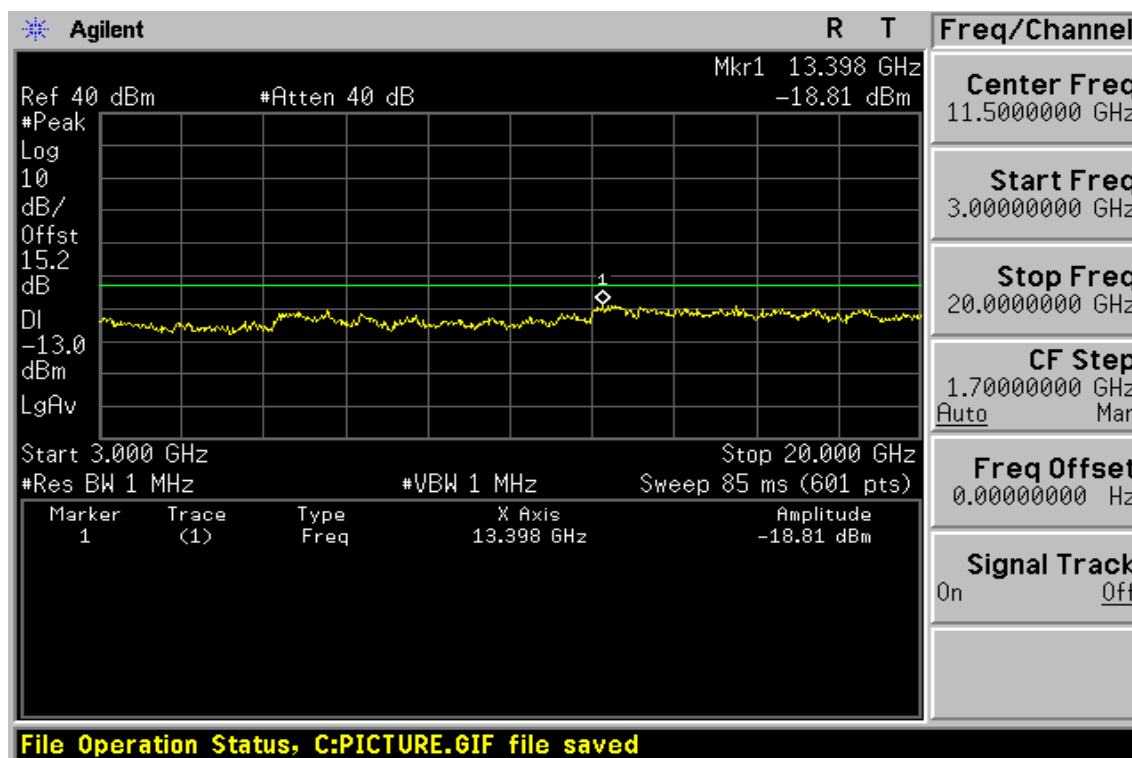
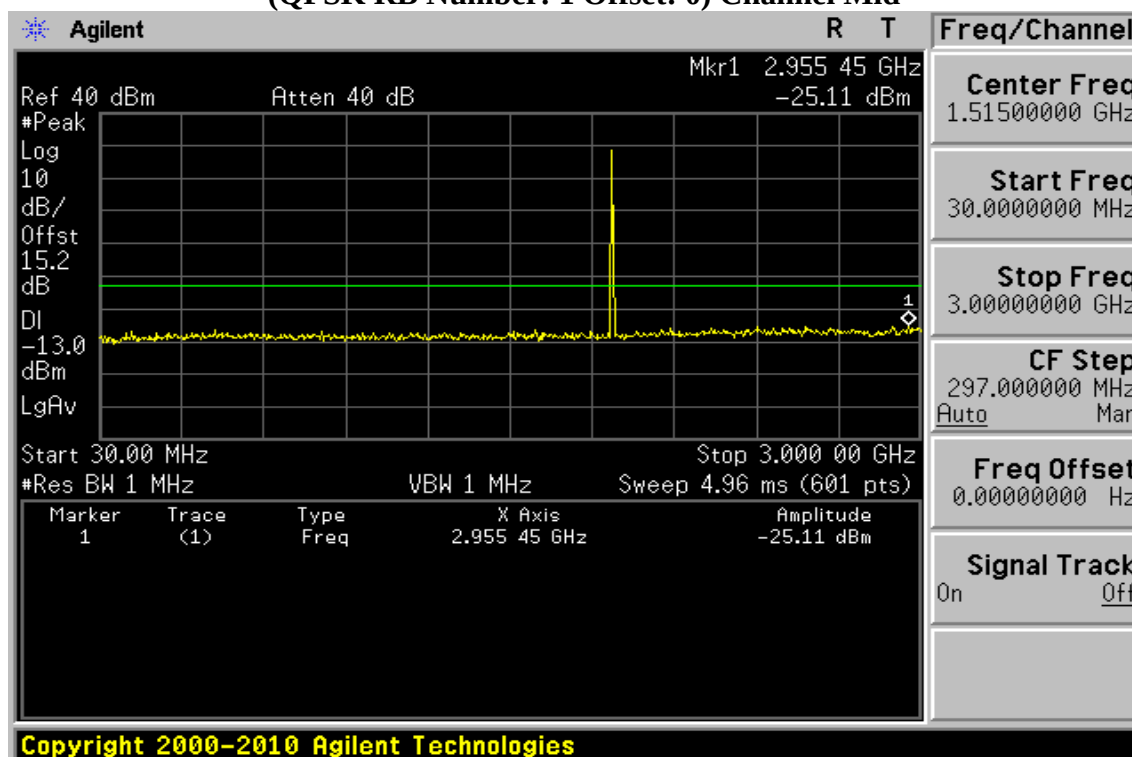
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Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



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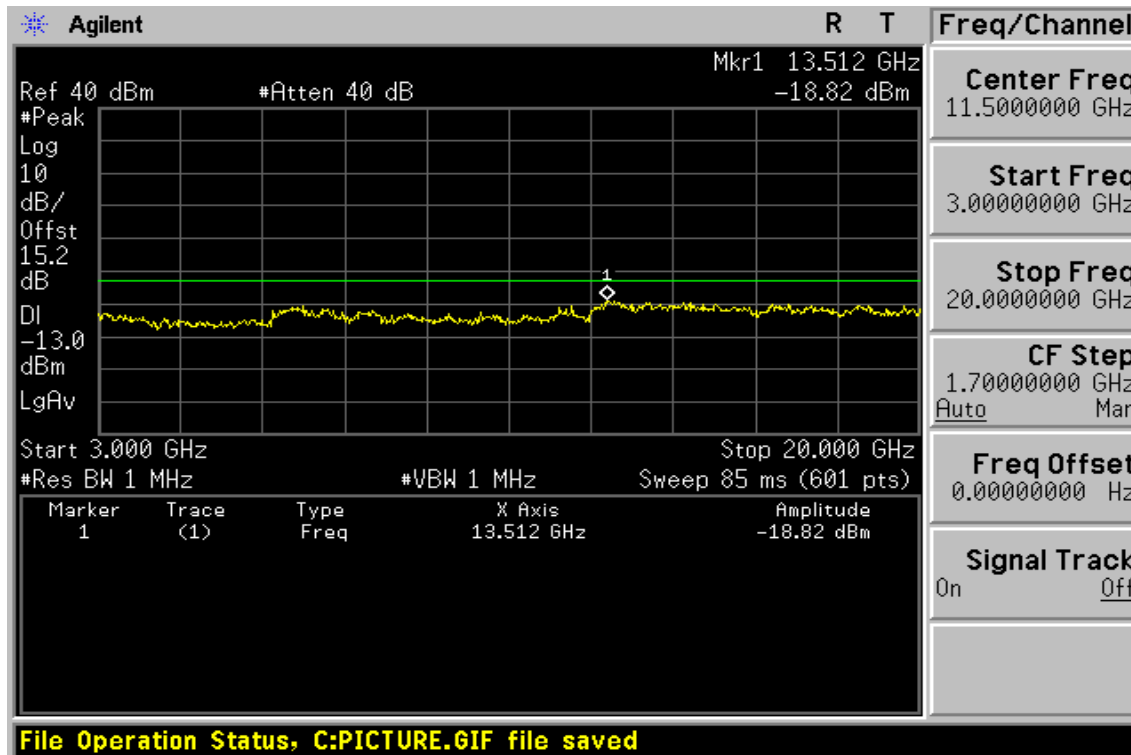
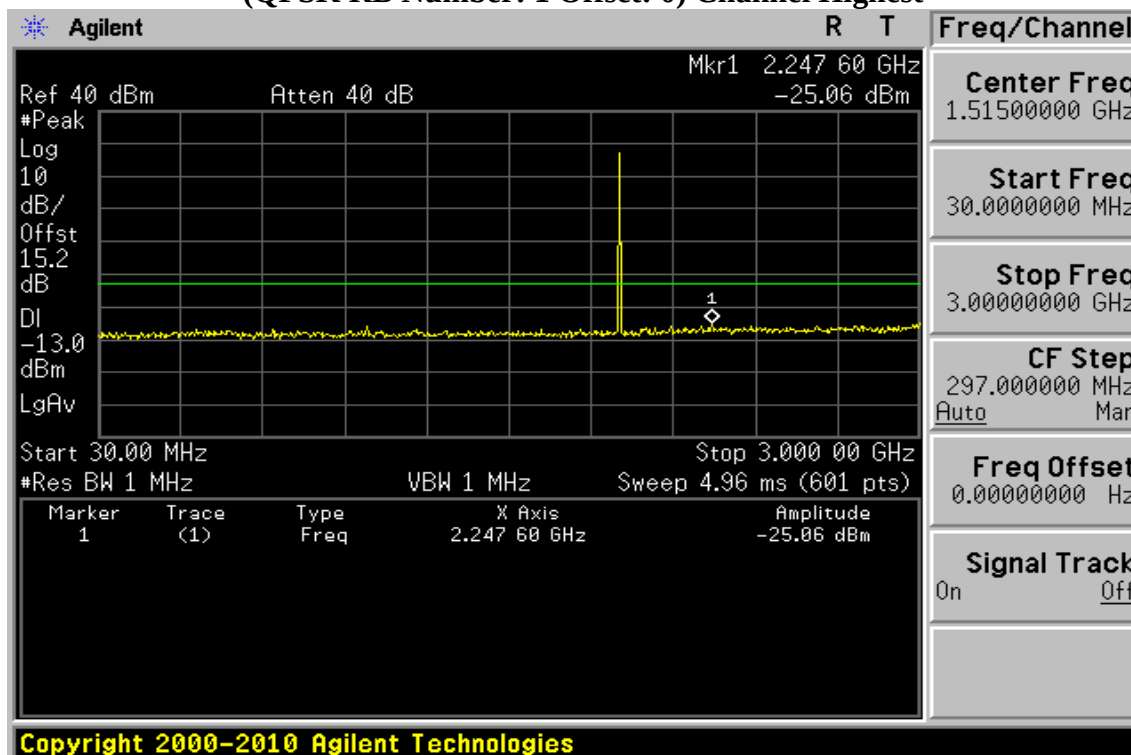
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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



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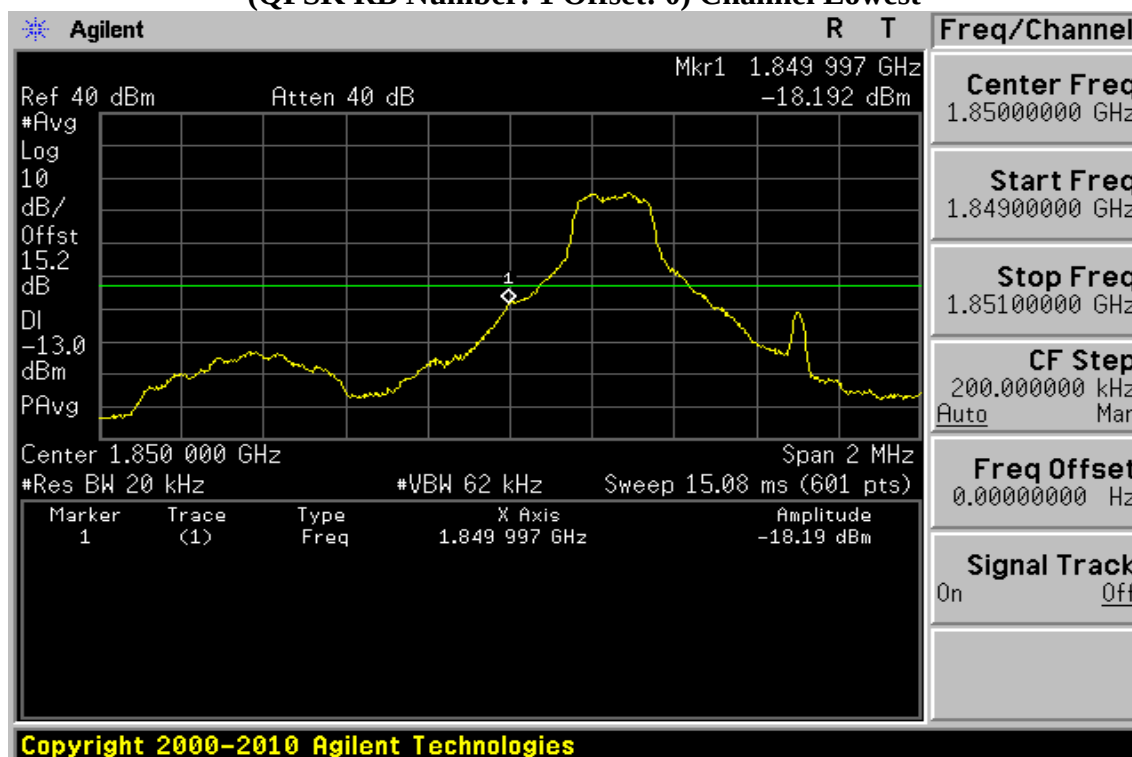
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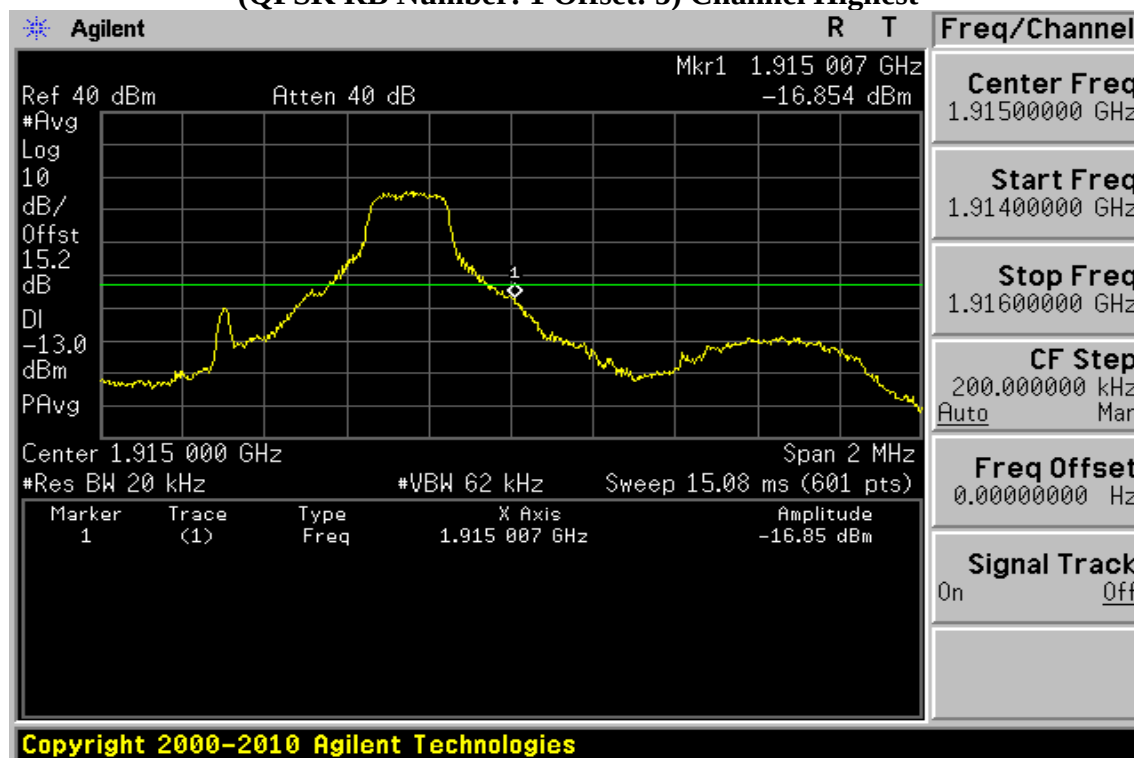
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Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 5) Channel Highest



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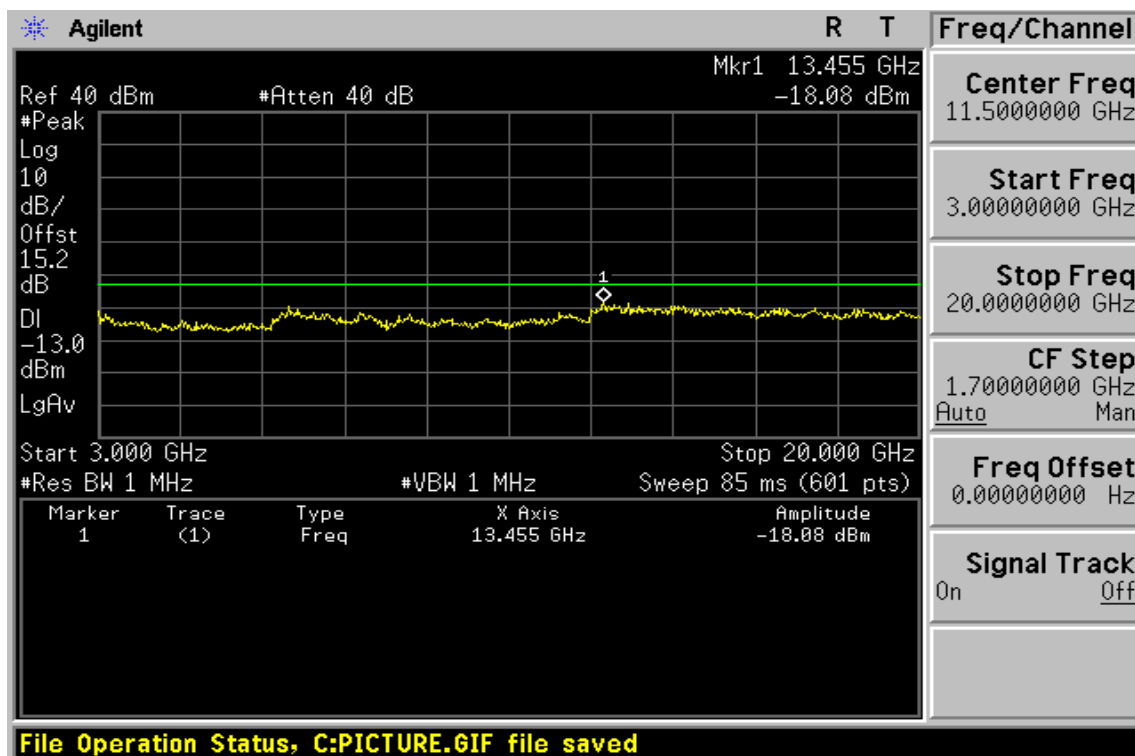
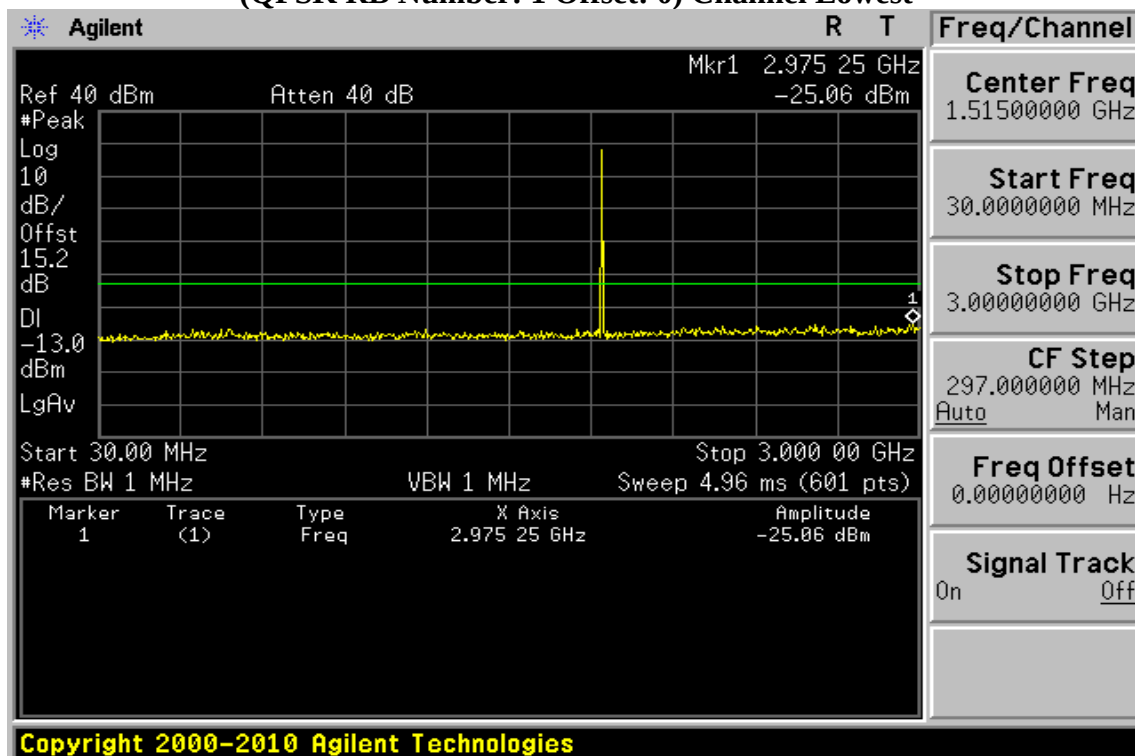
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 25

(QPSK RB Number: 1 Offset: 0) Channel Lowest



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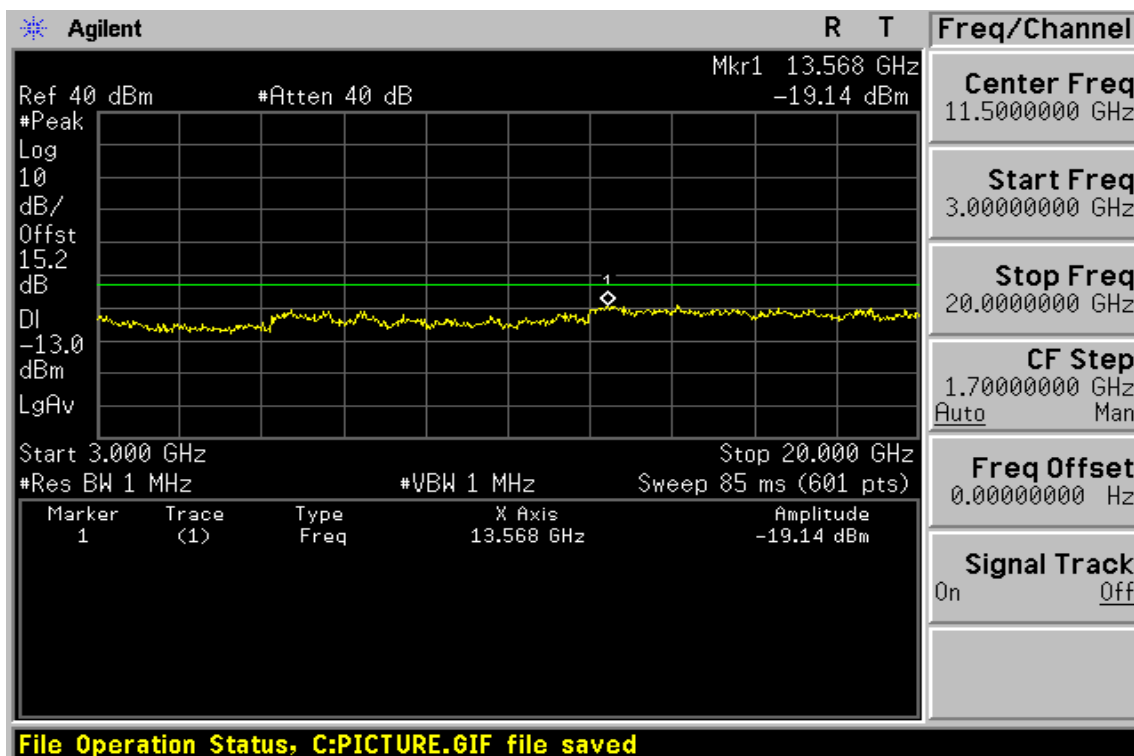
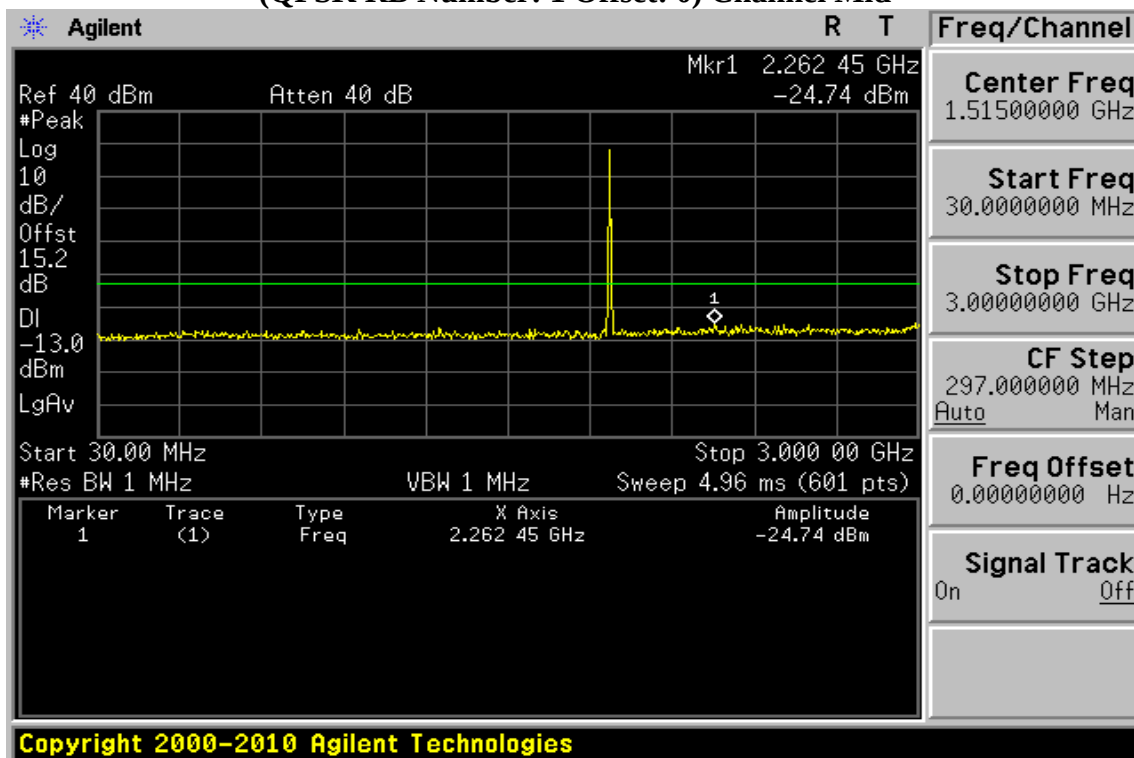
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



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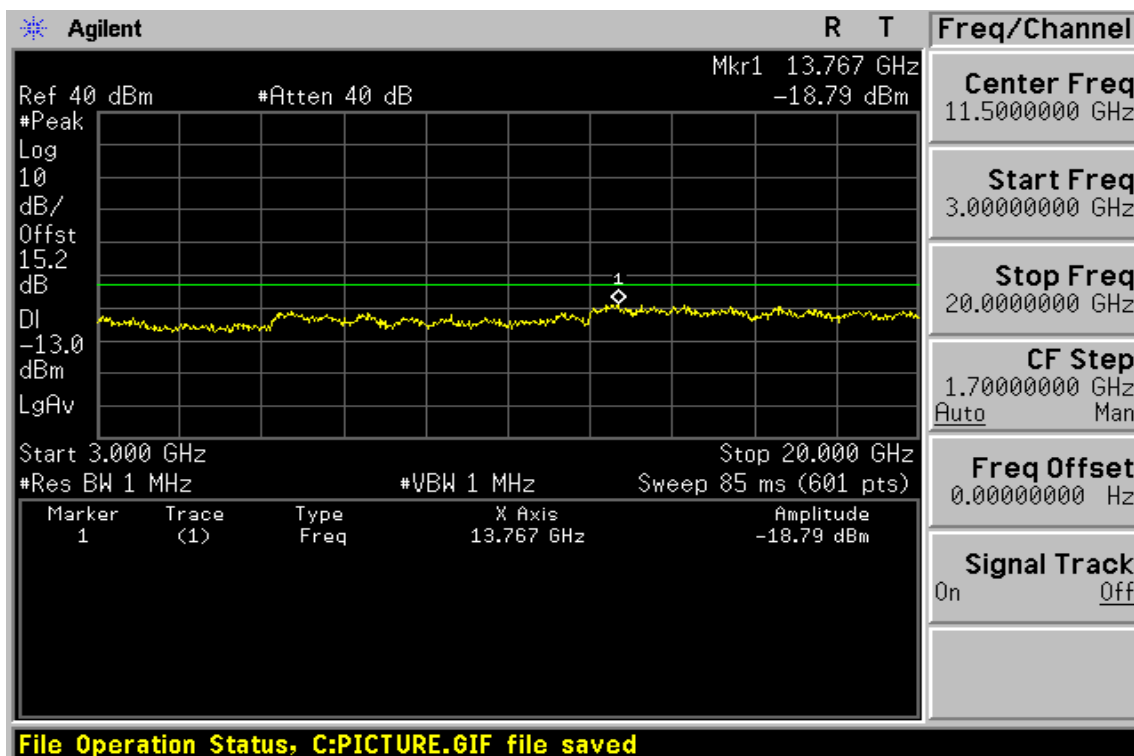
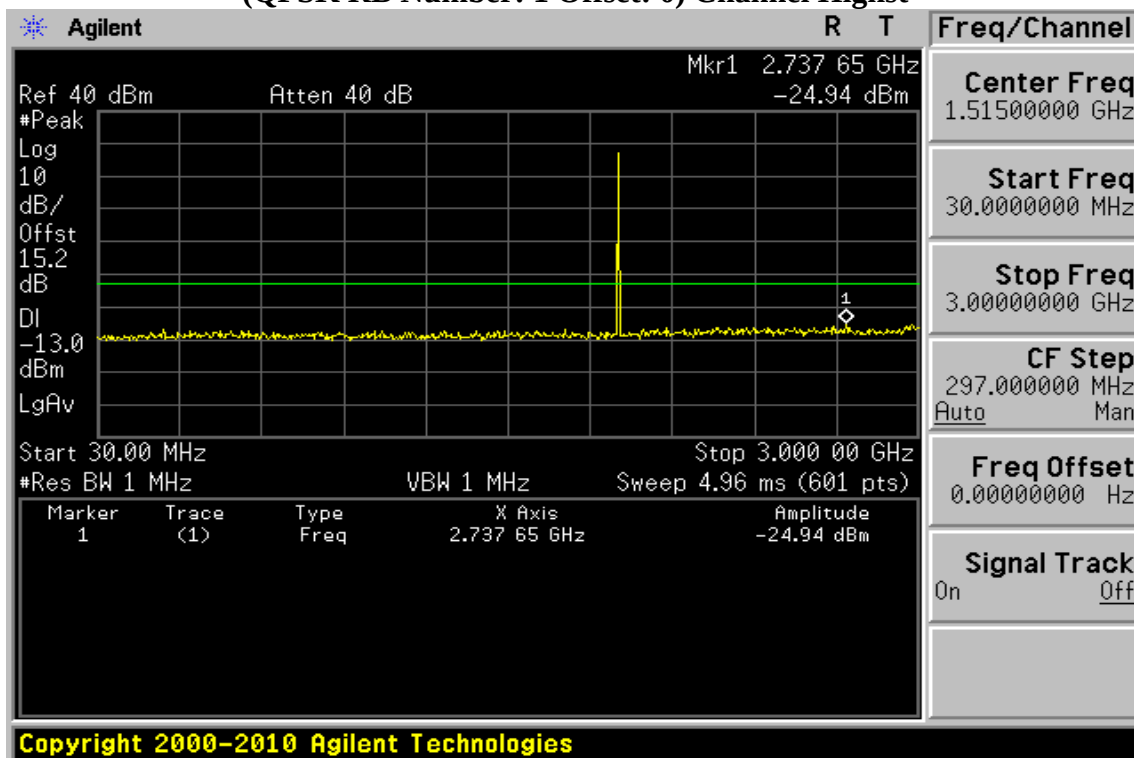
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Out of Band emission at antenna terminals–3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



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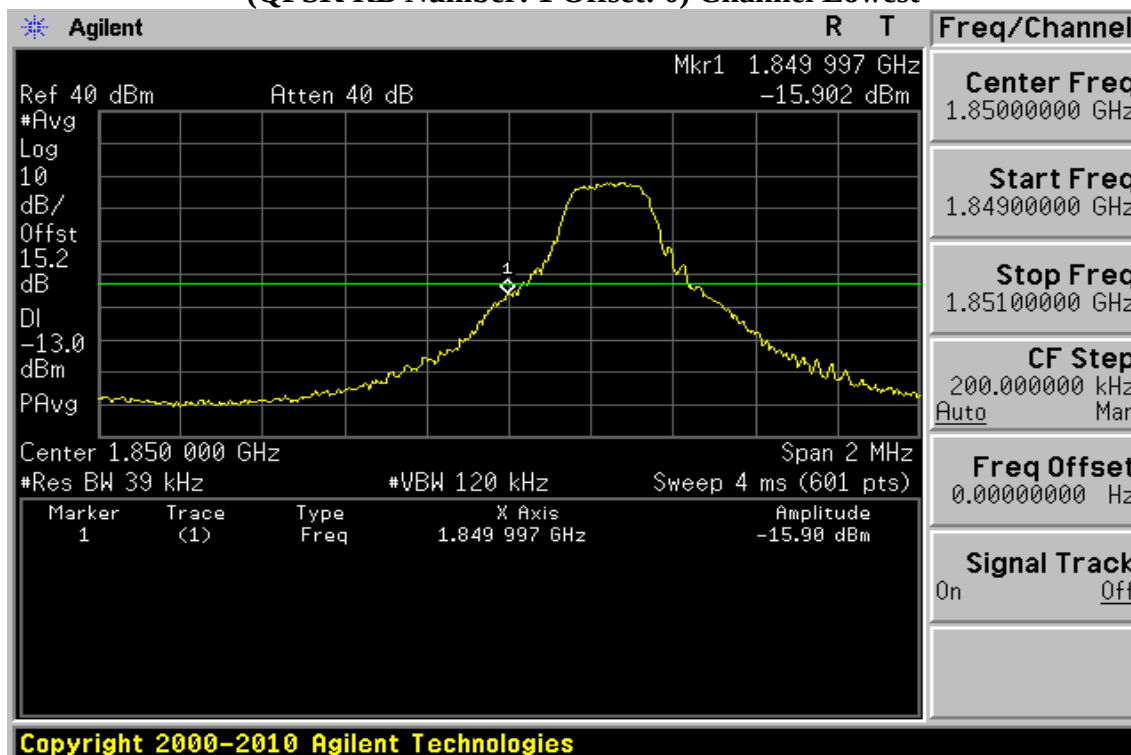
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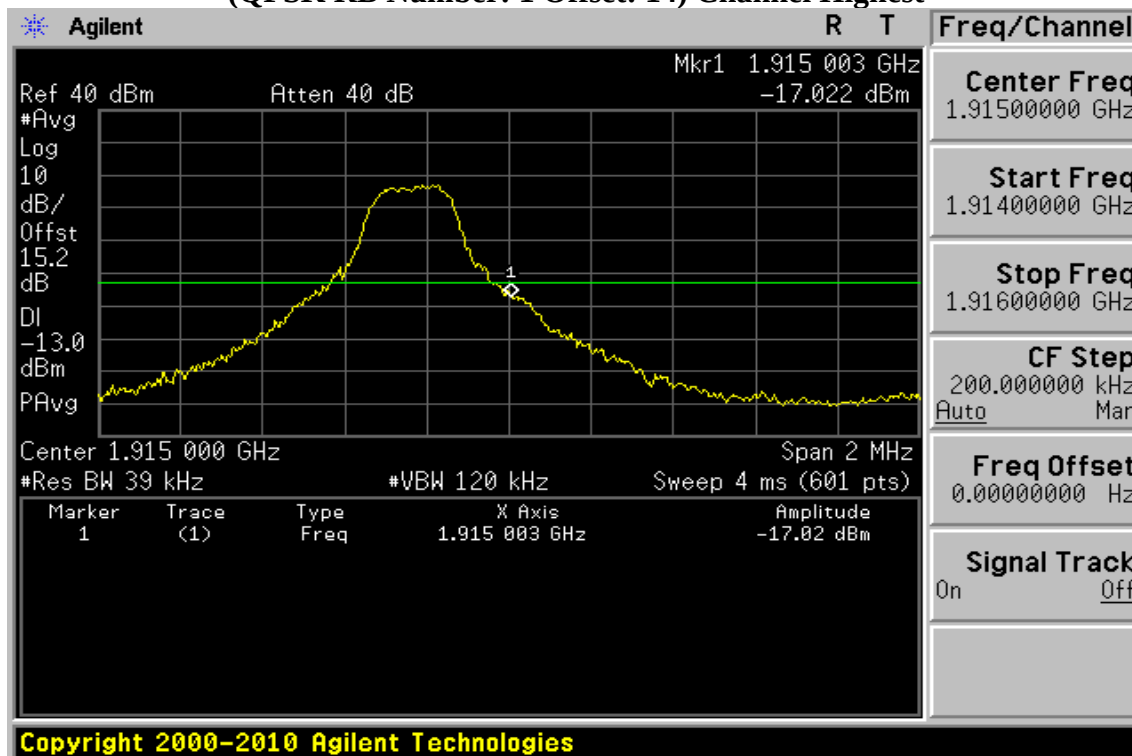
Band edge emission at antenna terminals –3MHz BW LTE-Band 25

(QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –3MHz BW LTE-Band 25

(QPSK RB Number: 1 Offset: 14) Channel Highest



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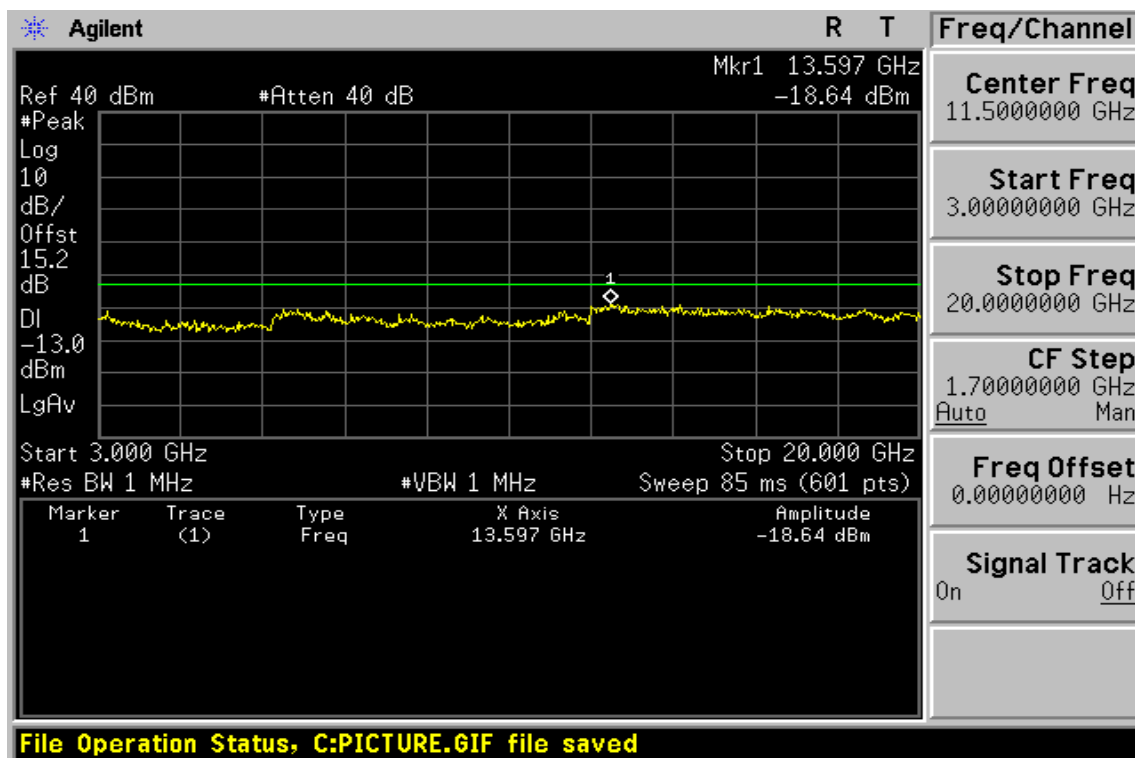
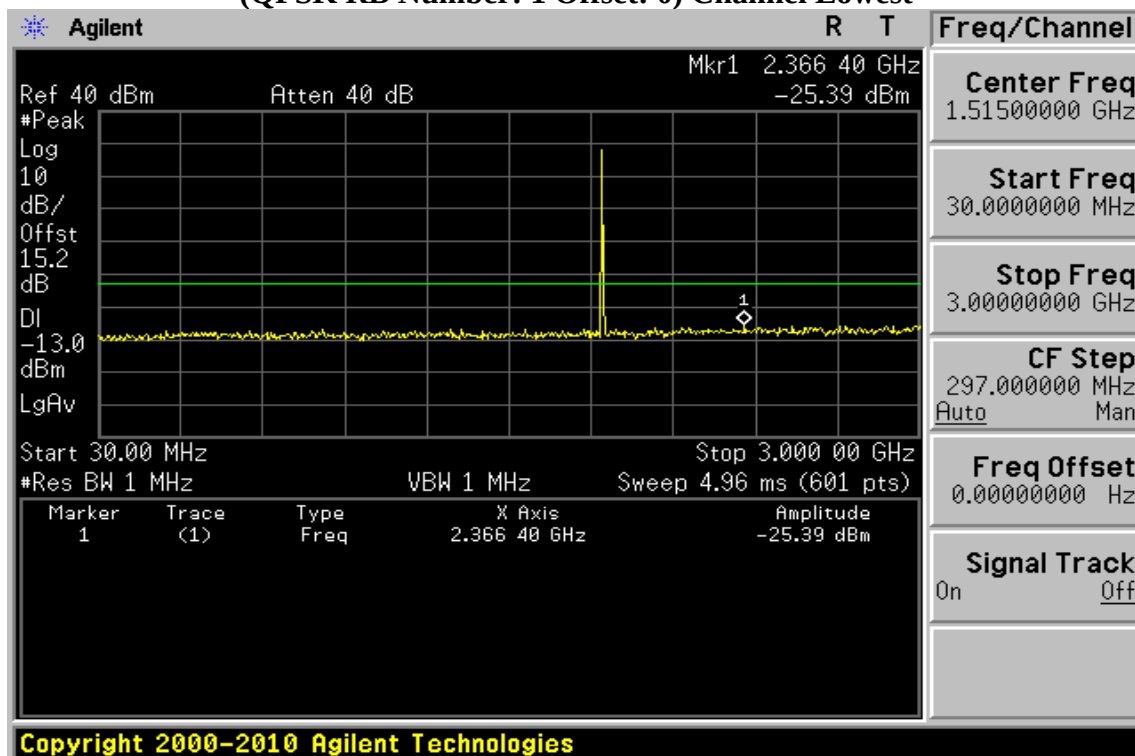
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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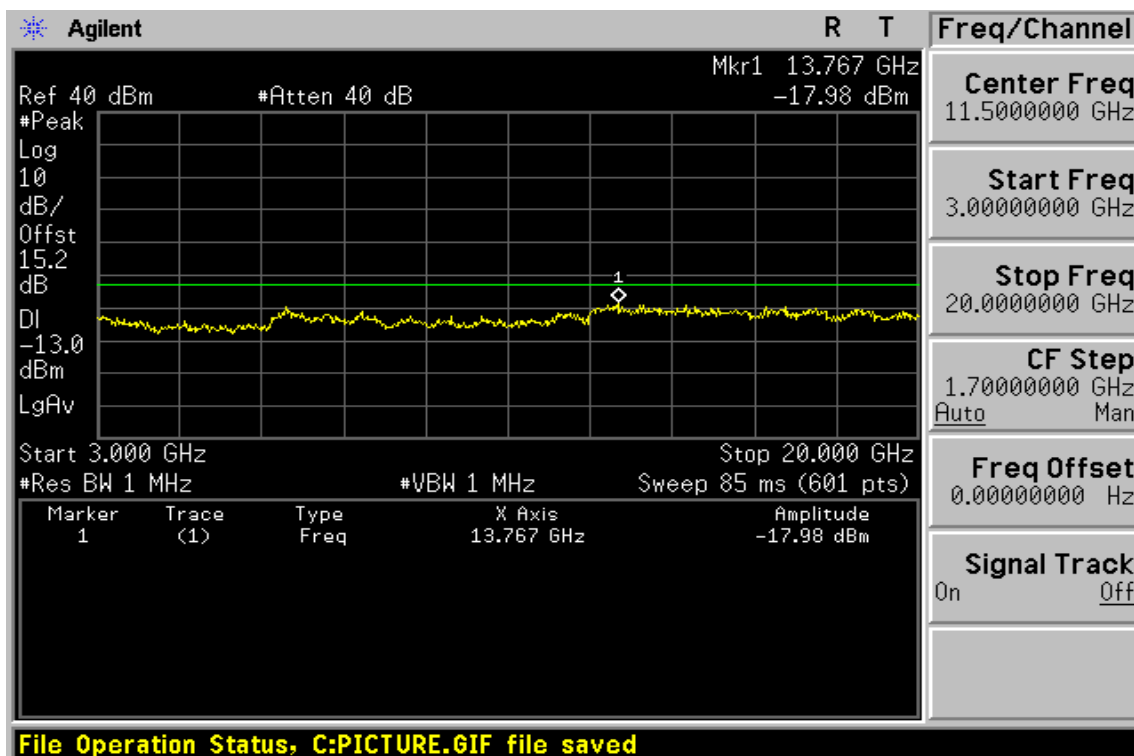
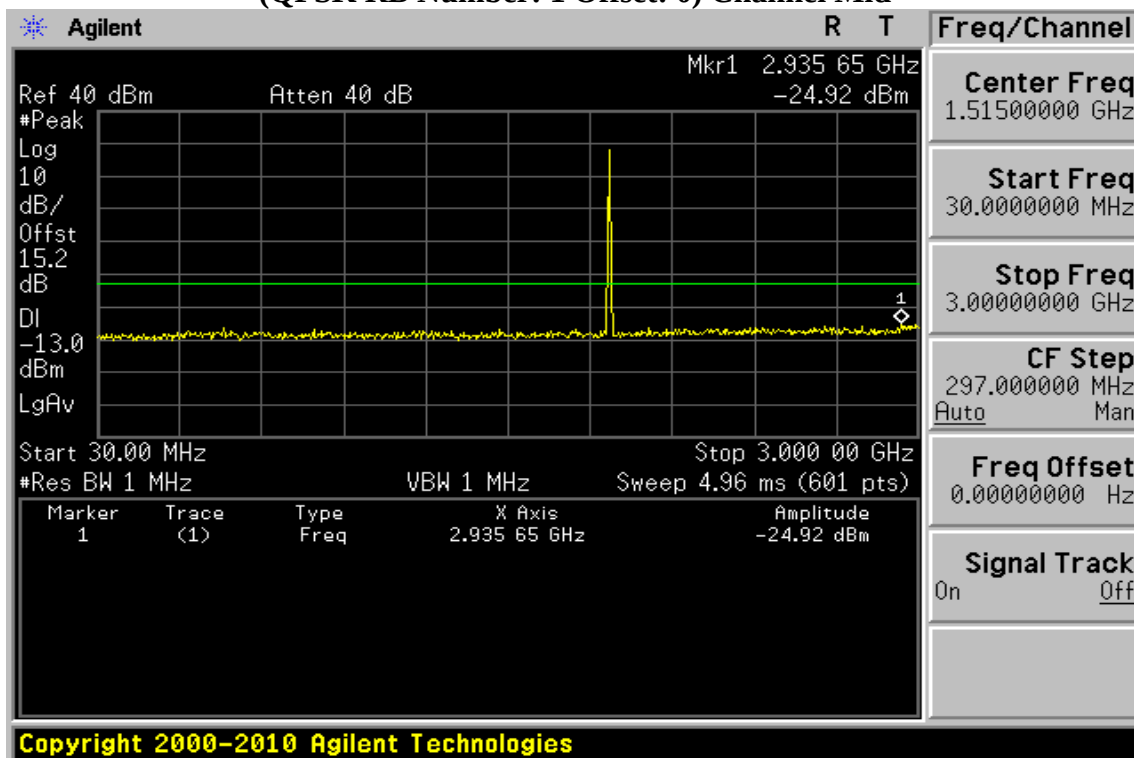
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



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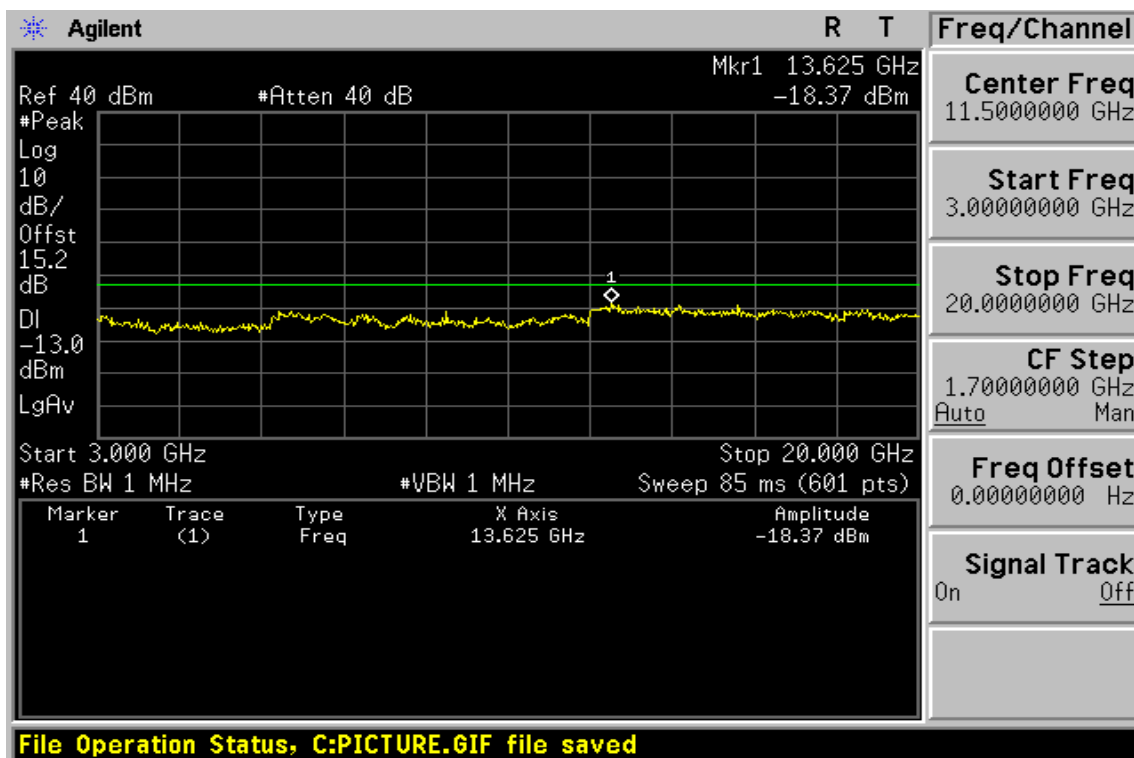
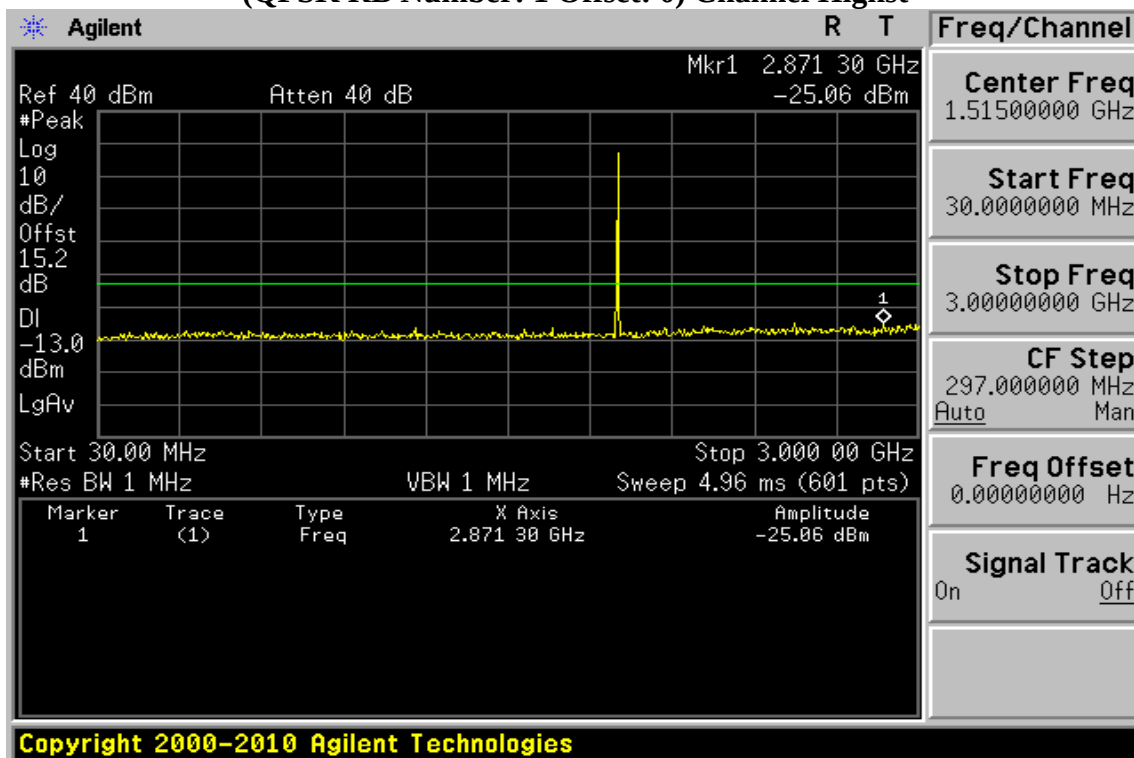
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Out of Band emission at antenna terminals–5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



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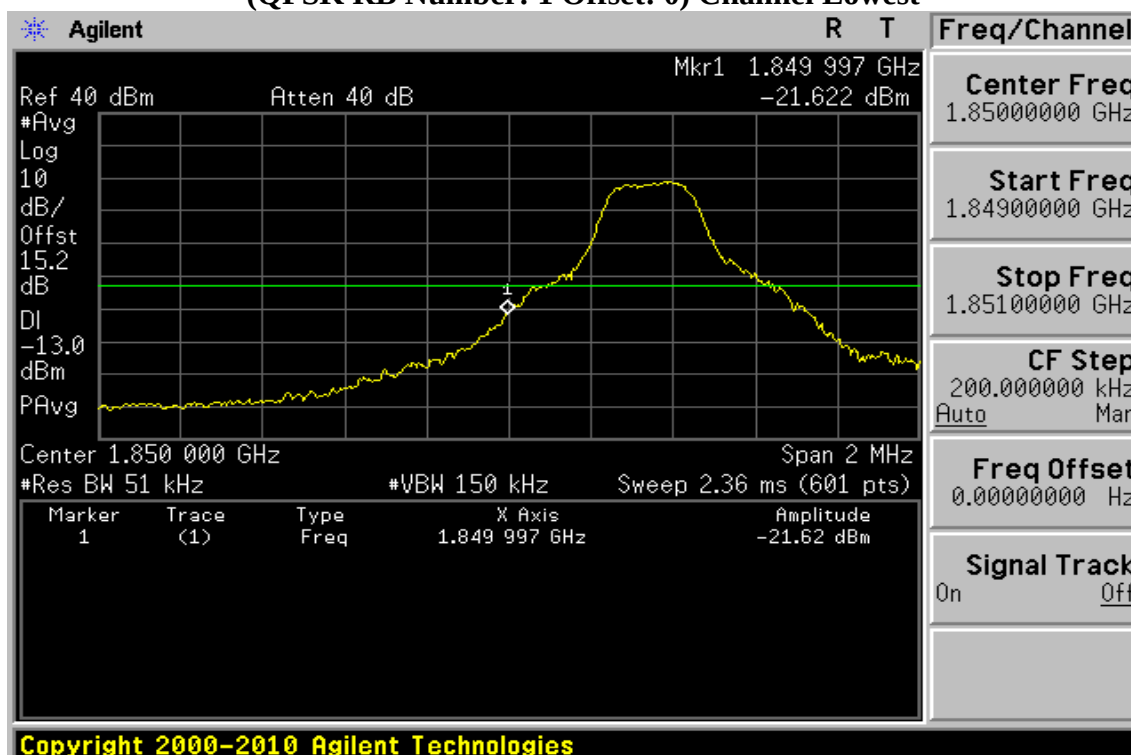
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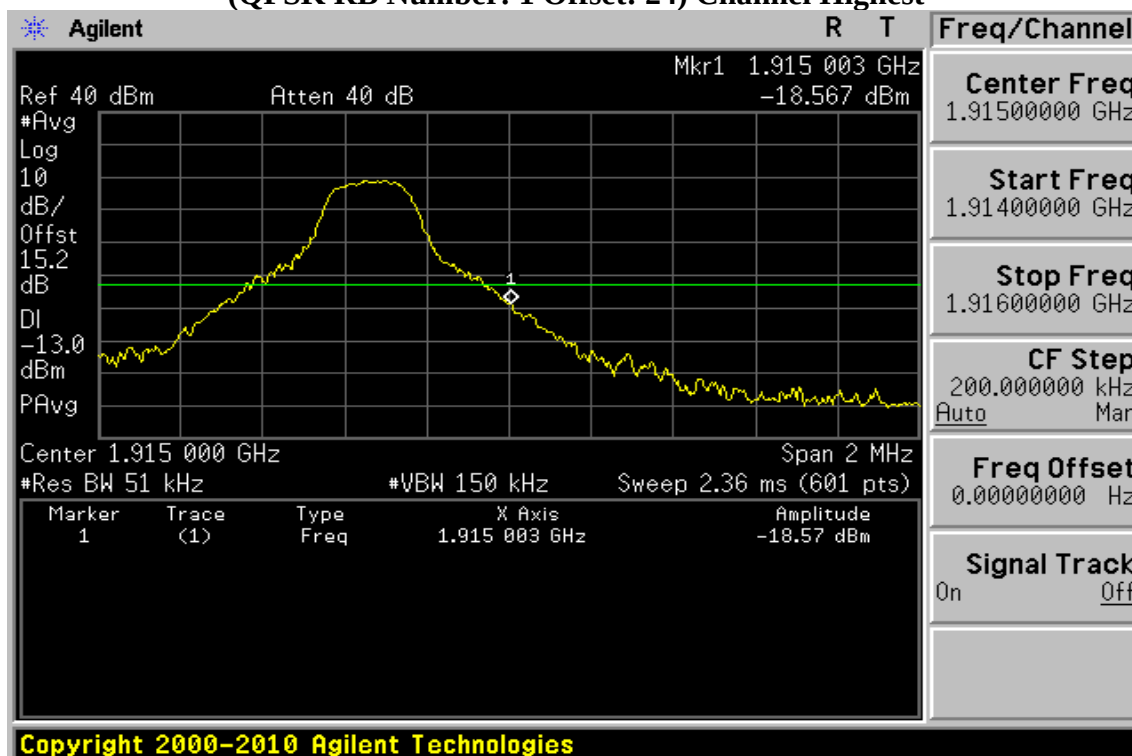
Band edge emission at antenna terminals –5MHz BW LTE-Band 25

(QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –5MHz BW LTE-Band 25

(QPSK RB Number: 1 Offset: 24) Channel Highest



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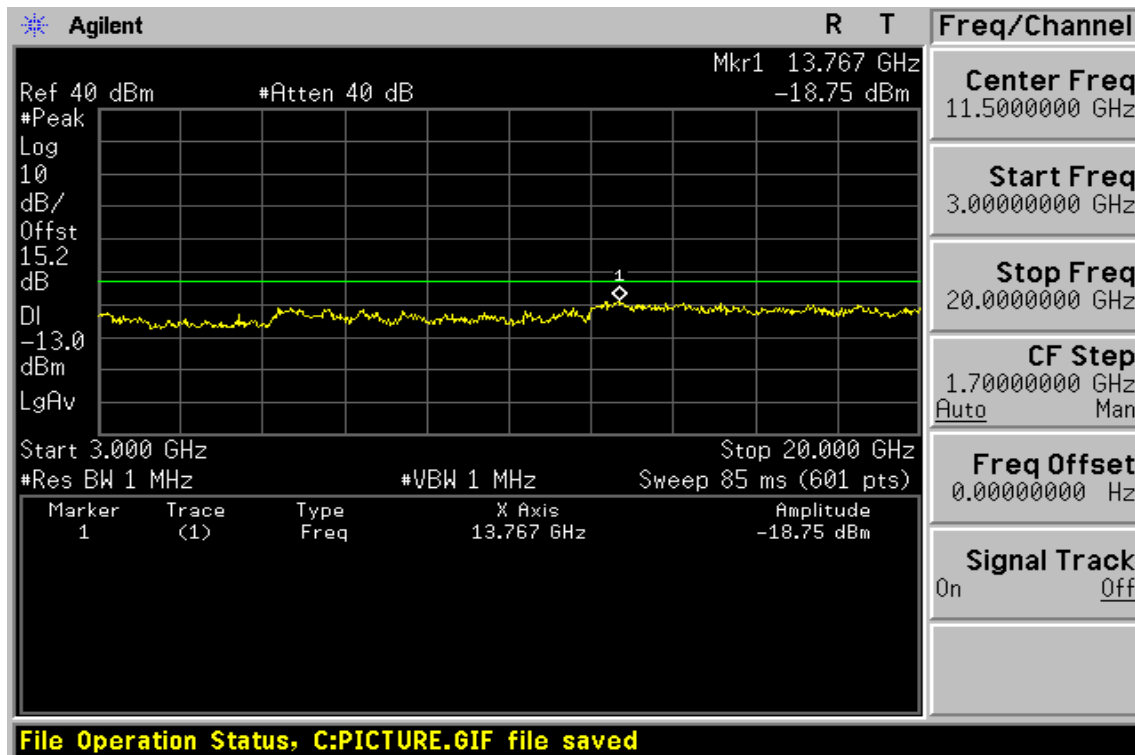
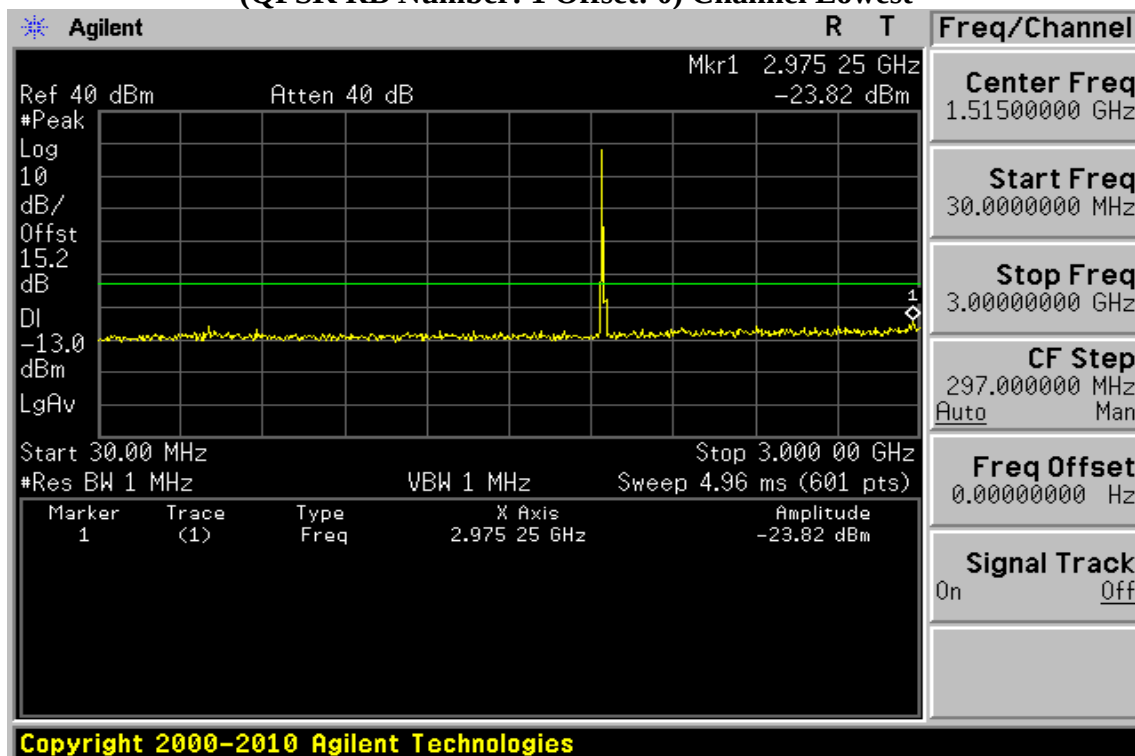
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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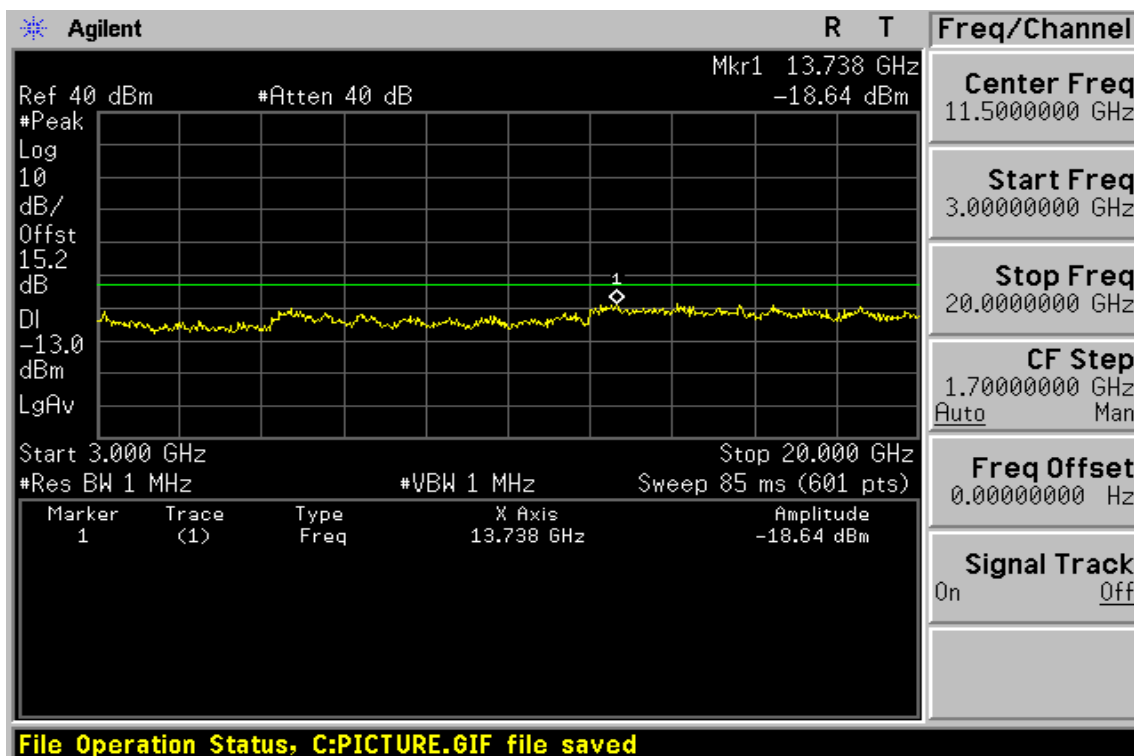
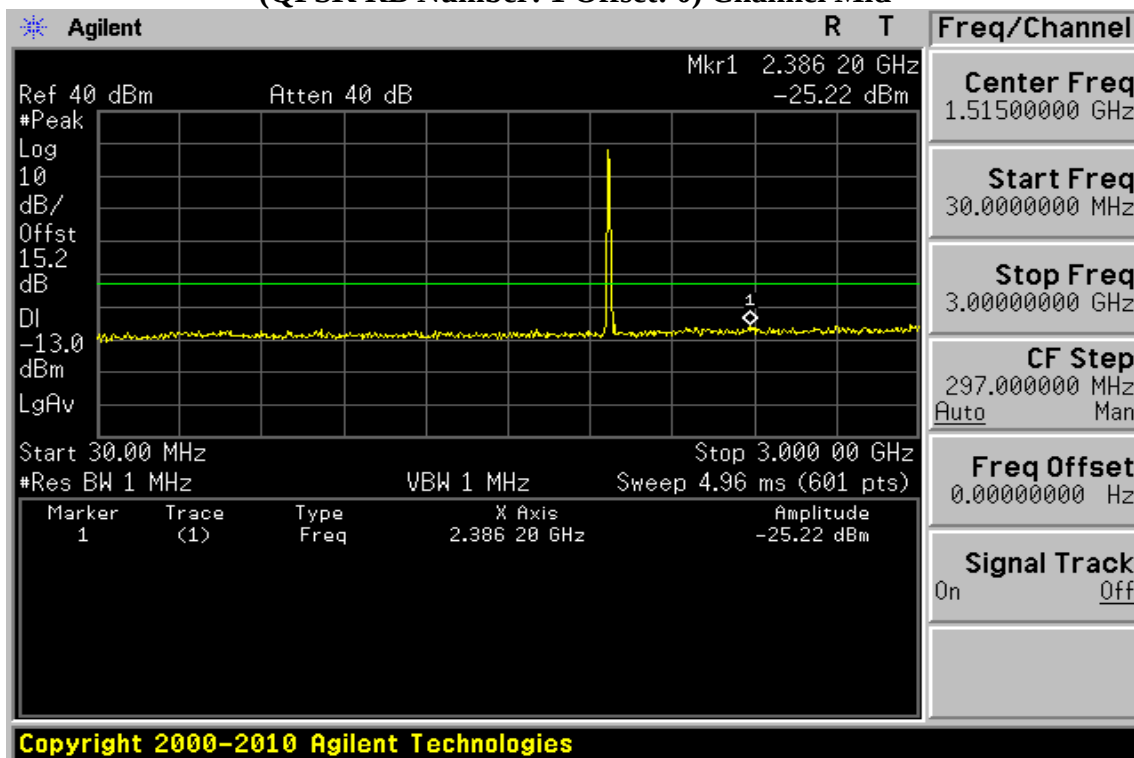
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



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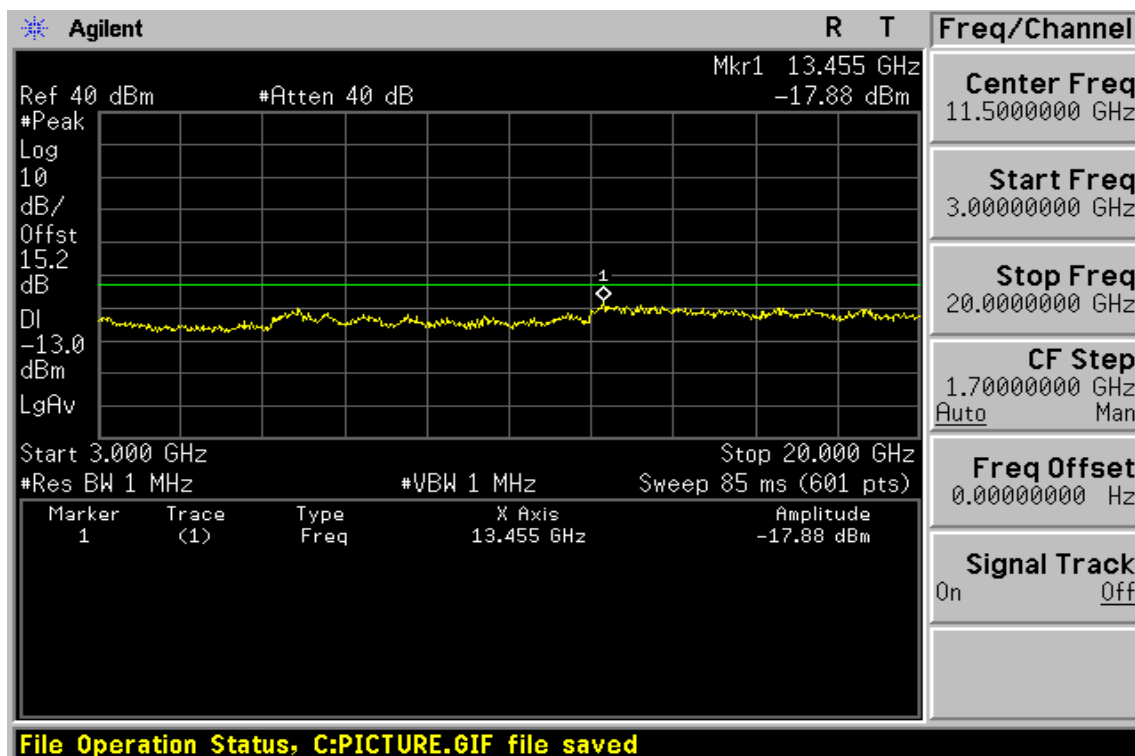
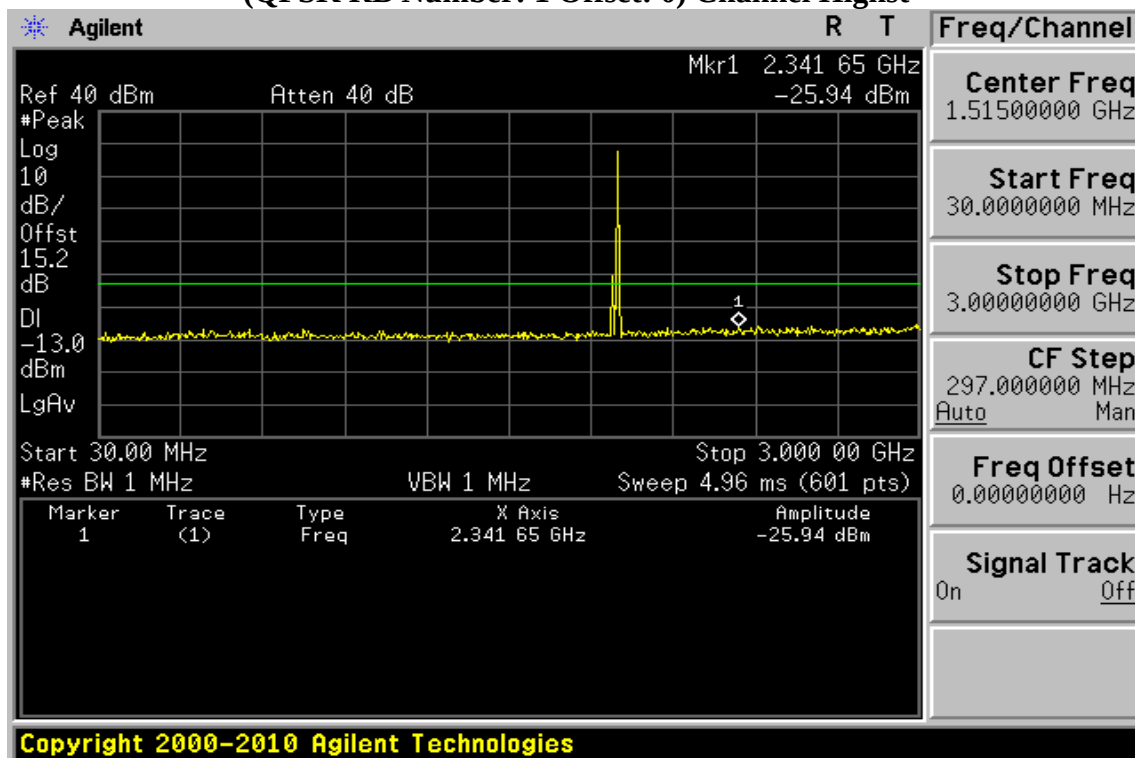
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Out of Band emission at antenna terminals–10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



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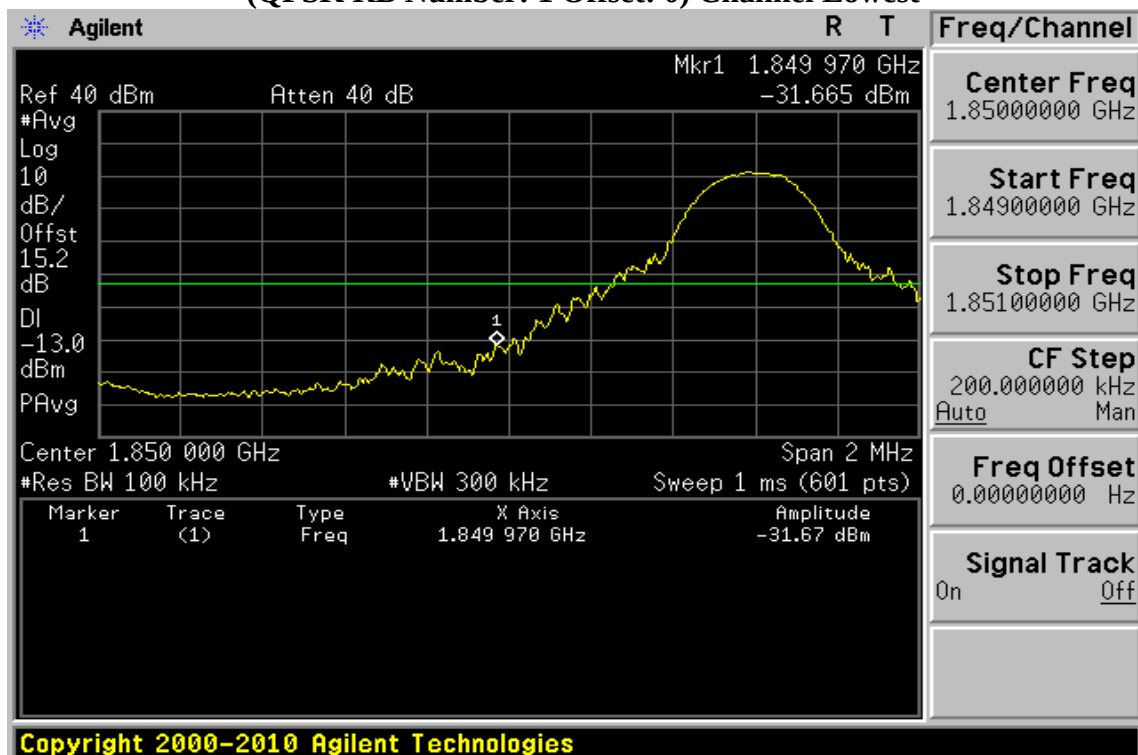
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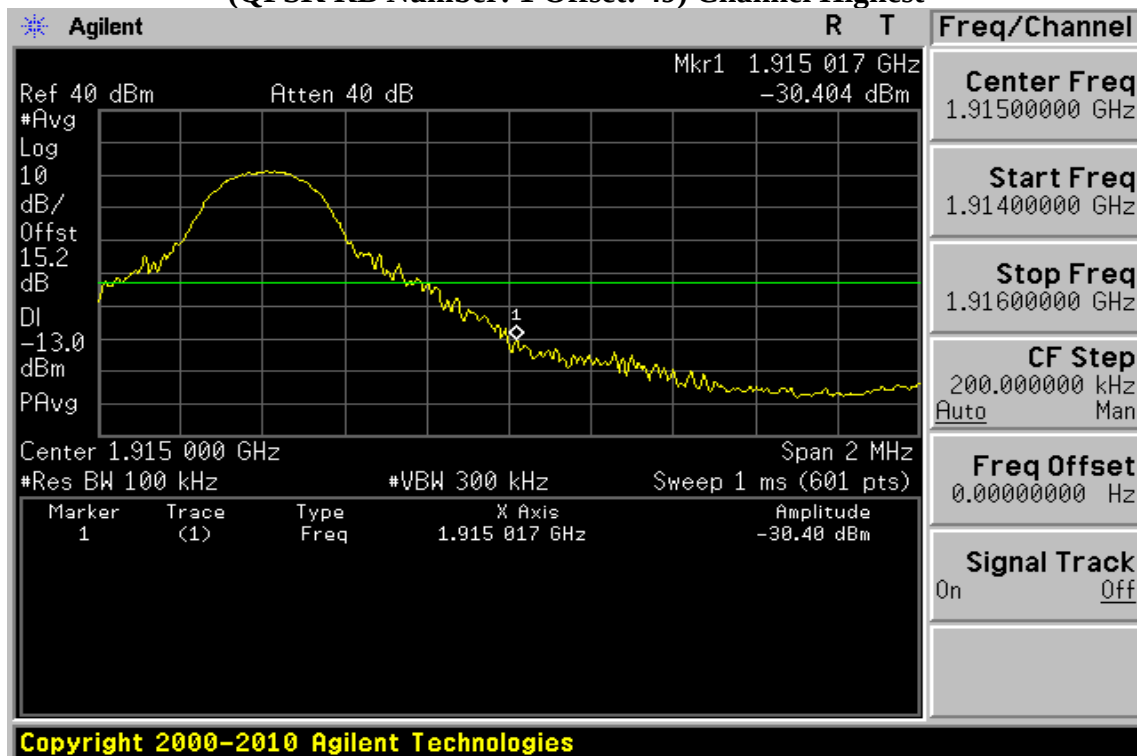
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Band edge emission at antenna terminals –10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 49) Channel Highest



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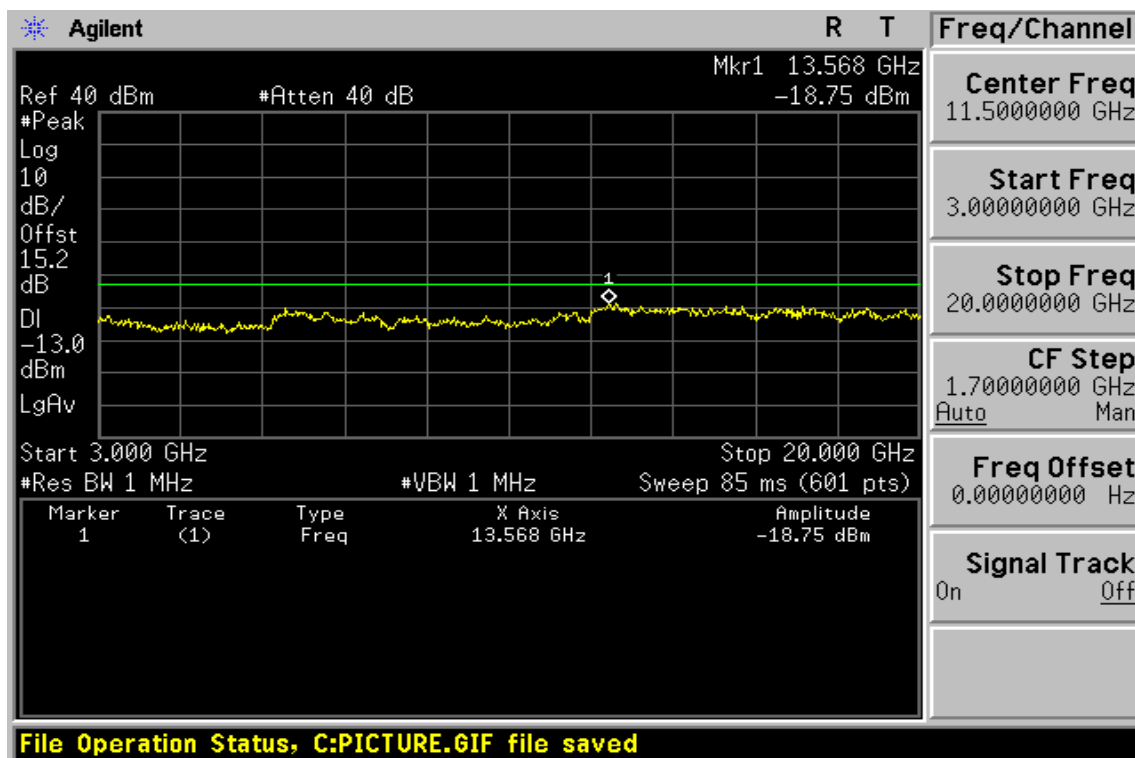
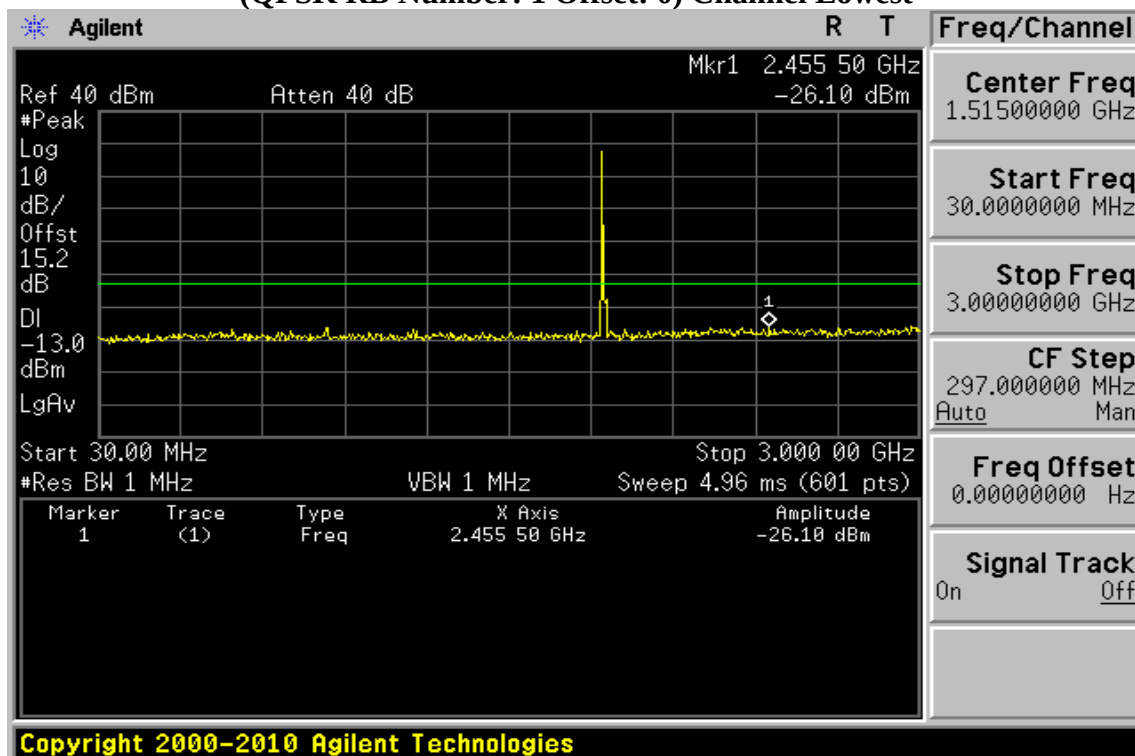
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Out of Band emission at antenna terminals–15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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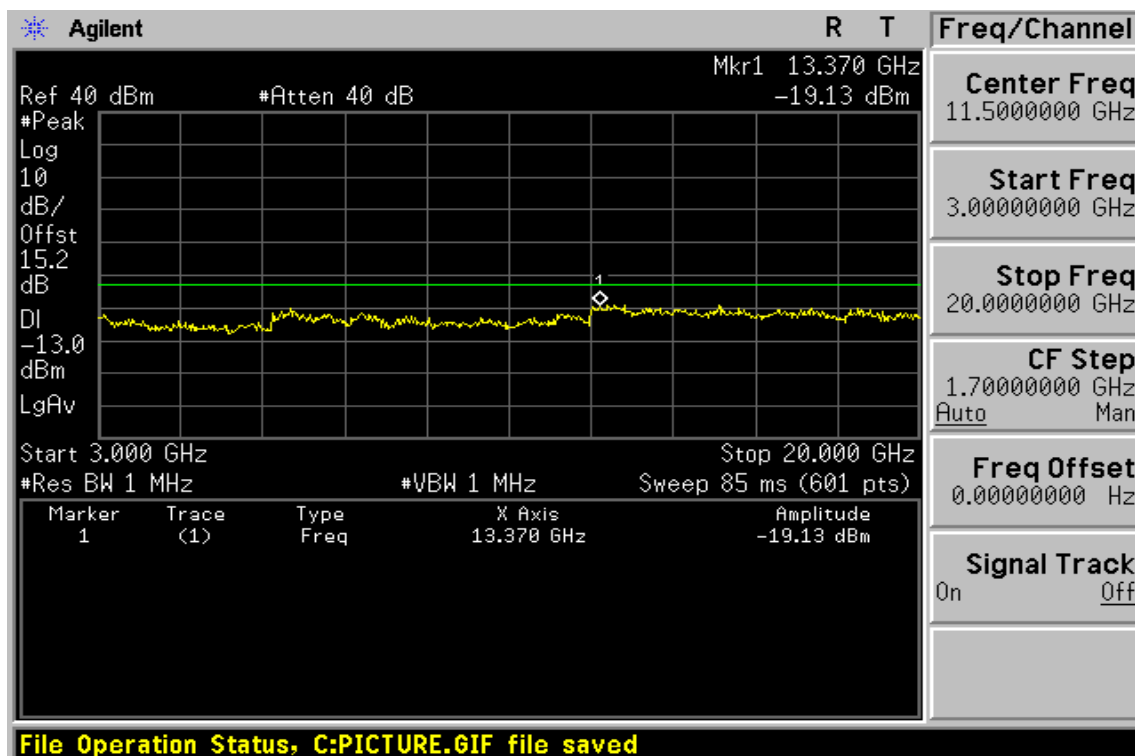
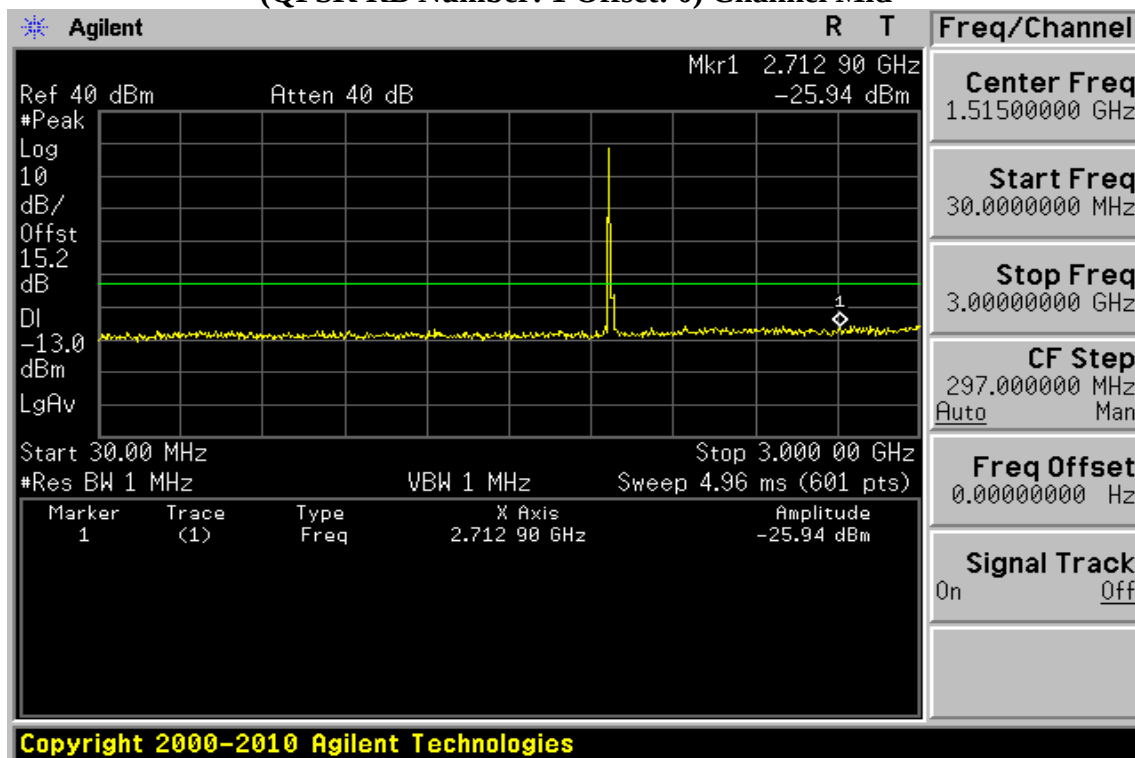
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Out of Band emission at antenna terminals–15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



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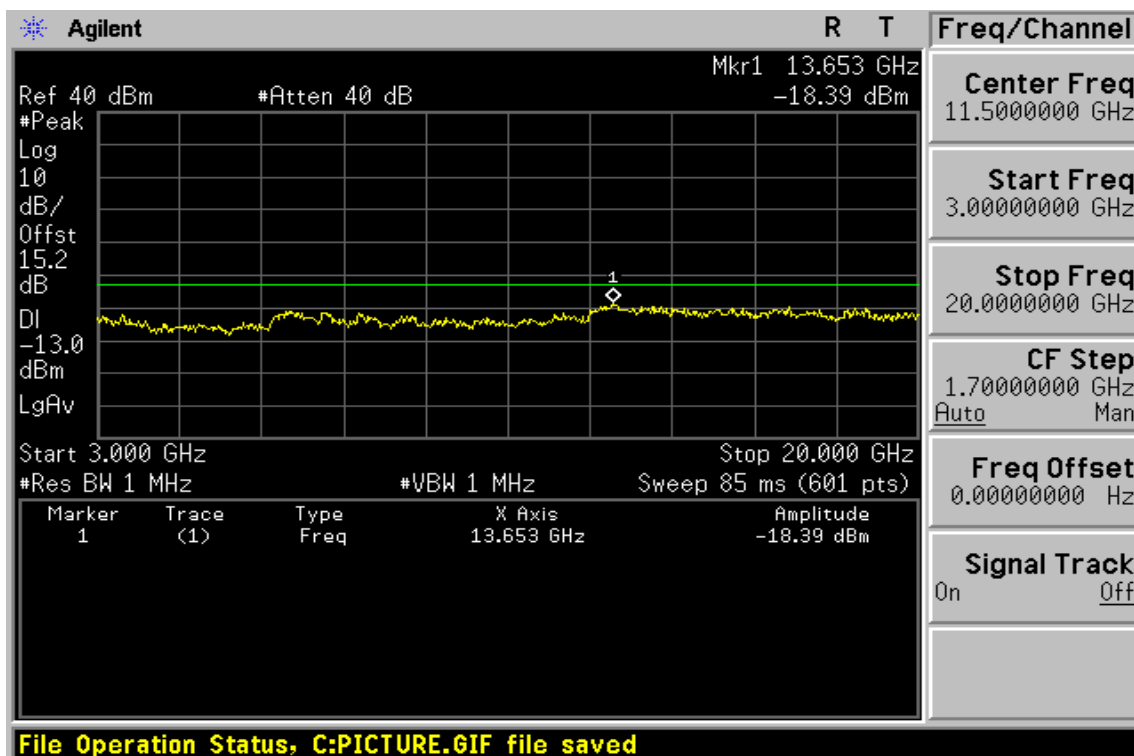
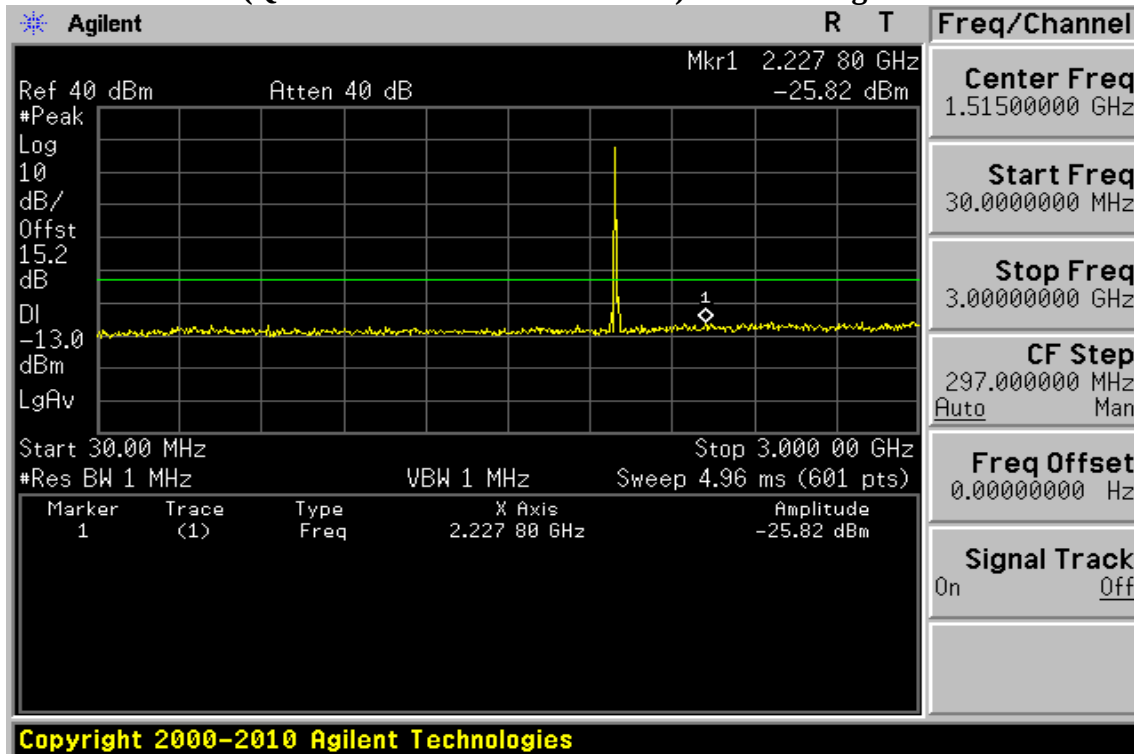
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Out of Band emission at antenna terminals–15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



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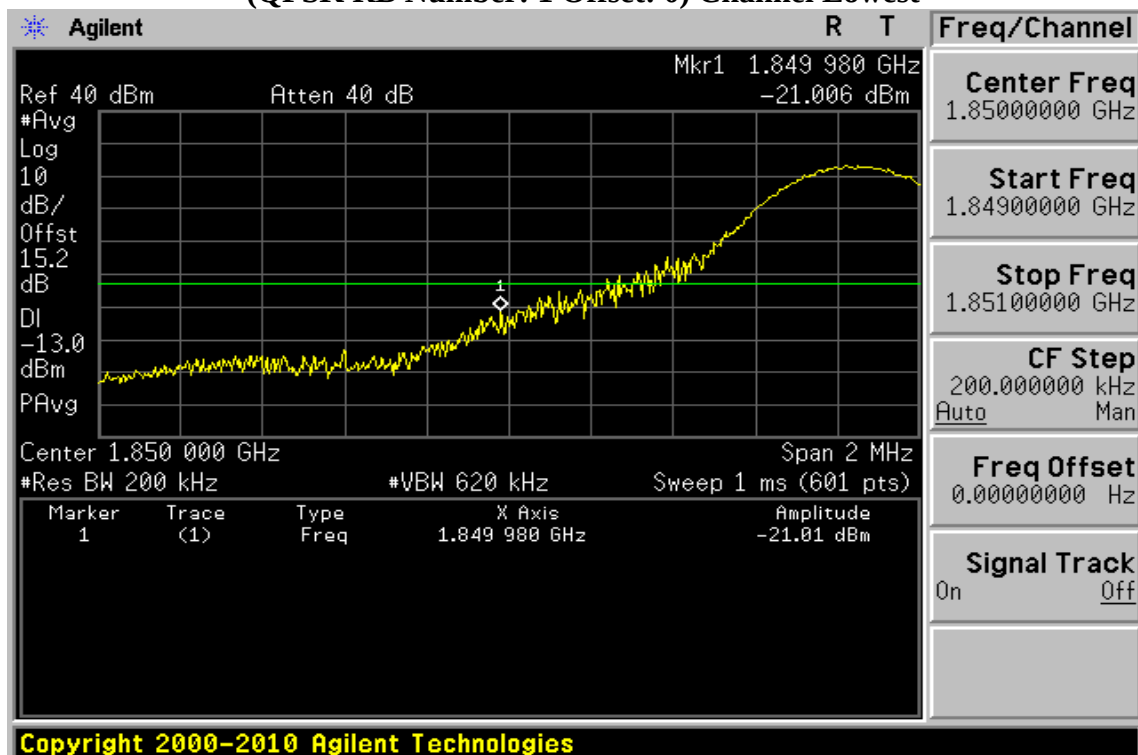
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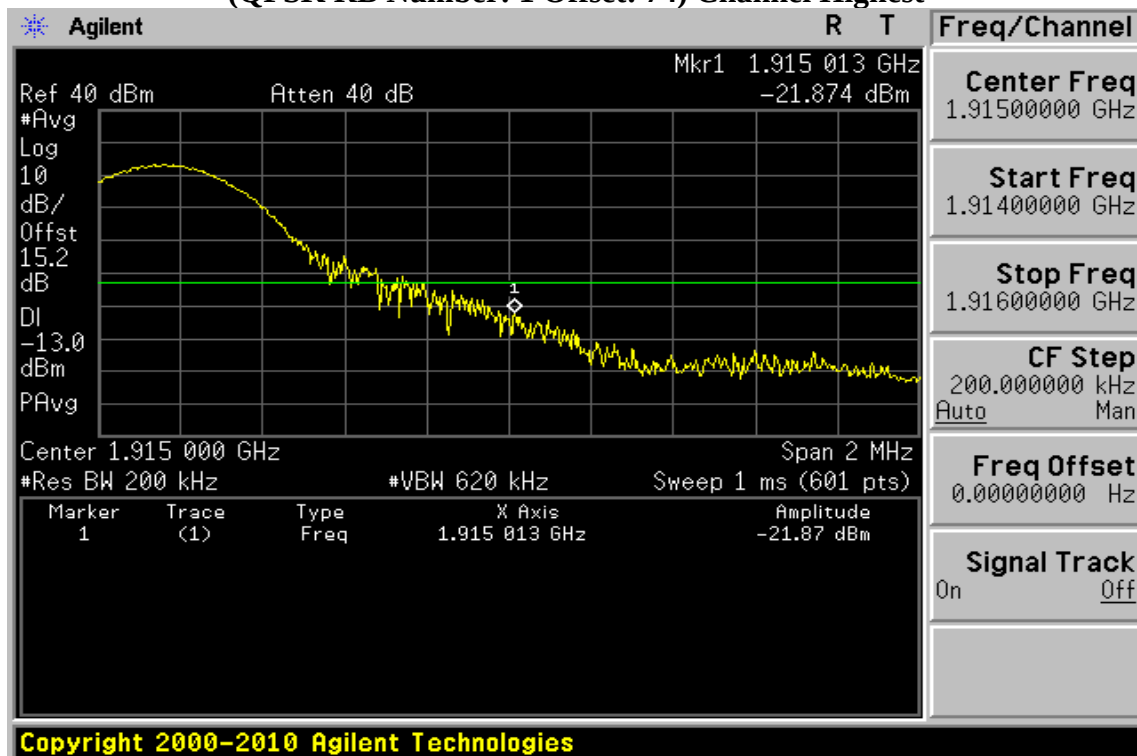
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –15MHz BW LTE-Band 25
(QPSK RB Number: 1 Offset: 74) Channel Highest**



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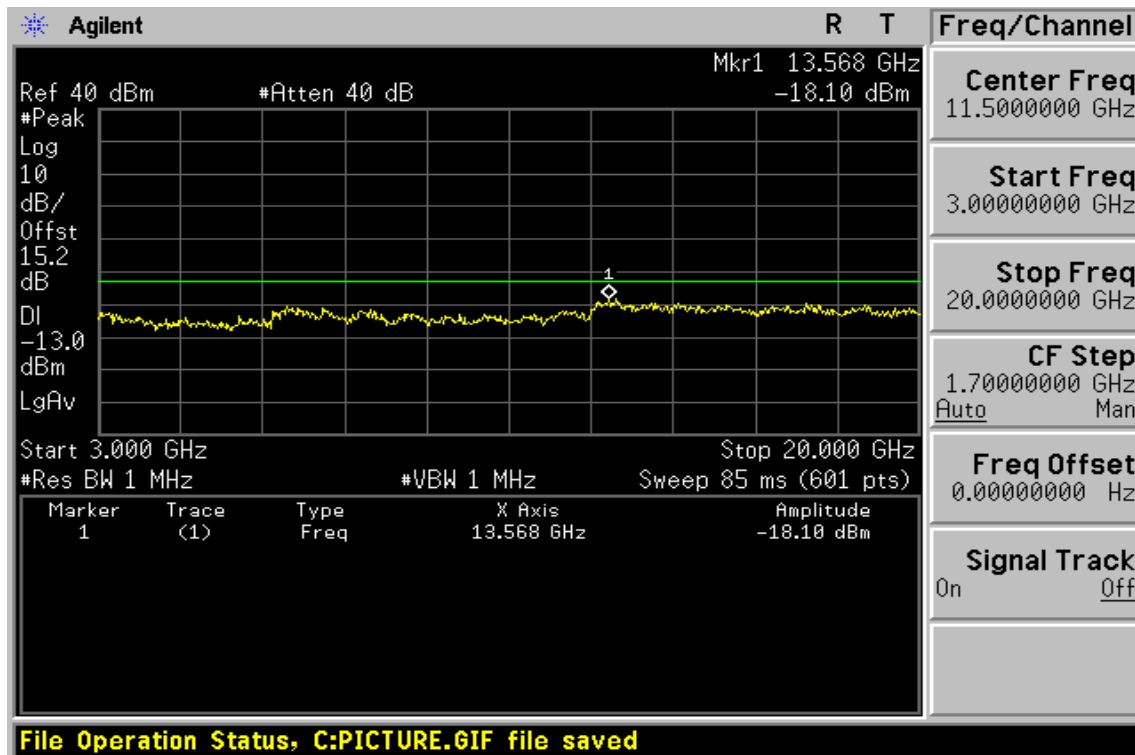
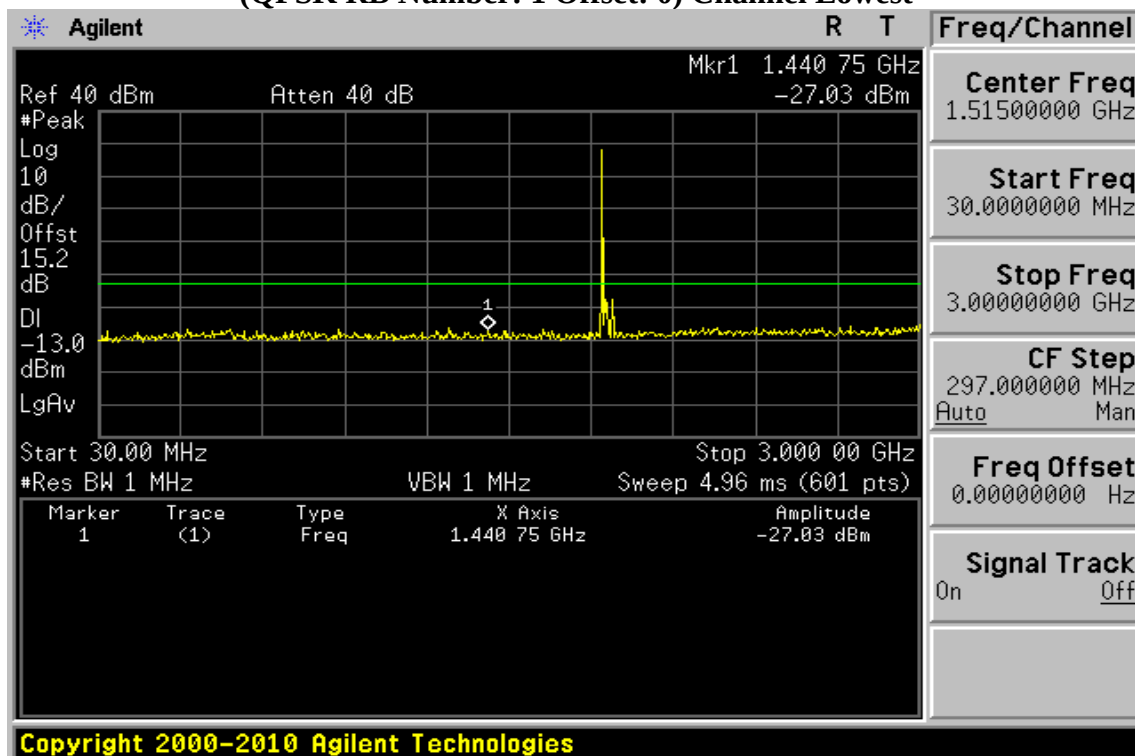
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Out of Band emission at antenna terminals–20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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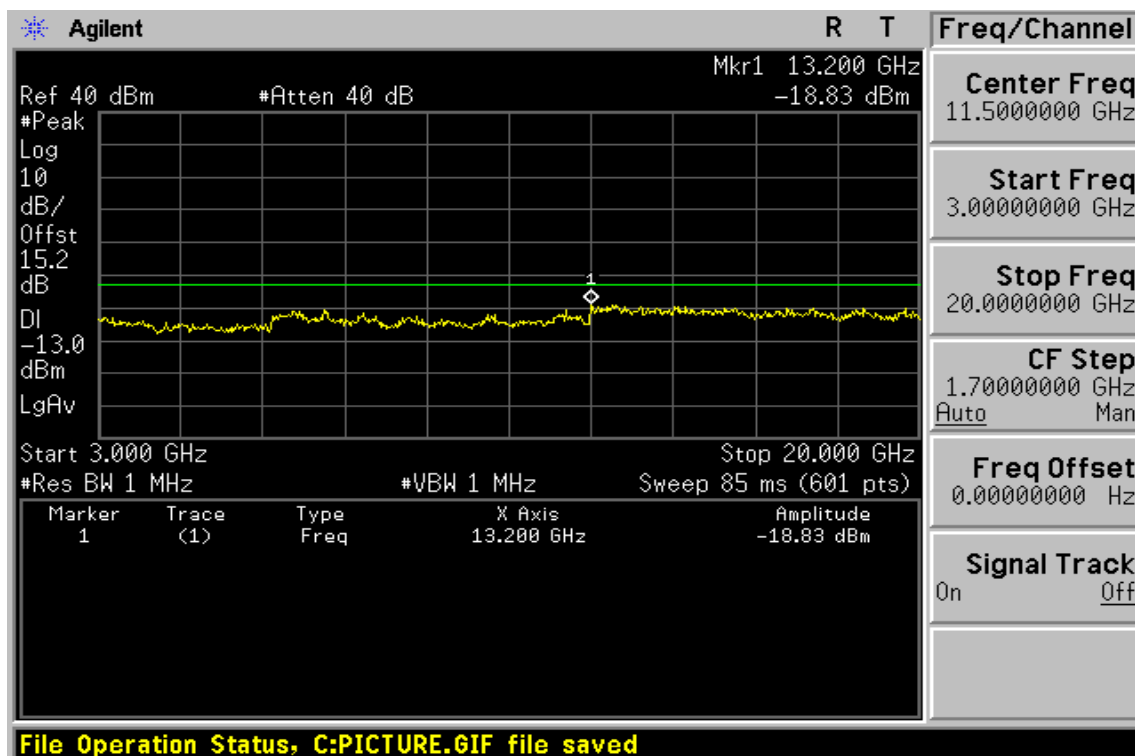
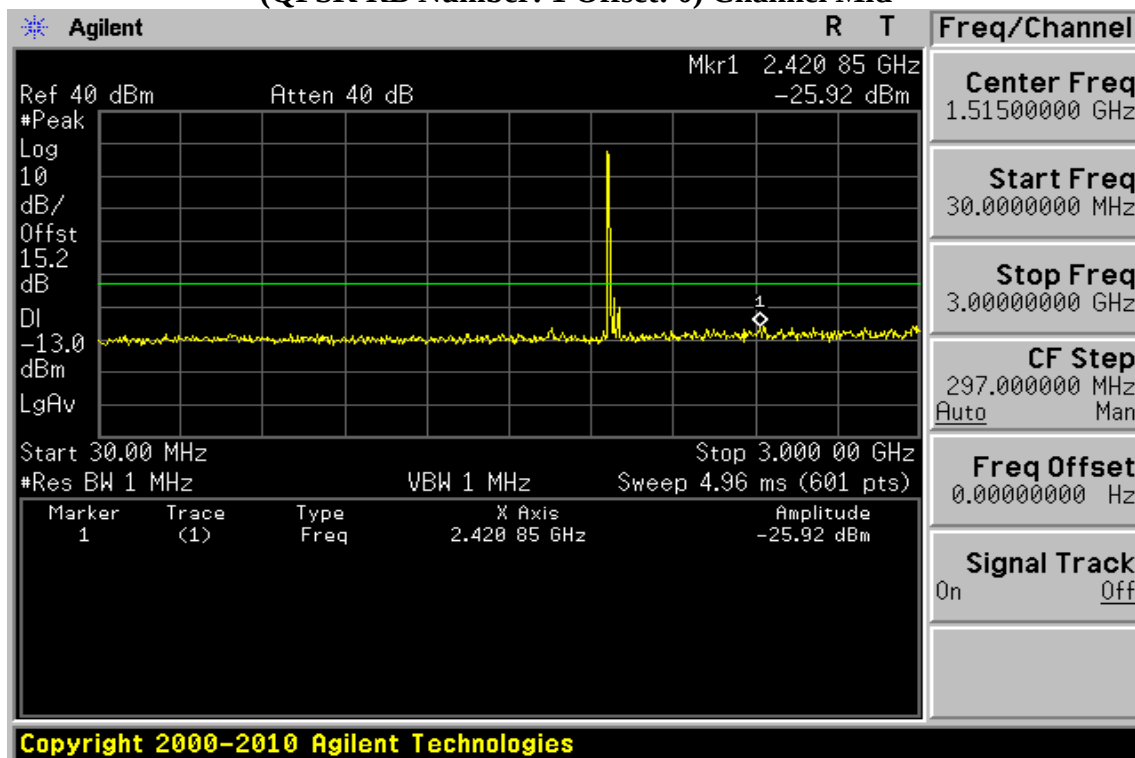
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Out of Band emission at antenna terminals–20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid



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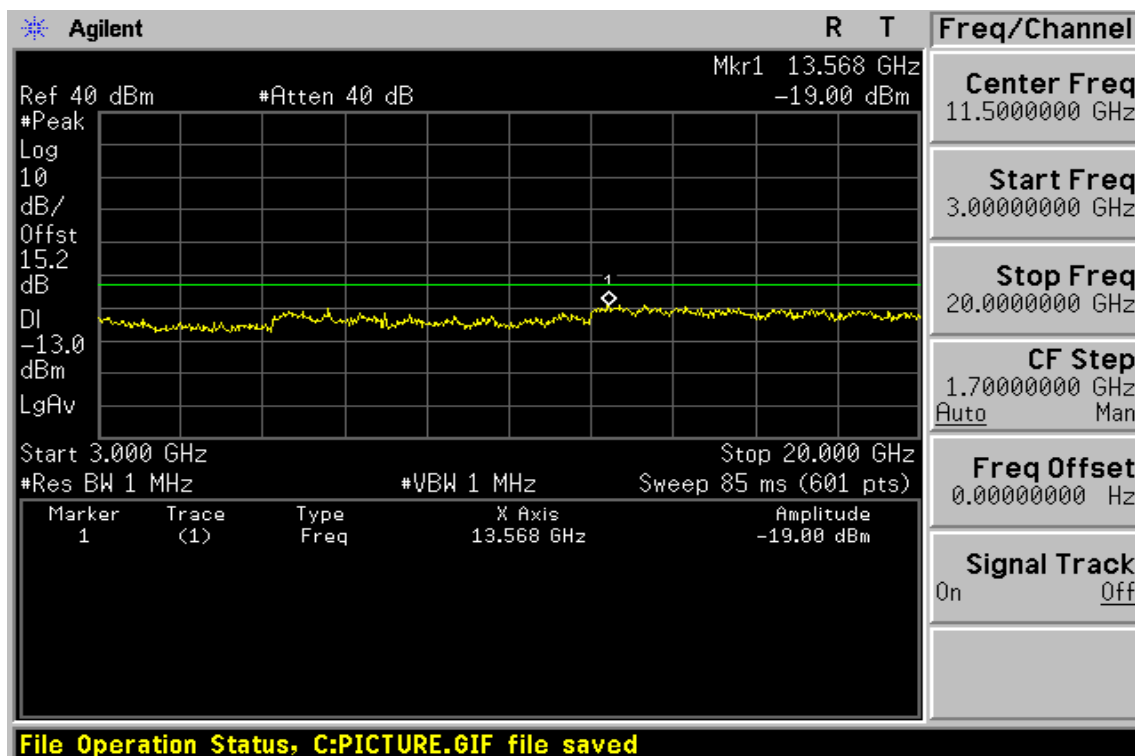
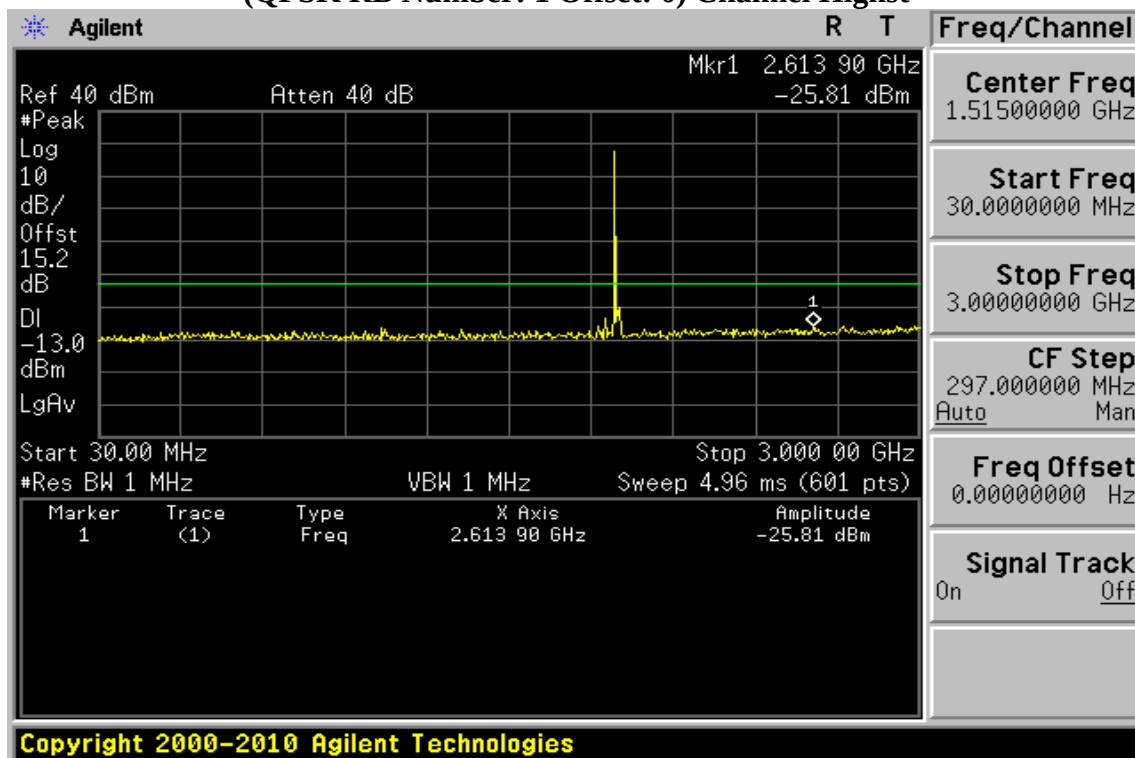
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Out of Band emission at antenna terminals–20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Highest



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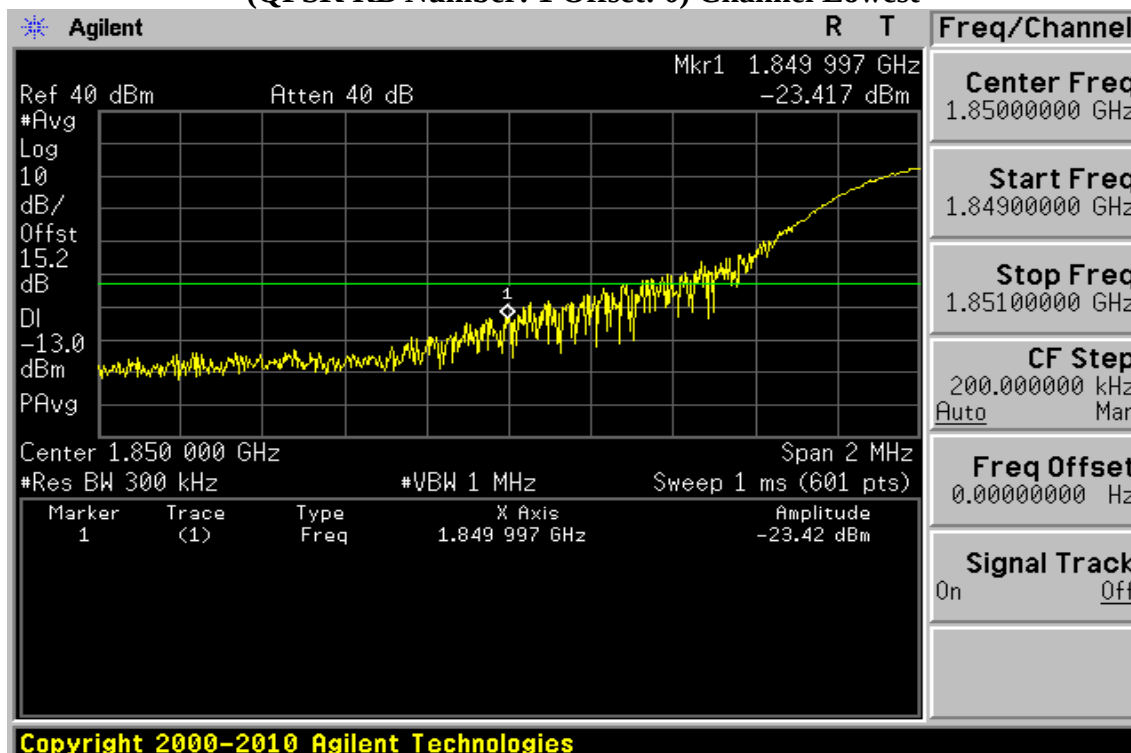
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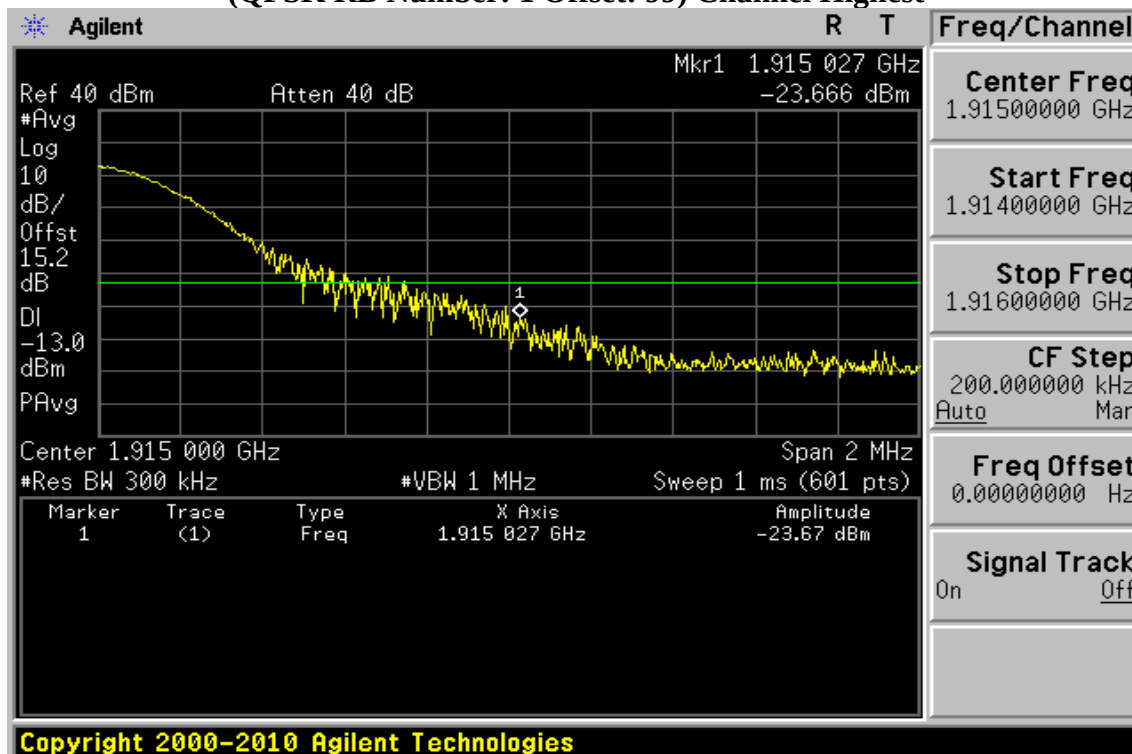
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Band edge emission at antenna terminals –20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest



Band edge emission at antenna terminals –20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 99) Channel Highest



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