

## **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 90S REQUIREMENT**

OF

**Product Name:** mobile phone

**Brand Name:** Hisense

**Model No.:** VH777

**Model Difference:** N/A

**FCC ID:** 2ADOBVH777

**Report No.:** ER/2015/10004

**Issue Date:** Jan. 30, 2015

**FCC Rule Part:** 2, 22H & 24E & 27C & L & 90S  
Hisense International Co.,Ltd

**Prepared for:** Floor 22, Hisense Tower, 17 Donghai Xi Road,  
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Electronics & Communication Laboratory

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24803

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## VERIFICATION OF COMPLIANCE

**Applicant:** Hisense International Co.,Ltd  
Floor 22, Hisense Tower, 17 Donghai Xi Road, Qingdao

**Product Name:** mobile phone

**Brand Name:** Hisense

**Model No.:** VH777

**Model Difference:** N/A

**FCC ID:** 2ADOBVH777

**File Number:** ER/2015/10001

**Date of test:** Jan. 05, 2015 ~ Jan. 30, 2015

**Date of EUT Received:** Jan. 05, 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 of FCC Rule PART 22 subpart H, PART 24 subpart E, PART 27 subpart C, PART 90S.

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

Test By:

Marcus Tseng

Date:

Jan. 30, 2015

Marcus Tseng / Engineer

Prepared By:

Karen Huang

Date:

Jan. 30, 2015

Karen Huang / Clerk

Approved By:

Jim Chang

Date:

Jan. 30, 2015

Jim Chang / Supervisor

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## Version

Version No.	Date	Description
00	Jan. 30, 2015	Initial creation of document

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## 1. GENERAL PRODUCT INFORMATION

### 1.1. Product Description

General:

Product Name:	mobile phone	
Brand Name:	Hisense	
Model No.:	VH777	
Model difference:	N/A	
Hardware Version:	V2.00	
Software Version:	L1051.4.01.02.US62	
Data Cable (USB):	Model No.: GT0211100, Supplier: WanLing	
Power Supply:	3.8Vdc Rechargeable Li-ion Battery or 5Vdc from AC/DC Adapter	
	Battery:	ModelNo.: LI38170J, Supplier: BAK
	Adapter:	Model No.: CYSK05-050100, Supplier: chenyangelec

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# LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	1.4MHz BW LTE-Band 25	1850.7MHz– 1914.3MHz	23dBm
	3MHz BW LTE-Band 25	1851.5MHz – 1913.5MHz	23dBm
	5MHz BW LTE-Band 25	1852.5MHz – 1912.5MHz	23dBm
	10MHz BW LTE-Band 25	1855.0MHz – 1910.0MHz	23dBm
	15MHz BW LTE-Band 25	1857.5MHz – 1907.5MHz	23dBm
	20MHz BW LTE-Band 25	1860.0MHz – 1905.0MHz	23dBm
	1.4MHz BW LTE-Band 26	814.7 MHz– 823.3 MHz	23dBm
	3MHz BW LTE-Band 26	815.5 MHz– 822.5 MHz	23dBm
	5MHz BW LTE-Band 26	816.5 MHz– 821.5 MHz	23dBm
	10MHz BW LTE-Band 26	819.0 MHz– 819.0 MHz	23dBm
	1.4MHz BW LTE-Band 26	824.7 MHz– 848.3 MHz	23dBm
	3MHz BW LTE-Band 26	825.5 MHz– 847.5 MHz	23dBm
	5MHz BW LTE-Band 26	826.5 MHz– 846.5 MHz	23dBm
	10MHz BW LTE-Band 26	829.0 MHz– 844.0 MHz	23dBm
	5MHz BW LTE-Band 41	2498.5MHz – 2687.5MHz	23dBm
	10MHz BW LTE-Band 41	2501.0MHz – 2685.0MHz	23dBm
	15MHz BW LTE-Band 41	2503.5MHz – 2682.5MHz	23dBm
	20MHz BW LTE-Band 41	2506.0MHz – 2680.0MHz	23dBm
IMEI:	990005530002352		

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## CDMA 2000/EVDO (BC0/1/10):

Cellular Phone Standards Frequency Range and Power.	Operating Frequency		Rated Power
	CDMA 2000 BC10	817.9 MHz – 823.1 MHz	24 dBm
	CDMA 2000 Cellular BC0	824.7 MHz– 848.31MHz	24 dBm
	CDMA 2000 PCS BC1	1851.25MHz-1908.75MHz	24 dBm
	CDMA 2000 EVDO BC10	817.9 MHz – 823.10 MHz	24 dBm
	CDMA 2000 EVDO Cellular BC0	824.7 MHz– 848.31MHz	24 dBm
	CDMA 2000 EVDO PCS BC1	1851.25MHz-1908.75MHz	24 dBm

This test report applies for 800/1900 CDMA 2000, EVDO and LTE Band 25, Band 26 and Band 41.

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# Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
CDMA 2000 BC10	3.8 Vdc	394
CDMA 2000 Cellular BC0	3.8 Vdc	797
CDMA 2000 PCS BC1	3.8 Vdc	560
CDMA 2000 EVDO BC10	3.8 Vdc	356
CDMA 2000 EVDO Cellular BC0	3.8 Vdc	741
CDMA 2000 EVDO PCS BC1	3.8 Vdc	517

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 25_1.4M QPSK	3.8 Vdc	705
LTE Band 25_1.4M 16QAM	3.8 Vdc	667
LTE Band 25_3M QPSK	3.8 Vdc	680
LTE Band 25_3M 16QAM	3.8 Vdc	626
LTE Band 25_5M QPSK	3.8 Vdc	701
LTE Band 25_5M 16QAM	3.8 Vdc	649
LTE Band 25_10M QPSK	3.8 Vdc	713
LTE Band 25_10M 16QAM	3.8 Vdc	650
LTE Band 25_15M QPSK	3.8 Vdc	741
LTE Band 25_15M 16QAM	3.8 Vdc	694
LTE Band 25_20M QPSK	3.8 Vdc	735
LTE Band 25_20M 16QAM	3.8 Vdc	697

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 26_1.4M QPSK	3.8 Vdc	599
LTE Band 26_1.4M 16QAM	3.8 Vdc	564
LTE Band 26_3M QPSK	3.8 Vdc	633
LTE Band 26_3M 16QAM	3.8 Vdc	611
LTE Band 26_5M QPSK	3.8 Vdc	656
LTE Band 26_5M 16QAM	3.8 Vdc	603
LTE Band 26_10M QPSK	3.8 Vdc	666
LTE Band 26_10M 16QAM	3.8 Vdc	607

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 26_1.4M QPSK	3.8 Vdc	601
LTE Band 26_1.4M 16QAM	3.8 Vdc	557
LTE Band 26_3M QPSK	3.8 Vdc	635
LTE Band 26_3M 16QAM	3.8 Vdc	603
LTE Band 26_5M QPSK	3.8 Vdc	646
LTE Band 26_5M 16QAM	3.8 Vdc	594
LTE Band 26_10M QPSK	3.8 Vdc	660
LTE Band 26_10M 16QAM	3.8 Vdc	602

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 41_5M QPSK	3.8 Vdc	411
LTE Band 41_5M 16QAM	3.8 Vdc	372
LTE Band 41_10M QPSK	3.8 Vdc	408
LTE Band 41_10M 16QAM	3.8 Vdc	383
LTE Band 41_15M QPSK	3.8 Vdc	442
LTE Band 41_15M 16QAM	3.8 Vdc	411
LTE Band 41_20M QPSK	3.8 Vdc	442
LTE Band 41_20M 16QAM	3.8 Vdc	414

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## 1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2ADOBVH777** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part 27 subpart C & subpart L of the FCC CFR 47 Rules, Part 90S.

## 1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

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

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

KDB971168 D01 Power Meas license Digital System v02r01 as the supplemental guideline to conduct the measurement, including Peak to Power Average Ratio, Average Power over the fundamental signal BW (EIRP/ERP) and Signal Bandwidth.

## 1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009. FCC Registration Number: 990257. The address of SGS Taiwan Ltd. Electronics & Communication Laboratory 1F, No.134, Wukung Road New Taipei City TAIWAN 24803, Canada Registration Number: 4620A-5.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. FCC Registration Number: 455997. The address of SGS Taiwan Ltd. Electronics & Communication Laboratory 1F, No.134, Wukung Road New Taipei City TAIWAN 24803, IC Registration Number: 4620A-6.

All equipment is calibrated externally and traceable to SI (International System of Unit).

## 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 of ANSI C63.4:2009.

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## 2.4. 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
Spectrum Analyzer	Agilent	E4440A	US41160416	03/08/2014	03/07/2015
Radio Communication Analyzer	R & S	CMU200	116097	03/11/2014	03/10/2015
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	10/08/2014	10/09/2015
Temperature Chamber	TERCHY	MHG-120LF	911009	05/07/2014	05/06/2015
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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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/19/2014	05/18/2015
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Spectrum Analyzer	R&S	FSV-30	101398	10/07/2014	10/06/2015
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	01/23/2014	01/22/2015
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	01/24/2014	01/23/2015
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R & S	CMU200	116097	03/11/2014	03/10/2015
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
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/15/2014	07/14/2015

Note: N.C.R refers to Not Calibrated Required

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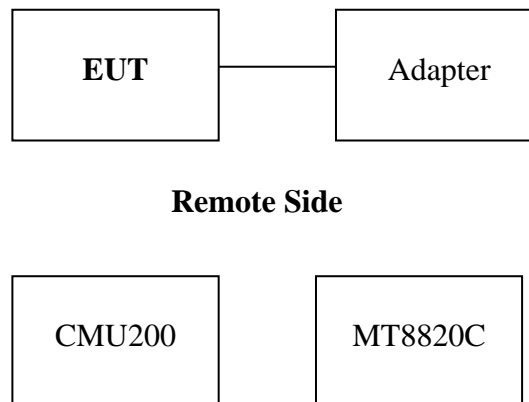
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## 2.5. Configuration of Tested System

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



**Table 2-1 Equipment Used in**

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

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### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(h)(2) §90.635	ERP/ EIRP measurement	Compliant
§ 2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(m)(4)(6)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§24.232(d)	Peak to Average Ratio	Compliant
§22.359 §24.238 §27.53(m)(4)(6) §90.210 and 90.691	Emission Mask	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1) §22.355 §24.235 §27.54	Frequency Stability vs. Voltage	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
CDMA 2000 Cellular (BC0)	21.01	ERP	0.126
CDMA 2000 PCS (BC1)	20.40	EIRP	0.110
CDMA 2000 (BC10)	19.73	ERP	0.094
CDMA 2000 EVDO Cellular (BC0)	19.39	ERP	0.087
CDMA 2000 EVDO PCS (BC1)	19.55	EIRP	0.090
CDMA 2000 EVDO (BC10)	16.12	ERP	0.041

	dBm		W
LTE Band 25/1.4MMz /QPSK RB 1 Offset 0	24.49	EIRP	0.281
LTE Band 25/1.4MMz /QPSK RB 1 Offset 5	24.79	EIRP	0.301
LTE Band 25/1.4MMz /16QAM RB 1 Offset 0	24.58	EIRP	0.287
LTE Band 25/1.4MMz /16QAM RB 1 Offset 5	24.88	EIRP	0.308
LTE Band 25/3MMz /QPSK RB 1 Offset 0	25.44	EIRP	0.350
LTE Band 25/3MMz /QPSK RB 1 Offset 14	25.48	EIRP	0.353
LTE Band 25/3MMz /16QAM RB 1 Offset 0	25.50	EIRP	0.355
LTE Band 25/3MMz /16QAM RB 1 Offset 14	25.09	EIRP	0.323
LTE Band 25/5MMz /QPSK RB 1 Offset 0	24.95	EIRP	0.313
LTE Band 25/5MMz /QPSK RB 1 Offset 24	25.55	EIRP	0.359
LTE Band 25/5MMz /16QAM RB 1 Offset 0	25.37	EIRP	0.344
LTE Band 25/5MMz /16QAM RB 1 Offset 24	25.34	EIRP	0.342
LTE Band 25/10MMz /QPSK RB 1 Offset 0	25.13	EIRP	0.326
LTE Band 25/10MMz /QPSK RB 1 Offset 49	25.66	EIRP	0.368
LTE Band 25/10MMz /16QAM RB 1 Offset 0	25.11	EIRP	0.324
LTE Band 25/10MMz /16QAM RB 1 Offset 49	26.09	EIRP	0.406
LTE Band 25/15MMz /QPSK RB 1 Offset 0	25.09	EIRP	0.323
LTE Band 25/15MMz /QPSK RB 1 Offset 74	25.45	EIRP	0.351
LTE Band 25/15MMz /16QAM RB 1 Offset 0	25.06	EIRP	0.321
LTE Band 25/15MMz /16QAM RB 1 Offset 74	25.18	EIRP	0.330
LTE Band 25/20MMz /QPSK RB 1 Offset 0	25.25	EIRP	0.335
LTE Band 25/20MMz /QPSK RB 1 Offset 99	25.65	EIRP	0.367
LTE Band 25/20MMz /16QAM RB 1 Offset 0	25.26	EIRP	0.336
LTE Band 25/20MMz /16QAM RB 1 Offset 99	25.61	EIRP	0.364

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## Part 22

	dBm		W
LTE Band 26/1.4MMz /QPSK RB 1 Offset 0	24.25	ERP	0.266
LTE Band 26/1.4MMz /QPSK RB 1 Offset 5	24.29	ERP	0.269
LTE Band 26/1.4MMz /16QAM RB 1 Offset 0	24.42	ERP	0.277
LTE Band 26/1.4MMz /16QAM RB 1 Offset 5	24.53	ERP	0.284
LTE Band 26/3MMz /QPSK RB 1 Offset 0	24.38	ERP	0.274
LTE Band 26/3MMz /QPSK RB 1 Offset 14	23.25	ERP	0.211
LTE Band 26/3MMz /16QAM RB 1 Offset 0	24.55	ERP	0.285
LTE Band 26/3MMz /16QAM RB 1 Offset 14	24.49	ERP	0.281
LTE Band 26/5MMz /QPSK RB 1 Offset 0	24.52	ERP	0.283
LTE Band 26/5MMz /QPSK RB 1 Offset 24	23.82	ERP	0.241
LTE Band 26/5MMz /16QAM RB 1 Offset 0	24.34	ERP	0.272
LTE Band 26/5MMz /16QAM RB 1 Offset 24	24.17	ERP	0.261
LTE Band 26/10MMz /QPSK RB 1 Offset 0	24.30	ERP	0.269
LTE Band 26/10MMz /QPSK RB 1 Offset 49	23.92	ERP	0.247
LTE Band 26/10MMz /16QAM RB 1 Offset 0	24.16	ERP	0.261
LTE Band 26/10MMz /16QAM RB 1 Offset 49	23.94	ERP	0.248

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## Part 90S

	dBm		W
LTE Band 26/1.4MMz /QPSK RB 1 Offset 0	22.88	ERP	0.194
LTE Band 26/1.4MMz /QPSK RB 1 Offset 5	22.60	ERP	0.182
LTE Band 26/1.4MMz /16QAM RB 1 Offset 0	22.83	ERP	0.192
LTE Band 26/1.4MMz /16QAM RB 1 Offset 5	22.73	ERP	0.187
LTE Band 26/3MMz /QPSK RB 1 Offset 0	22.10	ERP	0.162
LTE Band 26/3MMz /QPSK RB 1 Offset 14	22.08	ERP	0.161
LTE Band 26/3MMz /16QAM RB 1 Offset 0	22.78	ERP	0.190
LTE Band 26/3MMz /16QAM RB 1 Offset 14	22.58	ERP	0.181
LTE Band 26/5MMz /QPSK RB 1 Offset 0	22.25	ERP	0.168
LTE Band 26/5MMz /QPSK RB 1 Offset 24	22.09	ERP	0.162
LTE Band 26/5MMz /16QAM RB 1 Offset 0	22.67	ERP	0.185
LTE Band 26/5MMz /16QAM RB 1 Offset 24	22.34	ERP	0.171
LTE Band 26/10MMz /QPSK RB 1 Offset 0	22.02	ERP	0.159
LTE Band 26/10MMz /QPSK RB 1 Offset 49	20.95	ERP	0.124
LTE Band 26/10MMz /16QAM RB 1 Offset 0	22.62	ERP	0.183
LTE Band 26/10MMz /16QAM RB 1 Offset 49	21.79	ERP	0.151

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## Part 27

	dBm		W
LTE Band 41/5MMz /QPSK RB 1 Offset 0	24.64	EIRP	0.291
LTE Band 41/5MMz /QPSK RB 1 Offset 24	24.19	EIRP	0.262
LTE Band 41/5MMz /16QAM RB 1 Offset 0	24.13	EIRP	0.259
LTE Band 41/5MMz /16QAM RB 1 Offset 24	24.24	EIRP	0.265
LTE Band 41/10MMz /QPSK RB 1 Offset 0	24.60	EIRP	0.288
LTE Band 41/10MMz /QPSK RB 1 Offset 49	24.46	EIRP	0.279
LTE Band 41/10MMz /16QAM RB 1 Offset 0	24.30	EIRP	0.269
LTE Band 41/10MMz /16QAM RB 1 Offset 49	24.49	EIRP	0.281
LTE Band 41/15MMz /QPSK RB 1 Offset 0	24.20	EIRP	0.263
LTE Band 41/15MMz /QPSK RB 1 Offset 74	25.01	EIRP	0.317
LTE Band 41/15MMz /16QAM RB 1 Offset 0	24.32	EIRP	0.270
LTE Band 41/15MMz /16QAM RB 1 Offset 74	24.93	EIRP	0.311
LTE Band 41/20MMz /QPSK RB 1 Offset 0	24.51	EIRP	0.282
LTE Band 41/20MMz /QPSK RB 1 Offset 99	24.42	EIRP	0.277
LTE Band 41/20MMz /16QAM RB 1 Offset 0	24.52	EIRP	0.283
LTE Band 41/20MMz /16QAM RB 1 Offset 99	24.36	EIRP	0.273

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#### 4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

EUT was staying in continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing.

The list of channel selected to conduct the measurements

##### CDMA2000/ EVDO BC10

Channel Low: UAFRCN 476 at 817.9MHz, Channel Mid: AFRCN 580 at 820.5MHz, Channel High: AFRCN 684 at 823.1MHz.

##### CDMA2000/ EVDO Cellular BC0

Channel Low: AFRCN 1013 at 824.7MHz, Channel Mid: AFRCN 384 at 836.52MHz, Channel High: AFRCN 777 at 848.31MHz.

##### CDMA2000/ EVDO PCS BC1

Channel Low: AFRCN 25 at 1851.25MHz, Channel Mid: AFRCN 600 at 1880MHz, Channel High: AFRCN 1175 at 1908.75MHz.

##### LTE B25

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	1.4	26047	1850.7
	3	26055	1851.5
	5	26065	1852.5
	10	26090	1855.0
	15	26115	1857.5
	20	26140	1860.0
Middle	1.4/3/5/10 15/20	26365	1882.5
High	1.4	26683	1914.3
	3	26675	1913.5
	5	26665	1912.5
	10	26640	1910.0
	15	26615	1907.5
	20	26590	1905.0

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## LTE B26 (Part22)

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	1.4	26797	824.7
	3	26805	825.5
	5	26815	826.5
	10	26840	829.0
	15	26865	831.5
Middle	1.4/3/5/10 15	26915	836.5
High	1.4	27033	848.3
	3	27025	847.5
	5	27015	846.5
	10	26990	844.0
	15	26965	841.5

## LTE B26 (Part90S)

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	1.4	26697	814.7
	3	26705	815.5
	5	26715	816.5
Middle	1.4/3/5/10	26740	819.0
High	1.4	26783	823.3
	3	26740	822.5
	5	26765	821.5

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## LTE B41

Test Frequency	Bandwidth [MHz]	Channel Number	Frequency of Uplink [MHz]
Low	5	39675	2498.5
	10	39700	2501.0
	15	39725	2503.5
	20	39750	2506.0
Middle	5/10 15/20	40620	2593.0
High	5	41565	2687.5
	10	41540	2685.0
	15	41515	2682.5
	20	41490	2680.0

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for CDMA/EVDO and LTE Band 25, Band 26 and Band 41 with power adaptor. The worst-case of E2 position for CDMA/EVDO and LTE Band 25/26, H position for LTE Band 41 were reported.

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**The evaluation of Test Mode as configured in UE presented on the Test Report:****CDMA2000/EVDO:****Radiated Spurious Emission**

The Measurement Data of field strength of spurious emission with respect to supported configuration of given application (Transmission Band, Modulation Scheme, Resource Block) have been pre-scanned, and the result that yields in the highest emission close to the limit are presented on the test report.

EVDO is the worst-case found in the pre-scanned measurement, and only data that yields the worst case is revealed on the test report.

**LTE:****Radiated Spurious Emission**

The Measurement Data of field strength of spurious emission with respect to supported configuration of given application (Transmission Band, Modulation Scheme, Resource Block) have been pre-scanned, and the result that yields in the highest emission close to the limit are presented on the test report.

**Out of Band Emission at Antenna Terminal, and Bandedge**

In comparison among all Out of Band Emission at Antenna Terminal and Bandedge in the variety of combination on LTE band 25/26 & 41, respectively, It's revealed to generate the highest emission while RB size = 1 with offset of both extremity for all supported transmission bandwidth of all supported frequency band. Be aware of that only data measurement that yields the worst measurement with supported modulation scheme (QPSK, 16QAM), QPSK – the worst, is shown on the corresponding section.

**Peak to Average Ratio**

For Peak to Average Ratio test, all combination (RB arrangement with different modulation scheme) has been evaluated, the data with the following configuration: RB number = full and modulation = 16QAM is revealed to generate the worst case result.

Only data that generates the worst-case result is shown on the report.

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## 5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.42 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 123.36 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.55 dB
Peak to Average Ratio	+/- 1.55 dB
Frequency Stability vs. Temperature	+/- 123.36 Hz
Frequency Stability vs. Voltage	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 0.2%

### Radiated Spurious Emission:

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

Measurement uncertainty (Polarization : <b>Horizontal</b> )	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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## 6. RF POWER OUTPUT MEASUREMENT

### 6.1. Standard Applicable:

According to FCC §2.1046.

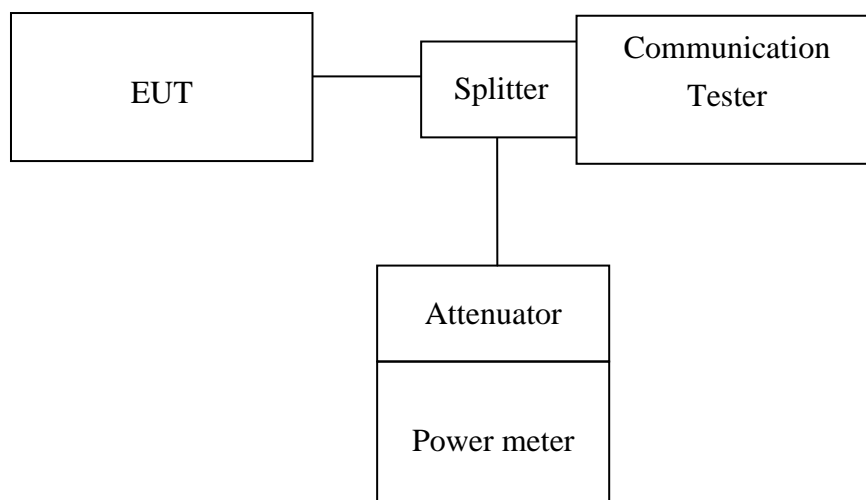
FCC 22.913(a) Mobile station are limited to 7W.

FCC 24.232(c) Peak Power Measurement limited to 2W

FCC 24.232(c) Equipment must employ means to limit the power to the minimum necessary for successful communication.

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

### 6.2. Test Set-up:



**Note:** Measurement setup for testing on Antenna connector

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### 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 KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

Necessary Communication complying with 24.232 (c) and 27.5(d)(4)

Set CMU200 (base-station simulator) MS Signal with packet data submenu; SLOT Configuration

Set appropriate level to verify if or not power on mobile station's link with simulator still exists.

### 6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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## 6.5. Measurement Result:

### 6.5.1. RF Conducted Output Power

#### 6.5.1.1.: CDMA2000/EVDO

Result:

EUT Mode	Frequency (MHz)	CH	Avg. Power (dBm)
CDMA 2000 Cellular BC0	824.70	1013	23.85
	836.52	384	23.92
	848.31	777	23.89

EUT Mode	Frequency (MHz)	CH	Avg. Power (dBm)
CDMA 2000 PCS BC1	1851.25	25	23.97
	1880.00	600	23.99
	1908.75	1175	23.98

EUT Mode	Frequency (MHz)	CH	Avg. Power (dBm)
CDMA 2000 PCS BC10	817.90	476	23.96
	820.50	580	23.90
	823.10	684	23.82

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EUT Mode	Frequency (MHz)	CH	Avg. Power (dBm)
CDMA 2000 EVDO Cellular BC0	824.70	1013	23.80
	836.52	384	23.91
	848.31	777	23.93

EUT Mode	Frequency (MHz)	CH	Avg. Power (dBm)
CDMA 2000 EVDO PCS BC1	1851.25	25	23.95
	1880.00	600	23.98
	1908.75	1175	23.99

EUT Mode	Frequency (MHz)	CH	Avg. Power (dBm)
CDMA 2000 EVDO BC10	817.90	476	23.97
	820.50	580	23.98
	823.10	684	23.99

Cable loss offset CDMA2000 Cell BC0: 13.9dB

Cable loss offset CDMA PCS BC1: 14.2dB

Cable loss offset CDMA BC10: 13.9dB

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### 6.5.1.2: Table

#### LTE Band 25\_1.4MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
1.4	QPSK	26047	1850.7	1	0	22.61
				1	5	23.09
				3	2	23.08
				6	0	22.15
		26365	1882.5	1	0	22.95
				1	5	22.93
				3	2	23.10
				6	0	22.16
		26683	1914.3	1	0	22.89
				1	5	22.97
				3	3	23.08
				6	0	22.09
1.4	16 QAM	26047	1850.7	1	0	22.16
				1	5	22.14
				3	2	22.25
				6	0	21.01
		26365	1882.5	1	0	22.53
				1	5	22.71
				3	3	21.95
				6	0	21.03
		26683	1914.3	1	0	22.45
				1	5	22.16
				3	2	22.00
				6	0	21.06

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# LTE Band 25\_3MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
3	QPSK	26055	1851.5	1	0	22.72
				1	14	22.91
				8	4	22.02
				15	0	22.02
		26365	1882.5	1	0	23.24
				1	14	23.16
				8	4	22.16
				15	0	22.19
		26675	1913.5	1	0	23.08
				1	14	22.88
				8	4	22.14
				15	0	22.15
3	16 QAM	26055	1851.5	1	0	22.67
				1	14	22.24
				8	4	21.16
				15	0	21.14
		26365	1882.5	1	0	22.16
				1	14	22.34
				8	4	21.05
				15	0	21.13
		26675	1913.5	1	0	22.39
				1	14	22.64
				8	4	21.06
				15	0	21.32

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# LTE Band 25\_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	26065	1852.5	1	0	22.99
				1	24	22.89
				12	6	22.13
				25	0	22.17
		26365	1882.5	1	0	23.24
				1	24	23.11
				12	6	22.23
				25	0	22.13
		26665	1912.5	1	0	23.16
				1	24	23.13
				12	6	22.30
				25	0	22.13
5	16 QAM	26065	1852.5	1	0	22.48
				1	24	22.01
				12	6	21.14
				25	0	21.15
		26365	1882.5	1	0	22.61
				1	24	22.16
				12	6	21.11
				25	0	21.10
		26665	1912.5	1	0	22.15
				1	24	22.63
				12	6	21.16
				25	0	21.61

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# LTE Band 25\_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	26090	1855.0	1	0	23.37
				1	49	22.85
				25	12	22.15
				50	0	22.08
		26365	1882.5	1	0	23.31
				1	49	22.99
				25	12	22.19
				50	0	22.15
		26640	1910.0	1	0	23.37
				1	49	23.34
				25	12	22.18
				50	0	22.21
10	16 QAM	26090	1855.0	1	0	22.83
				1	49	22.27
				25	12	21.02
				50	0	21.05
		26365	1882.5	1	0	22.96
				1	49	22.42
				25	12	21.01
				50	0	21.22
		26640	1910.0	1	0	22.16
				1	49	22.04
				25	12	21.25
				50	0	21.33

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# LTE Band 25\_15MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
15	QPSK	26115	1857.5	1	0	23.37
				1	74	22.87
				36	19	22.00
				75	0	22.09
		26365	1882.5	1	0	23.30
				1	74	23.24
				36	19	22.14
				75	0	22.14
		26615	1907.5	1	0	23.34
				1	74	23.16
				36	19	22.16
				75	0	22.18
15	16 QAM	26115	1857.5	1	0	22.10
				1	74	22.05
				36	19	21.06
				75	0	21.03
		26365	1882.5	1	0	22.38
				1	74	22.43
				36	19	21.13
				75	0	21.16
		26615	1907.5	1	0	22.99
				1	74	22.52
				36	19	21.17
				75	0	21.19

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## LTE Band 25\_20MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
20	QPSK	26140	1860.0	1	0	23.37
				1	99	23.21
				50	25	22.07
				100	0	22.03
		26365	1882.5	1	0	23.32
				1	99	23.06
				50	25	22.16
				100	0	22.19
		26590	1905.0	1	0	23.24
				1	99	23.16
				50	25	22.20
				100	0	22.22
20	16 QAM	26140	1860.0	1	0	21.63
				1	99	21.88
				50	25	21.05
				100	0	21.14
		26365	1882.5	1	0	22.44
				1	99	22.66
				50	25	21.15
				100	0	21.20
		26590	1905.0	1	0	22.54
				1	99	22.63
				50	25	21.19
				100	0	21.22

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## LTE Band 26\_1.4MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
1.4	QPSK	26797	824.7	1	0	23.76
				1	5	23.74
				3	2	22.60
				6	0	22.67
		26915	836.5	1	0	23.62
				1	5	23.56
				3	2	21.49
				6	0	21.90
		27033	848.3	1	0	22.95
				1	5	23.02
				3	2	21.64
				6	0	21.63
1.4	16 QAM	26797	824.7	1	0	23.50
				1	5	23.32
				3	2	21.52
				6	0	21.61
		26915	836.5	1	0	23.28
				1	5	23.25
				3	2	21.59
				6	0	21.67
		27033	848.3	1	0	22.85
				1	5	23.10
				3	2	22.61
				6	0	22.57

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# LTE Band 26\_3MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
3	QPSK	26805	825.5	1	0	23.55
				1	14	23.46
				8	4	22.49
				15	0	22.61
		26915	836.5	1	0	23.64
				1	14	23.55
				8	4	22.54
				15	0	22.51
		27025	847.5	1	0	23.28
				1	14	23.26
				8	4	22.41
				15	0	22.48
3	16 QAM	26805	825.5	1	0	23.17
				1	14	22.70
				8	4	21.76
				15	0	21.82
		26915	836.5	1	0	22.20
				1	14	22.16
				8	4	21.74
				15	0	21.72
		27025	847.5	1	0	22.06
				1	14	22.02
				8	4	21.83
				15	0	21.20

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## LTE Band 26\_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	26815	826.5	1	0	23.44
				1	24	23.30
				12	6	22.58
				25	0	22.58
		26915	836.5	1	0	23.50
				1	24	23.32
				12	6	22.61
				25	0	22.57
		27015	846.5	1	0	23.28
				1	24	23.25
				12	6	22.53
				25	0	22.55
5	16 QAM	26815	826.5	1	0	22.85
				1	24	23.10
				12	6	21.56
				25	0	21.60
		26915	836.5	1	0	23.21
				1	24	22.78
				12	6	21.52
				25	0	21.61
		27015	846.5	1	0	22.77
				1	24	22.15
				12	6	21.59
				25	0	21.67

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## LTE Band 26\_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	26840	829.0	1	0	23.62
				1	49	23.56
				25	12	22.74
				50	0	22.47
		26915	836.5	1	0	23.66
				1	49	23.39
				25	12	22.70
				50	0	22.61
		26990	844.0	1	0	23.77
				1	49	23.59
				25	12	22.60
				50	0	22.67
10	16 QAM	26840	829.0	1	0	22.40
				1	49	23.02
				25	12	21.49
				50	0	21.90
		26915	836.5	1	0	23.76
				1	49	23.74
				25	12	21.64
				50	0	21.82
		26990	844.0	1	0	22.95
				1	49	23.02
				25	12	21.64
				50	0	21.63

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## LTE Band 26\_1.4MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
1.4	QPSK	26697	814.7	1	0	23.07
				1	5	23.12
				3	2	22.05
				6	0	22.15
		26740	819.0	1	0	23.01
				1	5	23.11
				3	2	22.08
				6	0	22
		26783	823.3	1	0	23.06
				1	5	23.02
				3	2	22.19
				6	0	22.04
1.4	16 QAM	26697	814.7	1	0	22.07
				1	5	22.19
				3	2	21.19
				6	0	21.06
		26740	819.0	1	0	22.52
				1	5	22.42
				3	2	21.21
				6	0	21.11
		26783	823.3	1	0	22.35
				1	5	22.15
				3	2	21.01
				6	0	21.04

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# LTE Band 26\_3MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
3	QPSK	26705	815.5	1	0	23.05
				1	14	23.12
				8	4	22.00
				15	0	22.06
		26740	819.0	1	0	23.07
				1	14	23.11
				8	4	22.08
				15	0	22.01
		26775	822.5	1	0	23.06
				1	14	23.02
				8	4	22.04
				15	0	22.01
3	16 QAM	26705	815.5	1	0	22.05
				1	14	22.19
				8	4	21.14
				15	0	21.06
		26740	819.0	1	0	22.52
				1	14	22.47
				8	4	21.24
				15	0	21.18
		26775	822.5	1	0	22.39
				1	14	22.18
				8	4	21.04
				15	0	21.04

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## LTE Band 26\_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	26715	816.5	1	0	23.07
				1	24	22.98
				12	6	22.06
				25	0	22.00
		26740	819.0	1	0	22.98
				1	24	22.74
				12	6	22.08
				25	0	22.07
		26765	821.5	1	0	22.90
				1	24	22.90
				12	6	22.05
				25	0	22.04
5	16 QAM	26715	816.5	1	0	22.06
				1	24	22.19
				12	6	21.05
				25	0	21.05
		26740	819.0	1	0	22.80
				1	24	22.53
				12	6	21.04
				25	0	21.20
		26765	821.5	1	0	22.51
				1	24	22.43
				12	6	21.01
				25	0	21.09

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## LTE Band 26\_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	26740	819.0	1	0	23.00
				1	49	22.81
				25	12	22.07
				50	0	22.05
10	16 QAM	26740	819.0	1	0	22.22
				1	49	21.73
				25	12	21.17
				50	0	21.08

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## LTE Band 41\_5MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
5	QPSK	39675	2498.5	1	0	23.83
				1	24	23.65
				12	6	22.59
				25	0	22.57
		40620	2593.0	1	0	23.67
				1	24	23.60
				12	6	22.78
				25	0	22.82
		41565	2687.5	1	0	23.62
				1	24	23.57
				12	6	22.68
				25	0	22.60
5	16 QAM	39675	2498.5	1	0	22.77
				1	24	22.54
				12	6	21.58
				25	0	21.68
		40620	2593.0	1	0	22.94
				1	24	22.76
				12	6	21.82
				25	0	22.05
		41565	2687.5	1	0	22.85
				1	24	22.66
				12	6	21.63
				25	0	21.84

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## LTE Band 41\_10MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
10	QPSK	39700	2501.0	1	0	23.91
				1	49	23.56
				25	12	22.59
				50	0	22.66
		40620	2593.0	1	0	23.72
				1	49	23.61
				25	12	22.84
				50	0	22.80
		41540	2685.0	1	0	23.79
				1	49	23.63
				25	12	22.67
				50	0	22.71
10	16 QAM	39700	2501.0	1	0	22.66
				1	49	22.79
				25	12	21.97
				50	0	21.64
		40620	2593.0	1	0	22.62
				1	49	22.67
				25	12	22.06
				50	0	21.72
		41540	2685.0	1	0	22.64
				1	49	22.64
				25	12	21.77
				50	0	21.60

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## LTE Band 41\_15MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
15	QPSK	39725	2503.5	1	0	23.89
				1	74	23.46
				36	18	22.67
				75	0	22.72
		40620	2593.0	1	0	23.90
				1	74	23.70
				36	19	22.82
				75	0	22.77
		41515	2682.5	1	0	23.82
				1	74	23.50
				36	18	22.67
				75	0	22.68
15	16 QAM	39725	2503.5	1	0	23.14
				1	74	23.82
				36	19	21.53
				75	0	21.69
		40620	2593.0	1	0	23.23
				1	74	22.96
				36	18	21.85
				75	0	21.69
		41515	2682.5	1	0	23.93
				1	74	23.69
				36	18	21.47
				75	0	21.75

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## LTE Band 41\_20MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power (dBm)
20	QPSK	39750	2506.0	1	0	23.94
				1	99	23.57
				50	25	22.62
				100	0	22.69
		40620	2593.0	1	0	23.99
				1	99	23.74
				50	25	22.91
				100	0	22.85
		41490	2680.0	1	0	23.75
				1	99	23.34
				50	25	22.62
				100	0	22.82
20	16 QAM	39750	2506.0	1	0	23.18
				1	99	23.11
				50	25	21.48
				100	0	21.62
		40620	2593.0	1	0	24.00
				1	99	23.87
				50	25	22.00
				100	0	21.78
		41490	2680.0	1	0	22.66
				1	99	22.81
				50	25	21.58
				100	0	21.86

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## 7. ERP, EIRP MEASUREMENT

### 7.1. Standard Applicable:

According to FCC §2.1046

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

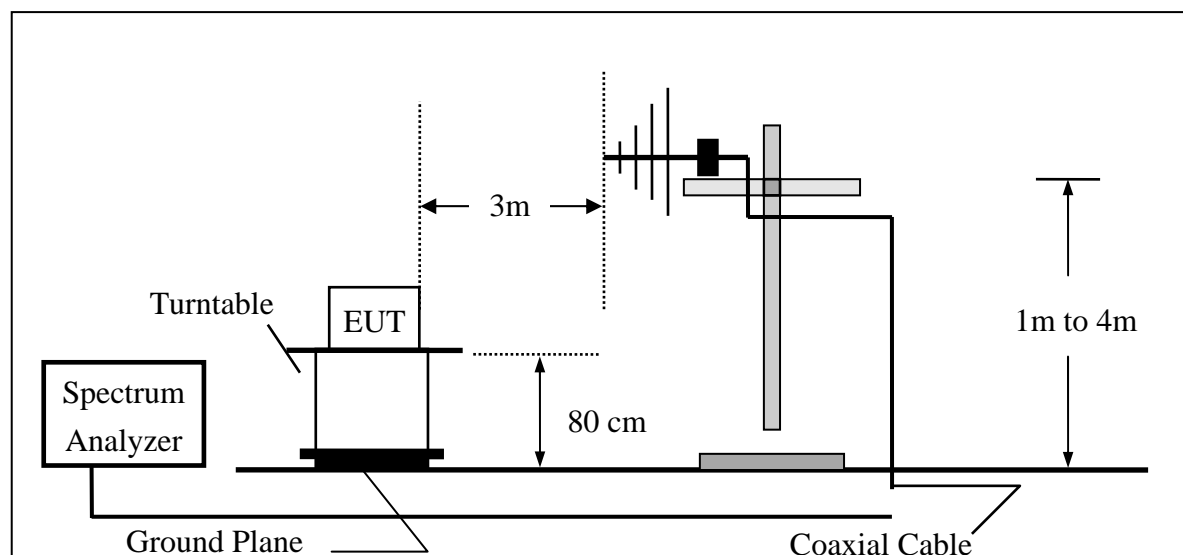
FCC 24.232(b) Mobile station is limited to 2W EIRP.

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

FCC 90.635(b) Mobile station is limited to 100W ERP.

### 7.2. Test SET-UP (Block Diagram of Configuration):

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



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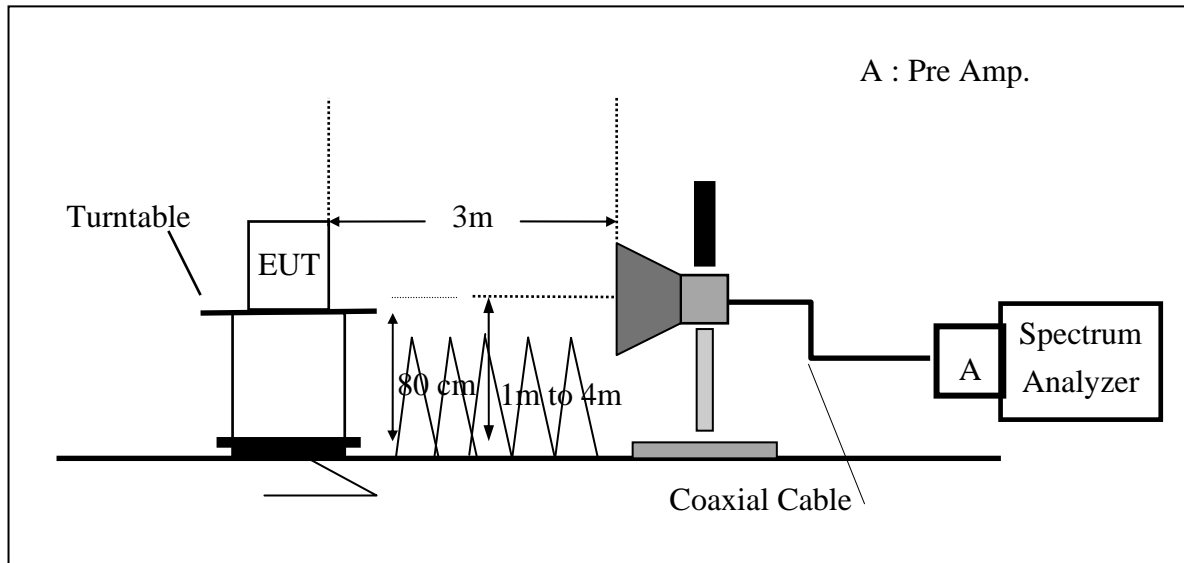
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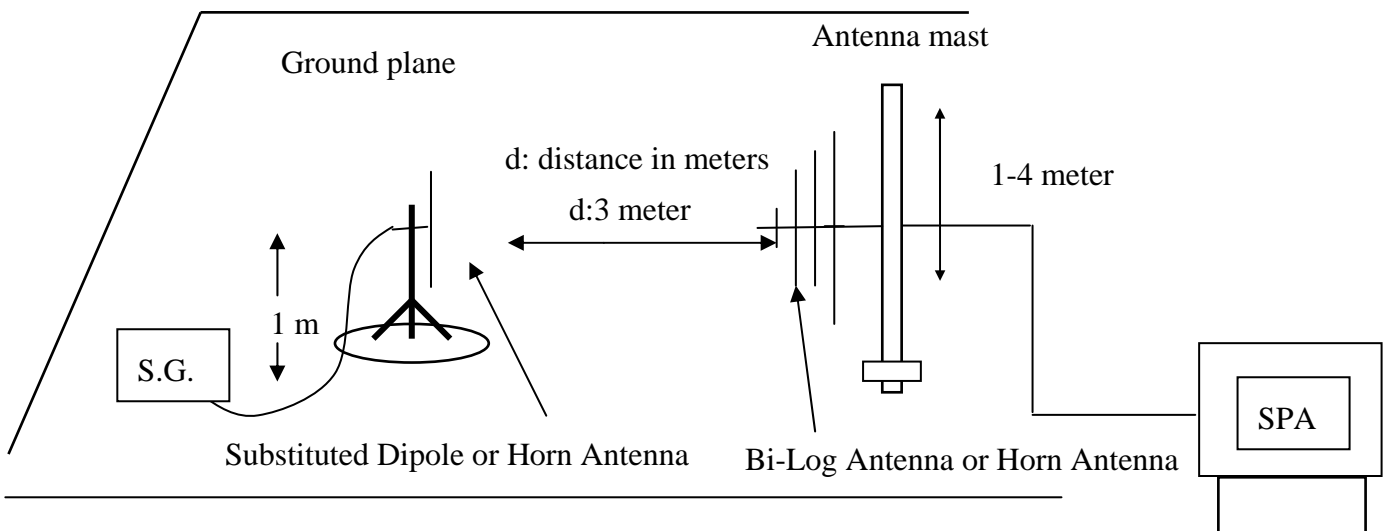
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## (B) Radiated Power Test Set-UP Frequency Over 1 GHz



## (C) Substituted Method Test Set-UP



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### 7.3. Measurement Procedure:

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.

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.

ERP in frequency band 817.9 –823.10MHz and 824.2 –848.80MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz and 2498.5 – 2687.5MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$$
$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

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Spectrum setting:

1. Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and  $VBW \geq 3 \times RBW$ .

Or,

2. KDB 971168 D01 Power Meas License Digital Systems v01 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 = 601 points, then sweep time =  $601 \times 10^{-3} = 6s$ ).

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

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

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

#### 7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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## 7.5. Measurement Result: –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA 2000 Cellular BC0	824.7	1013	V	19.85	3.75	-3.03	20.58	38.45
			H	13.9	3.76	-3.03	14.62	38.45
	836.52	384	V	20.32	3.76	-3.07	<b>21.01</b>	38.45
			H	20.15	3.76	-3.07	20.85	38.45
	848.31	777	V	20.1	3.77	-3.1	20.76	38.45
			H	12.89	3.77	-3.1	13.56	38.45

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EVDO 2000 Cellular BC0	824.7	1013	V	17.95	3.75	-3.03	18.67	38.45
			H	12.33	3.75	-3.03	13.06	38.45
	836.52	384	V	5.11	3.76	-3.07	5.8	38.45
			H	18.7	3.76	-3.07	<b>19.39</b>	38.45
	848.31	777	V	18.03	3.77	-3.1	18.69	38.45
			H	12.73	3.77	-3.11	13.4	38.45

### Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA 2000 PCS BC1	1851.25	25	V	18.72	5.22	-4.67	19.27	33.00
			H	11.86	5.22	-4.67	12.41	33.00
	1880.0	600	V	18.25	5.16	-4.7	18.71	33.00
			H	12.81	5.16	-4.7	13.27	33.00
	1908.75	1175	V	20.04	5.1	-4.74	<b>20.4</b>	33.00
			H	16.5	5.1	-4.74	16.85	33.00

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
EVDO 2000 PCS BC1	1851.25	25	V	16.44	5.22	-4.67	16.99	33.00
			H	11.09	5.22	-4.67	11.64	33.00
	1880.0	600	V	14.96	5.16	-4.7	15.41	33.00
			H	10.72	5.16	-4.7	11.17	33.00
	1908.75	1175	V	19.19	5.1	-4.74	<b>19.55</b>	33.00
			H	15.4	5.1	-4.74	15.75	33.00

# Remark :

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

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
CDMA 2000 BC10	817.9	476	V	11.18	3.75	-3.01	11.93	50.00
			H	17.15	3.75	-3.01	17.9	50.00
	820.5	580	V	13.9	3.75	-3.02	14.64	50.00
			H	18.99	3.75	-3.02	<b>19.73</b>	50.00
	823.1	684	V	10.75	3.75	-3.02	11.48	50.00
			H	17	3.75	-3.03	17.72	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	9.66	3.75	-3.01	10.4	50.00
			H	14.6	3.75	-3.01	15.34	50.00
	820.5	580	V	8.98	3.75	-3.02	9.71	50.00
			H	13.91	3.75	-3.02	14.64	50.00
	823.1	684	V	9.41	3.75	-3.03	10.13	50.00
			H	15.39	3.75	-3.03	<b>16.12</b>	50.00

#### Remark :

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

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### BAND 25 / BW: 1.4M / QPSK / RB: 1,0

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
<b>BAND 25 BW: 1.4M/ QPSK RB: 1,0</b>	1850.7	26047	V	23.93	5.23	-4.67	<b>24.49</b>	33.00
			H	18.32	5.22	-4.67	18.88	33.00
	1882.5	26365	V	24.03	5.16	-4.71	24.48	33.00
			H	19.93	5.15	-4.71	20.38	33.00
	1914.3	26683	V	23.74	5.09	-4.74	24.08	33.00
			H	18.36	5.08	-4.74	18.7	33.00

### BAND 25 / BW: 1.4M / QPSK / RB: 1,5

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
<b>BAND 25 BW: 1.4M QPSK RB: 1,5</b>	1850.7	26047	V	24.24	5.22	-4.67	<b>24.79</b>	33.00
			H	18.07	5.22	-4.67	18.63	33.00
	1882.5	26365	V	23.9	5.15	-4.71	24.34	33.00
			H	19.81	5.15	-4.71	20.25	33.00
	1914.3	26683	V	23.1	5.08	-4.74	23.44	33.00
			H	18.01	5.08	-4.74	18.35	33.00

#### Remark :

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

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### BAND 25 / BW: 1.4M / 16QAM / RB: 1,0

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
<b>BAND 25 BW: 1.4M 16QAM RB: 1,0</b>	1850.7	26047	V	23.83	5.23	-4.67	24.39	33.00
			H	18.03	5.22	-4.67	18.59	33.00
	1882.5	26365	V	24.13	5.15	-4.71	<b>24.58</b>	33.00
			H	20.05	5.15	-4.71	20.5	33.00
	1914.3	26683	V	23.53	5.09	-4.74	23.88	33.00
			H	17.74	5.09	-4.74	18.08	33.00

### BAND 25 / BW: 1.4M / 16QAM / RB: 1,5

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
<b>BAND 25 BW: 1.4M 16QAM RB: 1,5</b>	1850.7	26047	V	24.33	5.22	-4.67	<b>24.88</b>	33.00
			H	18.32	5.22	-4.67	18.87	33.00
	1882.5	26365	V	24.07	5.15	-4.71	24.52	33.00
			H	19.19	5.15	-4.71	19.64	33.00
	1914.3	26683	V	23.71	5.08	-4.74	24.05	33.00
			H	17.45	5.08	-4.74	17.79	33.00

#### Remark :

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

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### BAND 25 / BW: 3M / QPSK / RB: 1,0

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
<b>BAND 25 BW: 3M QPSK RB: 1,0</b>	1851.5	26055	V	24.89	5.23	-4.67	<b>25.44</b>	33.00
			H	18.93	5.22	-4.67	19.48	33.00
	1882.5	26365	V	24.08	5.16	-4.71	24.53	33.00
			H	20.05	5.16	-4.71	20.5	33.00
	1913.5	26675	V	24.53	5.09	-4.74	24.88	33.00
			H	18.14	5.09	-4.74	18.49	33.00

### BAND 25 / BW: 3M / QPSK / RB: 1,14

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
<b>BAND 25 BW: 3M QPSK RB: 1,14</b>	1851.5	26055	V	24.93	5.22	-4.67	<b>25.48</b>	33.00
			H	17.87	5.22	-4.67	18.42	33.00
	1882.5	26365	V	24.12	5.15	-4.71	24.57	33.00
			H	19.62	5.15	-4.71	20.07	33.00
	1913.5	26675	V	23.45	5.08	-4.74	23.79	33.00
			H	17.87	5.08	-4.74	18.21	33.00

#### Remark :

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

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### BAND 25 / BW: 3M / 16QAM / RB: 1,0

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
<b>BAND 25 BW: 3M 16QAM RB: 1,0</b>	1851.5	26055	V	24.94	5.22	-4.67	<b>25.5</b>	33.00
			H	18.04	5.23	-4.67	18.6	33.00
	1882.5	26365	V	24.37	5.16	-4.71	24.82	33.00
			H	20.13	5.16	-4.71	20.58	33.00
	1913.5	26675	V	24.24	5.09	-4.74	24.59	33.00
			H	18.62	5.09	-4.74	18.97	33.00

### BAND 25 / BW: 3M / 16QAM / RB: 1,14

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
<b>BAND 25 BW: 3M 16QAM RB: 1,14</b>	1851.5	26055	V	24.54	5.22	-4.67	<b>25.09</b>	33.00
			H	17.95	5.22	-4.67	18.5	33.00
	1882.5	26365	V	23.74	5.15	-4.71	24.18	33.00
			H	20.03	5.15	-4.71	20.47	33.00
	1913.5	26675	V	23.69	5.08	-4.74	24.03	33.00
			H	18.47	5.08	-4.74	18.81	33.00

#### Remark :

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

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### BAND 25 / BW: 5M / QPSK / RB: 1,0

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
<b>BAND 25 BW: 5M QPSK RB: 1,0</b>	1852.5	26065	V	24.4	5.22	-4.67	<b>24.95</b>	33.00
			H	18.15	5.23	-4.67	18.71	33.00
	1882.5	26365	V	24.48	5.16	-4.7	24.93	33.00
			H	19.97	5.16	-4.71	20.42	33.00
	1912.5	26665	V	24.48	5.09	-4.74	24.84	33.00
			H	18.37	5.09	-4.74	18.72	33.00

### BAND 25 / BW: 5M / QPSK / RB: 1,24

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
<b>BAND 25 BW: 5M QPSK RB: 1,24</b>	1852.5	26065	V	25.01	5.22	-4.67	<b>25.55</b>	33.00
			H	16.56	5.22	-4.67	17.1	33.00
	1882.5	26365	V	23.91	5.15	-4.71	24.35	33.00
			H	19.59	5.15	-4.71	20.03	33.00
	1912.5	26665	V	23.4	5.08	-4.74	23.74	33.00
			H	17.88	5.08	-4.74	18.22	33.00

#### Remark :

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

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**BAND 25 / BW: 5M / 16QAM / RB: 1,0**

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
<b>BAND 25 BW: 5M 16QAM RB: 1,0</b>	1852.5	26065	V	24.82	5.22	-4.67	<b>25.37</b>	33.00
			H	18	5.22	-4.67	18.56	33.00
	1882.5	26365	V	24.51	5.16	-4.7	24.97	33.00
			H	20.02	5.16	-4.7	20.48	33.00
	1912.5	26665	V	24.4	5.09	-4.74	24.75	33.00
			H	18.5	5.09	-4.74	18.85	33.00

**BAND 25 / BW: 5M / 16QAM / RB: 1,24**

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
<b>BAND 25 BW: 5M 16QAM RB: 1,24</b>	1852.5	26065	V	24.79	5.22	-4.67	<b>25.34</b>	33.00
			H	16.94	5.21	-4.67	17.48	33.00
	1882.5	26365	V	23.91	5.15	-4.71	24.35	33.00
			H	20.02	5.15	-4.71	20.46	33.00
	1912.5	26665	V	23.52	5.08	-4.74	23.86	33.00
			H	17.61	5.08	-4.74	17.95	33.00

**Remark :**

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

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### BAND 25 / BW: 10M / QPSK / RB: 1,0

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
<b>BAND 25 BW: 10M QPSK RB: 1,0</b>	1855.0	26090	V	24.57	5.23	-4.67	<b>25.13</b>	33.00
			H	18.15	5.23	-4.67	18.71	33.00
	1882.5	26365	V	23.84	5.16	-4.7	24.3	33.00
			H	19.93	5.16	-4.7	20.39	33.00
	1910.0	26640	V	24.36	5.1	-4.73	24.73	33.00
			H	18.55	5.1	-4.73	18.92	33.00

### BAND 25 / BW: 10M / QPSK / RB: 1,49

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
<b>BAND 25 BW: 10M QPSK RB: 1,49</b>	1855.0	26090	V	25.13	5.21	-4.68	<b>25.66</b>	33.00
			H	15.51	5.21	-4.68	16.03	33.00
	1882.5	26365	V	23.03	5.14	-4.71	23.46	33.00
			H	17.72	5.14	-4.71	18.15	33.00
	1910.0	26640	V	23.46	5.08	-4.74	23.81	33.00
			H	17.3	5.08	-4.74	17.64	33.00

#### Remark :

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

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### BAND 25 / BW: 10M / 16QAM / RB: 1,0

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
<b>BAND 25 BW: 10M 16QAM RB: 1,0</b>	1855.0	26090	V	24.16	5.22	-4.67	24.71	33.00
			H	18.7	5.22	-4.67	19.25	33.00
	1882.5	26365	V	23.84	5.16	-4.7	24.3	33.00
			H	19.99	5.16	-4.7	20.45	33.00
	1910.0	26640	V	24.74	5.1	-4.73	<b>25.11</b>	33.00
			H	18.28	5.1	-4.73	18.64	33.00

### BAND 25 / BW: 10M / 16QAM / RB: 1,49

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
<b>BAND 25 BW: 10M 16QAM RB: 1,49</b>	1855.0	26090	V	25.57	5.21	-4.68	<b>26.09</b>	33.00
			H	15.78	5.2	-4.68	16.3	33.00
	1882.5	26365	V	23.09	5.14	-4.71	23.52	33.00
			H	17.42	5.14	-4.71	17.85	33.00
	1910.0	26640	V	23.59	5.08	-4.74	23.93	33.00
			H	17.67	5.08	-4.74	18.01	33.00

#### Remark :

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

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### BAND 25 / BW: 15M / QPSK / RB: 1,0

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
<b>BAND 25 BW: 15M QPSK RB: 1,0</b>	1857.5	26115	V	24.54	5.22	-4.67	<b>25.09</b>	33.00
			H	18.53	5.22	-4.67	19.08	33.00
	1882.5	26365	V	24.32	5.17	-4.7	24.79	33.00
			H	20.07	5.17	-4.7	20.54	33.00
	1907.5	26615	V	23.94	5.11	-4.73	24.33	33.00
			H	19.44	5.11	-4.73	19.83	33.00

### BAND 25 / BW: 15M / QPSK / RB: 1,74

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
<b>BAND 25 BW: 15M QPSK RB: 1,74</b>	1857.5	26115	V	24.94	5.19	-4.69	<b>25.45</b>	33.00
			H	13.19	5.19	-4.69	13.7	33.00
	1882.5	26365	V	23.46	5.14	-4.71	23.89	33.00
			H	15.59	5.14	-4.71	16.01	33.00
	1907.5	26615	V	23.35	5.08	-4.74	23.69	33.00
			H	17.19	5.08	-4.74	17.53	33.00

#### Remark :

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

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### BAND 25 / BW: 15M / 16QAM / RB: 1,0

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
<b>BAND 25 BW: 15M 16QAM RB: 1,0</b>	1857.5	26115	V	24.51	5.22	-4.67	<b>25.06</b>	33.00
			H	18.27	5.22	-4.67	18.82	33.00
	1882.5	26365	V	24.28	5.17	-4.7	24.75	33.00
			H	20.42	5.17	-4.7	20.89	33.00
	1907.5	26615	V	23.86	5.11	-4.73	24.24	33.00
			H	18.97	5.11	-4.73	19.36	33.00

### BAND 25 / BW: 15M / 16QAM / RB: 1,74

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
<b>BAND 25 BW: 15M 16QAM RB: 1,74</b>	1857.5	26115	V	24.67	5.19	-4.69	<b>25.18</b>	33.00
			H	12.81	5.19	-4.69	13.32	33.00
	1882.5	26365	V	23.47	5.14	-4.71	23.9	33.00
			H	15.8	5.14	-4.71	16.23	33.00
	1907.5	26615	V	23.13	5.08	-4.74	23.47	33.00
			H	16.89	5.08	-4.74	17.23	33.00

#### Remark :

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

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### BAND 25 / BW: 20M / QPSK / RB: 1,0

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
<b>BAND 25 BW: 20M QPSK RB: 1,0</b>	1860.0	26140	V	24.69	5.22	-4.67	<b>25.25</b>	33.00
			H	18.48	5.22	-4.67	19.03	33.00
	1882.5	26365	V	24.64	5.17	-4.7	25.12	33.00
			H	20.3	5.17	-4.7	20.77	33.00
	1905.0	26590	V	23.36	5.12	-4.72	23.76	33.00
			H	18.09	5.12	-4.72	18.5	33.00

### BAND 25 / BW: 20M / QPSK / RB: 1,99

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
<b>BAND 25 BW: 20M QPSK RB: 1,99</b>	1860.0	26140	V	25.15	5.18	-4.69	<b>25.65</b>	33.00
			H	15.51	5.18	-4.69	16.01	33.00
	1882.5	26365	V	23.08	5.13	-4.72	23.5	33.00
			H	16.06	5.13	-4.72	16.47	33.00
	1905.0	26590	V	21.85	5.09	-4.74	22.19	33.00
			H	16.47	5.08	-4.74	16.81	33.00

#### Remark :

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

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### BAND 25 / BW: 20M /16QAM / RB: 1,0

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
<b>BAND 25 BW: 20M 16QAM RB: 1,0</b>	1860.0	26140	V	24.7	5.22	-4.67	<b>25.26</b>	33.00
			H	18.1	5.22	-4.67	18.65	33.00
	1882.5	26365	V	24.4	5.17	-4.7	24.88	33.00
			H	19.99	5.17	-4.7	20.47	33.00
	1905.0	26590	V	23.44	5.12	-4.72	23.84	33.00
			H	17.65	5.12	-4.72	18.05	33.00

### BAND 25 / BW: 20M / 16QAM / RB: 1,99

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
<b>BAND 25 BW: 20M 16QAM RB: 1,99</b>	1860.0	26140	V	25.12	5.18	-4.69	<b>25.61</b>	33.00
			H	15.02	5.18	-4.69	15.51	33.00
	1882.5	26365	V	22.8	5.14	-4.72	23.22	33.00
			H	15.78	5.13	-4.72	16.2	33.00
	1905.0	26590	V	21.44	5.08	-4.74	21.79	33.00
			H	16.24	5.08	-4.74	16.58	33.00

#### Remark :

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

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### BAND 26 / BW: 1.4M / QPSK / RB: 1,0

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
<b>BAND 26 BW: 1.4M QPSK RB: 1,0</b>	824.7	26797	V	15.49	3.75	-3.03	16.22	38.50
			H	23.53	3.75	-3.03	<b>24.25</b>	38.50
	836.5	26915	V	8.95	3.76	-3.07	9.65	38.50
			H	18.66	3.76	-3.07	19.36	38.50
	848.3	27033	V	6.58	3.77	-3.1	7.25	38.50
			H	16.23	3.77	-3.1	16.89	38.50

### BAND 26 / BW: 1.4M / QPSK / RB: 1,5

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
<b>BAND 26 BW: 1.4M QPSK RB: 1,5</b>	824.7	26797	V	15.31	3.76	-3.03	16.03	38.50
			H	23.57	3.76	-3.03	<b>24.29</b>	38.50
	836.5	26915	V	8.77	3.76	-3.07	9.47	38.50
			H	18.56	3.76	-3.07	19.25	38.50
	848.3	27033	V	5.69	3.77	-3.1	6.35	38.50
			H	15.4	3.77	-3.1	16.06	38.50

#### Remark :

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

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### BAND 26 / BW: 1.4M / 16QAM / RB: 1,0

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
<b>BAND 26 BW: 1.4M 16QAM RB: 1,0</b>	824.7	26797	V	15.84	3.76	-3.03	16.56	38.50
			H	23.7	3.75	-3.03	<b>24.42</b>	38.50
	836.5	26915	V	9.84	3.76	-3.06	10.54	38.50
			H	19.55	3.76	-3.06	20.24	38.50
	848.3	27033	V	7.53	3.77	-3.1	8.2	38.50
			H	17.09	3.77	-3.1	17.76	38.50

### BAND 26 / BW: 1.4M / 16QAM / RB: 1,5

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
<b>BAND 26 BW: 1.4M 16QAM RB: 1,5</b>	824.7	26797	V	15.76	3.75	-3.03	16.49	38.50
			H	23.8	3.76	-3.03	<b>24.53</b>	38.50
	836.5	26915	V	9.69	3.76	-3.07	10.39	38.50
			H	19.46	3.76	-3.07	20.16	38.50
	848.3	27033	V	6.54	3.77	-3.1	7.2	38.50
			H	16.29	3.77	-3.1	16.95	38.50

#### Remark :

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

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### BAND 26 / BW: 3M / QPSK / RB: 1,0

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
<b>BAND 26 BW: 3M QPSK RB: 1,0</b>	825.5	26805	V	15.77	3.75	-3.03	16.49	38.50
			H	23.66	3.75	-3.03	<b>24.38</b>	38.50
	836.5	26915	V	10.07	3.76	-3.06	10.77	38.50
			H	19.1	3.76	-3.06	19.8	38.50
	847.5	27025	V	6.14	3.77	-3.09	6.81	38.50
			H	16.28	3.77	-3.09	16.95	38.50

### BAND 26 / BW: 3M / QPSK / RB: 1,14

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
<b>BAND 26 BW: 3M QPSK RB: 1,14</b>	825.5	26805	V	15.27	3.76	-3.04	15.99	38.50
			H	22.53	3.76	-3.03	<b>23.25</b>	38.50
	836.5	26915	V	8.72	3.76	-3.07	9.41	38.50
			H	18.7	3.76	-3.07	19.4	38.50
	847.5	27025	V	6.39	3.77	-3.1	7.06	38.50
			H	15.55	3.77	-3.1	16.22	38.50

#### Remark :

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

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### BAND 26 / BW: 3M / 16QAM / RB: 1,0

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
<b>BAND 26 BW: 3M 16QAM RB: 1,0</b>	825.5	26805	V	15.15	3.75	-3.03	15.88	38.50
			H	23.82	3.75	-3.03	<b>24.55</b>	38.50
	836.5	26915	V	11.01	3.76	-3.06	11.71	38.50
			H	19.98	3.76	-3.06	20.68	38.50
	847.5	27025	V	7.19	3.77	-3.1	7.86	38.50
			H	17.32	3.77	-3.1	17.99	38.50

### BAND 26 / BW: 3M / 16QAM / RB: 1,14

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
<b>BAND 26 BW: 3M 16QAM RB: 1,14</b>	825.5	26805	V	15.66	3.76	-3.04	16.38	38.50
			H	23.77	3.76	-3.04	<b>24.49</b>	38.50
	836.5	26915	V	9.62	3.76	-3.07	10.31	38.50
			H	18.88	3.76	-3.07	19.58	38.50
	847.5	27025	V	6.42	3.77	-3.1	7.09	38.50
			H	16.48	3.77	-3.1	17.15	38.50

#### Remark :

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

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### BAND 26 / BW: 5M / QPSK / RB: 1,0

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
<b>BAND 26 BW: 5M QPSK RB: 1,0</b>	826.5	26815	V	11.63	3.75	-3.03	12.36	38.50
			H	22.32	3.75	-3.03	23.05	38.50
	836.5	26915	V	11.61	3.76	-3.06	12.31	38.50
			H	22.25	3.76	-3.06	22.95	38.50
	846.5	27015	V	9.91	3.77	-3.09	10.58	38.50
			H	23.85	3.76	-3.09	<b>24.52</b>	38.50

### BAND 26 / BW: 5M / QPSK / RB: 1,24

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
<b>BAND 26 BW: 5M QPSK RB: 1,24</b>	826.5	26815	V	12.52	3.76	-3.04	13.24	38.50
			H	22.42	3.76	-3.04	23.13	38.50
	836.5	26915	V	11.8	3.76	-3.07	12.49	38.50
			H	23.13	3.76	-3.07	<b>23.82</b>	38.50
	846.5	27015	V	8.24	3.77	-3.1	8.91	38.50
			H	22.22	3.77	-3.1	22.89	38.50

#### Remark :

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

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### BAND 26 / BW: 5M / 16QAM / RB: 1,0

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
<b>BAND 26 BW: 5M 16QAM RB: 1,0</b>	826.5	26815	V	12.29	3.75	-3.03	13.02	38.50
			H	22.63	3.75	-3.03	23.36	38.50
	836.5	26915	V	11.78	3.76	-3.06	12.48	38.50
			H	22.47	3.76	-3.06	23.17	38.50
	846.5	27015	V	10.63	3.76	-3.09	11.3	38.50
			H	23.66	3.77	-3.09	<b>24.34</b>	38.50

### BAND 26 / BW: 5M / 16QAM / RB: 1,24

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
<b>BAND 26 BW: 5M 16QAM RB: 1,24</b>	826.5	26815	V	12.74	3.76	-3.04	13.46	38.50
			H	23	3.76	-3.04	23.72	38.50
	836.5	26915	V	11.35	3.76	-3.08	12.04	38.50
			H	23.48	3.76	-3.07	<b>24.17</b>	38.50
	846.5	27015	V	9.18	3.77	-3.1	9.84	38.50
			H	23.14	3.77	-3.1	23.8	38.50

#### Remark :

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

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### BAND 26 / BW: 10M / QPSK / RB: 1,0

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
<b>BAND 26 BW: 10M QPSK RB: 1,0</b>	829.0	26840	V	12.03	3.75	-3.03	12.76	38.50
			H	22.2	3.75	-3.03	22.92	38.50
	836.5	26915	V	11.69	3.76	-3.05	12.39	38.50
			H	22.27	3.76	-3.05	22.98	38.50
	844.0	26990	V	11.48	3.76	-3.07	12.17	38.50
			H	23.61	3.76	-3.08	<b>24.3</b>	38.50

### BAND 26 / BW: 10M / QPSK / RB: 1,49

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
<b>BAND 26 BW: 10M QPSK RB: 1,49</b>	829.0	26840	V	11.22	3.76	-3.05	11.93	38.50
			H	22.26	3.76	-3.06	22.96	38.50
	836.5	26915	V	11.13	3.76	-3.08	11.82	38.50
			H	23.24	3.76	-3.08	<b>23.92</b>	38.50
	844.0	26990	V	7.81	3.77	-3.1	8.48	38.50
			H	21.83	3.77	-3.1	22.49	38.50

#### Remark :

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

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# BAND 26 / BW: 10M /16QAM / RB: 1,0

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 26 BW: 10M 16QAM RB: 1,0	829.0	26840	V	11.97	3.75	-3.03	12.7	38.50
			H	22.55	3.75	-3.03	23.28	38.50
	836.5	26915	V	11.97	3.76	-3.05	12.67	38.50
			H	21.92	3.76	-3.05	22.63	38.50
	844.0	26990	V	11.79	3.76	-3.08	12.48	38.50
			H	23.47	3.76	-3.08	<b>24.16</b>	38.50

# BAND 26 / BW: 10M / 16QAM / RB: 1,49

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 26 BW: 10M 16QAM RB: 1,49	829.0	26840	V	11.69	3.76	-3.06	12.39	38.50
			H	22.42	3.76	-3.06	23.12	38.50
	836.5	26915	V	11.19	3.76	-3.08	11.87	38.50
			H	23.25	3.76	-3.08	<b>23.94</b>	38.50
	844.0	26990	V	8.83	3.77	-3.1	9.5	38.50
			H	22.78	3.77	-3.1	23.45	38.50

## Remark :

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

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### BAND 26 / BW: 1.4M / QPSK / RB: 1,0

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
<b>BAND 26 BW: 1.4M QPSK RB: 1,0</b>	814.7	26697	V	22.13	3.75	-3	<b>22.88</b>	50.00
			H	13.28	3.75	-3	14.03	50.00
	819.0	26740	V	21.84	3.75	-3.02	22.58	50.00
			H	13.8	3.75	-3.02	14.54	50.00
	823.3	26783	V	21.83	3.75	-3.02	22.56	50.00
			H	14.38	3.75	-3.02	15.12	50.00

### BAND 26 / BW: 1.4M / QPSK / RB: 1,5

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
<b>BAND 26 BW: 1.4M QPSK RB: 1,5</b>	814.7	26697	V	21.81	3.75	-3.01	22.56	50.00
			H	13.34	3.75	-3.01	14.09	50.00
	819.0	26740	V	21.63	3.75	-3.02	22.36	50.00
			H	13.82	3.75	-3.02	14.55	50.00
	823.3	26783	V	21.87	3.75	-3.02	<b>22.6</b>	50.00
			H	14.27	3.75	-3.02	15	50.00

#### Remark :

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

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### BAND 26 / BW: 1.4M / 16QAM / RB: 1,0

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
<b>BAND 26 BW: 1.4M 16QAM RB: 1,0</b>	814.7	26697	V	22.09	3.75	-3	<b>22.83</b>	50.00
			H	13.54	3.75	-3	14.29	50.00
	819.0	26740	V	21.76	3.75	-3.02	22.49	50.00
			H	13.9	3.75	-3.02	14.64	50.00
	823.3	26783	V	21.72	3.75	-3.02	22.46	50.00
			H	14.57	3.75	-3.02	15.3	50.00

### BAND 26 / BW: 1.4M / 16QAM / RB: 1,5

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
<b>BAND 26 BW: 1.4M 16QAM RB: 1,5</b>	814.7	26697	V	21.76	3.75	-3	22.51	50.00
			H	13.36	3.75	-3.01	14.1	50.00
	819.0	26740	V	21.76	3.75	-3.02	22.49	50.00
			H	13.97	3.75	-3.02	14.7	50.00
	823.3	26783	V	22	3.75	-3.02	<b>22.73</b>	50.00
			H	14.47	3.75	-3.02	15.2	50.00

#### Remark :

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

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### BAND 26 / BW: 3M / QPSK / RB: 1,0

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
<b>BAND 26 BW: 3M QPSK RB: 1,0</b>	815.5	26705	V	21.27	3.75	-3	22.01	50.00
			H	11.91	3.75	-3	12.66	50.00
	819.0	26740	V	21.37	3.75	-3.01	<b>22.1</b>	50.00
			H	11.66	3.75	-3.01	12.4	50.00
	822.5	26775	V	20.41	3.75	-3.01	21.15	50.00
			H	11.25	3.75	-3.01	11.99	50.00

### BAND 26 / BW: 3M / QPSK / RB: 1,14

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
<b>BAND 26 BW: 3M QPSK RB: 1,14</b>	815.5	26705	V	21.34	3.75	-3.01	<b>22.08</b>	50.00
			H	11.53	3.75	-3.01	12.27	50.00
	819.0	26740	V	21.1	3.75	-3.02	21.83	50.00
			H	11.13	3.75	-3.02	11.86	50.00
	822.5	26775	V	20.87	3.75	-3.02	21.6	50.00
			H	11.38	3.75	-3.02	12.11	50.00

#### Remark :

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

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### BAND 26 / BW: 3M / 16QAM / RB: 1,0

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
<b>BAND 26 BW: 3M 16QAM RB: 1,0</b>	815.5	26705	V	22.04	3.75	-3	<b>22.78</b>	50.00
			H	12.53	3.75	-3	13.28	50.00
	819.0	26740	V	21.59	3.75	-3.01	22.33	50.00
			H	11.9	3.75	-3.01	12.64	50.00
	822.5	26775	V	21.49	3.75	-3.01	22.23	50.00
			H	11.54	3.75	-3.02	12.28	50.00

### BAND 26 / BW: 3M / 16QAM / RB: 1,14

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
<b>BAND 26 BW: 3M 16QAM RB: 1,14</b>	815.5	26705	V	21.84	3.75	-3.01	<b>22.58</b>	50.00
			H	12.18	3.75	-3.01	12.93	50.00
	819.0	26740	V	21.3	3.75	-3.02	22.04	50.00
			H	11.43	3.75	-3.02	12.16	50.00
	822.5	26775	V	21.14	3.75	-3.02	21.87	50.00
			H	11.32	3.75	-3.02	12.06	50.00

#### Remark :

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

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### BAND 26 / BW: 5M / QPSK / RB: 1,0

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
<b>BAND 26 BW: 5M QPSK RB: 1,0</b>	816.5	26715	V	21.5	3.75	-3	<b>22.25</b>	50.00
			H	12.52	3.75	-3	13.27	50.00
	819.0	26740	V	21.31	3.75	-3.01	22.05	50.00
			H	10.8	3.75	-3.01	11.54	50.00
	821.5	26765	V	20.34	3.75	-3.01	21.09	50.00
			H	10.62	3.75	-3.02	11.35	50.00

### BAND 26 / BW: 5M / QPSK / RB: 1,24

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
<b>BAND 26 BW: 5M QPSK RB: 1,24</b>	816.5	26715	V	21.25	3.75	-3.02	21.99	50.00
			H	11.18	3.75	-3.02	11.92	50.00
	819.0	26740	V	21.35	3.75	-3.01	<b>22.09</b>	50.00
			H	10.97	3.75	-3.01	11.7	50.00
	821.5	26765	V	20.65	3.75	-3.02	21.38	50.00
			H	10.96	3.75	-3.02	11.69	50.00

#### Remark :

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

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### BAND 26 / BW: 5M / 16QAM / RB: 1,0

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
<b>BAND 26 BW: 5M 16QAM RB: 1,0</b>	816.5	26715	V	21.92	3.75	-3	<b>22.67</b>	50.00
			H	12.64	3.75	-3	13.39	50.00
	819.0	26740	V	21.45	3.75	-3.01	22.19	50.00
			H	11.91	3.75	-3.01	12.65	50.00
	821.5	26765	V	21.4	3.75	-3.02	22.14	50.00
			H	11.78	3.75	-3.02	12.52	50.00

### BAND 26 / BW: 5M / 16QAM / RB: 1,24

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
<b>BAND 26 BW: 5M 16QAM RB: 1,24</b>	816.5	26715	V	21.59	3.75	-3.02	22.33	50.00
			H	11.96	3.75	-3.02	12.69	50.00
	819.0	26740	V	21.6	3.75	-3.01	<b>22.34</b>	50.00
			H	11.79	3.75	-3.01	12.53	50.00
	821.5	26765	V	20.84	3.75	-3.02	21.58	50.00
			H	11.32	3.75	-3.02	12.05	50.00

#### Remark :

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

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### BAND 26 / BW: 10M / QPSK / RB: 1,0

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 26 BW: 10M QPSK RB: 1,0	819.0	26740	V	21.27	3.75	-3	22.02	50.00
			H	11.98	3.75	-3	12.73	50.00

### BAND 26 / BW: 10M / QPSK / RB: 1,49

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 26 BW: 10M QPSK RB: 1,49	819.0	26740	V	20.21	3.75	-3.02	20.95	50.00
			H	10.26	3.75	-3.02	11	50.00

#### Remark :

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

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### BAND 26 / BW: 10M / 16QAM / RB: 1,0

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
<b>BAND 26 BW: 10M 16QAM RB: 1,0</b>	819.0	26740	V	21.87	3.75	-3	<b>22.62</b>	50.00
			H	12.02	3.75	-3	12.77	50.00

### BAND 26 / BW: 10M / 16QAM / RB: 1,49

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
<b>BAND 26 BW: 10M 16QAM RB: 1,49</b>	819.0	26740	V	21.05	3.75	-3.02	<b>21.79</b>	50.00
			H	11.16	3.75	-3.02	11.9	50.00

#### Remark :

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

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# BAND 41 / BW: 5M / QPSK / RB: 1,0

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 41 BW: 5M/ QPSK RB: 1,0	2498.5	39675	V	19.23	6.39	-5.48	20.15	50.00
			H	23.72	6.39	-5.48	<b>24.64</b>	50.00
	2593.0	40620	V	18.79	6.63	-5.6	19.82	50.00
			H	22.61	6.64	-5.6	23.64	50.00
	2687.5	41565	V	17.95	6.87	-5.72	19.1	50.00
			H	22.32	6.87	-5.72	23.46	50.00

# BAND 41 / BW: 5M / QPSK / RB: 1,24

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 41 BW: 5M QPSK RB: 1,24	2498.5	39675	V	17.6	6.4	-5.48	18.51	50.00
			H	23.13	6.4	-5.48	24.05	50.00
	2593.0	40620	V	18.47	6.65	-5.61	19.51	50.00
			H	23.15	6.65	-5.61	<b>24.19</b>	50.00
	2687.5	41565	V	18.5	6.88	-5.73	19.65	50.00
			H	22.07	6.88	-5.73	23.22	50.00

## Remark :

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

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### BAND 41 / BW: 5M / 16QAM / RB: 1,0

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
<b>BAND 41 BW: 5M 16QAM RB: 1,0</b>	2498.5	39675	V	17.83	6.39	-5.48	18.74	50.00
			H	23.21	6.39	-5.48	<b>24.13</b>	50.00
	2593.0	40620	V	18.68	6.64	-5.6	19.71	50.00
			H	22.56	6.63	-5.6	23.6	50.00
	2687.5	41565	V	17.99	6.87	-5.72	19.14	50.00
			H	22.27	6.87	-5.72	23.42	50.00

### BAND 41 / BW: 5M / 16QAM / RB: 1,24

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
<b>BAND 41 BW: 5M 16QAM RB: 1,24</b>	2498.5	39675	V	17.45	6.4	-5.48	18.37	50.00
			H	22.97	6.4	-5.48	23.89	50.00
	2593.0	40620	V	18.41	6.64	-5.61	19.45	50.00
			H	23.2	6.64	-5.61	<b>24.24</b>	50.00
	2687.5	41565	V	18.5	6.88	-5.73	19.65	50.00
			H	22.09	6.88	-5.73	23.24	50.00

#### Remark :

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

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### BAND 41 / BW: 10M / QPSK / RB: 1,0

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
<b>BAND 41 BW: 10M QPSK RB: 1,0</b>	2501.0	39700	V	18.3	6.39	-5.48	19.22	50.00
			H	23.69	6.39	-5.48	<b>24.6</b>	50.00
	2593.0	40620	V	18.33	6.63	-5.6	19.36	50.00
			H	22.71	6.63	-5.6	23.74	50.00
	2685.0	41540	V	18.02	6.86	-5.72	19.16	50.00
			H	12.57	6.86	-5.72	13.71	50.00

### BAND 41 / BW: 10M / QPSK / RB: 1,49

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
<b>BAND 41 BW: 10M QPSK RB: 1,49</b>	2501.0	39700	V	17.7	6.41	-5.49	18.62	50.00
			H	23.19	6.41	-5.49	24.12	50.00
	2593.0	40620	V	16.48	6.65	-5.61	17.52	50.00
			H	23.42	6.65	-5.61	<b>24.46</b>	50.00
	2685.0	41540	V	16.56	6.88	-5.73	17.71	50.00
			H	22.21	6.88	-5.73	23.36	50.00

#### Remark :

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

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### BAND 41 / BW: 10M / 16QAM / RB: 1,0

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
<b>BAND 41 BW: 10M 16QAM RB: 1,0</b>	2501.0	39700	V	17.92	6.39	-5.48	18.83	50.00
			H	23.38	6.39	-5.48	<b>24.3</b>	50.00
	2593.0	40620	V	18.29	6.63	-5.6	19.32	50.00
			H	22.58	6.63	-5.6	23.61	50.00
	2685.0	41540	V	18	6.86	-5.72	19.14	50.00
			H	22.6	6.86	-5.72	23.74	50.00

### BAND 41 / BW: 10M / 16QAM / RB: 1,49

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
<b>BAND 41 BW: 10M 16QAM RB: 1,49</b>	2501.0	39700	V	17.51	6.41	-5.49	18.43	50.00
			H	23.03	6.41	-5.49	23.95	50.00
	2593.0	40620	V	16.38	6.65	-5.61	17.42	50.00
			H	23.45	6.65	-5.61	<b>24.49</b>	50.00
	2685.0	41540	V	16.6	6.88	-5.73	17.75	50.00
			H	22.24	6.88	-5.73	23.39	50.00

#### Remark :

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

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### BAND 41 / BW: 15M / QPSK / RB: 1,0

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
<b>BAND 41 BW: 15M QPSK RB: 1,0</b>	2503.5	39725	V	18.31	6.39	-5.48	19.23	33.00
			H	23.29	6.39	-5.48	<b>24.2</b>	33.00
	2593.0	40620	V	18.18	6.62	-5.59	19.2	33.00
			H	22.77	6.62	-5.59	23.8	33.00
	2682.5	41515	V	17.91	6.85	-5.71	19.05	33.00
			H	22.44	6.85	-5.71	23.58	33.00

### BAND 41 / BW: 15M / QPSK / RB: 1,74

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
<b>BAND 41 BW: 15M QPSK RB: 1,74</b>	2503.5	39725	V	17.58	6.43	-5.49	18.51	33.00
			H	24.07	6.43	-5.49	<b>25.01</b>	33.00
	2593.0	40620	V	15.29	6.66	-5.61	16.33	33.00
			H	22.97	6.66	-5.61	24.01	33.00
	2682.5	41515	V	15.39	6.88	-5.73	16.54	33.00
			H	21.59	6.88	-5.73	22.74	33.00

#### Remark :

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

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### BAND 41 / BW: 15M /16QAM / RB: 1,0

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
<b>BAND 41 BW: 15M 16QAM RB: 1,0</b>	2503.5	39725	V	18.23	6.39	-5.48	19.15	33.00
			H	23.41	6.39	-5.48	<b>24.32</b>	33.00
	2593.0	40620	V	18.29	6.62	-5.59	19.31	33.00
			H	22.78	6.62	-5.6	23.81	33.00
	2682.5	41515	V	17.87	6.85	-5.71	19.01	33.00
			H	22.45	6.85	-5.71	23.58	33.00

### BAND 41 / BW: 15M / 16QAM / RB: 1,74

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
<b>BAND 41 BW: 15M 16QAM RB: 1,74</b>	2503.5	39725	V	17.48	6.43	-5.49	18.41	33.00
			H	24	6.43	-5.49	<b>24.93</b>	33.00
	2593.0	40620	V	15.34	6.66	-5.61	16.38	33.00
			H	22.99	6.66	-5.61	24.04	33.00
	2682.5	41515	V	15.42	6.88	-5.73	16.58	33.00
			H	21.66	6.88	-5.73	22.81	33.00

#### Remark :

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

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### BAND 41 / BW: 20M / QPSK / RB: 1,0

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
<b>BAND 41 BW: 20M QPSK RB: 1,0</b>	2506.0	39750	V	18.14	6.39	-5.48	19.05	33.00
			H	23.59	6.39	-5.48	<b>24.51</b>	33.00
	2593.0	40620	V	17.85	6.62	-5.59	18.88	33.00
			H	22.76	6.62	-5.59	23.78	33.00
	2680.0	41490	V	17.42	6.83	-5.7	18.55	33.00
			H	22.38	6.84	-5.71	23.51	33.00

### BAND 41 / BW: 20M / QPSK / RB: 1,99

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
<b>BAND 41 BW: 20M QPSK RB: 1,99</b>	2506.0	39750	V	16.95	6.44	-5.5	17.89	33.00
			H	23.48	6.44	-5.5	<b>24.42</b>	33.00
	2593.0	40620	V	15.63	6.66	-5.61	16.68	33.00
			H	22.44	6.66	-5.62	23.48	33.00
	2680.0	41490	V	15.75	6.88	-5.73	16.9	33.00
			H	21.79	6.88	-5.73	22.94	33.00

#### Remark :

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

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### BAND 41 / BW: 20M / 16QAM / RB: 1,0

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
<b>BAND 41 BW: 20M 16QAM RB: 1,0</b>	2506.0	39750	V	18.19	6.39	-5.48	19.1	33.00
			H	23.61	6.39	-5.48	<b>24.52</b>	33.00
	2593.0	40620	V	17.78	6.62	-5.59	18.81	33.00
			H	22.75	6.62	-5.59	23.77	33.00
	2680.0	41490	V	17.44	6.83	-5.7	18.57	33.00
			H	22.5	6.83	-5.7	23.63	33.00

### BAND 41 / BW: 20M / 16QAM / RB: 1,99

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
<b>BAND 41 BW: 20M 16QAM RB: 1,99</b>	2506.0	39750	V	16.85	6.44	-5.5	17.79	33.00
			H	23.43	6.44	-5.5	<b>24.36</b>	33.00
	2593.0	40620	V	15.69	6.66	-5.62	16.73	33.00
			H	22.5	6.66	-5.61	23.54	33.00
	2680.0	41490	V	15.86	6.88	-5.73	17.01	33.00
			H	21.92	6.88	-5.73	23.07	33.00

#### Remark :

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

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## 8. OCCUPIED BANDWIDTH MEASUREMENT

### 8.1. Standard Applicable:

According to §FCC 2.1049 (99%)

### 8.2. Test Set-up:

Refer to section 6.2 in this report

### 8.3. Measurement Procedure:

Reference to KDB 971168 D01 v02r01

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 20dB 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*

### 8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

### 8.5. Measurement Result:

Refer to next pages.

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### 99% Bandwidth

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 Cellular (BC0)	824.70	1013	<b>1.2721</b>
	836.52	384	1.2692
	848.31	777	1.2698

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 PCS (BC1)	1851.25	25	<b>1.2716</b>
	1880.00	600	1.2700
	1908.75	1175	1.2703

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 (BC10)	817.90	476	<b>1.2680</b>
	820.50	580	1.2641
	823.10	684	1.2671

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 EVDO Cellular (BC0)	824.70	1013	<b>1.2718</b>
	836.52	384	1.2689
	848.31	777	1.2677

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 EVDO PCS (BC1)	1851.25	25	1.2687
	1880.00	600	1.2696
	1908.75	1175	<b>1.2725</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
CDMA 2000 EVDO (BC10)	817.90	476	1.2649
	820.50	580	<b>1.2712</b>
	823.10	684	1.2672

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 25 (QPSK RB Number: 6 Offset: 0)	1850.7	26047	1.0963
	1882.5	26365	<b>1.0978</b>
	1914.3	26683	1.0950

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 25 (16QAM RB Number: 6 Offset: 0)	1850.7	26047	1.0954
	1882.5	26365	<b>1.0989</b>
	1914.3	26683	1.0950

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 25 (QPSK RB Number: 15 Offset: 0)	1851.5	26055	2.7013
	1882.5	26365	2.7066
	1913.5	26675	<b>2.7123</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 25 (16QAM RB Number: 15 Offset: 0)	1851.5	26055	<b>2.7067</b>
	1882.5	26365	2.6952
	1913.5	26675	2.7010

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 25 (QPSK RB Number: 25 Offset: 0)	1852.5	26065	4.5007
	1882.5	26365	4.5064
	1912.5	26665	<b>4.5097</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 25 (16QAM RB Number: 25 Offset: 0)	1852.5	26065	4.5038
	1882.5	26365	<b>4.5048</b>
	1912.5	26665	4.4984

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 25 (QPSK RB Number: 50 Offset: 0)	1855.0	26090	<b>9.0086</b>
	1882.5	26365	9.0022
	1910.0	26640	8.9950

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 25 (16QAM RB Number: 50 Offset: 0)	1855.0	26090	9.0022
	1882.5	26365	<b>9.0028</b>
	1910.0	26640	8.9543

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 25 (QPSK RB Number: 75 Offset: 0)	1857.5	26115	<b>13.5093</b>
	1882.5	26365	13.4648
	1907.5	26615	13.4332

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 25 (16QAM RB Number: 75 Offset: 0)	1857.5	26115	13.4636
	1882.5	26365	13.4774
	1907.5	26615	<b>13.4848</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band25 (QPSK RB Number: 100 Offset: 0)	1860.0	26140	17.9036
	1882.5	26365	<b>17.9400</b>
	1905.0	26590	17.9373

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 25 (16QAM RB Number: 100 Offset: 0)	1860.0	26140	17.8921
	1882.5	26365	<b>17.9315</b>
	1905.0	26590	17.9037

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0)	824.7	26797	<b>1.0962</b>
	836.5	26915	1.0945
	848.3	27033	1.0924

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 26 (16QAM RB Number: 6 Offset: 0)	824.7	26797	<b>1.0996</b>
	836.5	26915	1.0967
	848.3	27033	1.0954

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0)	825.5	26805	2.7099
	836.5	26915	2.7046
	847.5	27025	<b>2.7132</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 26 (16QAM RB Number: 15 Offset: 0)	825.5	26805	2.7071
	836.5	26915	2.7075
	847.5	27025	<b>2.7147</b>

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0)	826.5	26815	4.5150
	836.5	26915	<b>4.5155</b>
	846.5	27015	4.5079

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 26 (16QAM RB Number: 25 Offset: 0)	826.5	26815	4.5064
	836.5	26915	4.5104
	846.5	27015	<b>4.5246</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 26 (QPSK RB Number: 50 Offset: 0)	829.0	26840	<b>9.0044</b>
	836.5	26915	8.9994
	844.0	26990	9.0042

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 26 (16QAM RB Number: 50 Offset: 0)	829.0	26840	8.9812
	836.5	26915	8.9677
	844.0	26990	<b>8.9994</b>

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0)	814.7	26697	1.0969
	819.0	26740	1.0956
	823.3	26783	<b>1.0981</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 26 (16QAM RB Number: 6 Offset: 0)	814.7	26697	<b>1.1018</b>
	819.0	26740	1.1006
	823.3	26783	1.1002

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0)	815.5	26705	<b>2.7044</b>
	819.0	26740	2.6990
	822.5	26775	2.7026

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 26 (16QAM RB Number: 15 Offset: 0)	815.5	26705	2.7092
	819.0	26740	<b>2.7129</b>
	822.5	26775	2.7078

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0)	816.5	26715	4.5108
	819.0	26740	4.5093
	821.5	26765	<b>4.5219</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 26 (16QAM RB Number: 25 Offset: 0)	816.5	26715	4.5061
	819.0	26740	<b>4.5102</b>
	821.5	26765	4.5011

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 26 (QPSK RB Number: 50 Offset: 0)	819.0	26740	<b>8.9914</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 26 (16QAM RB Number: 50 Offset: 0)	819.0	26740	<b>8.9910</b>

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 41 (QPSK RB Number: 25 Offset: 0)	2498.5	39675	4.4910
	2593.0	40620	<b>4.4972</b>
	2687.5	41565	4.5039

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 41 (16QAM RB Number: 25 Offset: 0)	2498.5	39675	4.4925
	2593.0	40620	4.4881
	2687.5	41565	<b>4.5065</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 41 (QPSK RB Number: 50 Offset: 0)	2501.0	39700	8.9627
	2593.0	40620	8.9673
	2685.0	41540	<b>8.9761</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 41 (16QAM RB Number: 50 Offset: 0)	2501.0	39700	<b>8.9991</b>
	2593.0	40620	8.9731
	2685.0	41540	8.9686

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 41 (QPSK RB Number: 75 Offset: 0)	2503.5	39725	<b>13.4822</b>
	2593.0	40620	13.4694
	2682.5	41515	13.4124

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
15MHz BW LTE-Band 41 (16QAM RB Number: 75 Offset: 0)	2503.5	39725	<b>13.4850</b>
	2593.0	40620	13.4827
	2682.5	41515	13.4365

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 41 (QPSK RB Number: 100 Offset: 0)	2506.0	39750	17.9458
	2593.0	40620	17.9462
	2680.0	41490	<b>17.9500</b>

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
20MHz BW LTE-Band 41 (16QAM RB Number: 100 Offset: 0)	2506.0	39750	<b>17.8803</b>
	2593.0	40620	17.8348
	2680.0	41490	17.8732

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## 99% Bandwidth Test Data

Figure 8-1: CDMA 2000 Cellular (BC0) Channel Low

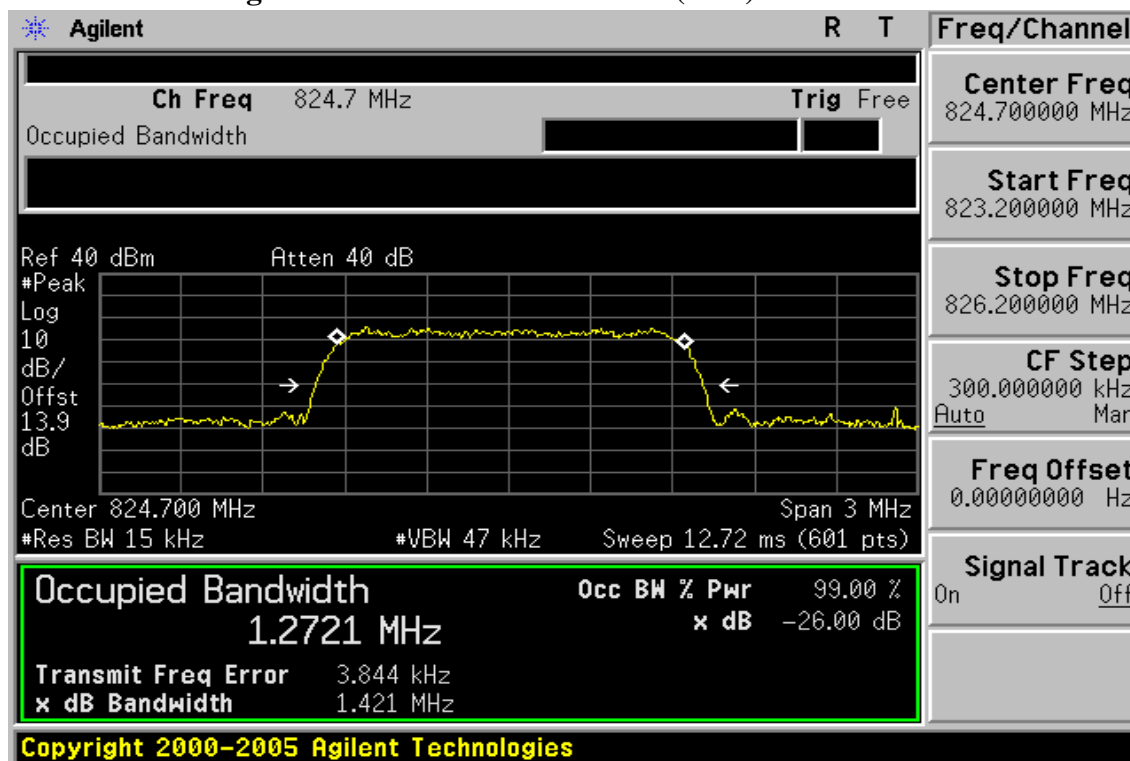
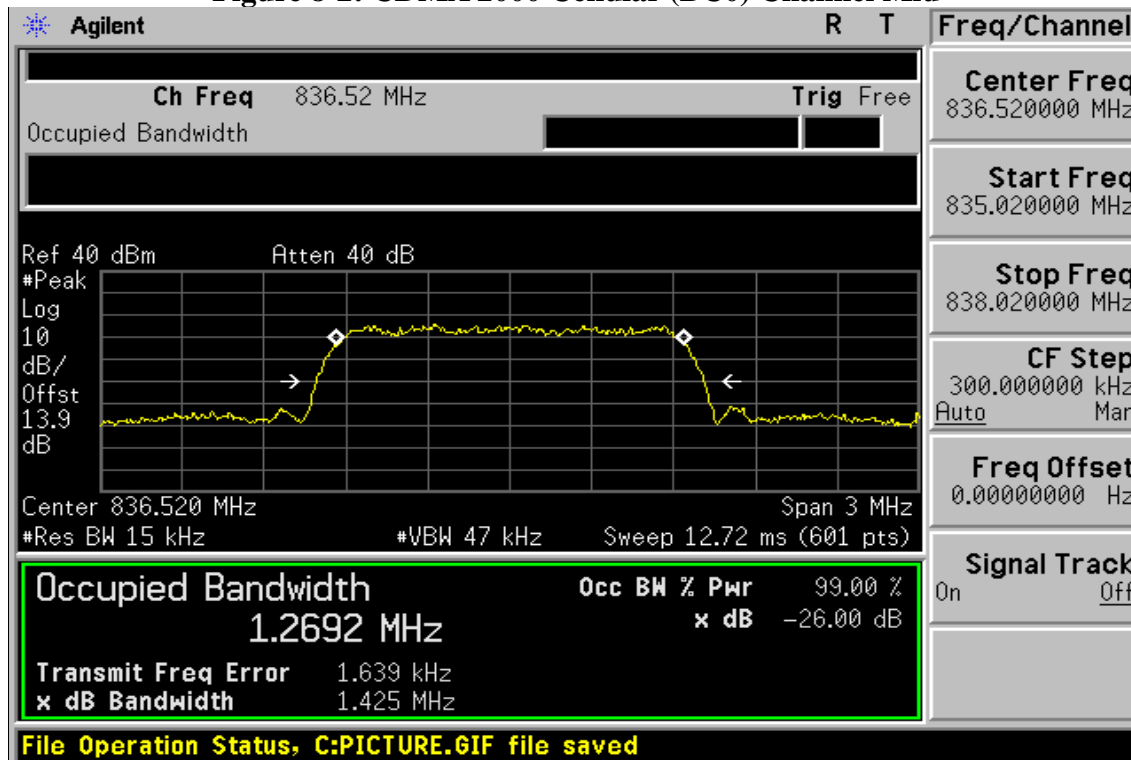


Figure 8-2: CDMA 2000 Cellular (BC0) Channel Mid



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Figure 8-3: CDMA 2000 Cellular (BC0) Channel High

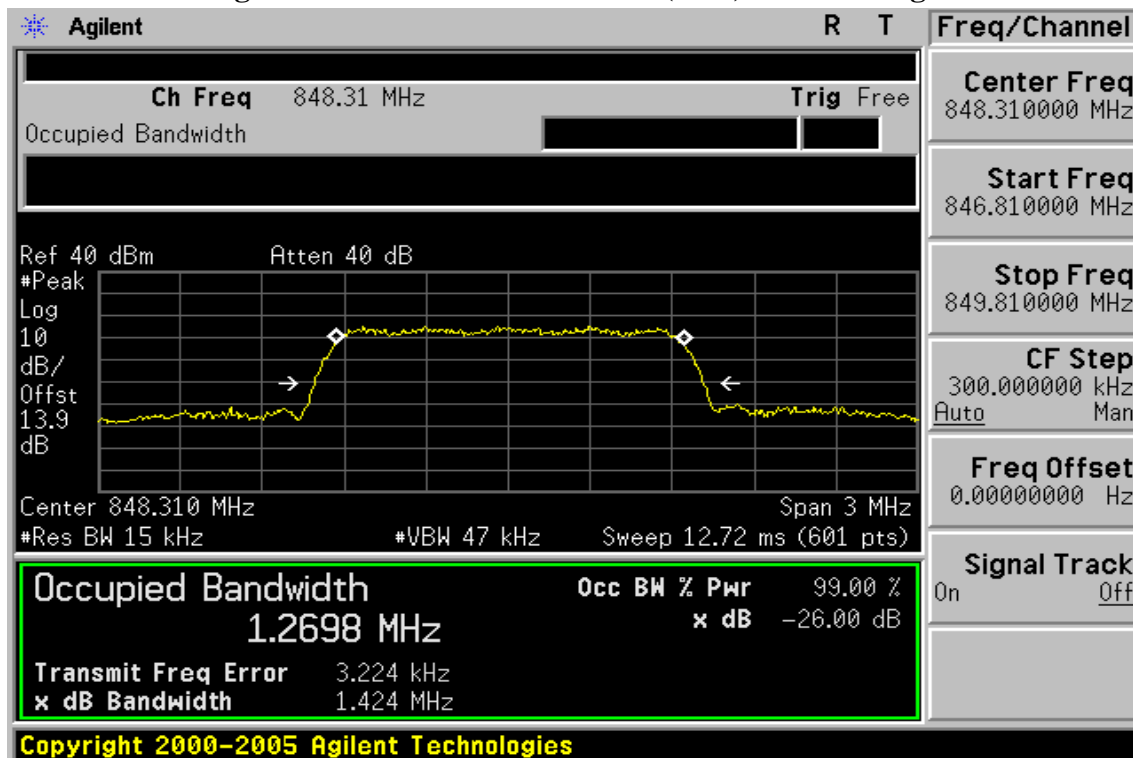
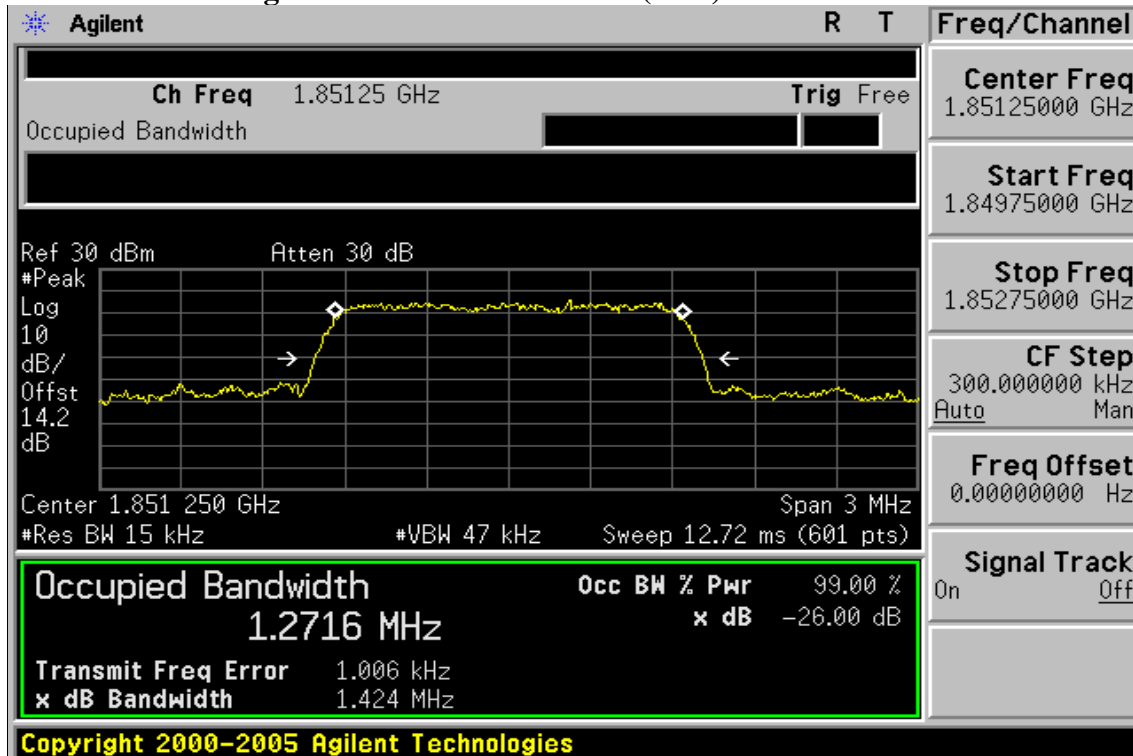


Figure 8-4: CDMA 2000 PCS (BC1) Channel Low



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Figure 8-5: CDMA 2000 PCS (BC1) Channel Mid

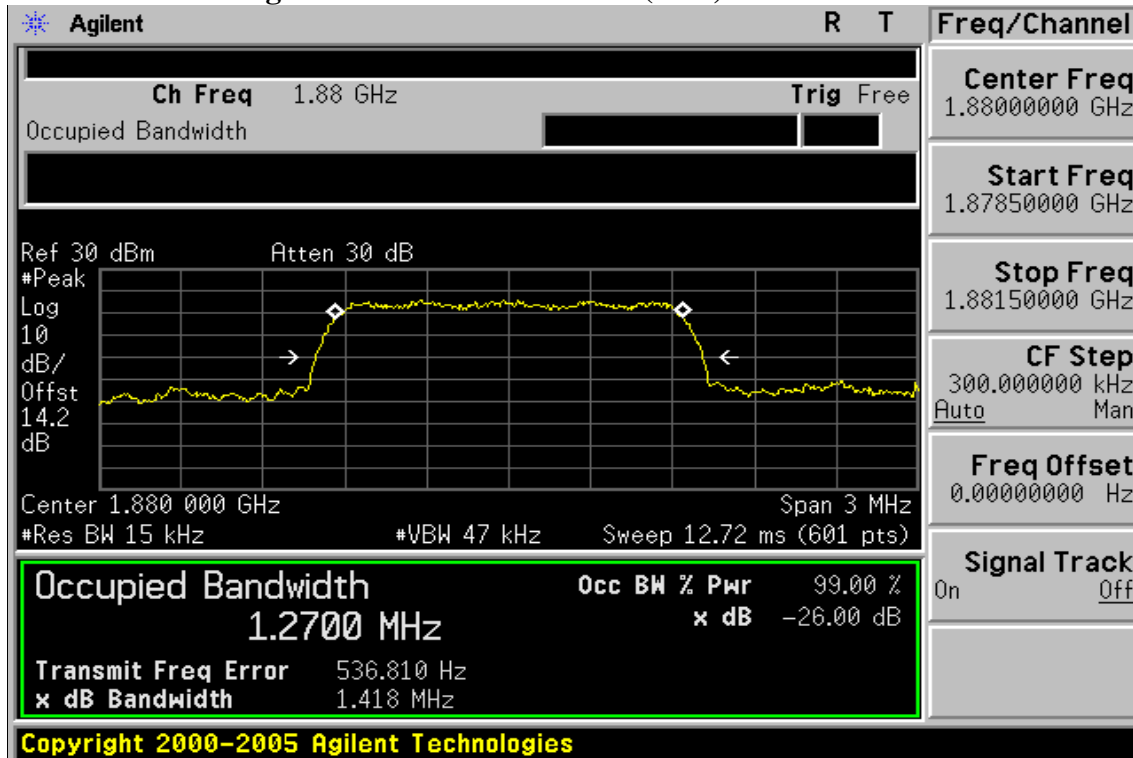
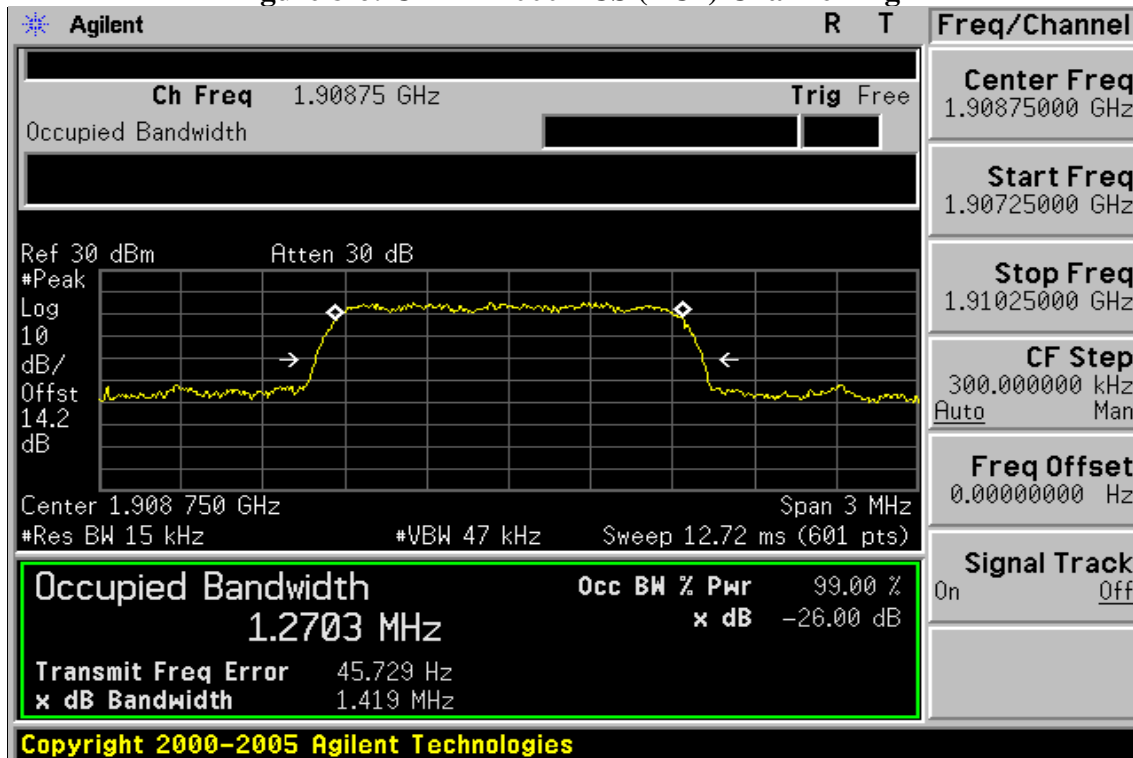


Figure 8-6: CDMA 2000 PCS (BC1) Channel High



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Figure 8-7: CDMA 2000 BC10 Channel Low

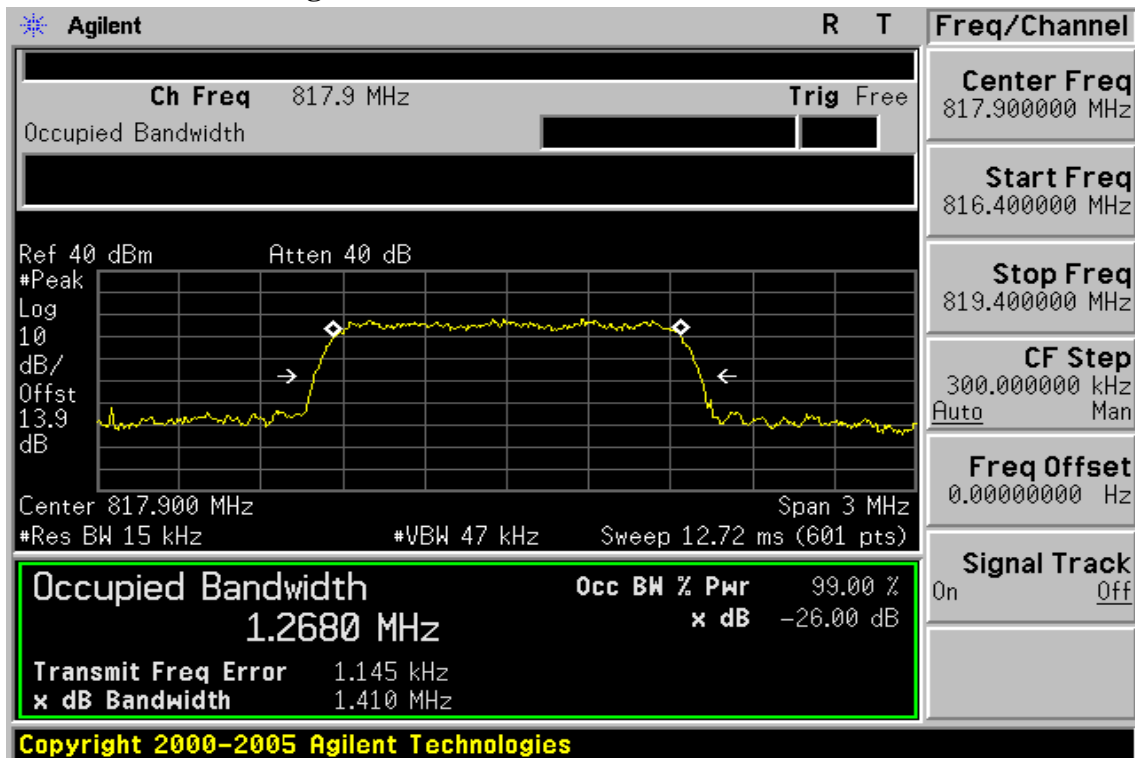
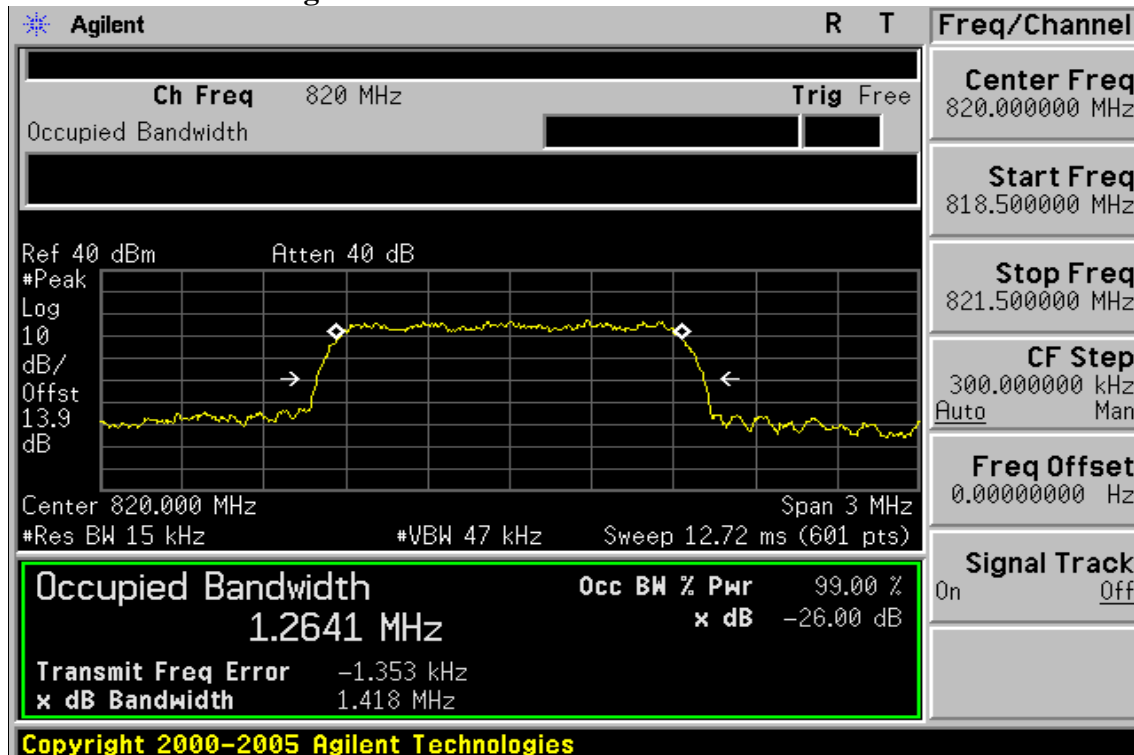


Figure 8-8: CDMA 2000 BC10 Channel Mid



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Figure 8-9: CDMA 2000 BC10 Channel High

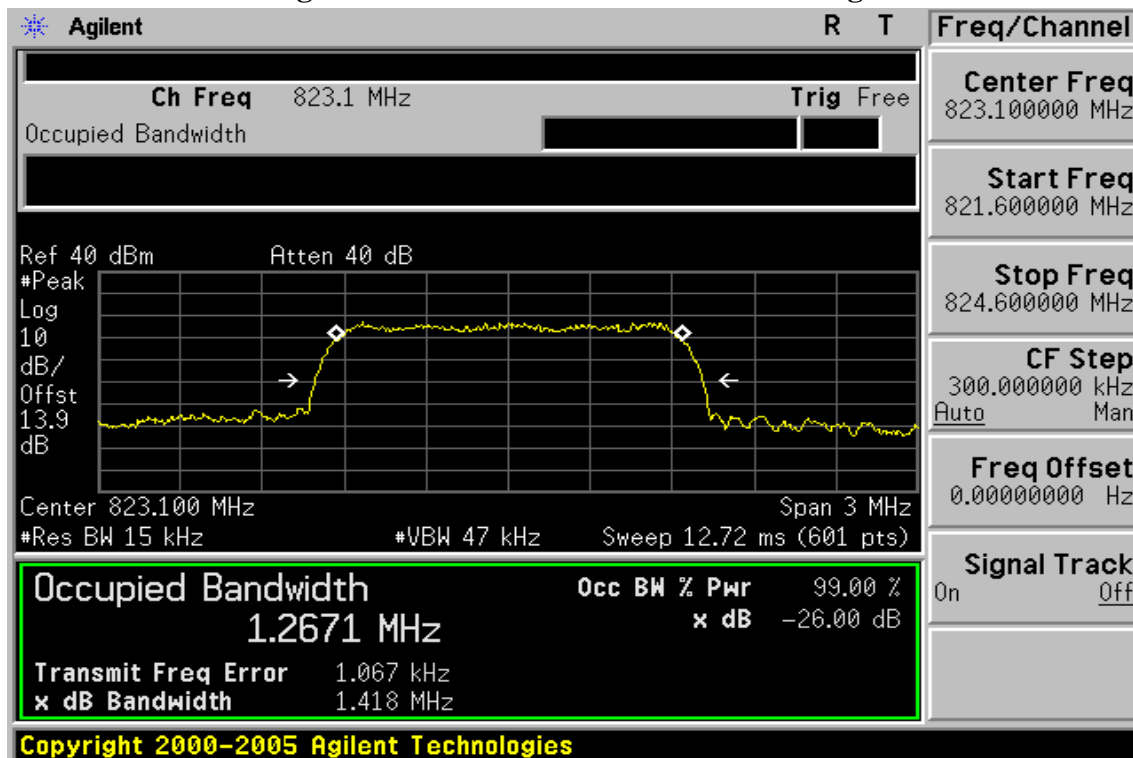
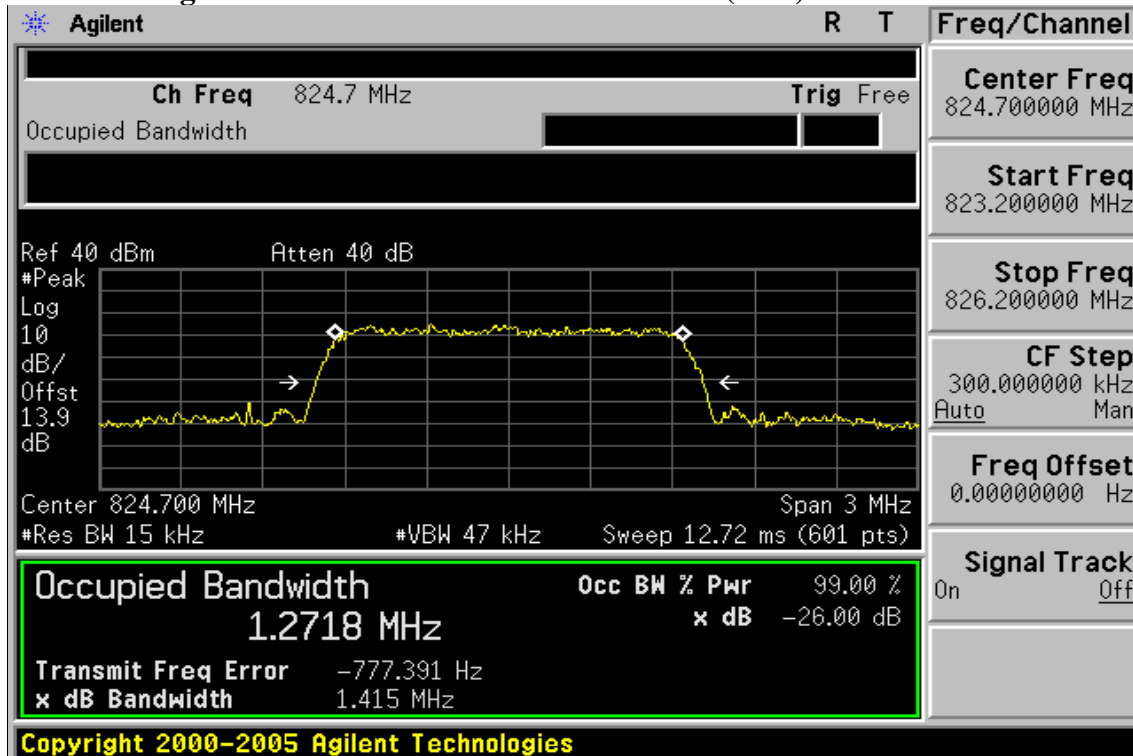


Figure 8-10: CDMA 2000 EVDO Cellular (BC0) Channel Low



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Figure 8-11: CDMA 2000 EVDO Cellular (BC0) Channel Mid

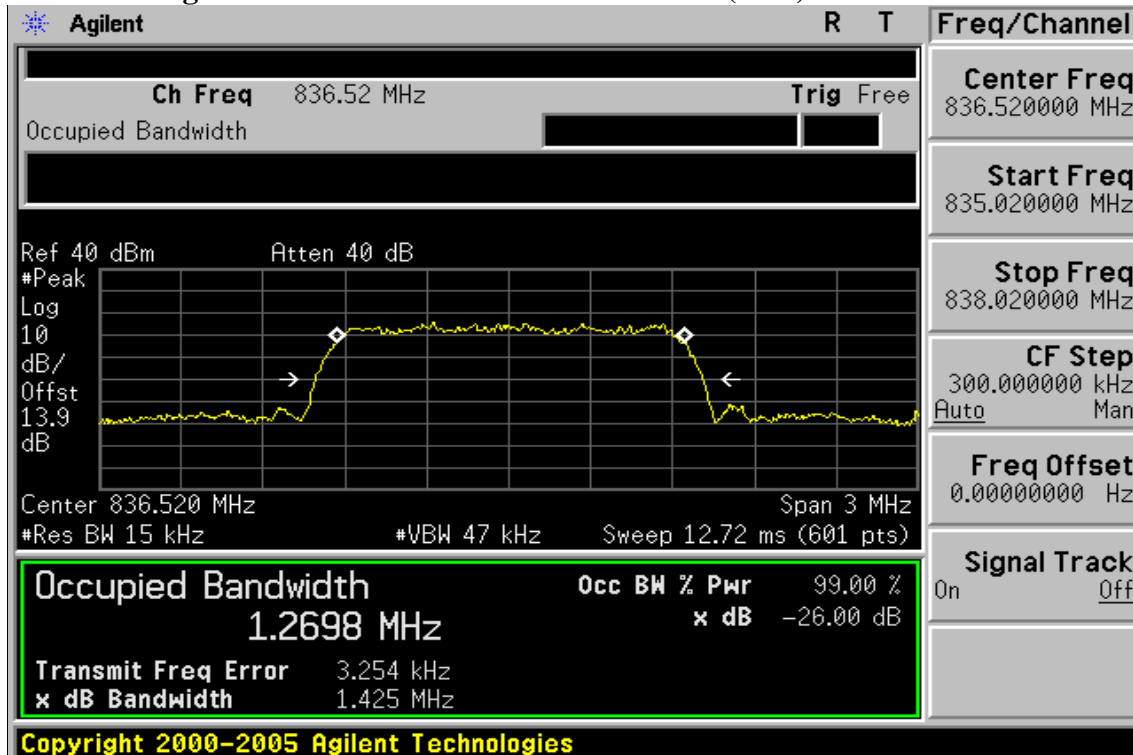
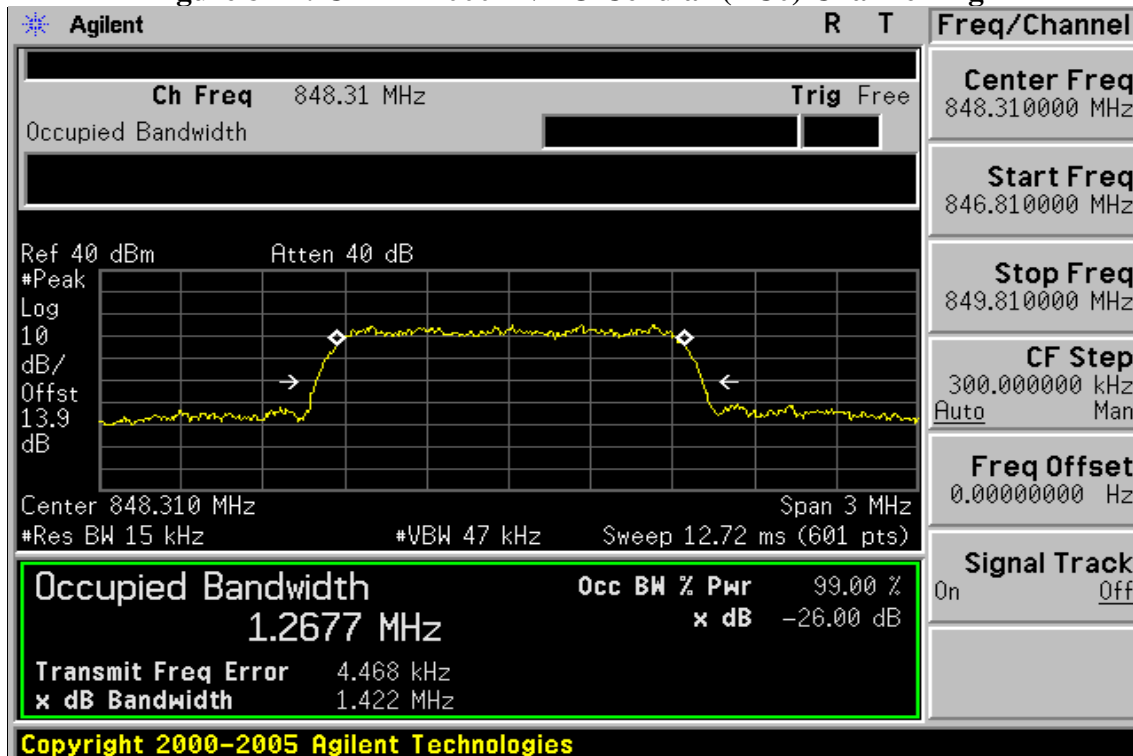


Figure 8-12: CDMA 2000 EVDO Cellular (BC0) Channel High



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Figure 8-13: CDMA 2000 EVDO PCS (BC1) Channel Low

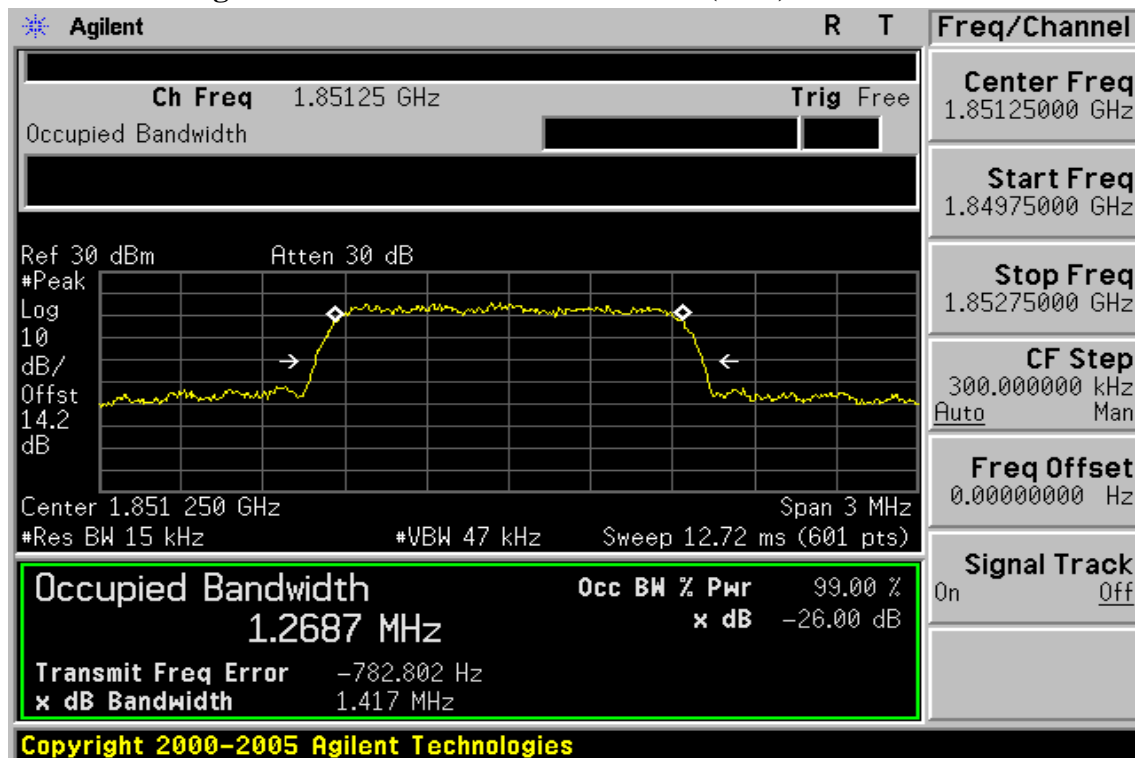
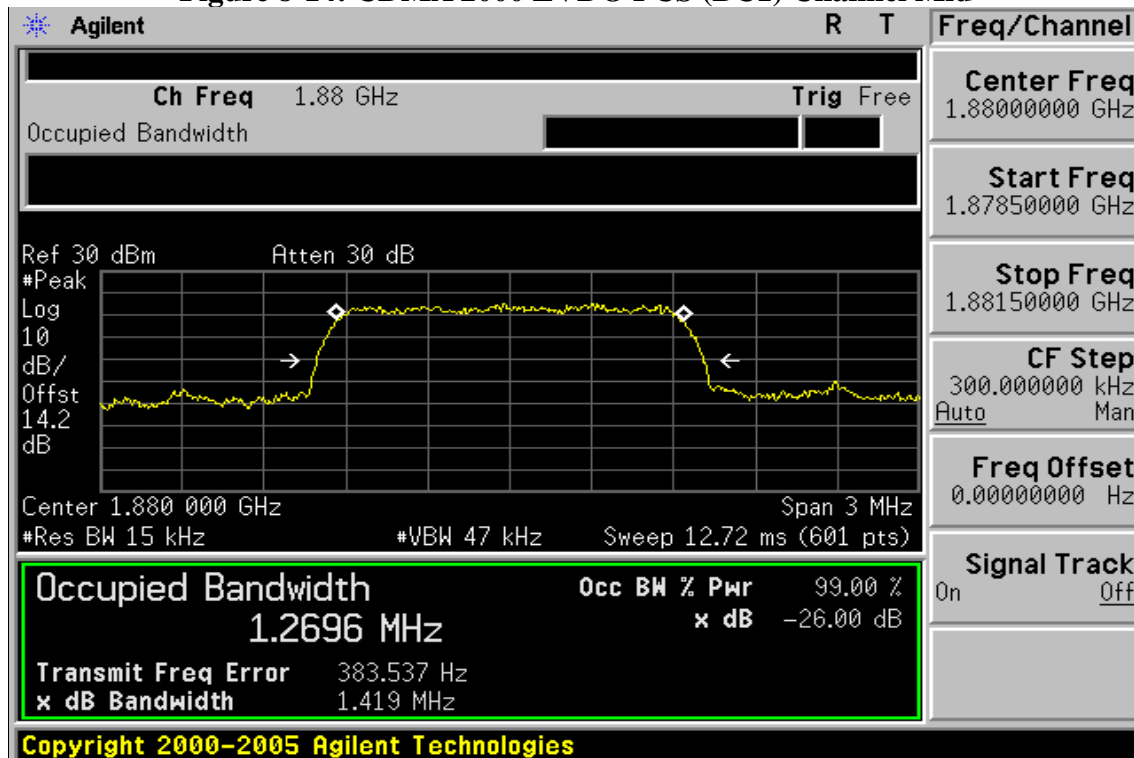


Figure 8-14: CDMA 2000 EVDO PCS (BC1) Channel Mid



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GPRS Figure 8-15: CDMA 2000 EVDO PCS (BC1) Channel High

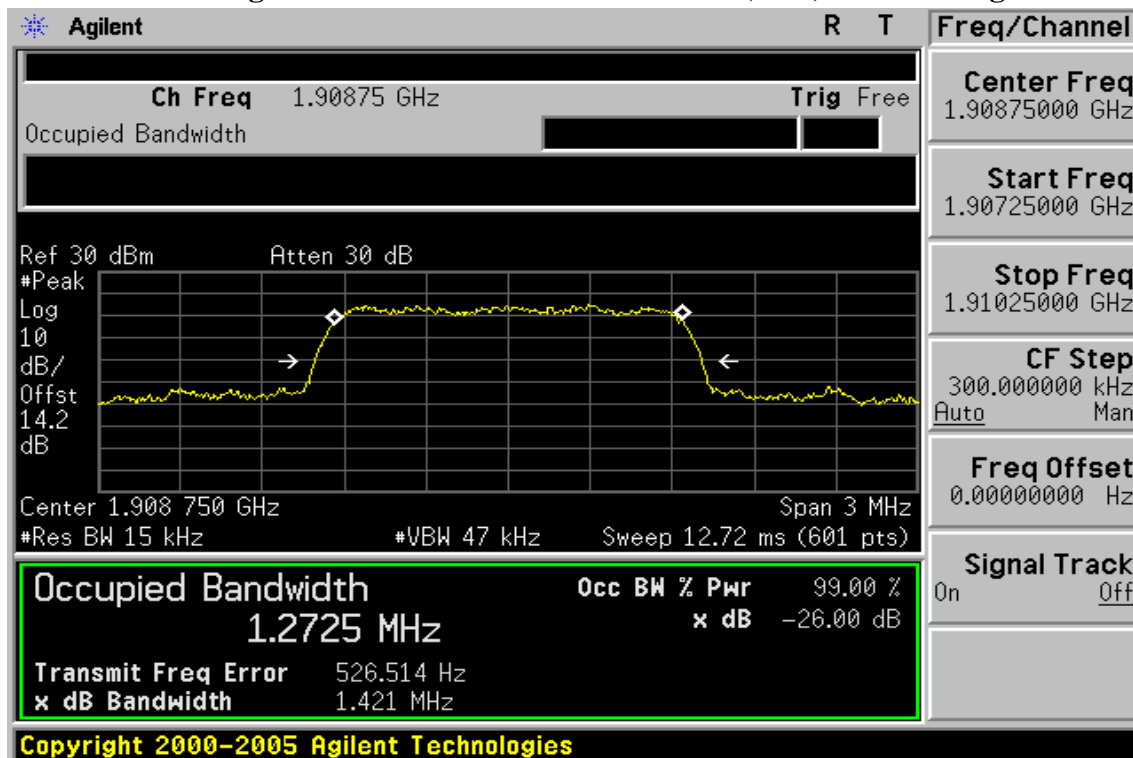
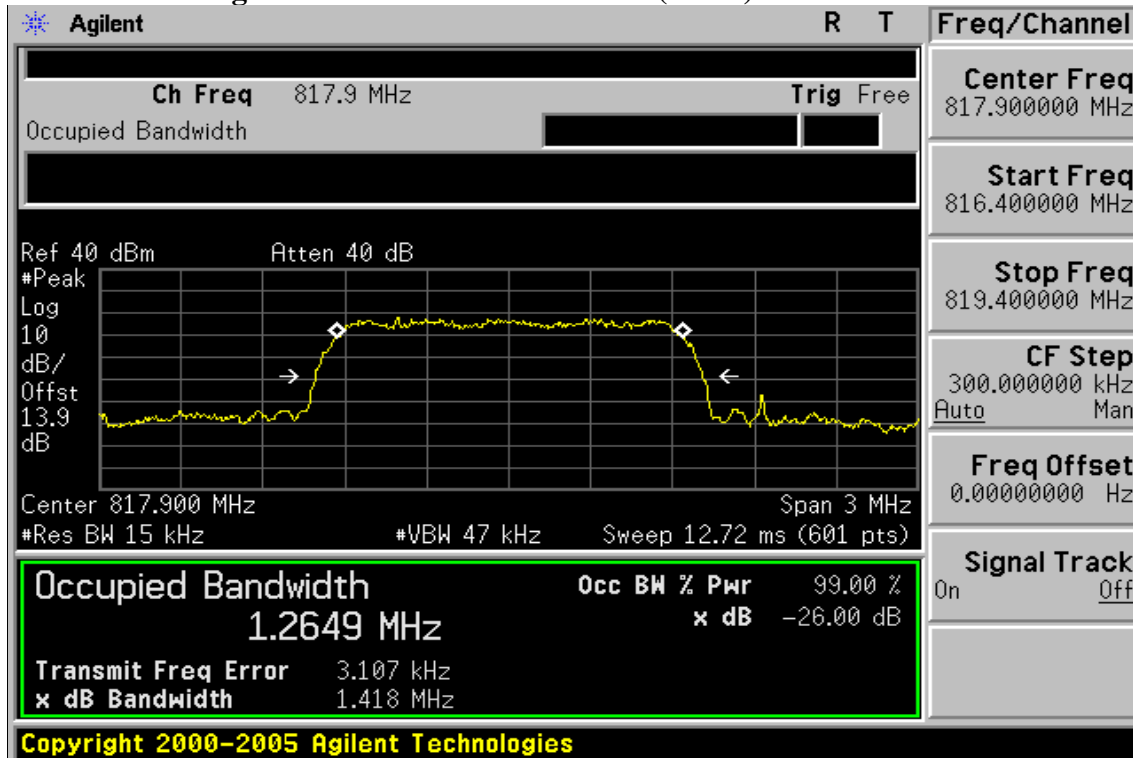


Figure 8-16: CDMA 2000 EVDO (BC10) Channel Low



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Figure 8-17: CDMA 2000 EVDO (BC10) Channel Mid

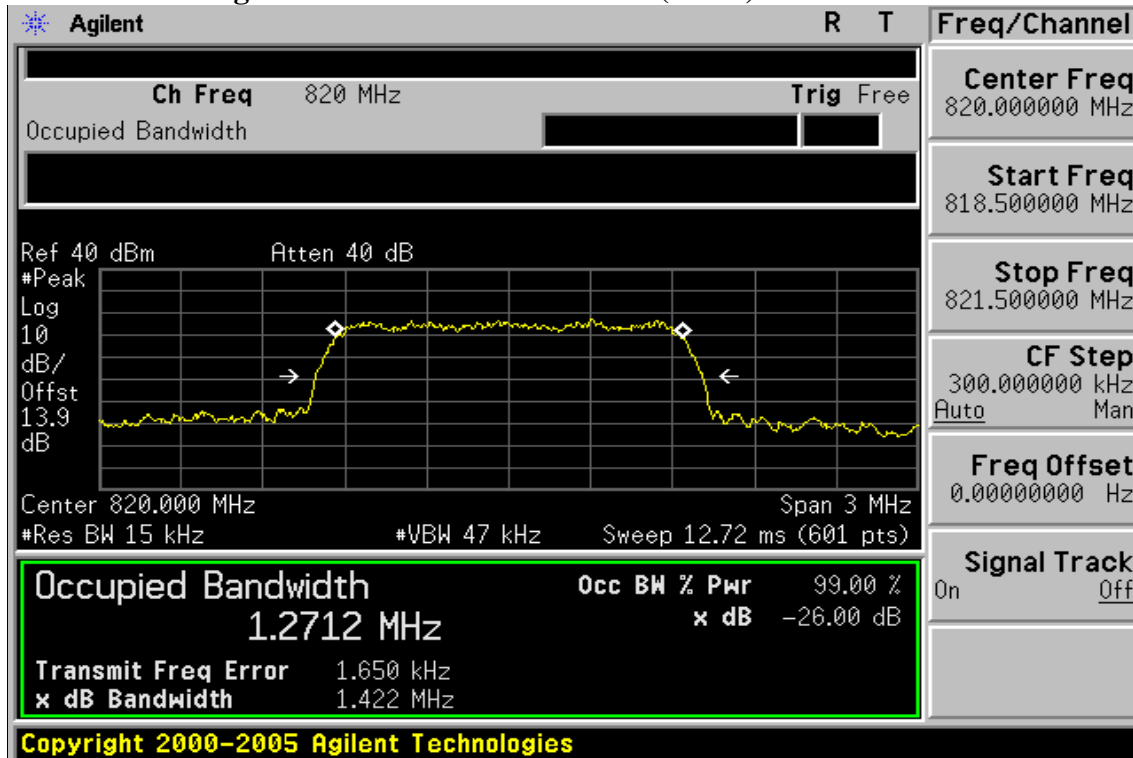
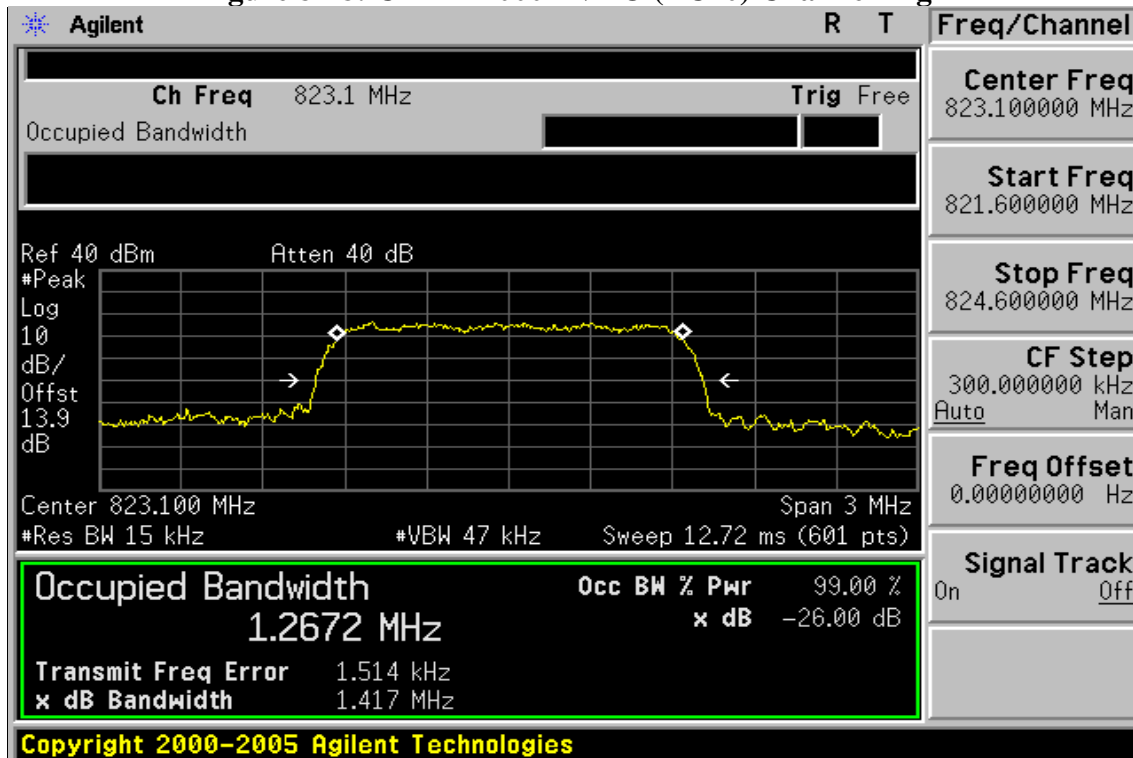


Figure 8-18: CDMA 2000 EVDO (BC10) Channel High



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Figure 8-19: 1.4MHz BW LTE-Band 25(QPSK RB Number: 6 Offset: 0) Channel Low

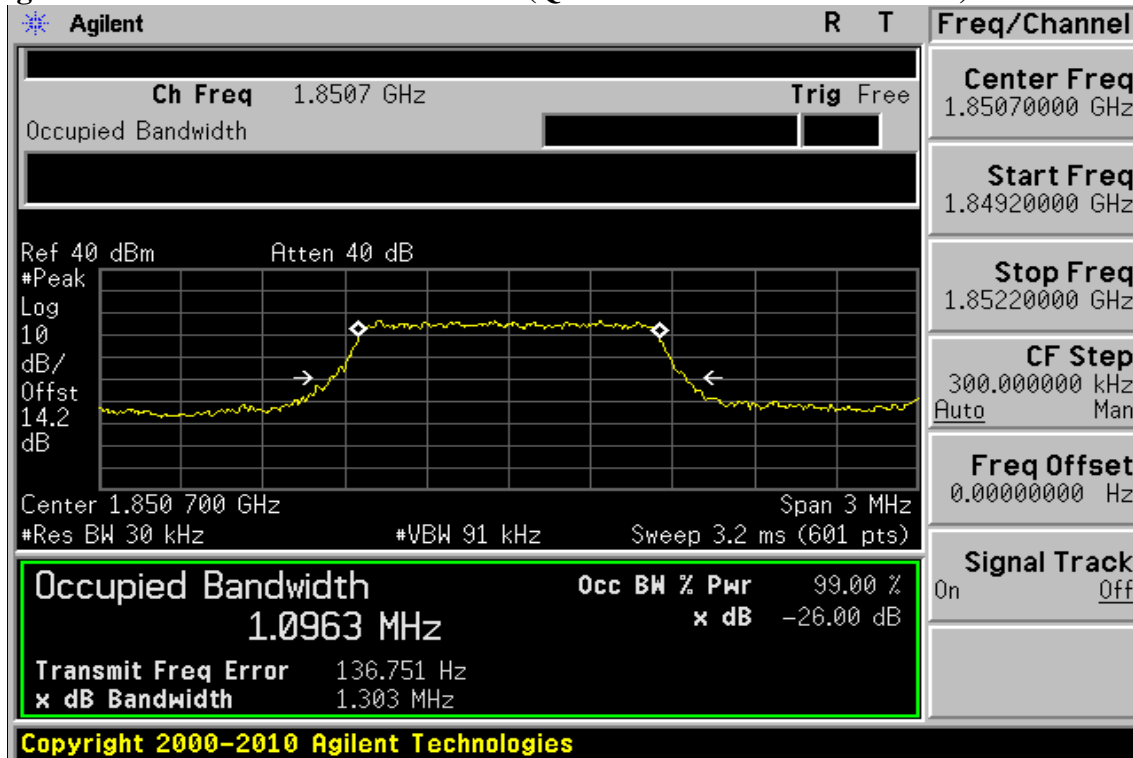
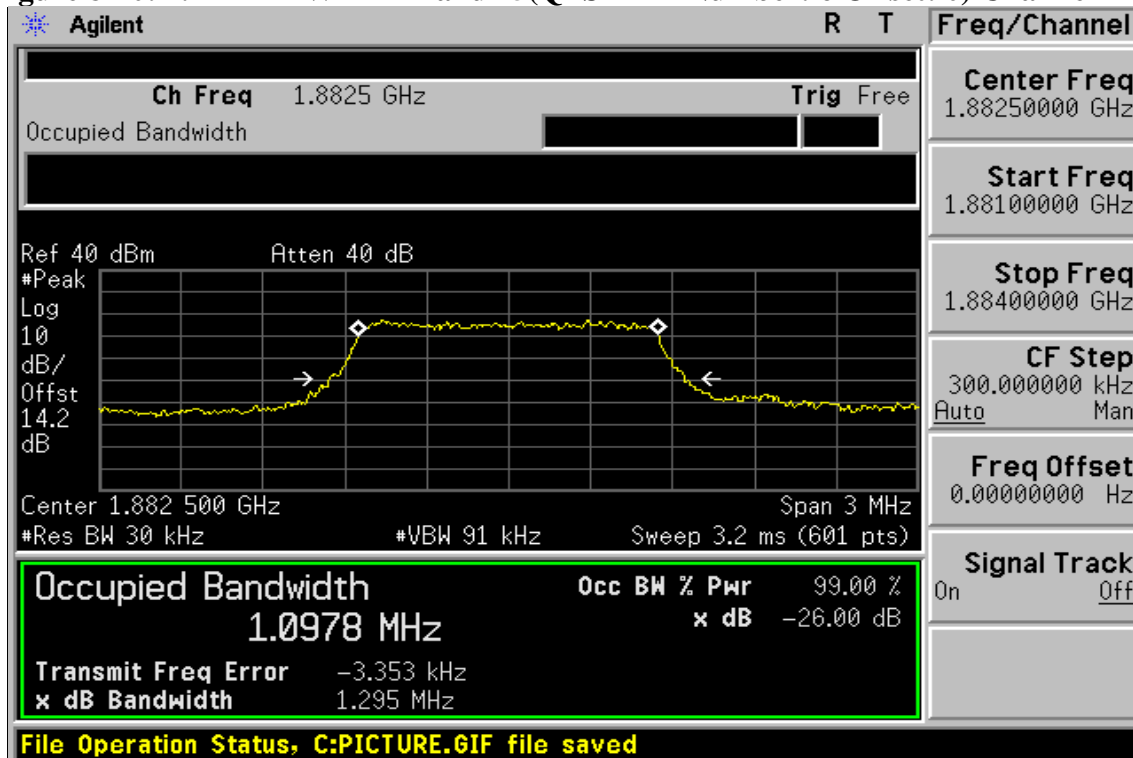


Figure 8-20: 1.4MHz BW LTE-Band 25(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 8-21: 1.4MHz BW LTE-Band 25(QPSK RB Number: 6 Offset: 0) Channel High

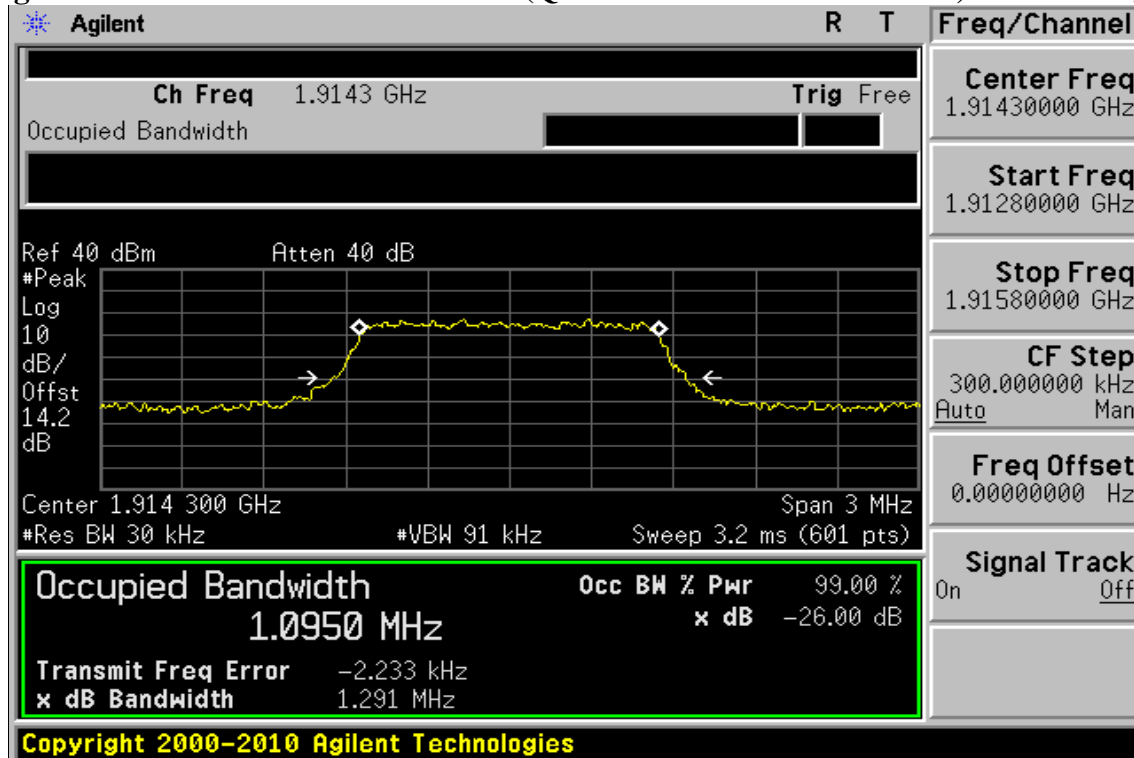
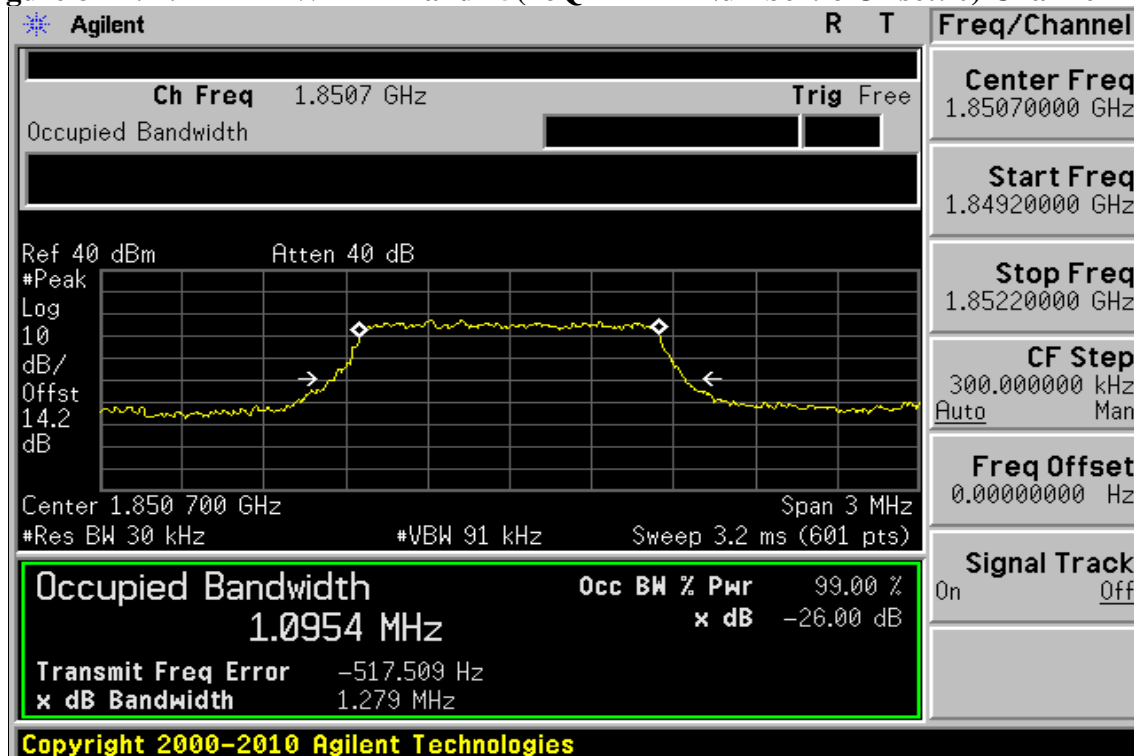


Figure 8-22: 1.4MHz BW LTE-Band 25(16QAM RB Number: 6 Offset: 0) Channel Low



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Figure 8-23: 1.4MHz BW LTE-Band 25(16QAM RB Number: 6 Offset: 0) Channel Mid

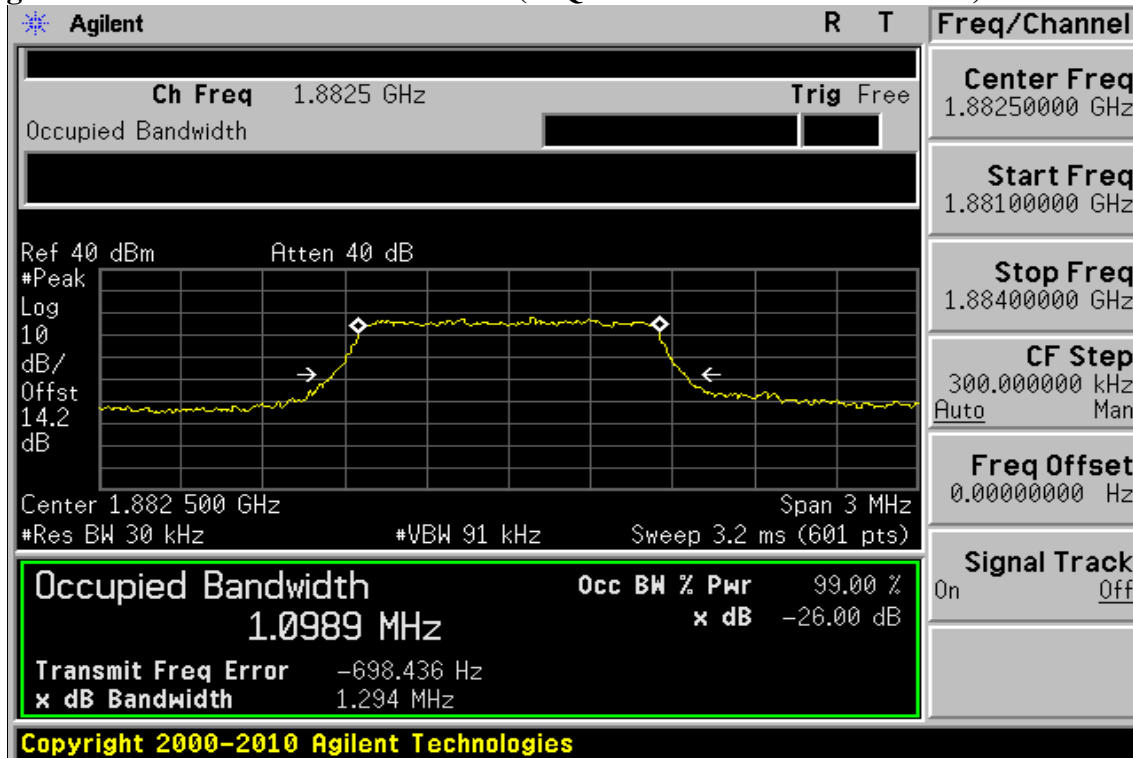
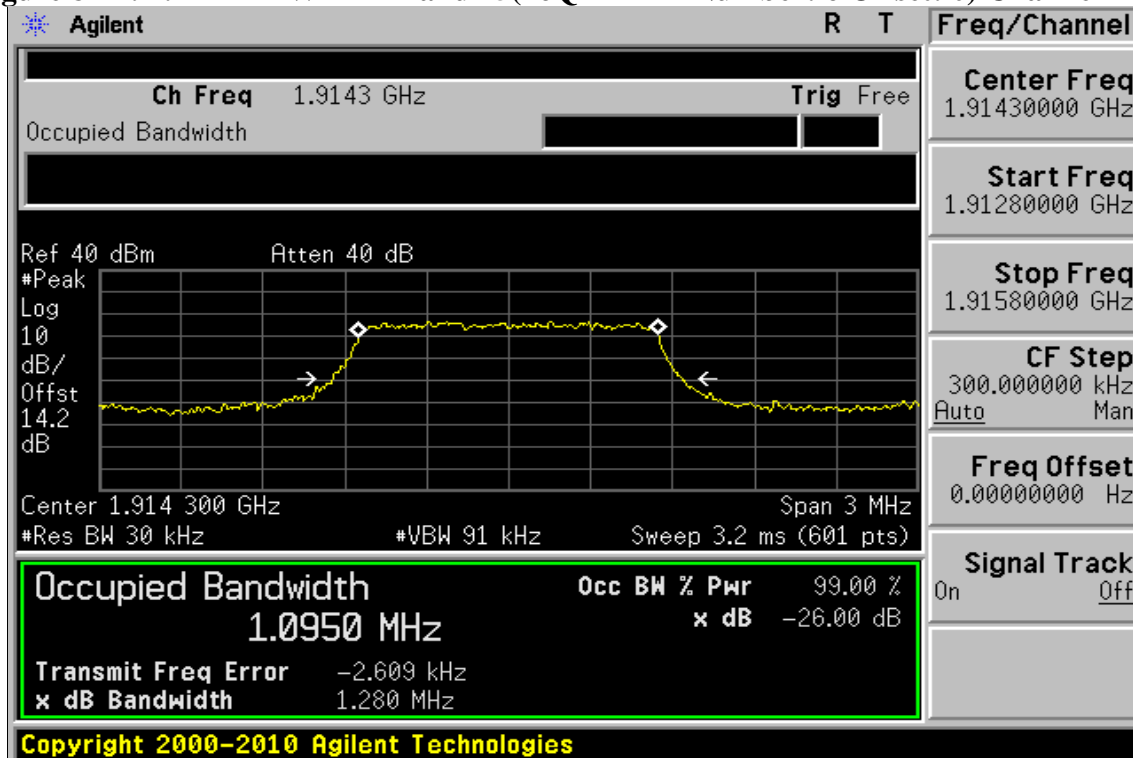


Figure 8-24: 1.4MHz BW LTE-Band 25(16QAM RB Number: 6 Offset: 0) Channel High



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Figure 8-25: 3MHz BW LTE-Band 25(QPSK RB Number: 15 Offset: 0) Channel Low

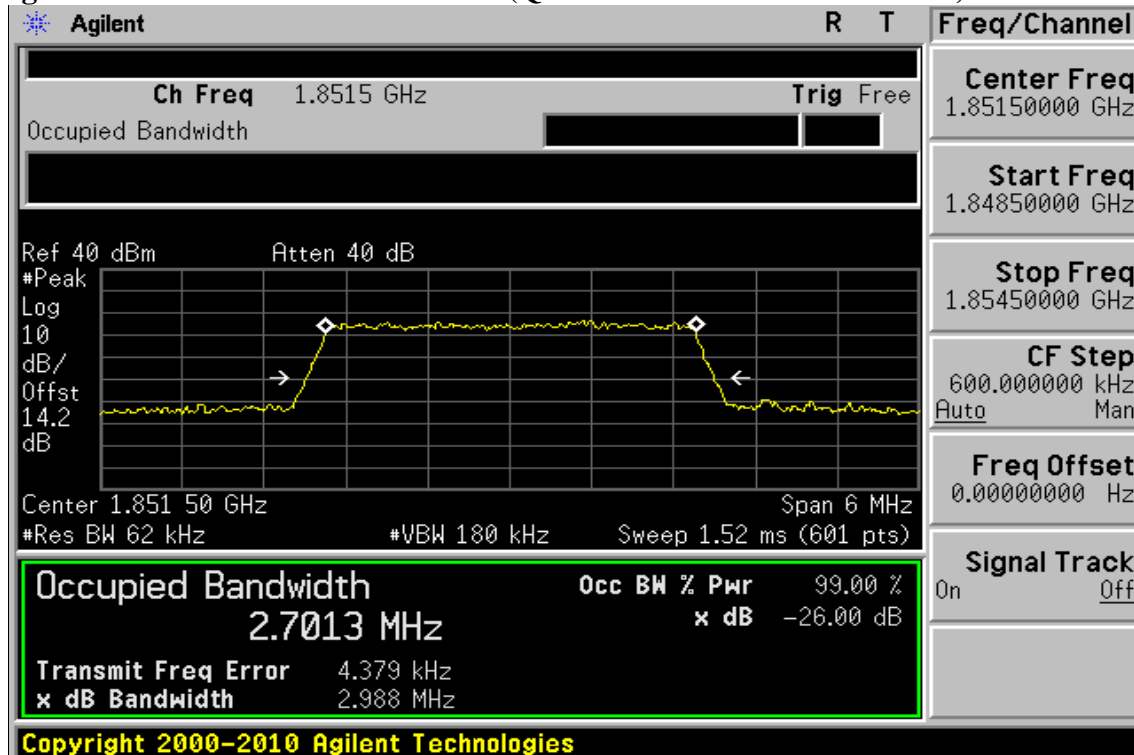
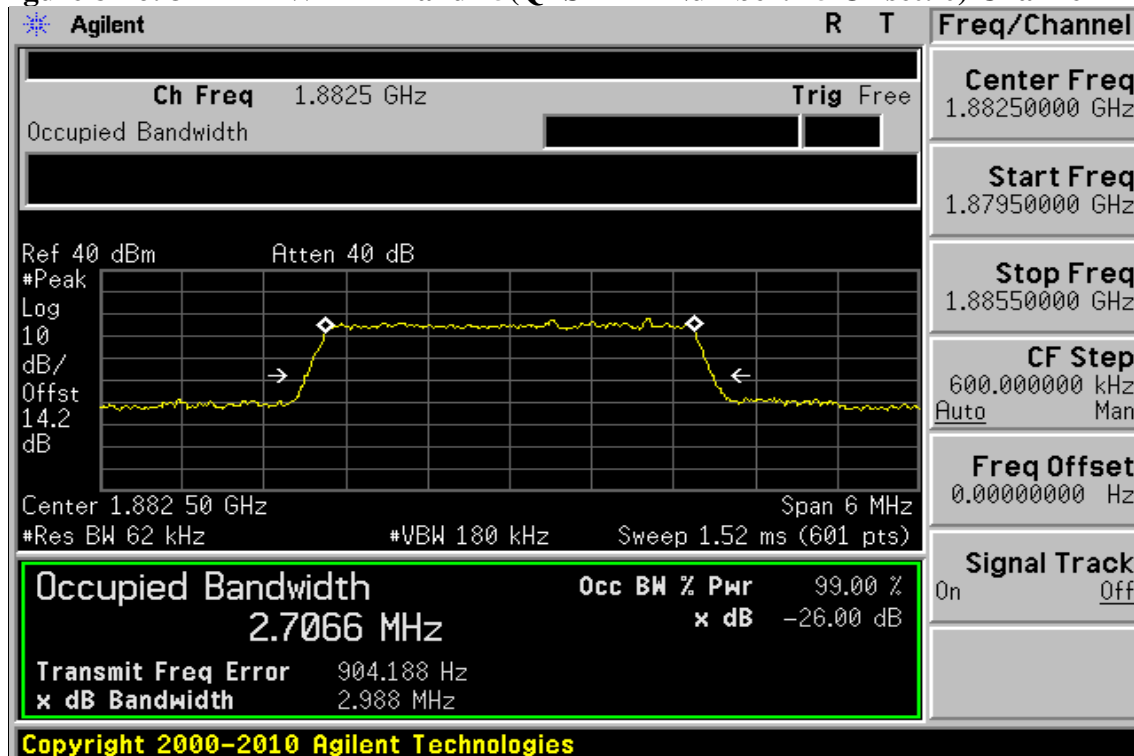


Figure 8-26: 3MHz BW LTE-Band 25(QPSK RB Number: 15 Offset: 0) Channel Mid



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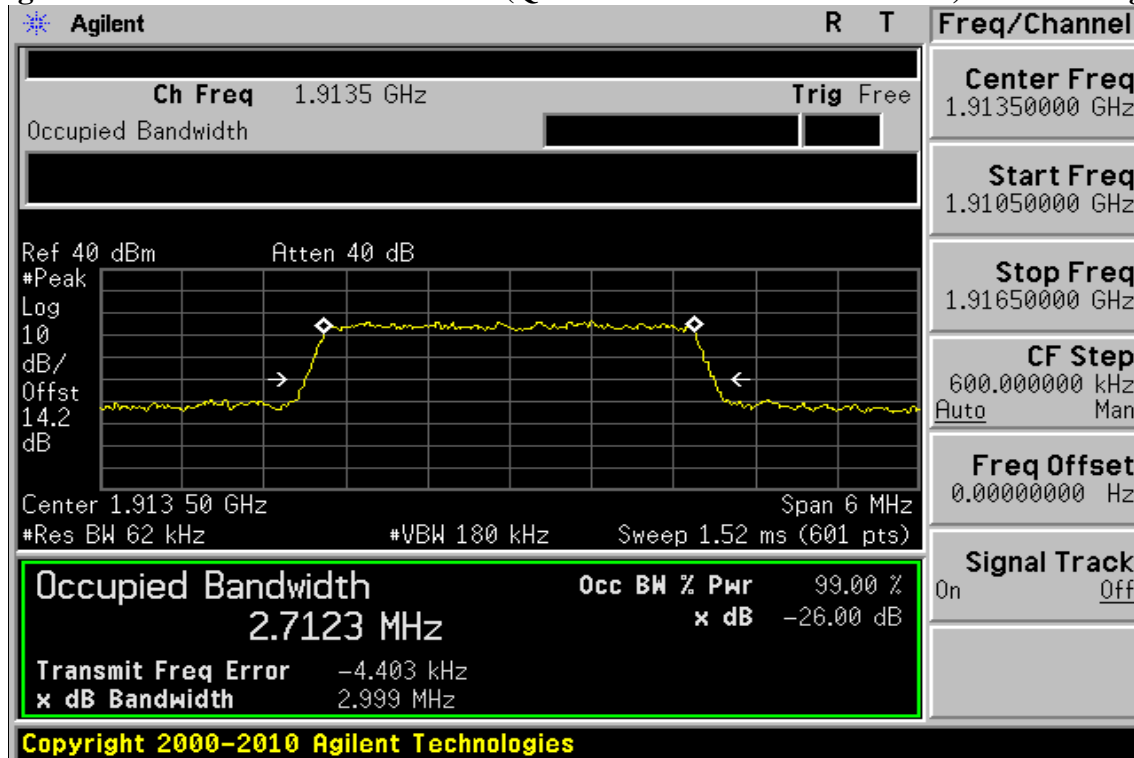
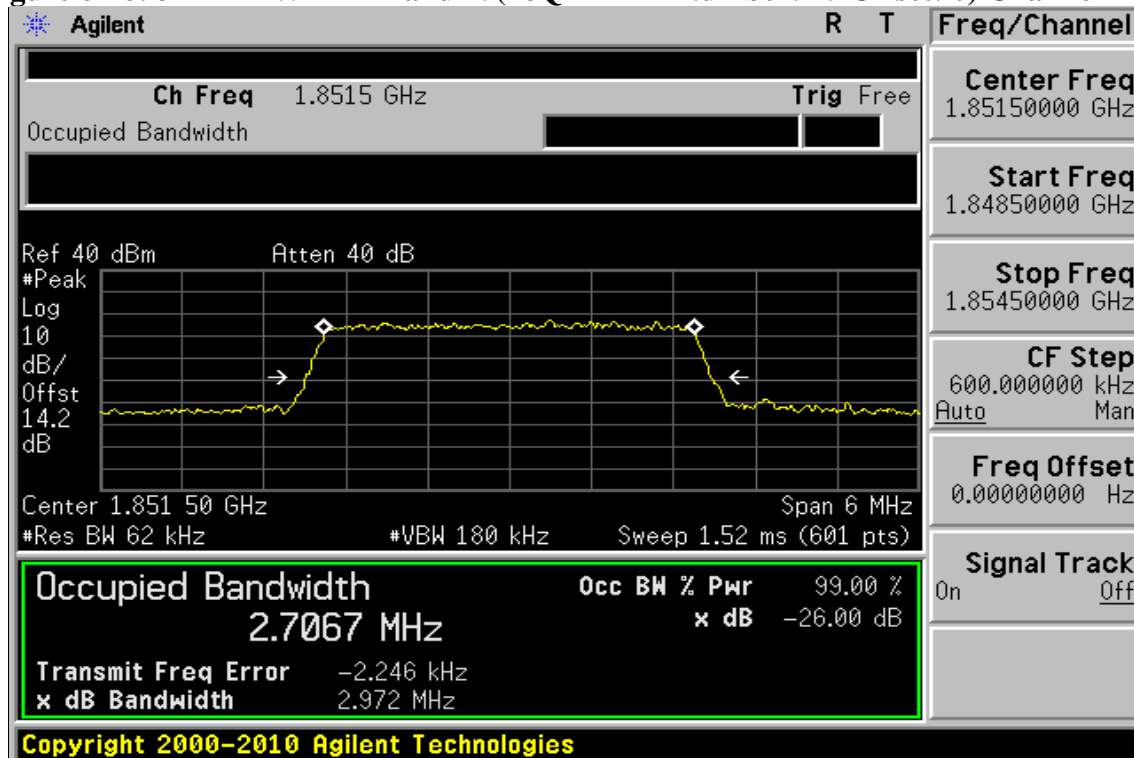
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**Figure 8-27: 3MHz BW LTE-Band 25(QPSK RB Number: 15 Offset: 0) Channel High**

**Figure 8-28: 3MHz BW LTE-Band 25(16QAM RB Number: 15 Offset: 0) Channel Low**


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Figure 8-29: 3MHz BW LTE-Band 25(16QAM RB Number: 15 Offset: 0) Channel Mid

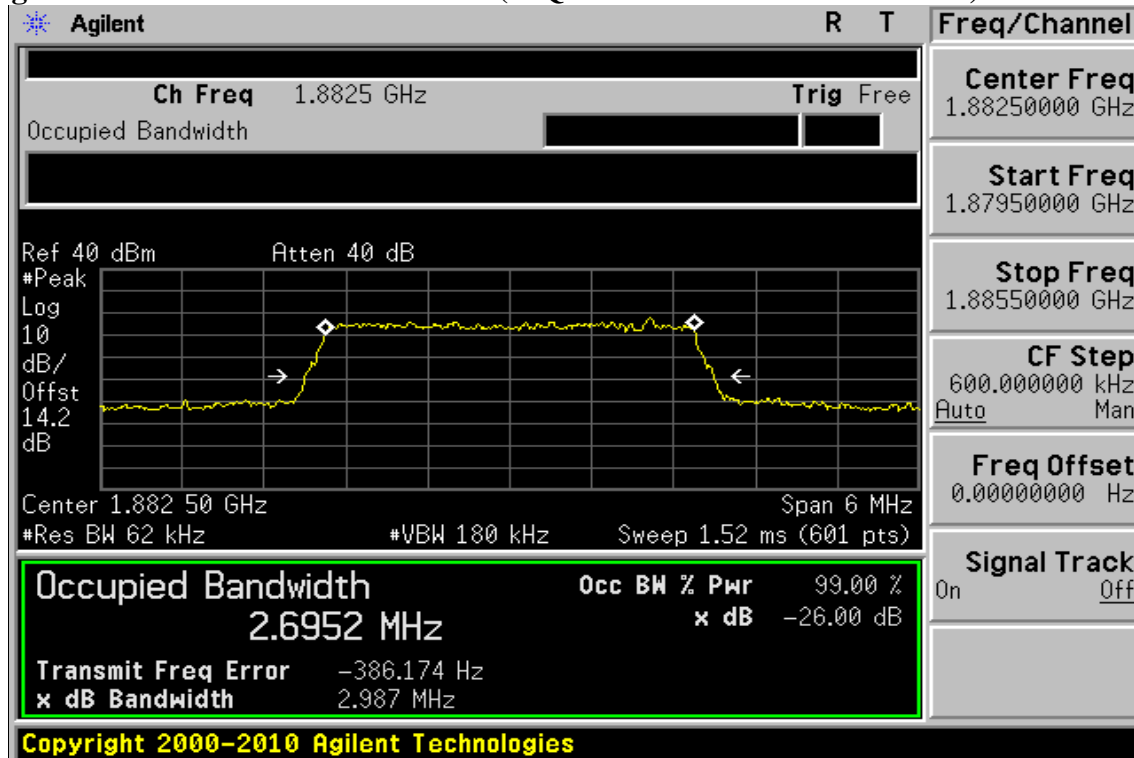
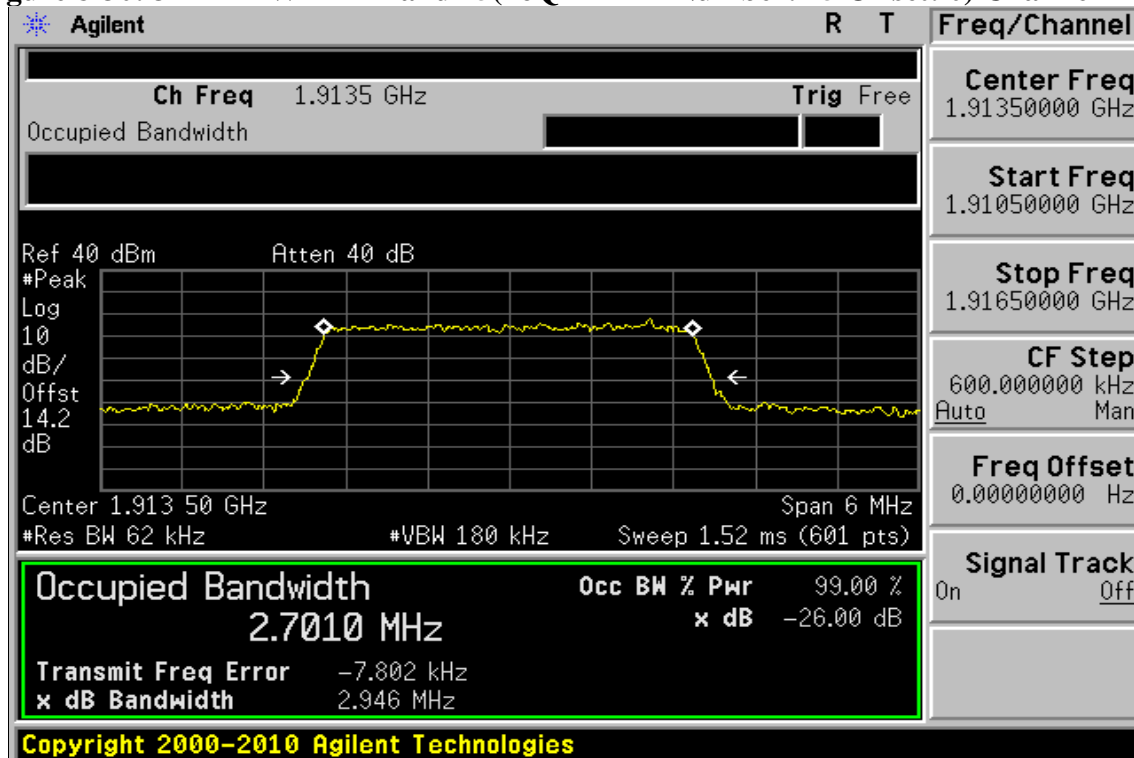


Figure 8-30: 3MHz BW LTE-Band 25(16QAM RB Number: 15 Offset: 0) Channel High



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Figure 8-31: 5MHz BW LTE-Band 25(QPSK RB Number: 25 Offset: 0) Channel Low

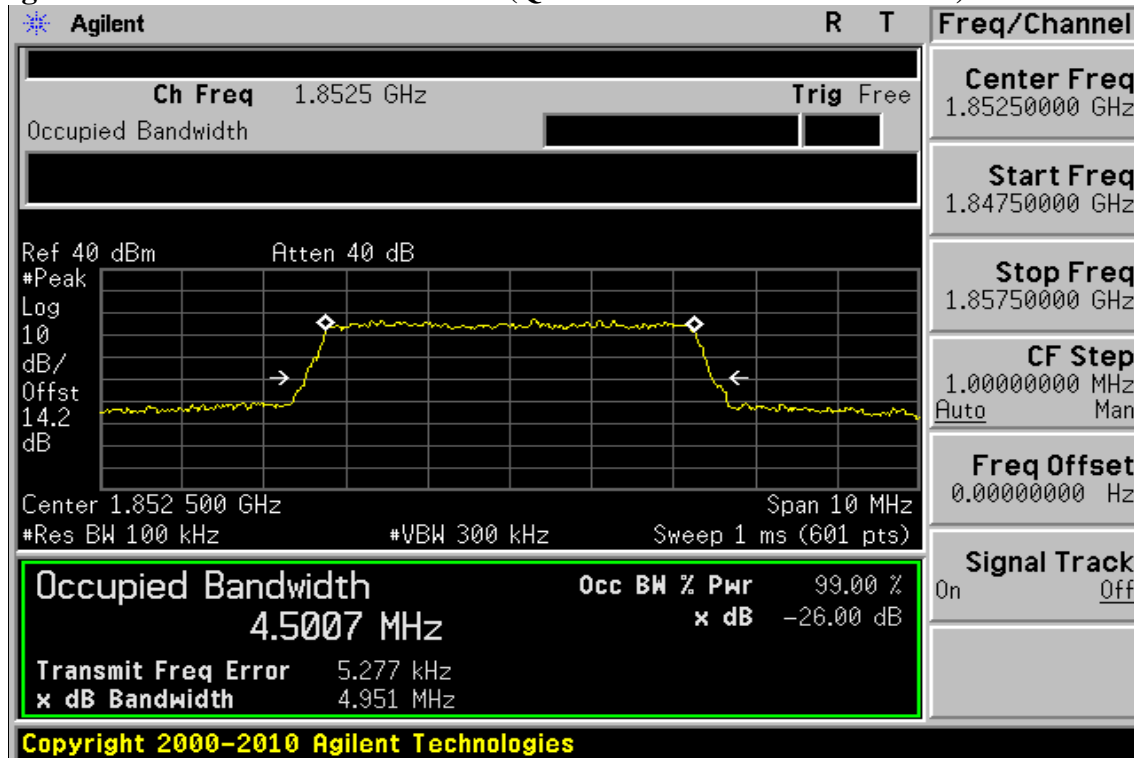
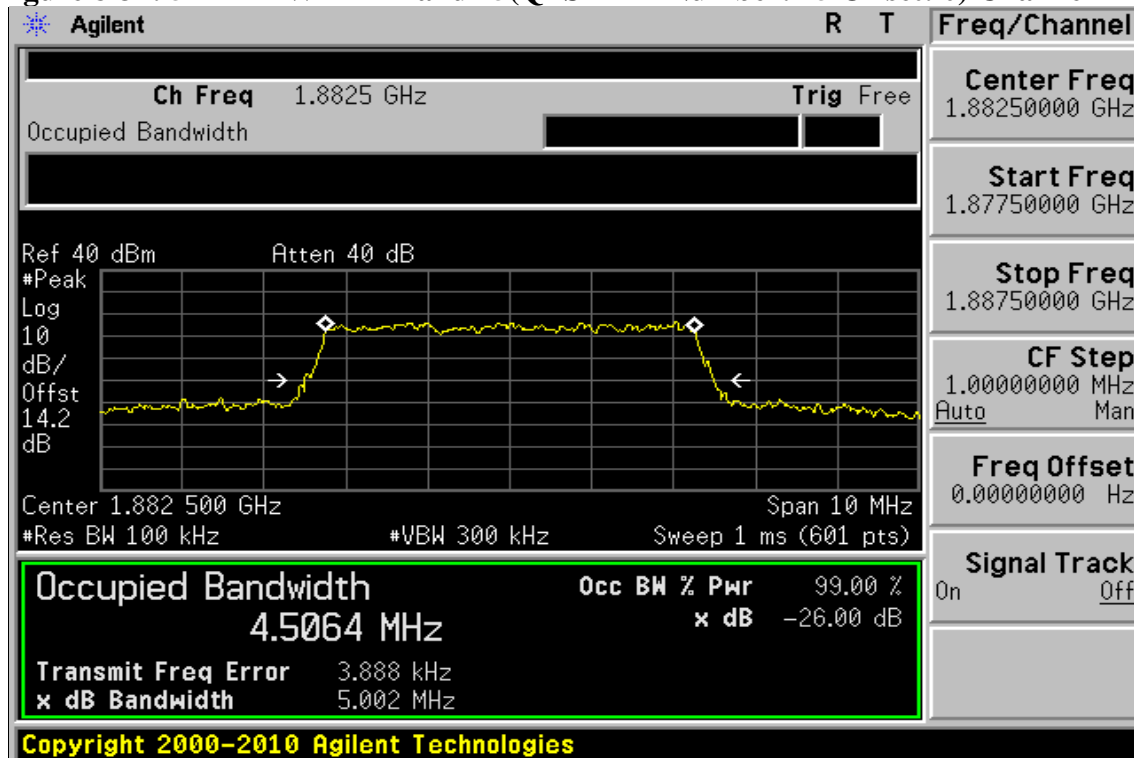


Figure 8-32: 5MHz BW LTE-Band 25(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 8-33: 5MHz BW LTE-Band 25(QPSK RB Number: 25 Offset: 0) Channel High

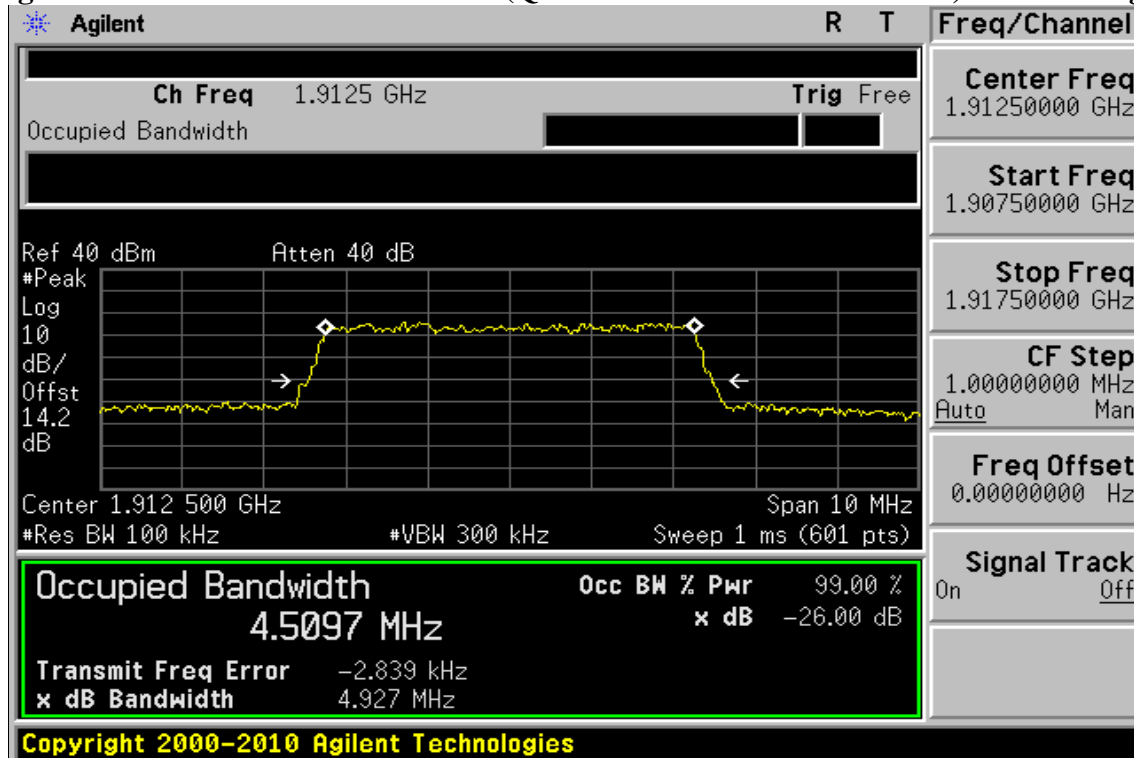
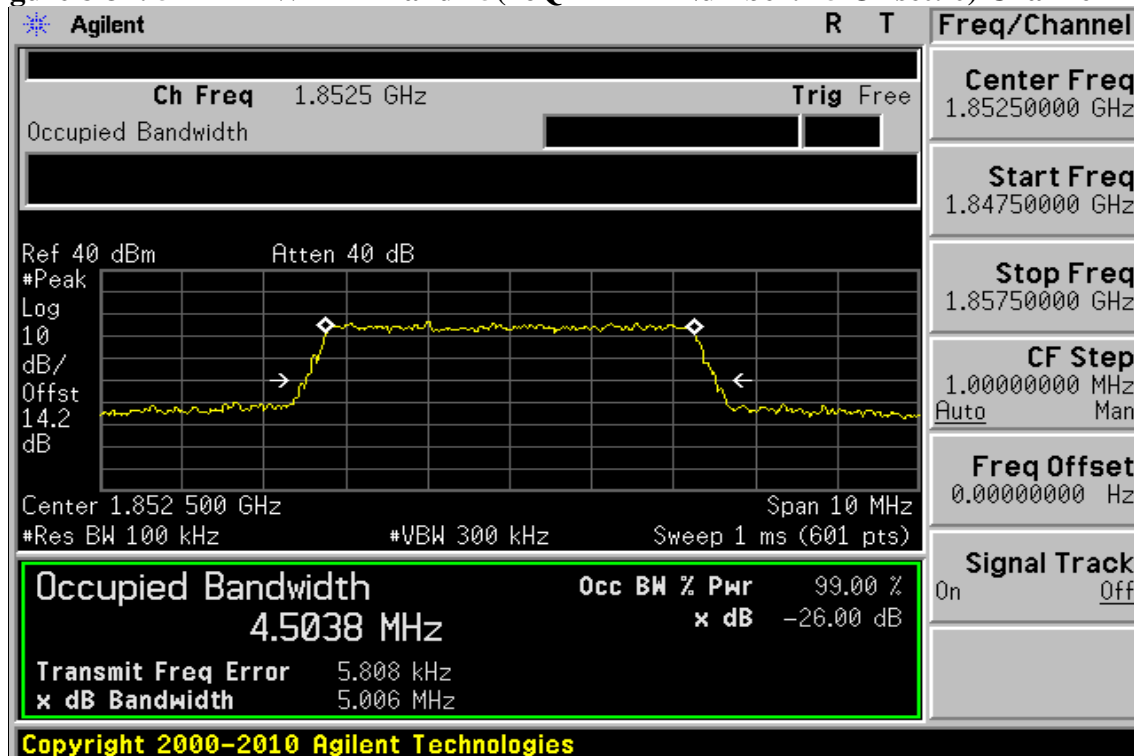


Figure 8-34: 5MHz BW LTE-Band 25(16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 8-35: 5MHz BW LTE-Band 25(16QAM RB Number: 25 Offset: 0) Channel Mid

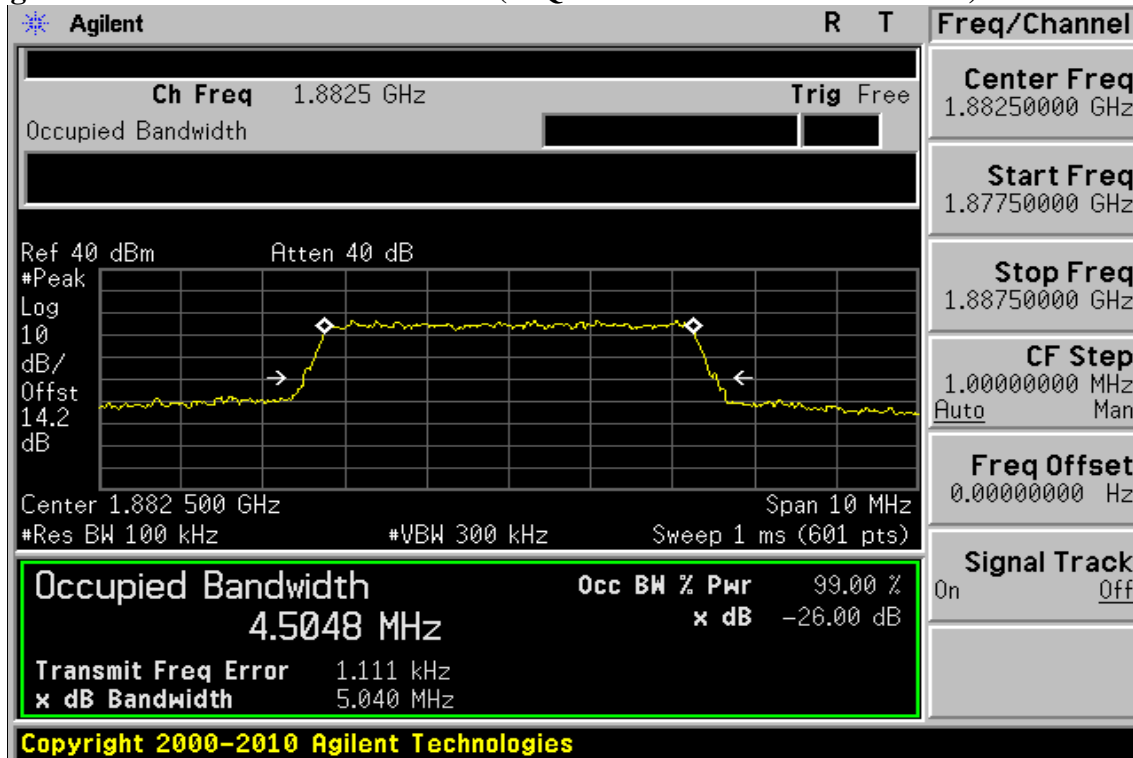
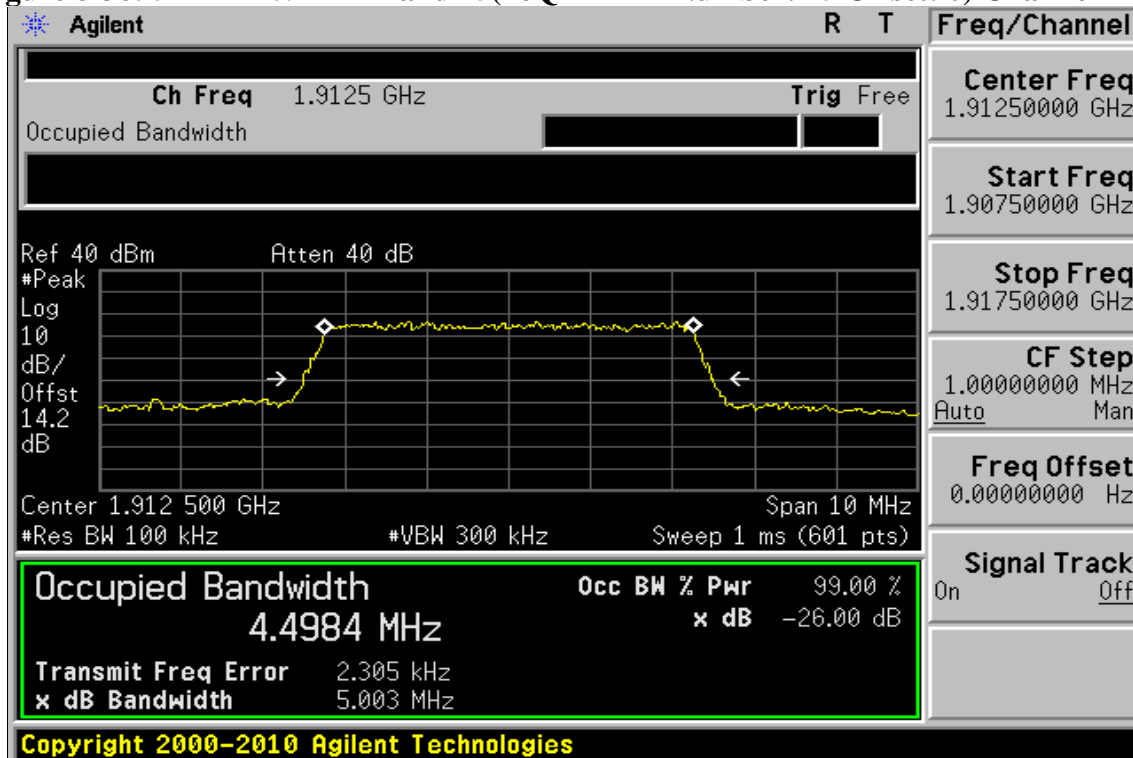


Figure 8-36: 5MHz BW LTE-Band 25(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 8-37: 10MHz BW LTE-Band 25(QPSK RB Number: 50 Offset: 0) Channel Low

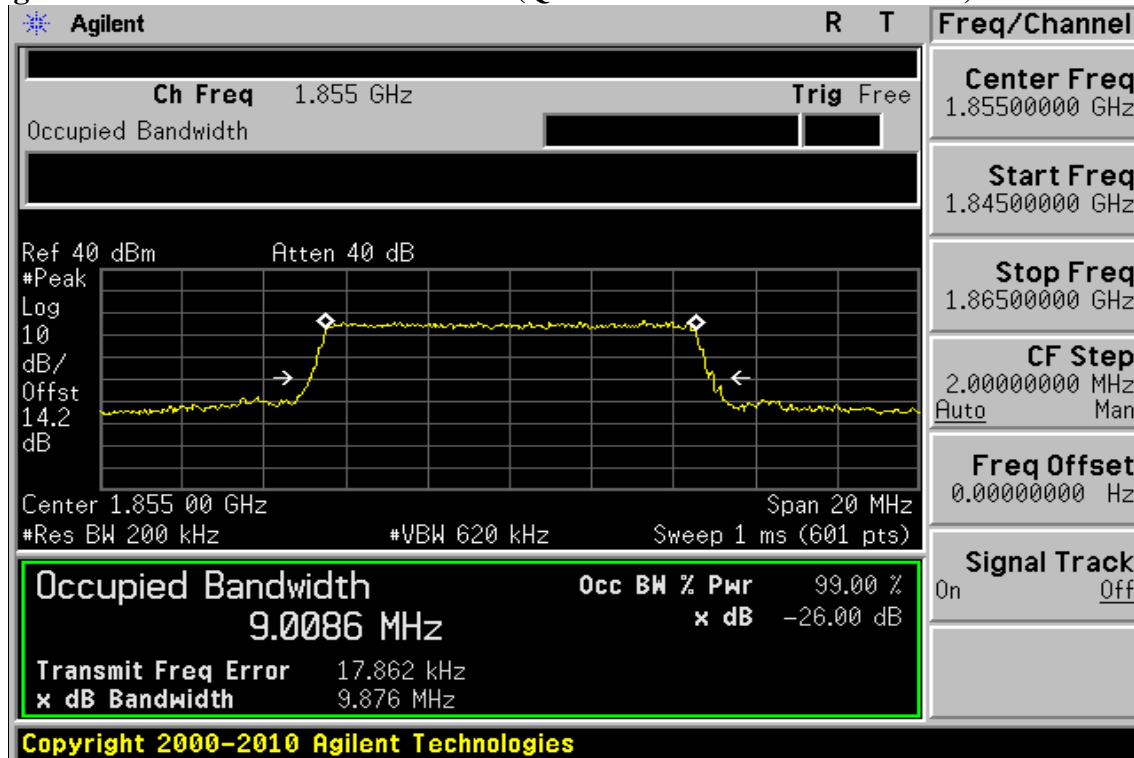
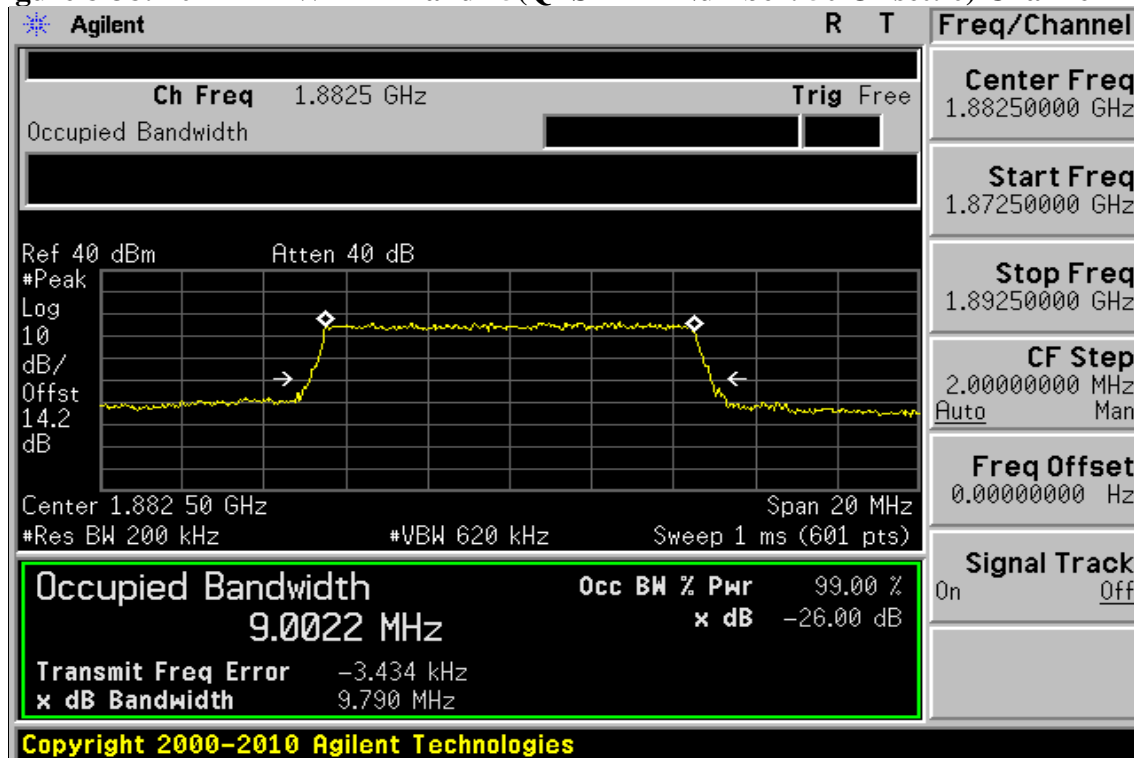


Figure 8-38: 10MHz BW LTE-Band 25(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 8-39: 10MHz BW LTE-Band 25(QPSK RB Number: 50 Offset: 0) Channel High

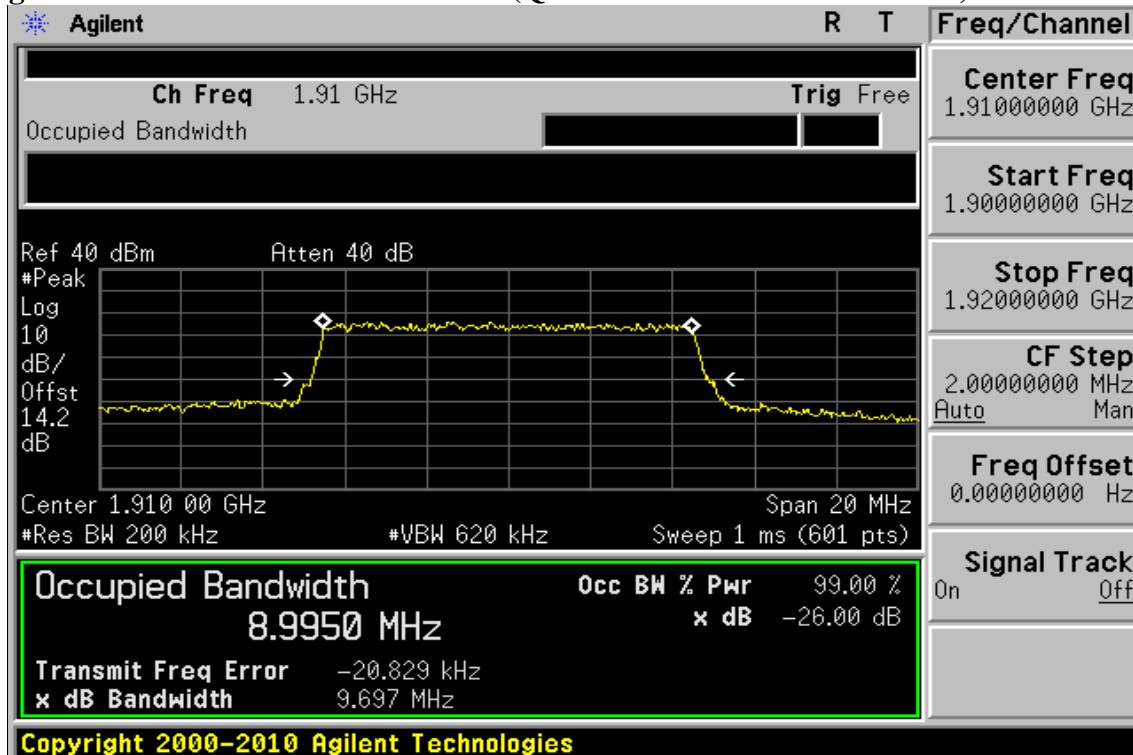
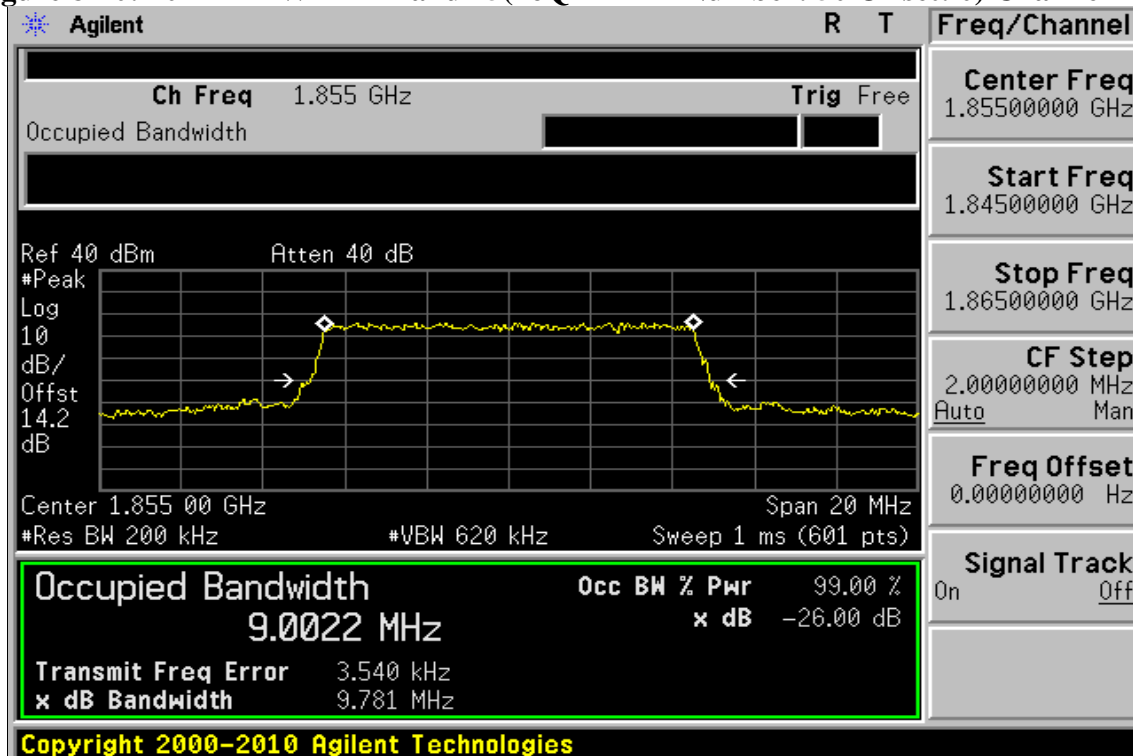


Figure 8-40: 10MHz BW LTE-Band 25(16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 8-41: 10MHz BW LTE-Band 25(16QAM RB Number: 50 Offset: 0) Channel Mid

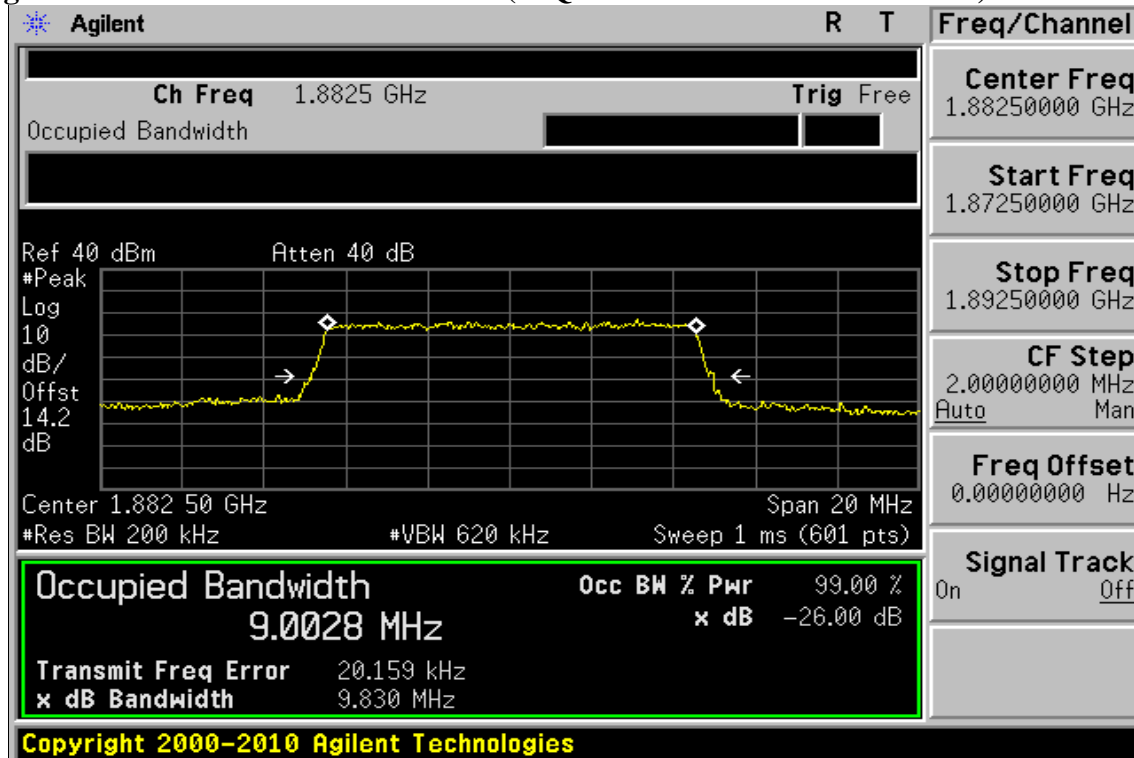
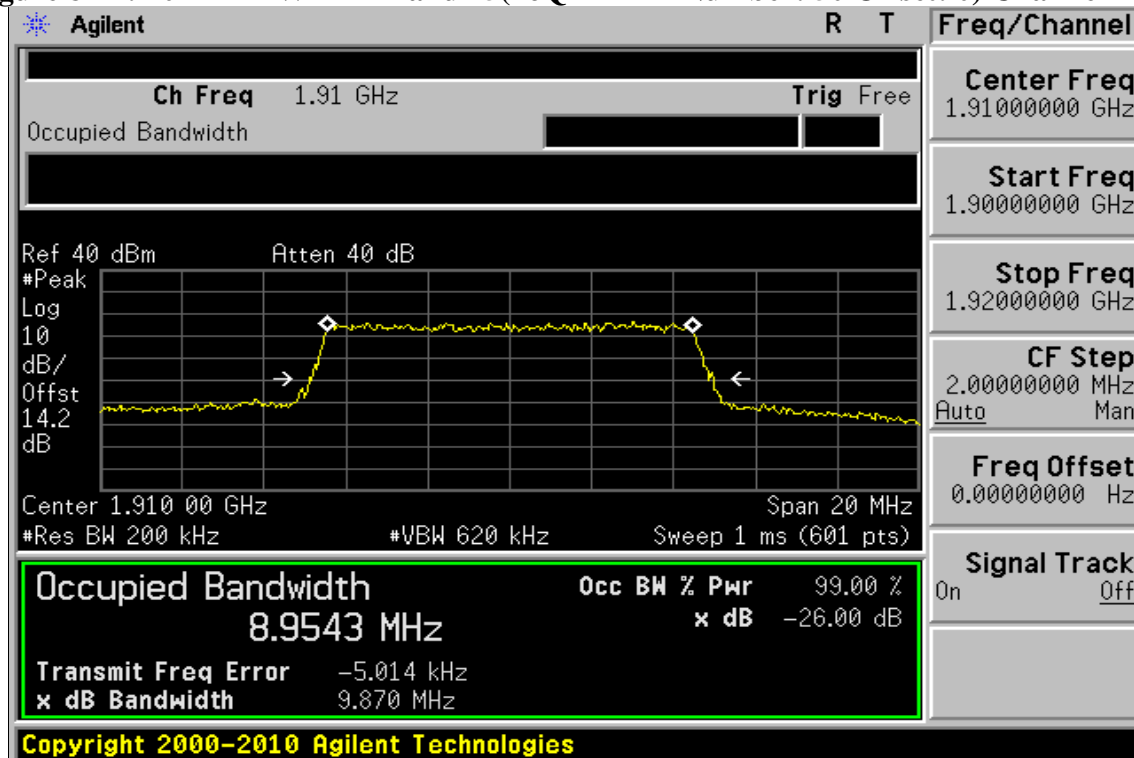


Figure 8-42: 10MHz BW LTE-Band 25(16QAM RB Number: 50 Offset: 0) Channel High



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Figure 8-43: 15MHz BW LTE-Band 25(QPSK RB Number: 75 Offset: 0) Channel Low

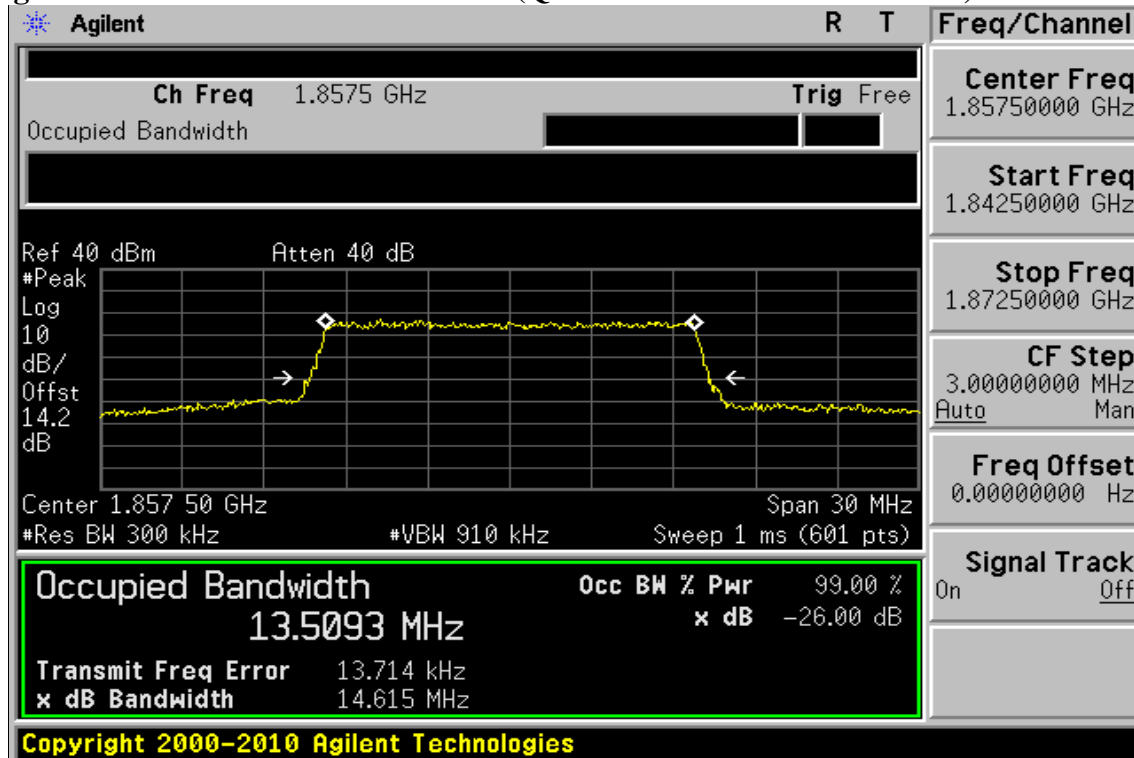
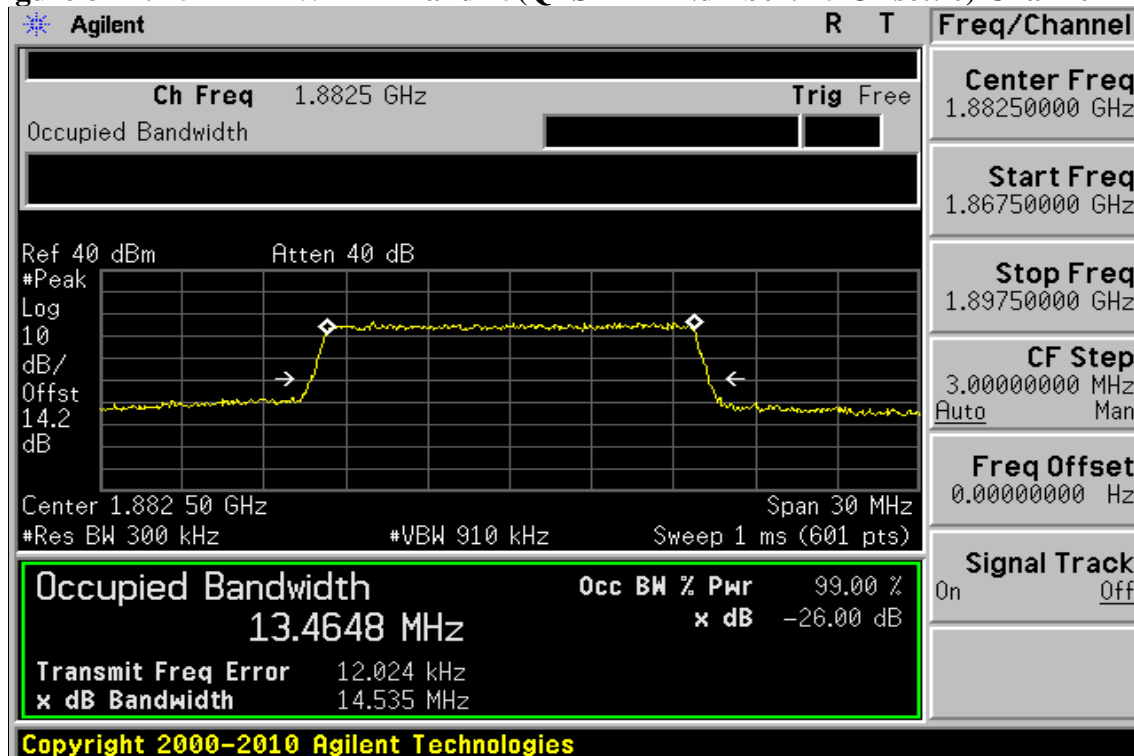


Figure 8-44: 15MHz BW LTE-Band 25(QPSK RB Number: 75 Offset: 0) Channel Mid



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Figure 8-45: 15MHz BW LTE-Band 25(QPSK RB Number: 75 Offset: 0) Channel High

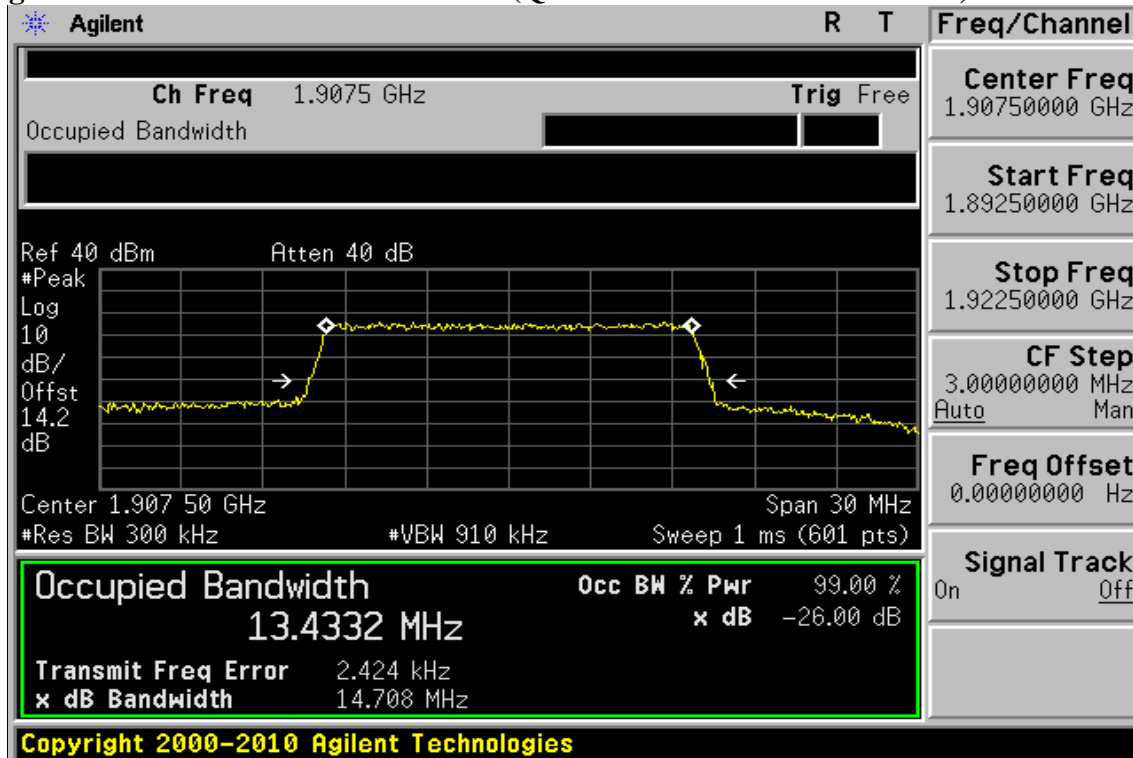
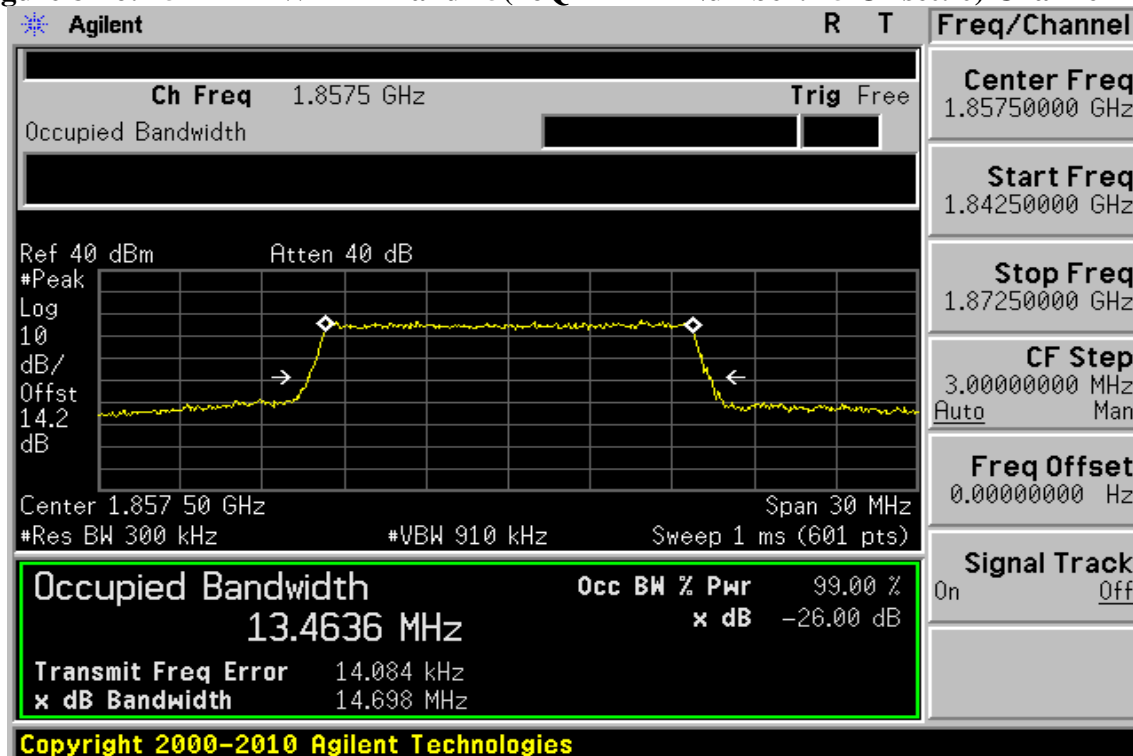


Figure 8-46: 15MHz BW LTE-Band 25(16QAM RB Number: 75 Offset: 0) Channel Low



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Figure 8-47: 15MHz BW LTE-Band 25(16QAM RB Number: 75 Offset: 0) Channel Mid

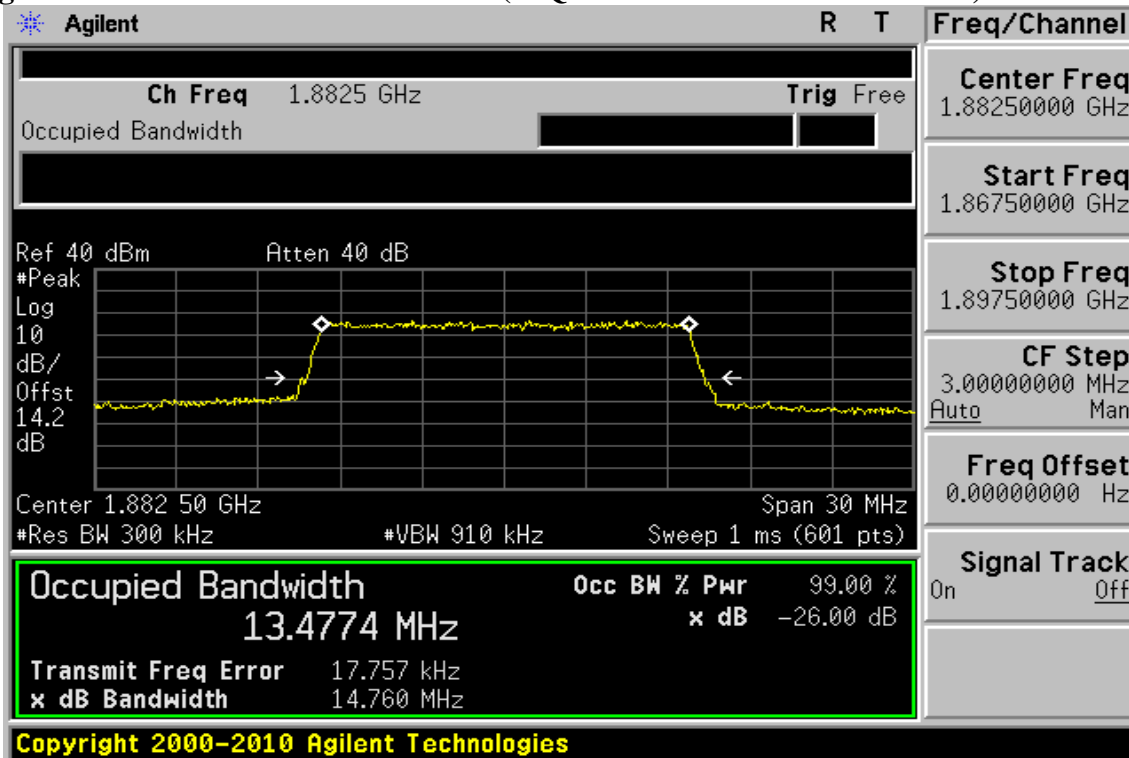
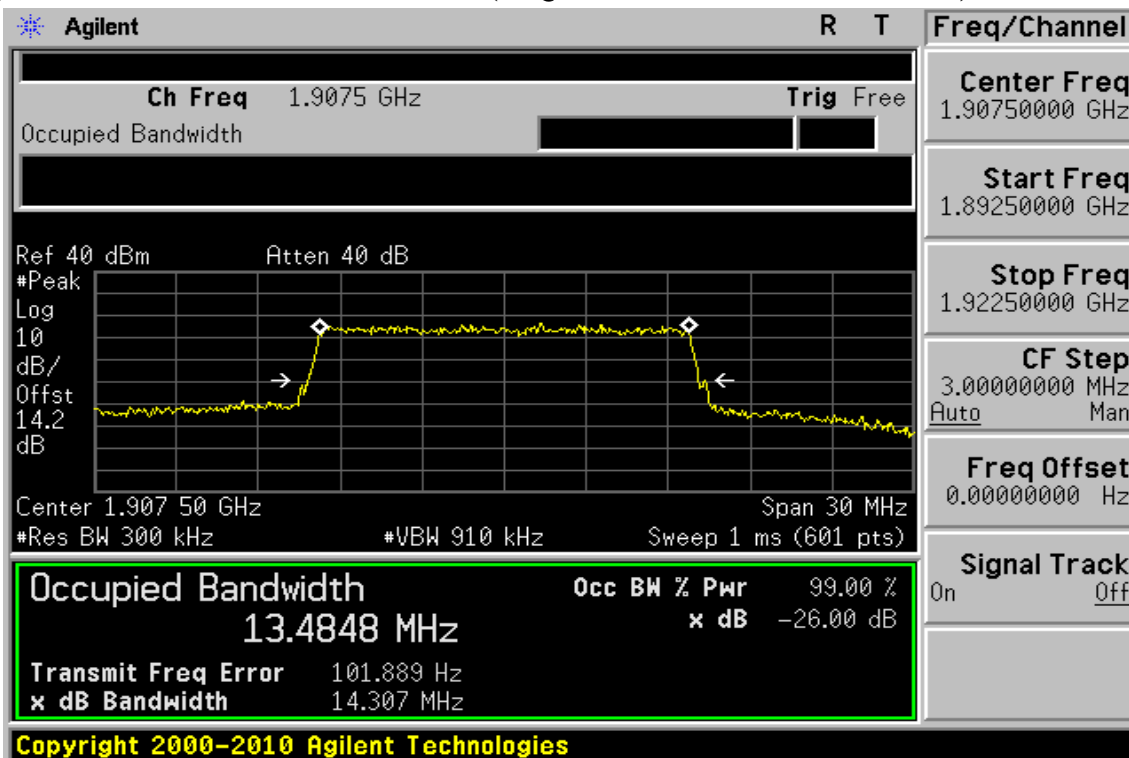


Figure 8-48: 15MHz BW LTE-Band 25(16QAM RB Number: 75 Offset: 0) Channel High



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Figure 8-49: 20MHz BW LTE-Band 25(QPSK RB Number: 100 Offset: 0) Channel Low

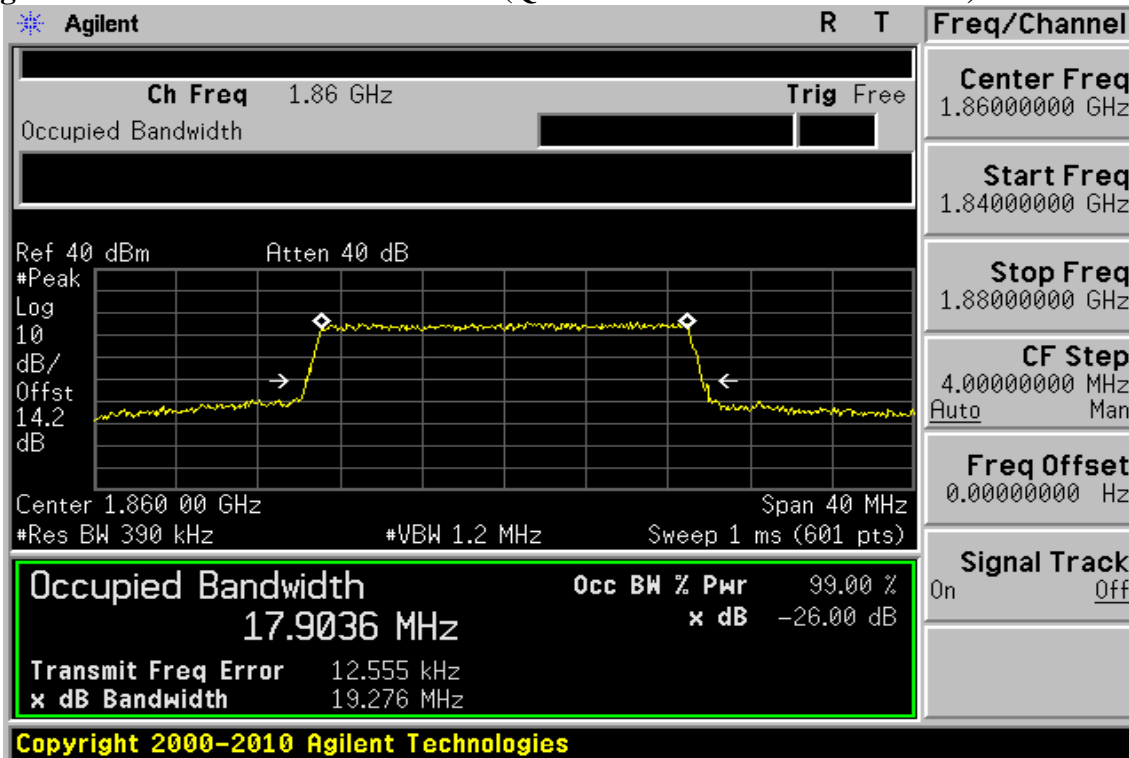
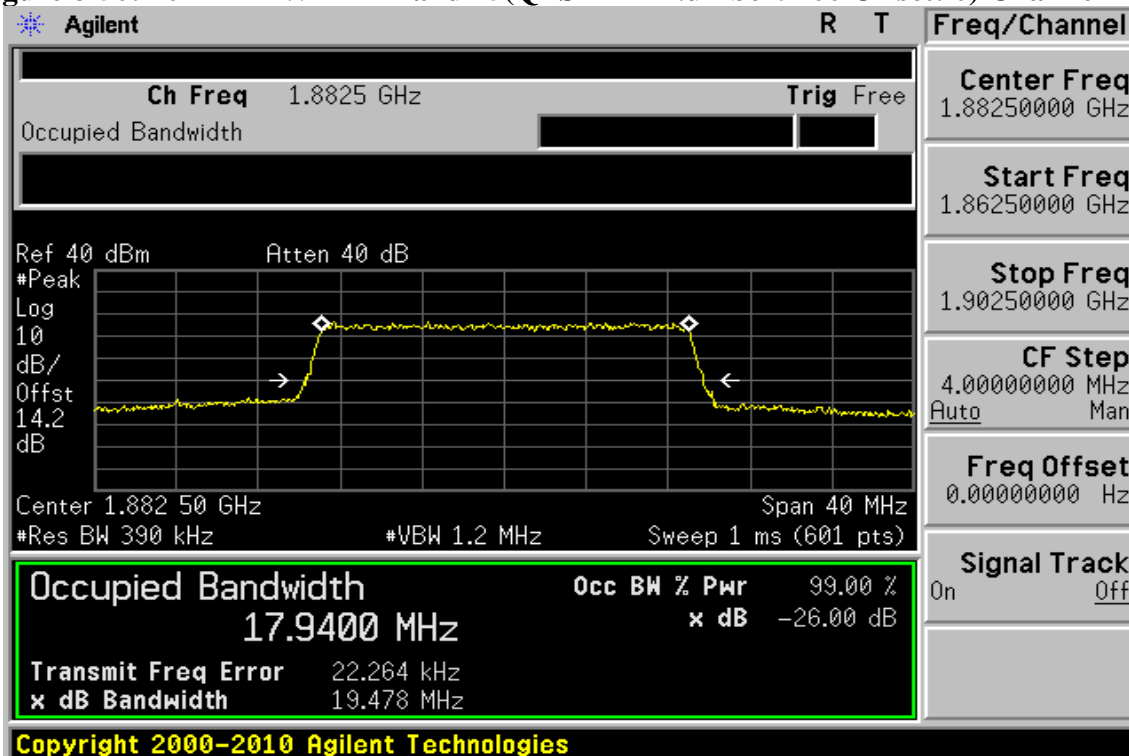


Figure 8-50: 20MHz BW LTE-Band 25(QPSK RB Number: 100 Offset: 0) Channel Mid



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Figure 8-51: 20MHz BW LTE-Band 25(QPSK RB Number: 100 Offset: 0) Channel High

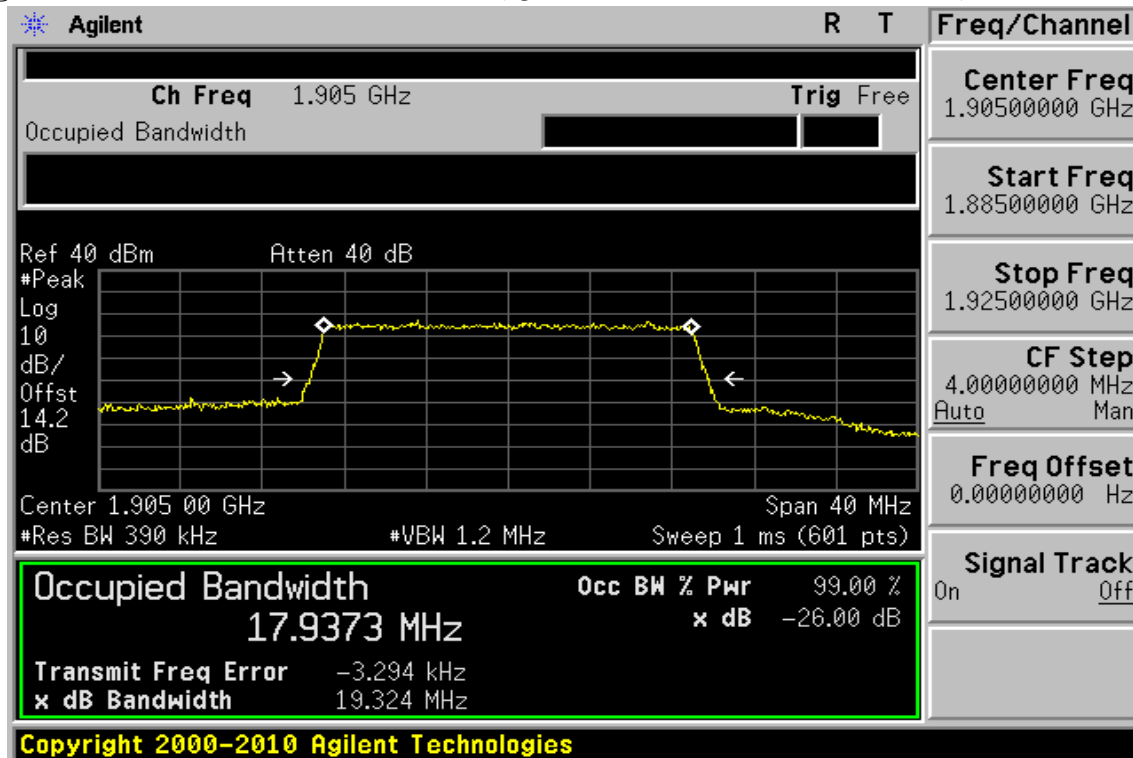
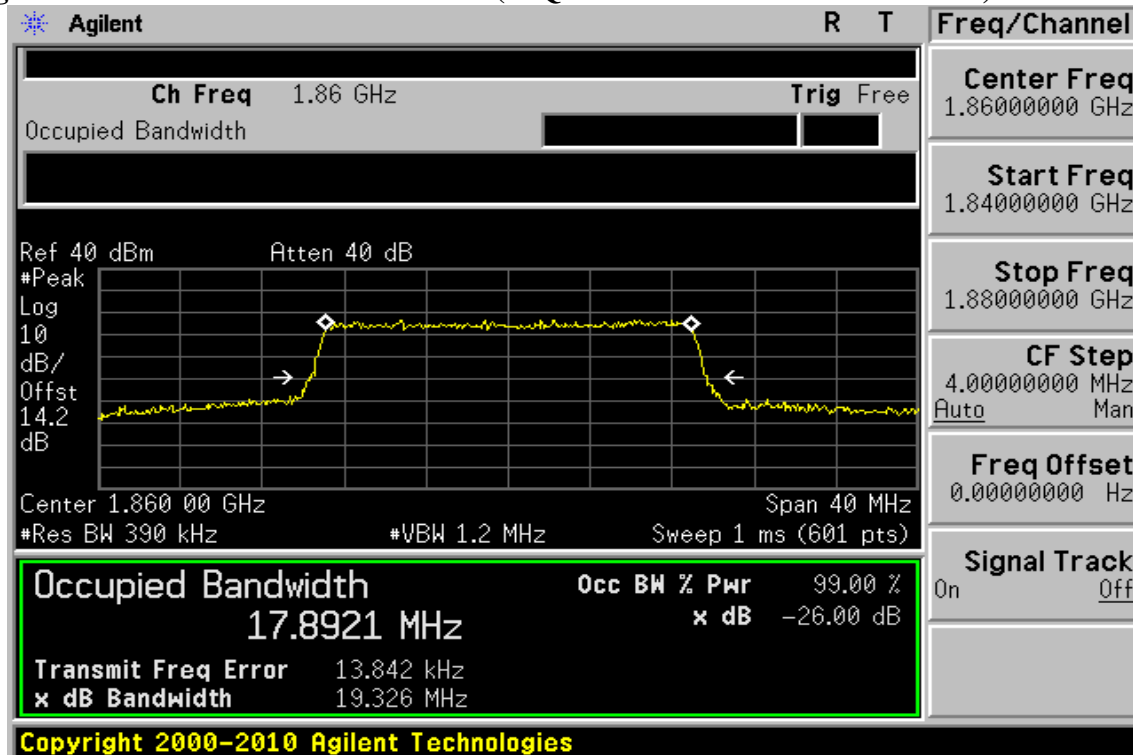


Figure 8-52: 20MHz BW LTE-Band 25(16QAM RB Number: 100 Offset: 0) Channel Low



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Figure 8-53: 20MHz BW LTE-Band 25(16QAM RB Number: 100 Offset: 0) Channel Mid

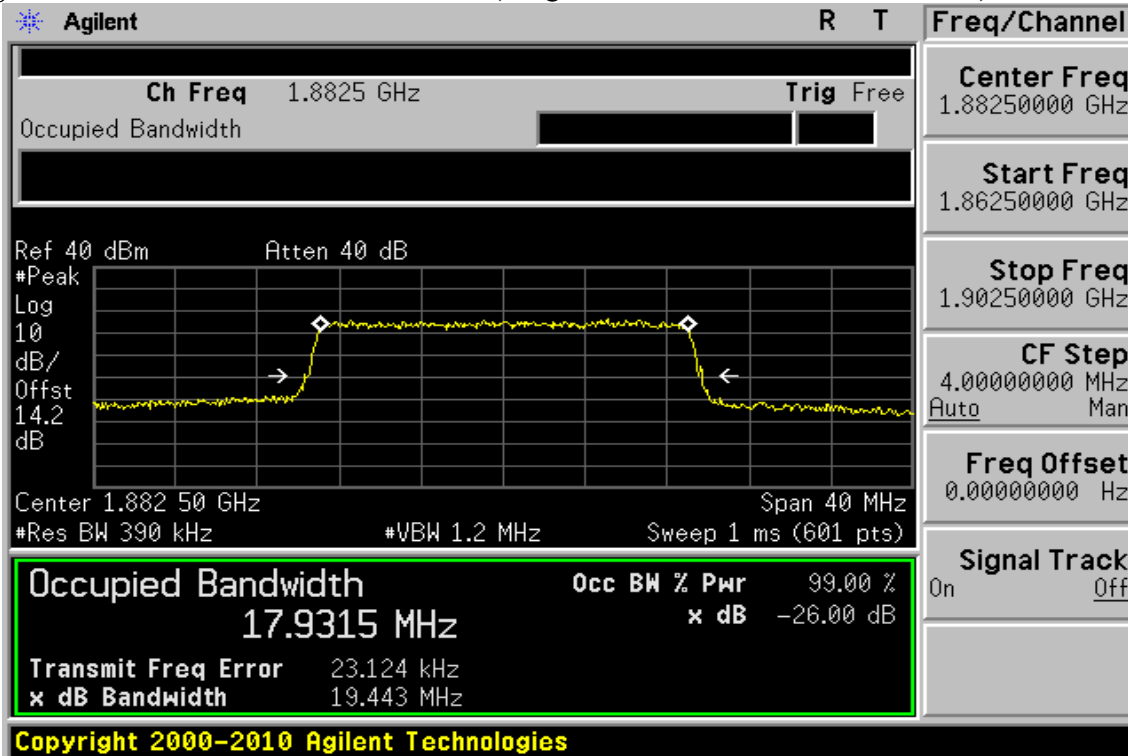
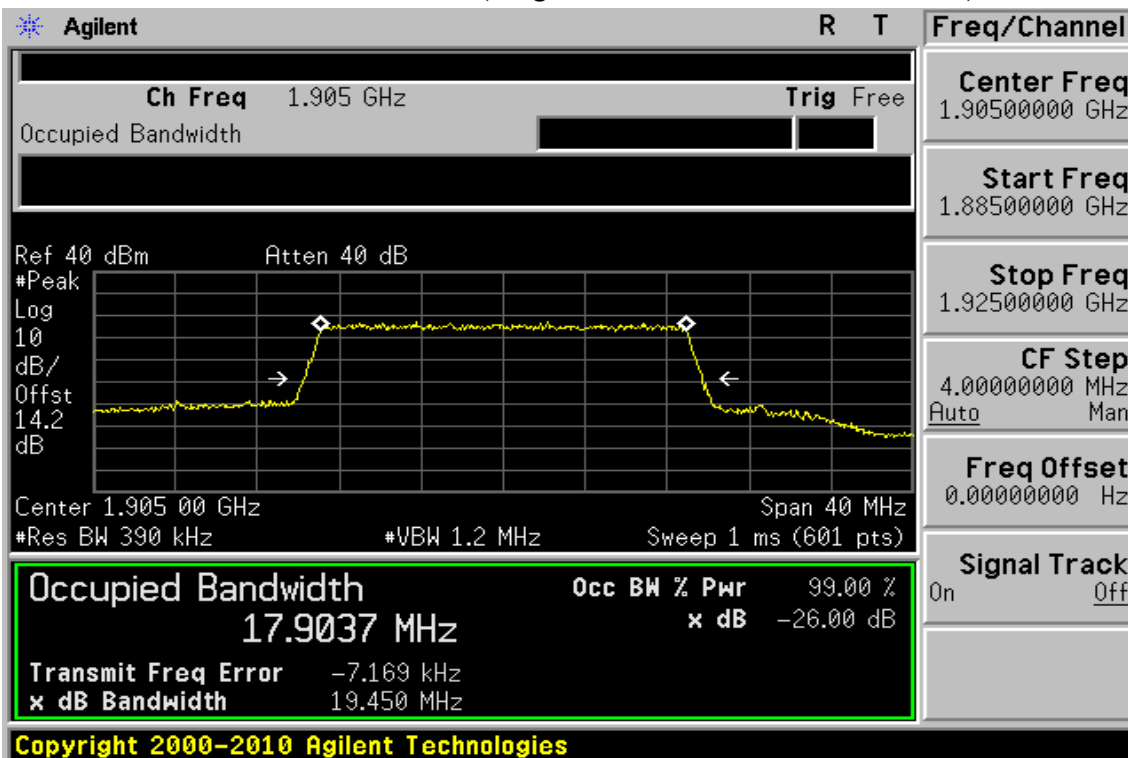


Figure 8-54: 20MHz BW LTE-Band 25(16QAM RB Number: 100 Offset: 0) Channel High



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Figure 8-55: 1.4MHz BW LTE-Band 26(QPSK RB Number: 6 Offset: 0) Channel Low

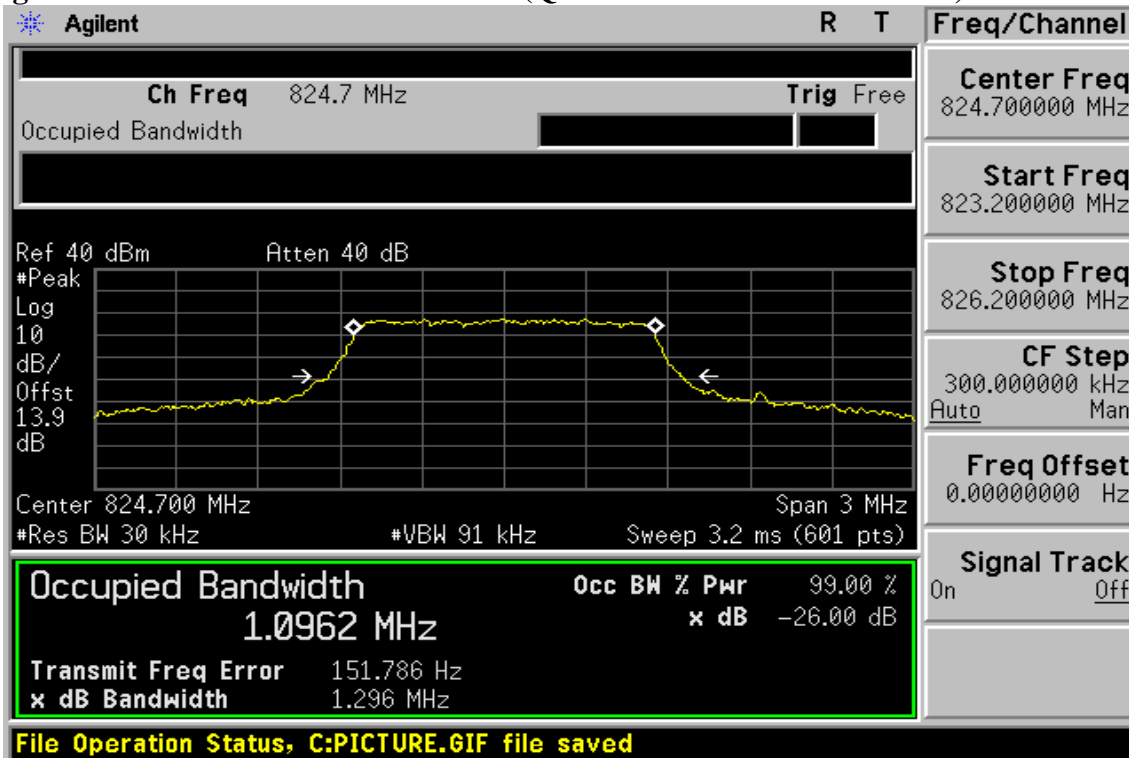
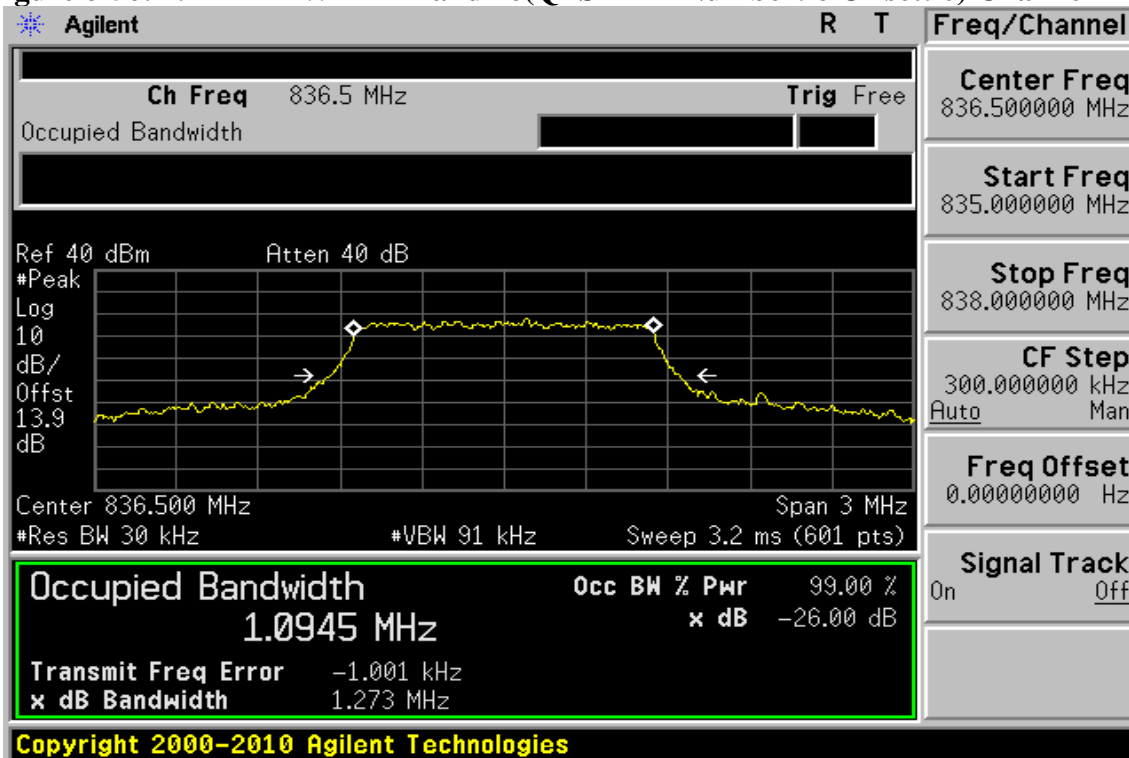


Figure 8-56: 1.4MHz BW LTE-Band 26(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 8-57: 1.4MHz BW LTE-Band 26(QPSK RB Number: 6 Offset: 0) Channel High

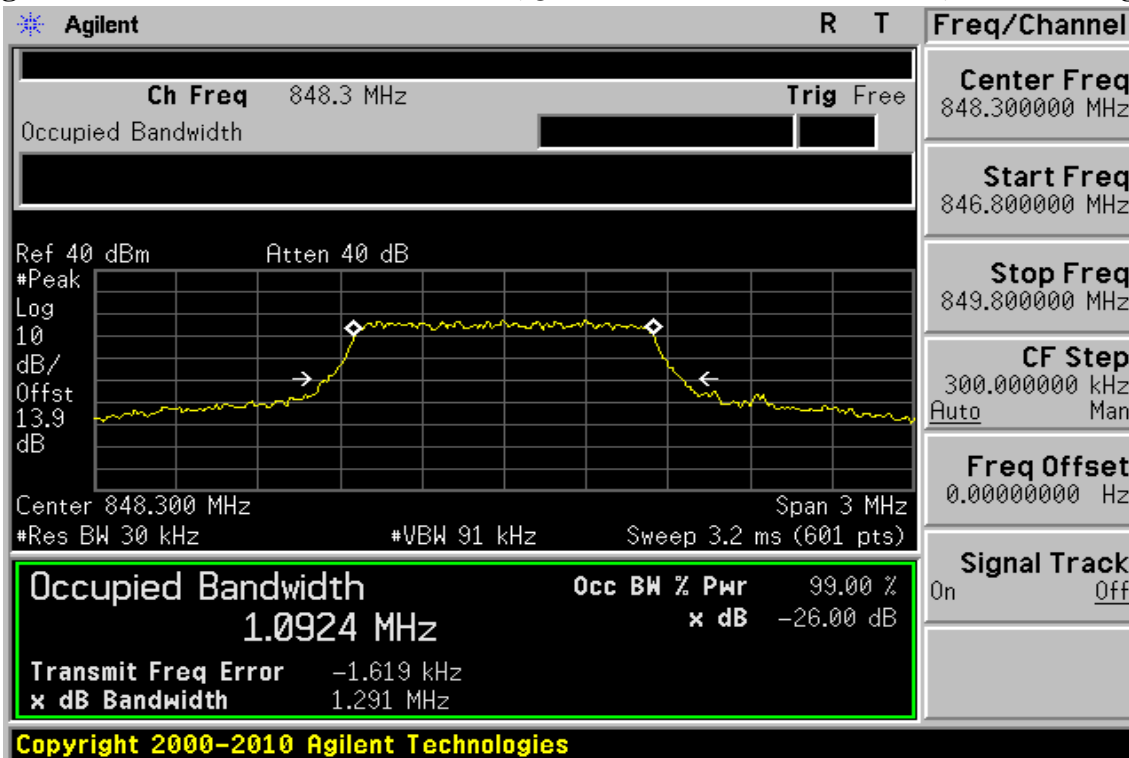
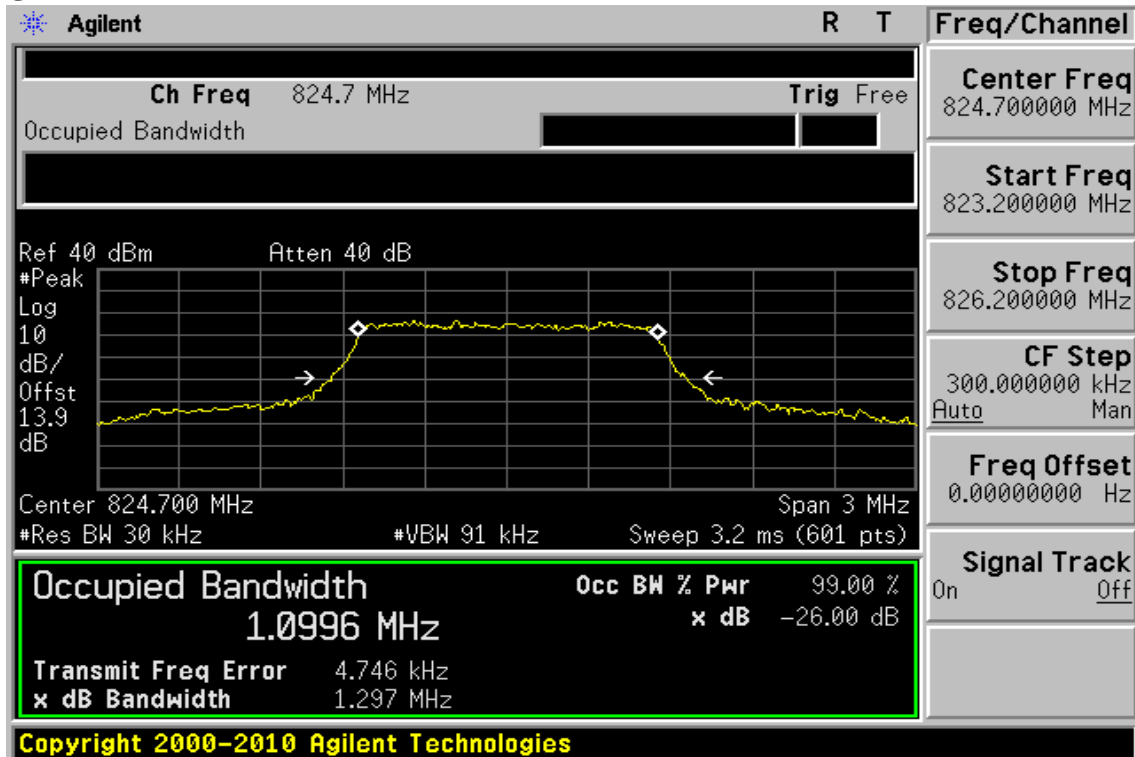


Figure 8-58: 1.4MHz BW LTE-Band 26(16QAM RB Number: 6 Offset: 0) Channel Low



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Figure 8-59: 1.4MHz BW LTE-Band 26(16QAM RB Number: 6 Offset: 0) Channel Mid

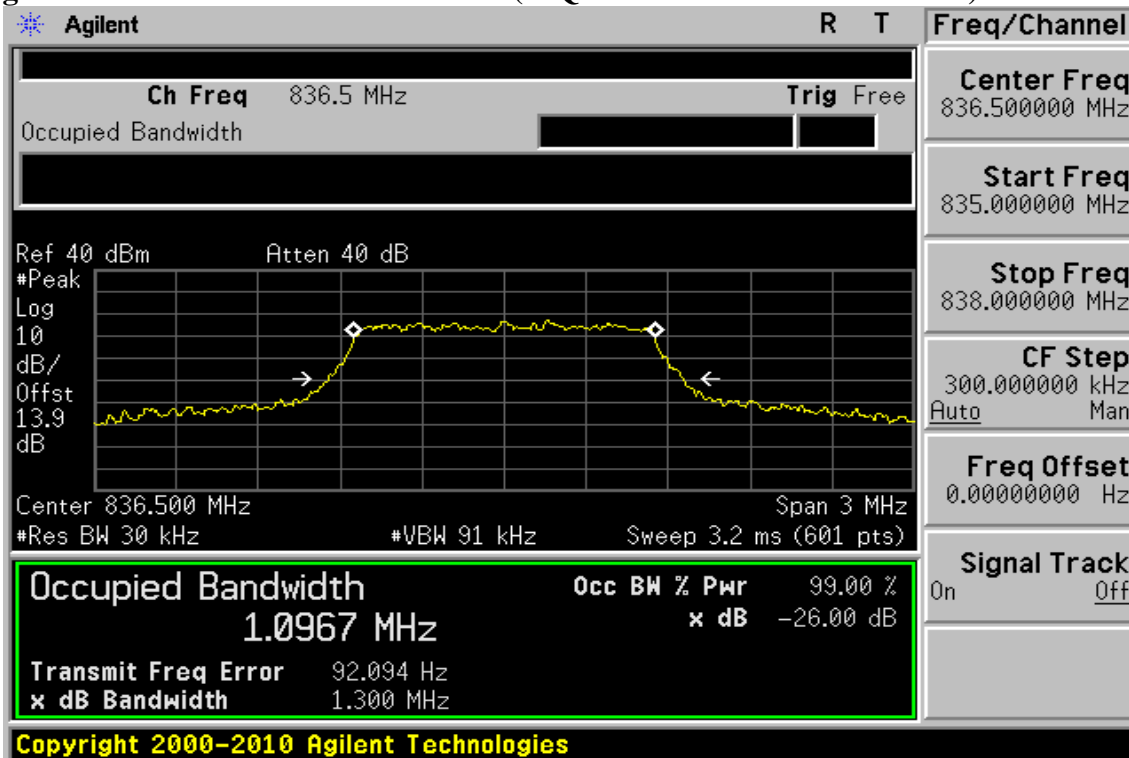
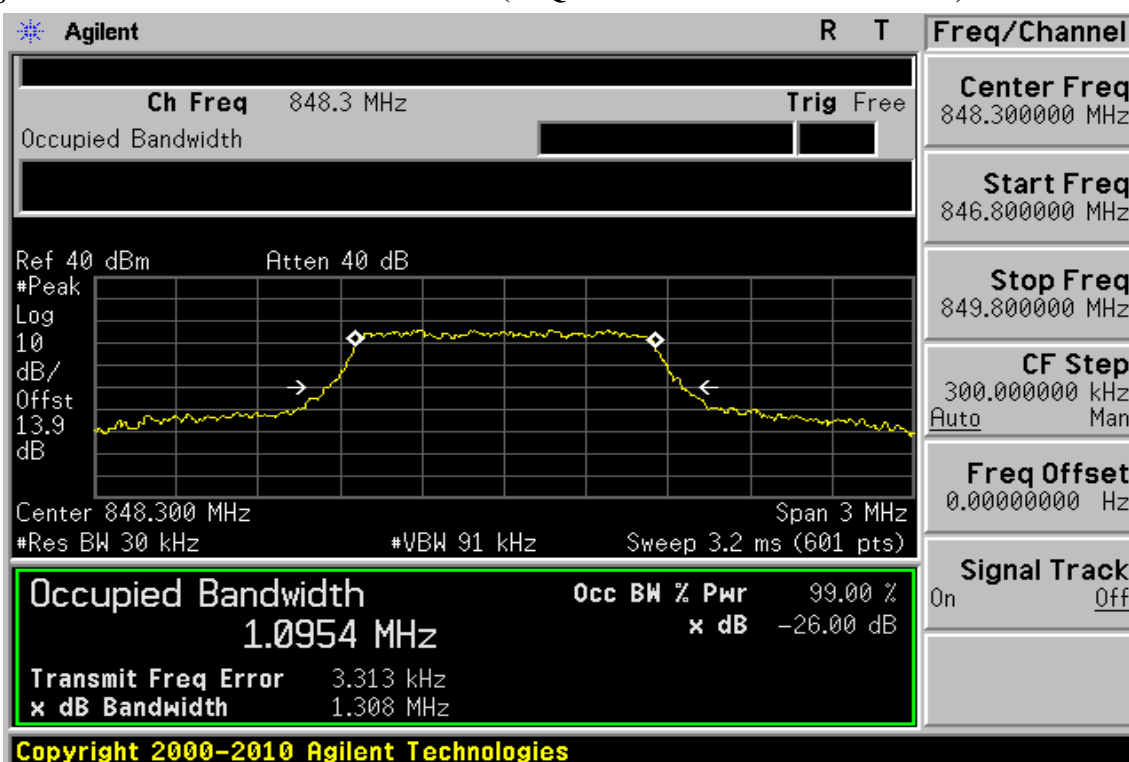


Figure 8-60: 1.4MHz BW LTE-Band 26(16QAM RB Number: 6 Offset: 0) Channel High



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Figure 8-61: 3MHz BW LTE-Band 26(QPSK RB Number: 15 Offset: 0) Channel Low

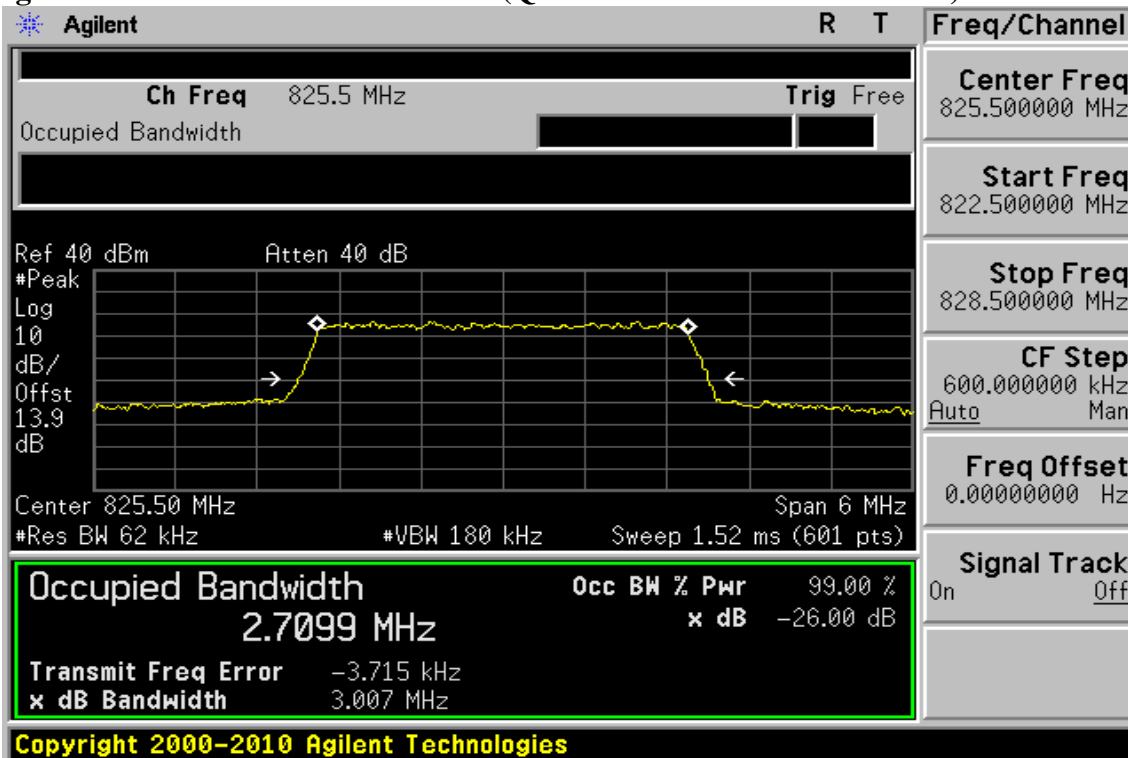
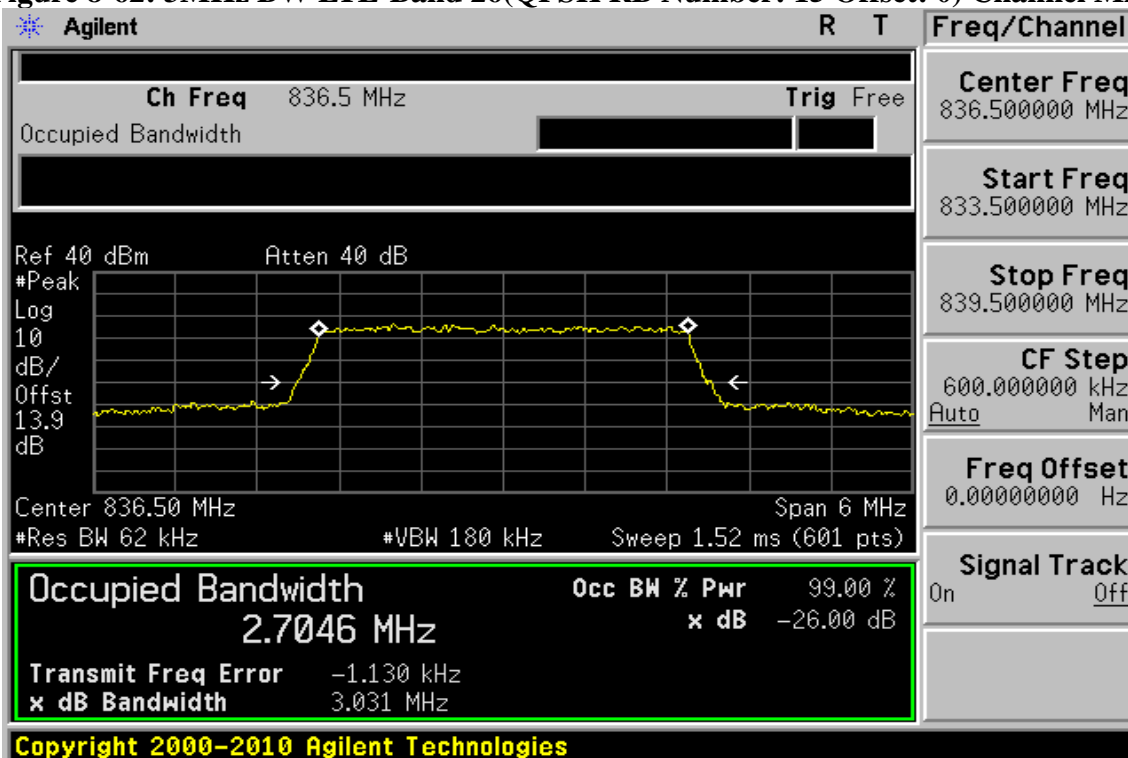


Figure 8-62: 3MHz BW LTE-Band 26(QPSK RB Number: 15 Offset: 0) Channel Mid



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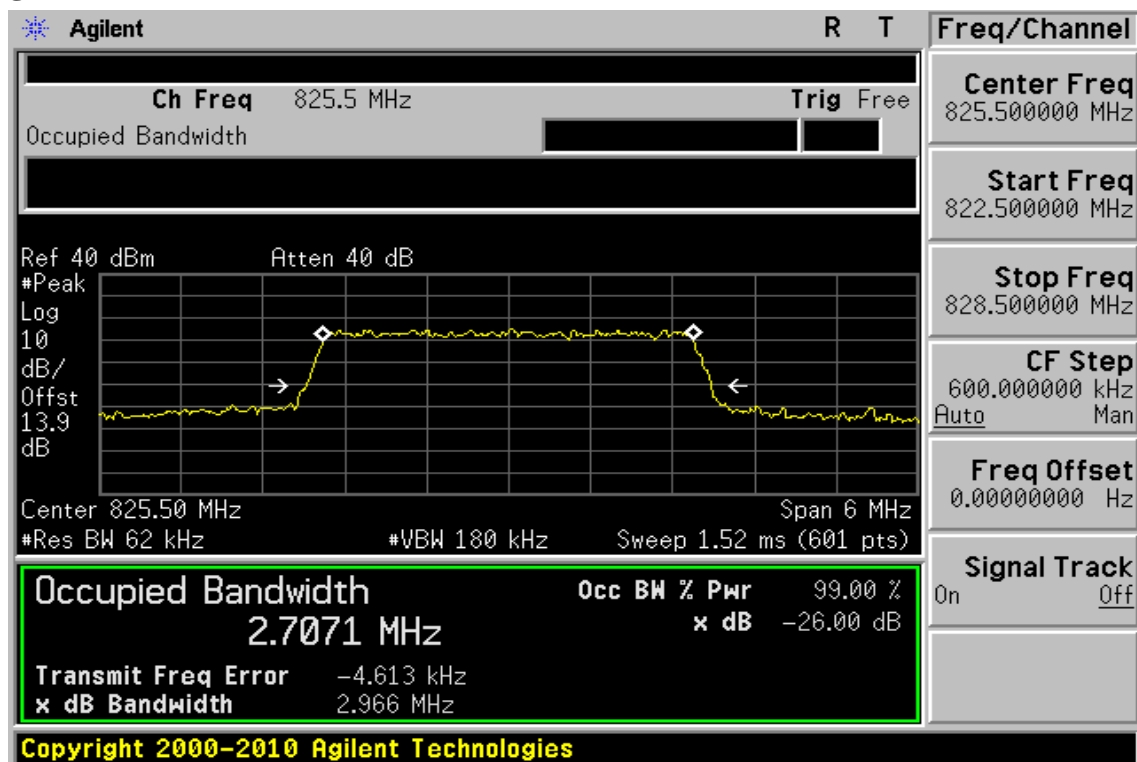
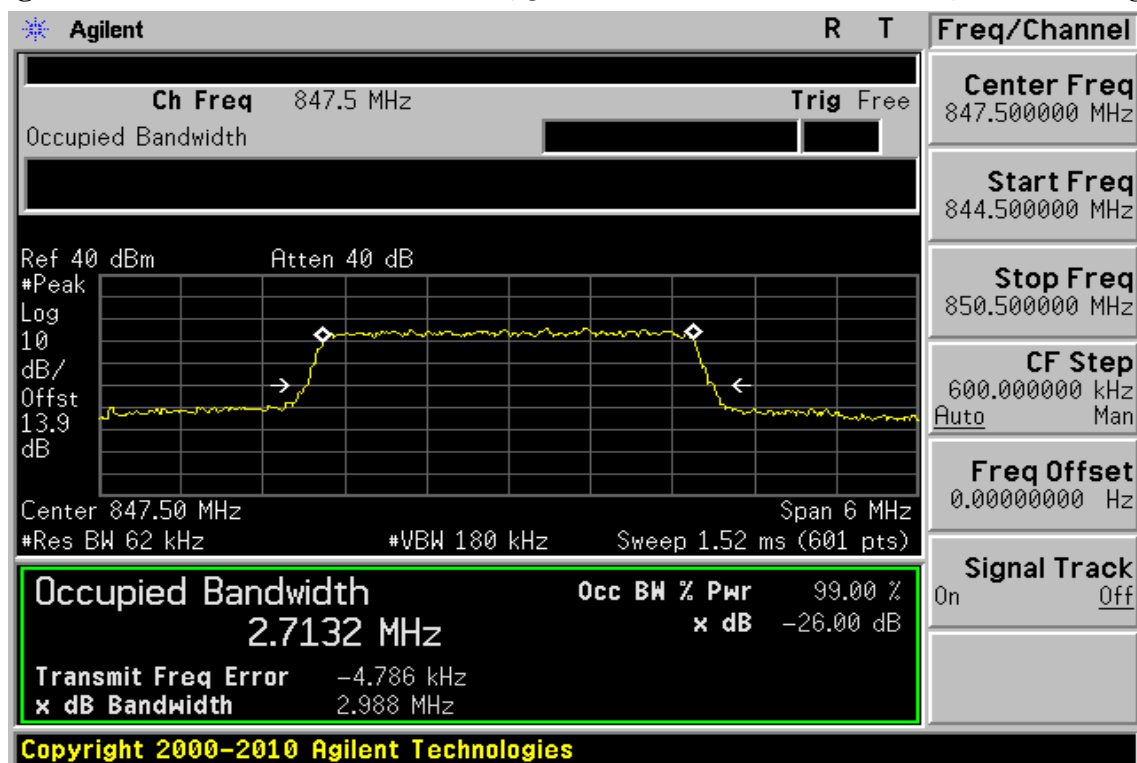
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Figure 8-65: 3MHz BW LTE-Band 26(16QAM RB Number: 15 Offset: 0) Channel Mid

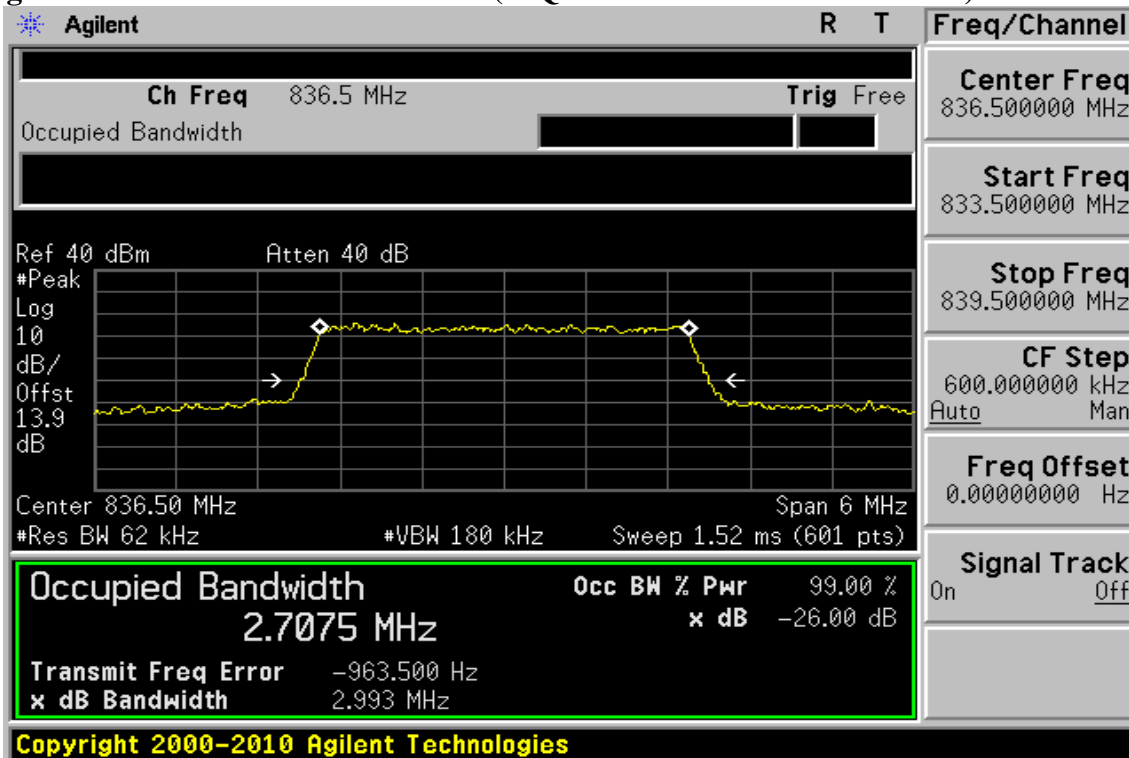
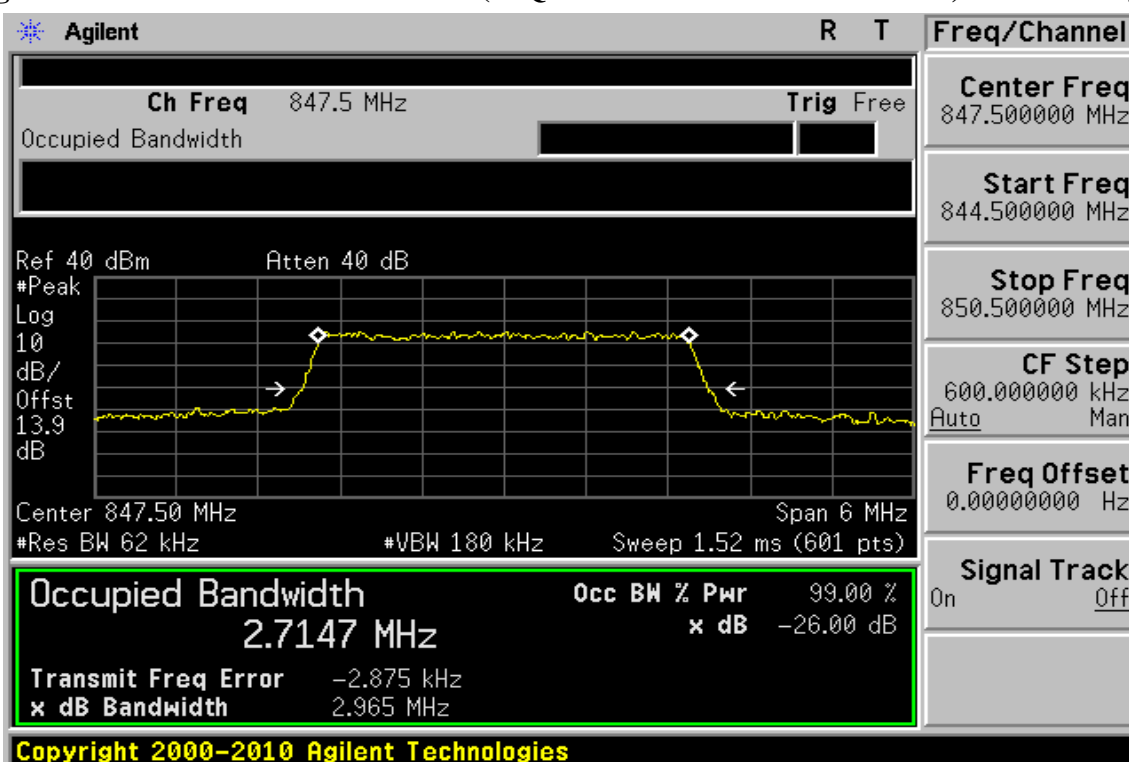


Figure 8-66: 3MHz BW LTE-Band 26(16QAM RB Number: 10 Offset: 0) Channel High



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Figure 8-67: 5MHz BW LTE-Band 26(QPSK RB Number: 25 Offset: 0) Channel Low

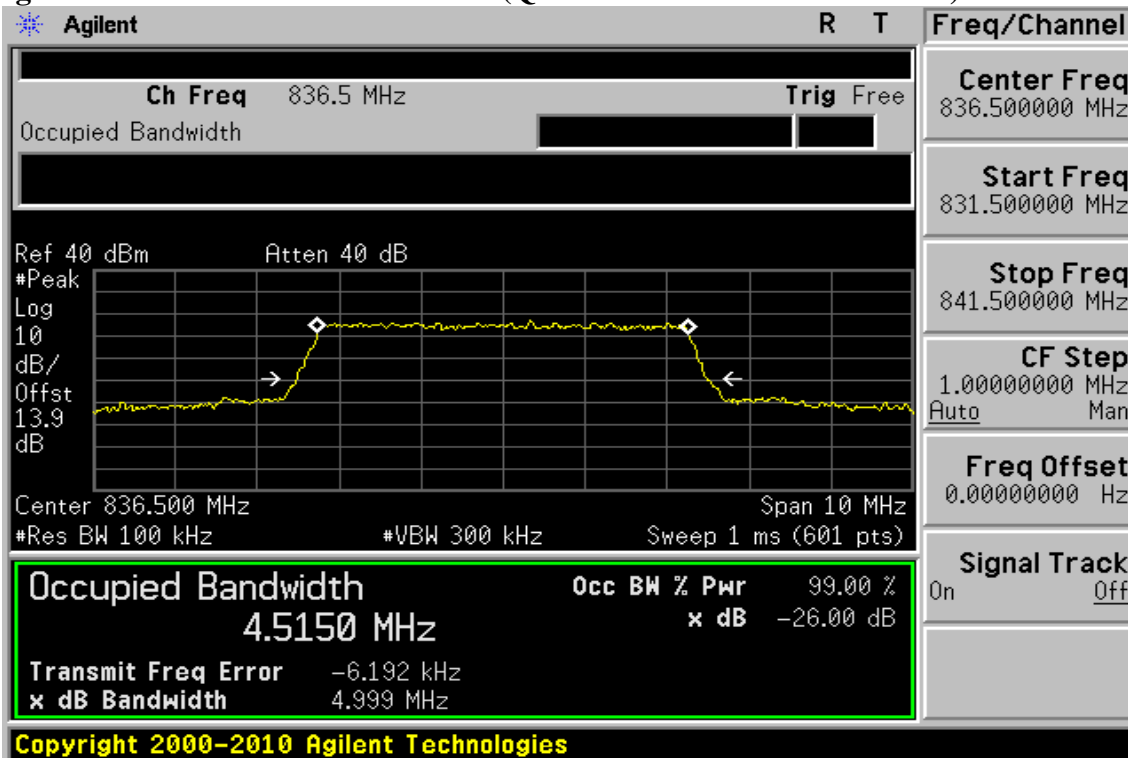
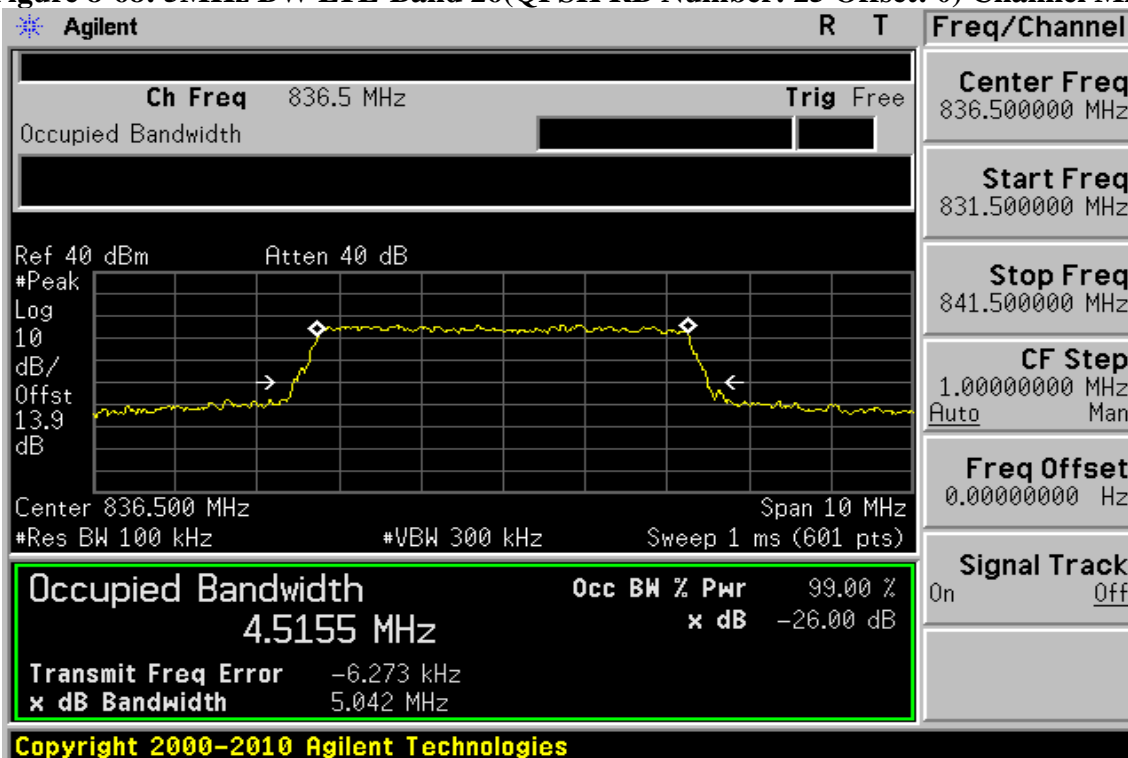


Figure 8-68: 5MHz BW LTE-Band 26(QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 8-69: 5MHz BW LTE-Band 26(QPSK RB Number: 25 Offset: 0) Channel High

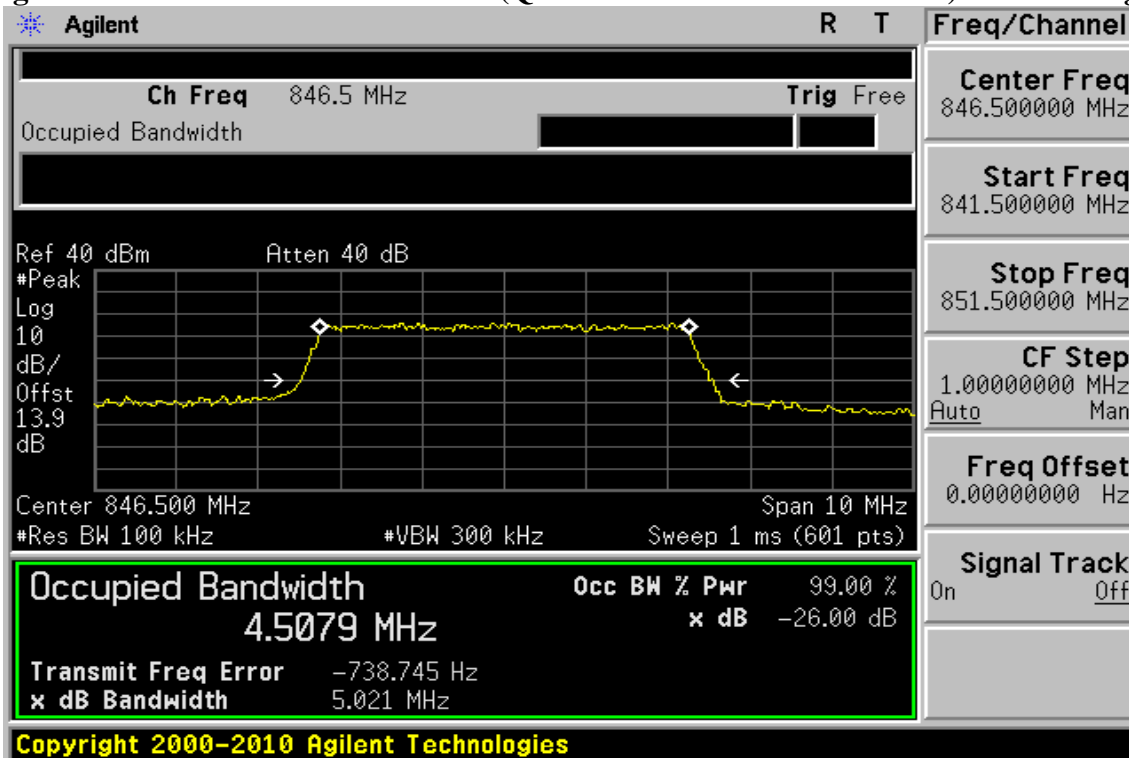
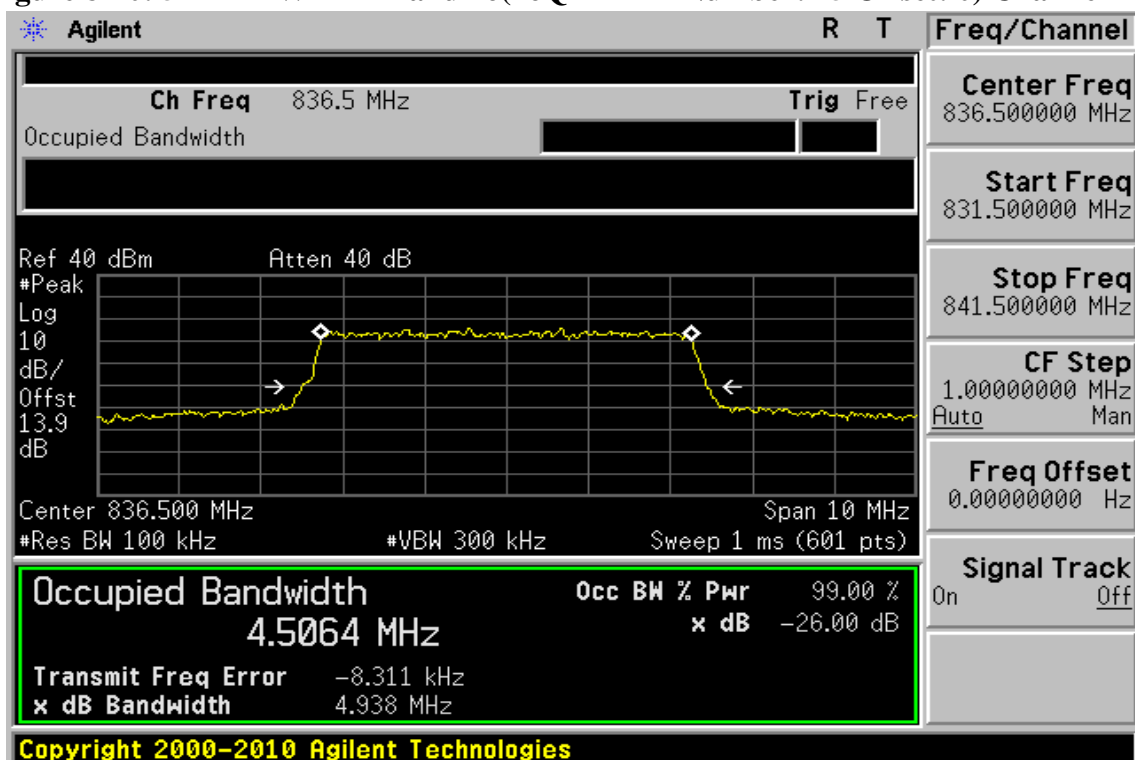


Figure 8-70: 5MHz BW LTE-Band 26(16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 8-71: 5MHz BW LTE-Band 26(16QAM RB Number: 25 Offset: 0) Channel Mid

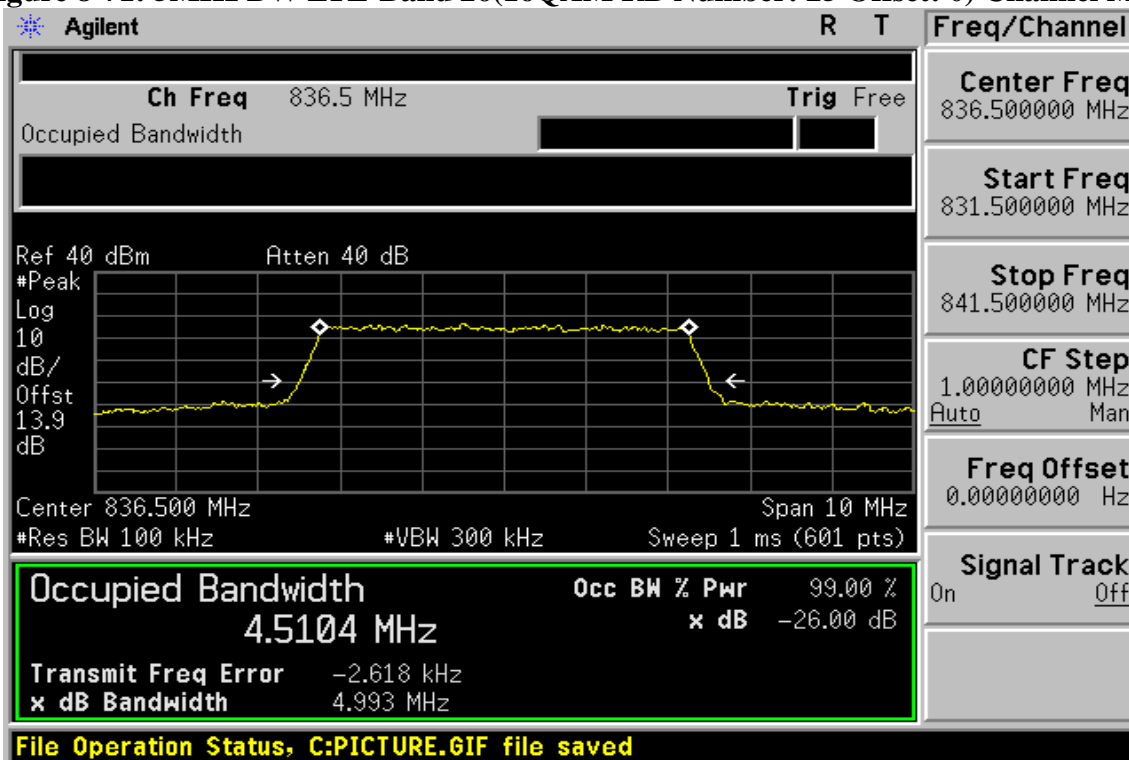
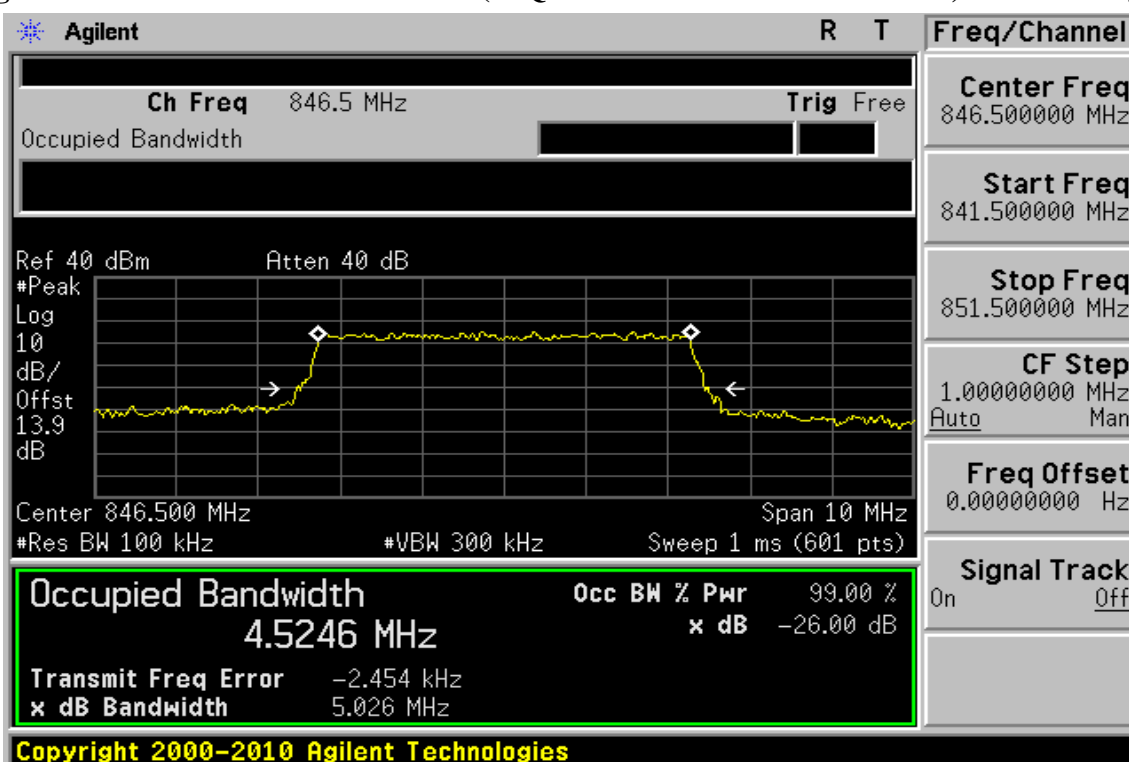


Figure 8-72: 5MHz BW LTE-Band 26(16QAM RB Number: 25 Offset: 0) Channel High



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Figure 8-73: 10MHz BW LTE-Band 26(QPSK RB Number: 50 Offset: 0) Channel Low

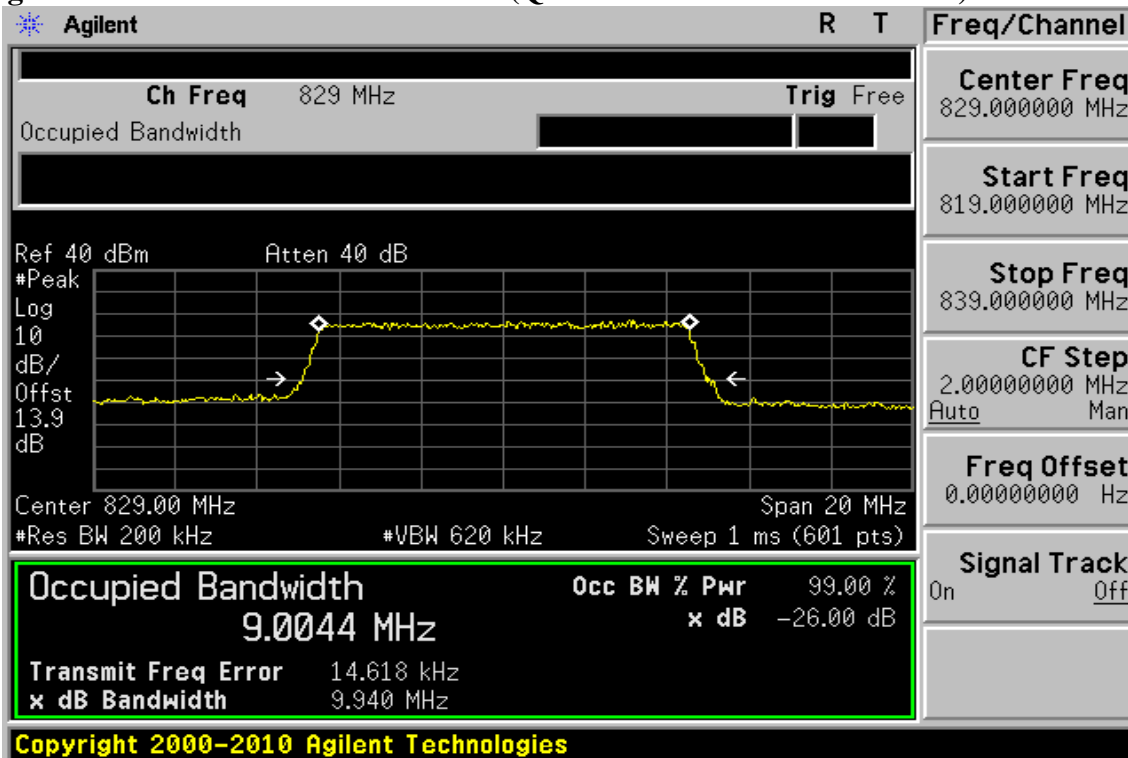
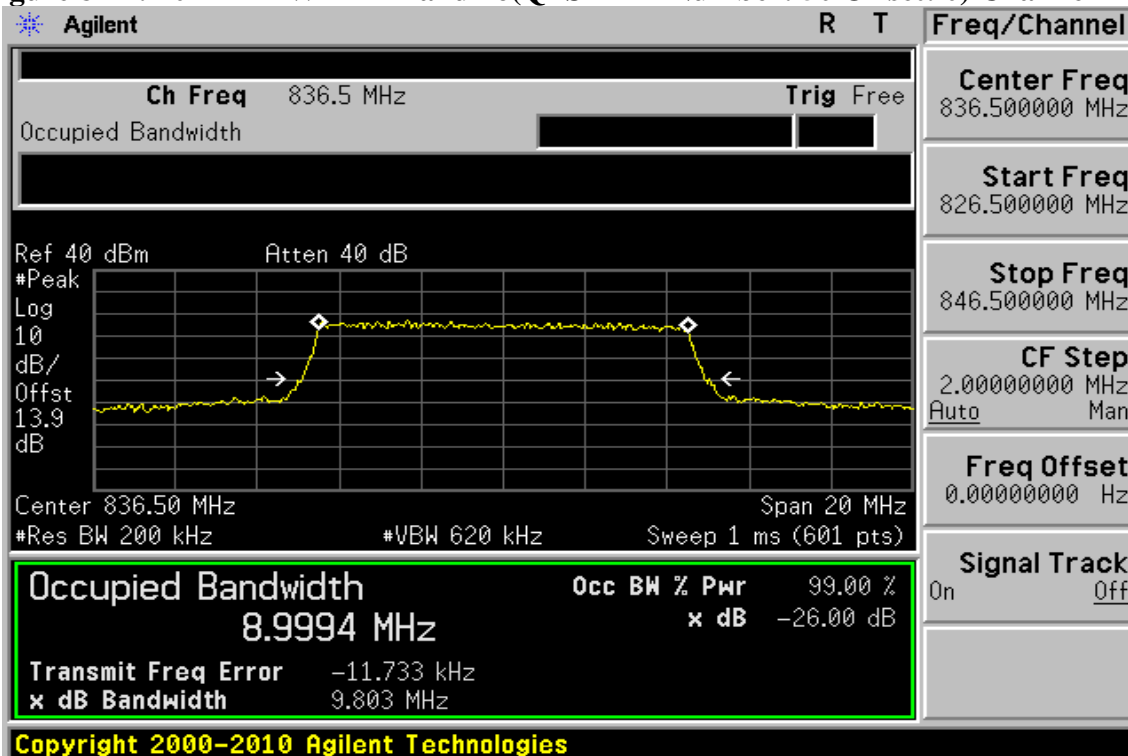


Figure 8-74: 10MHz BW LTE-Band 26(QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 8-75: 10MHz BW LTE-Band 26(QPSK RB Number: 50 Offset: 0) Channel High

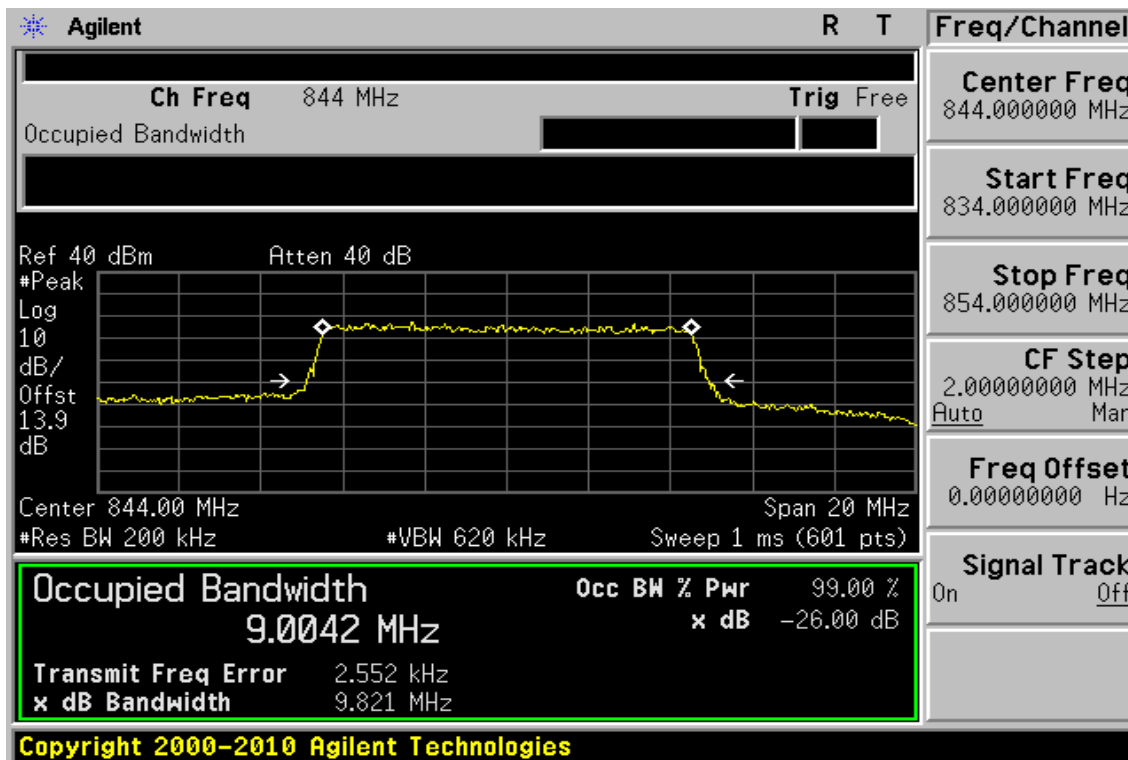
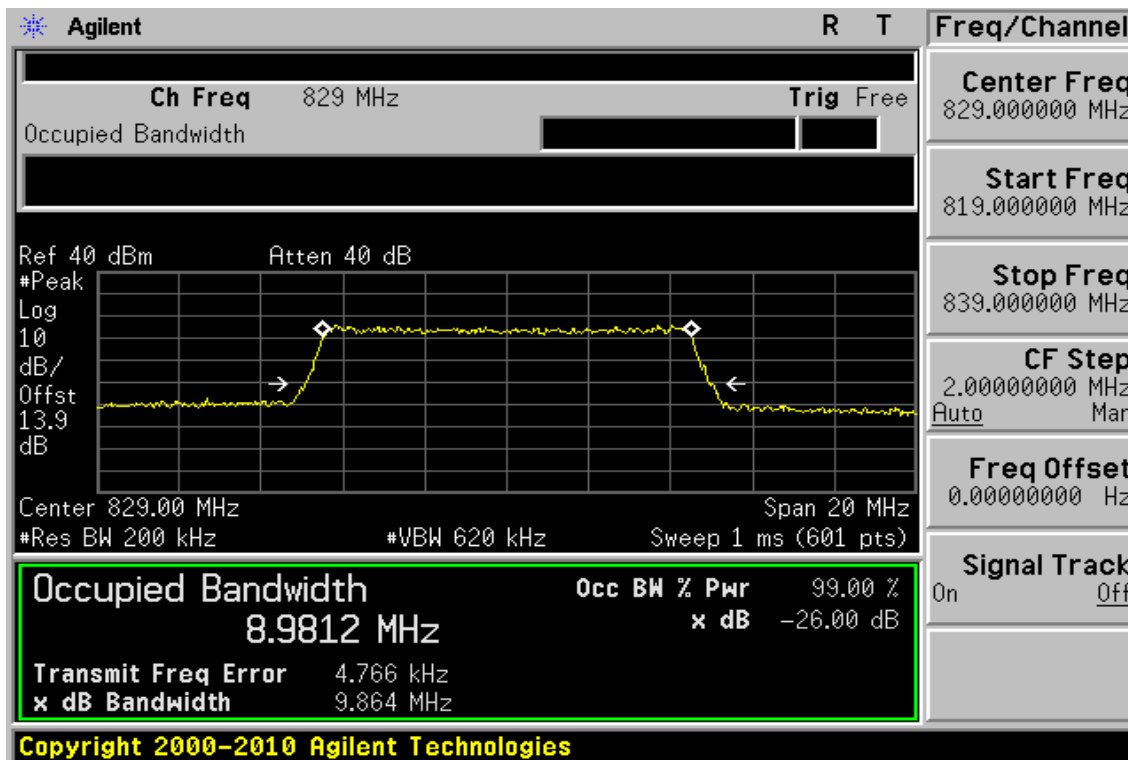


Figure 8-76: 10MHz BW LTE-Band 26(16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 8-77: 10MHz BW LTE-Band 26(16QAM RB Number: 50 Offset: 0) Channel Mid

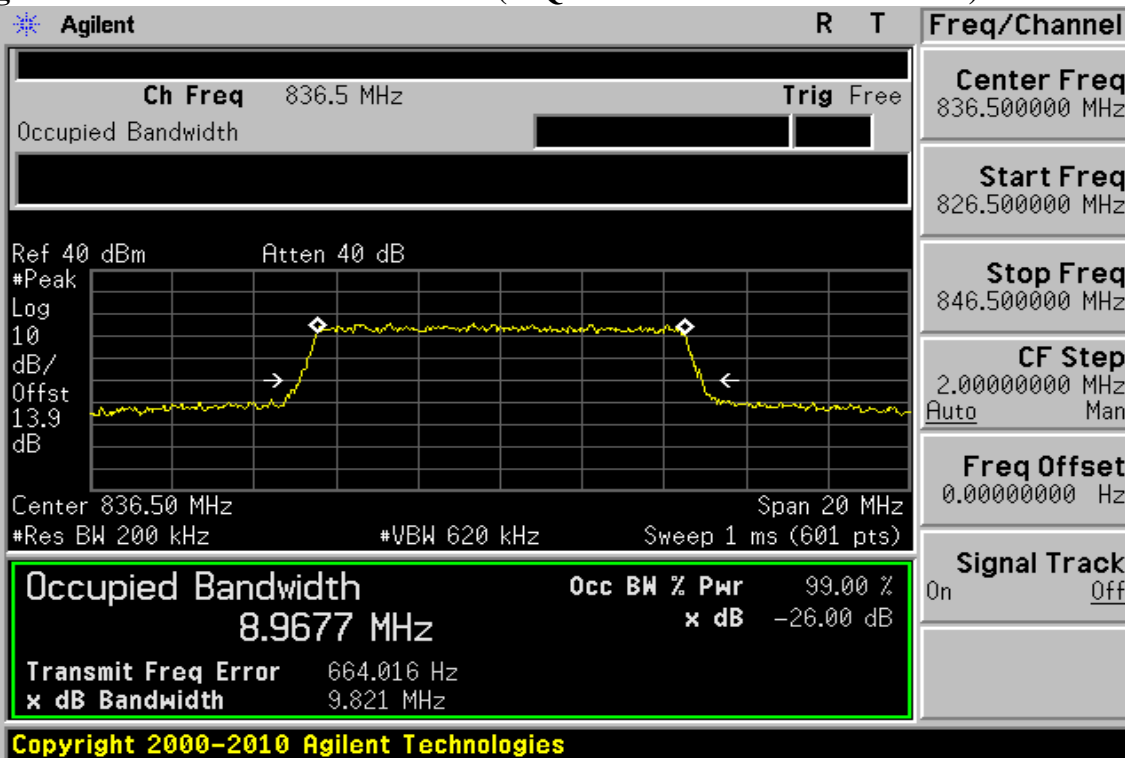
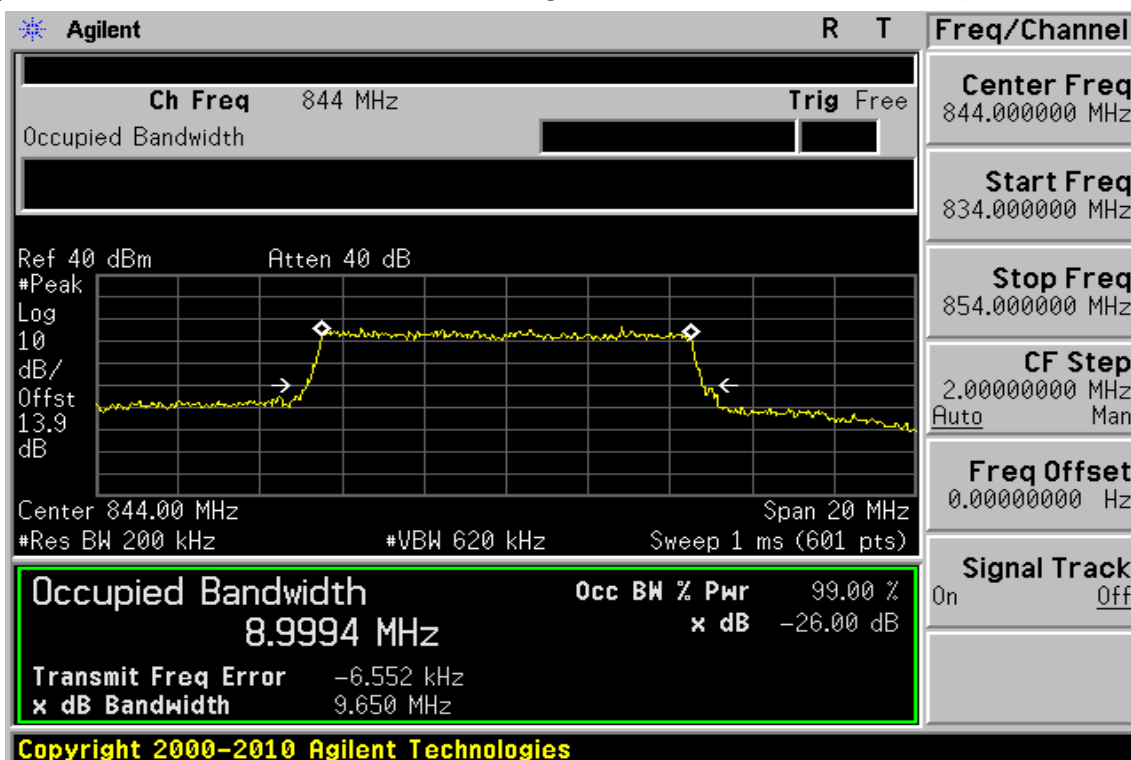


Figure 8-78: 10MHz BW LTE-Band 26(16QAM RB Number: 50 Offset: 0) Channel High



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Figure 8-79: 1.4MHz BW LTE-Band 26(QPSK RB Number: 6 Offset: 0) Channel Low

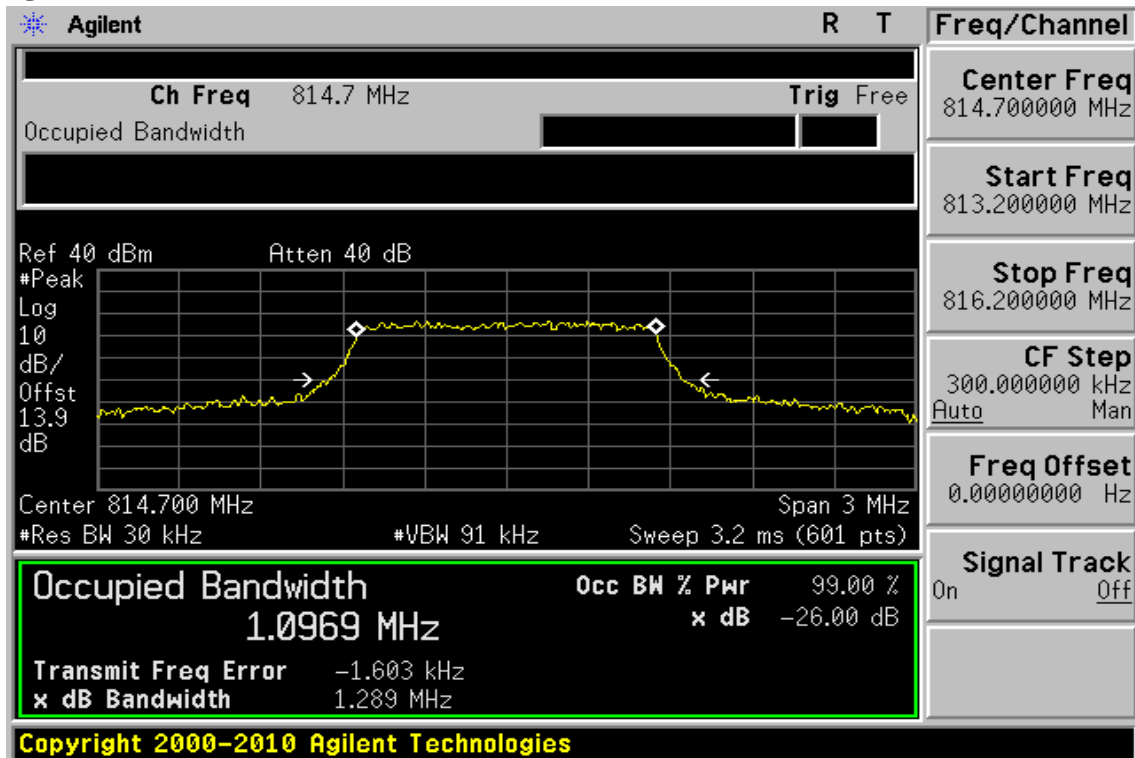
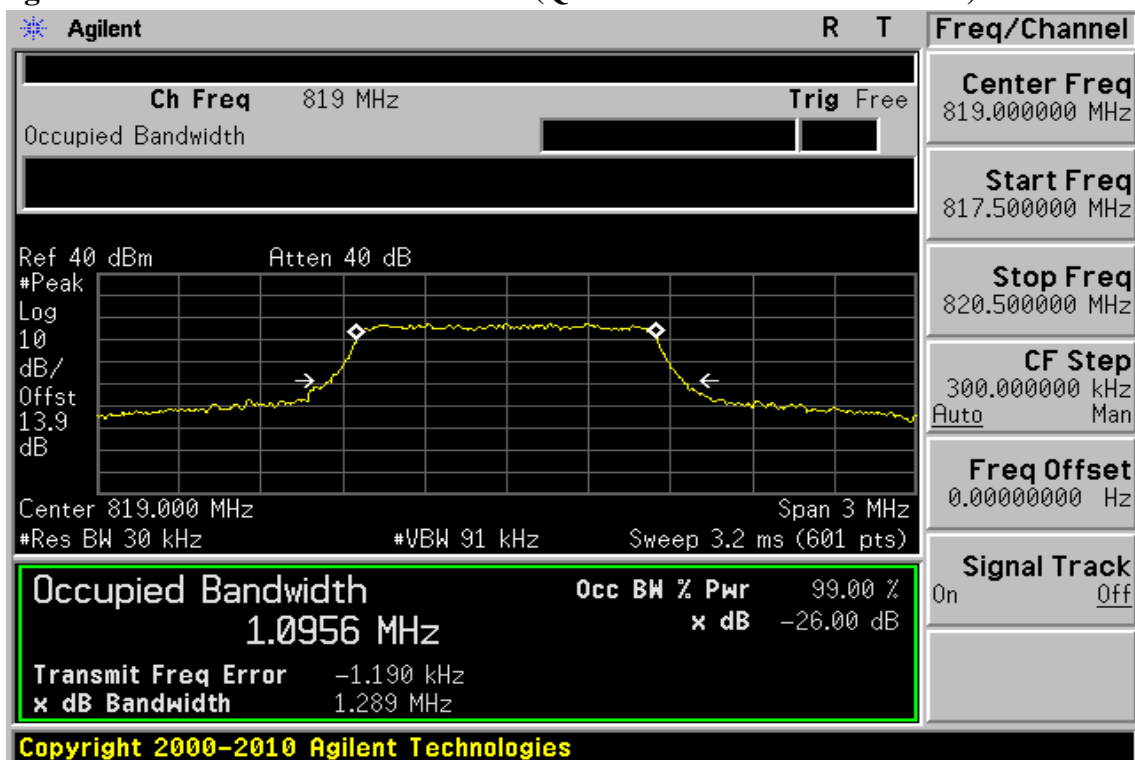


Figure 8-80: 1.4MHz BW LTE-Band 26(QPSK RB Number: 6 Offset: 0) Channel Mid



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Figure 8-81: 1.4MHz BW LTE-Band 26(QPSK RB Number: 6 Offset: 0) Channel High

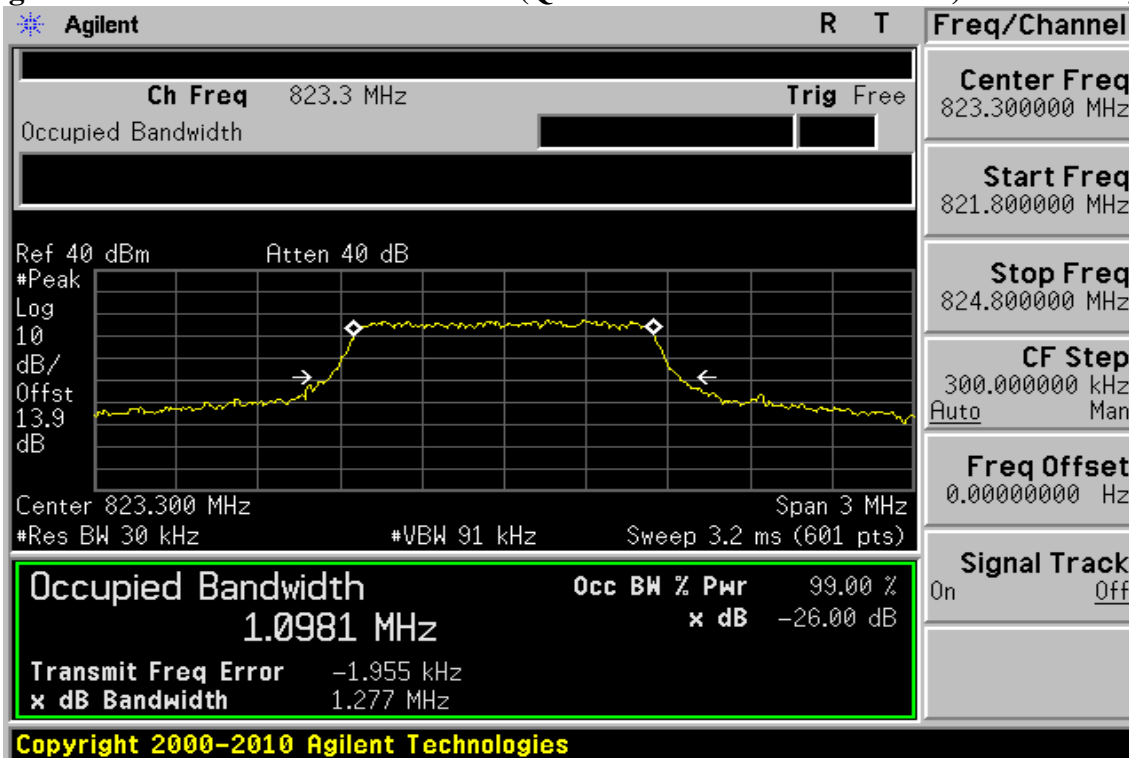
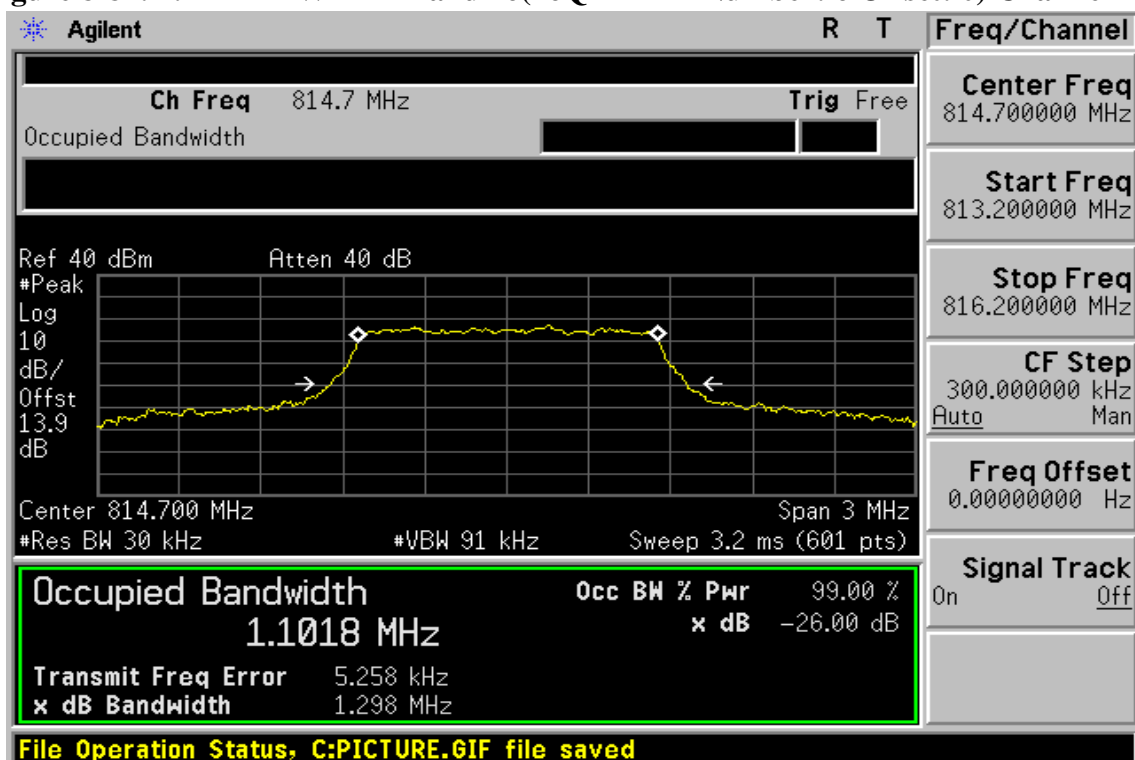


Figure 8-82: 1.4MHz BW LTE-Band 26(16QAM RB Number: 6 Offset: 0) Channel Low



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Figure 8-83: 1.4MHz BW LTE-Band 26(16QAM RB Number: 6 Offset: 0) Channel Mid

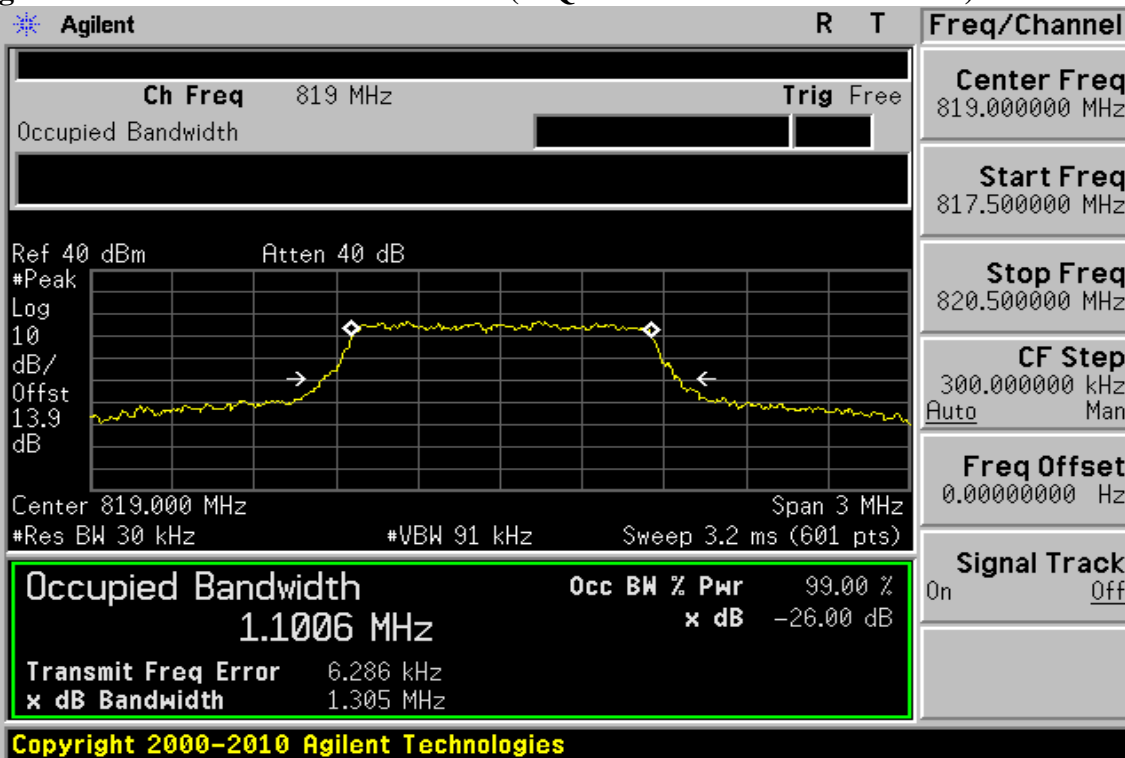
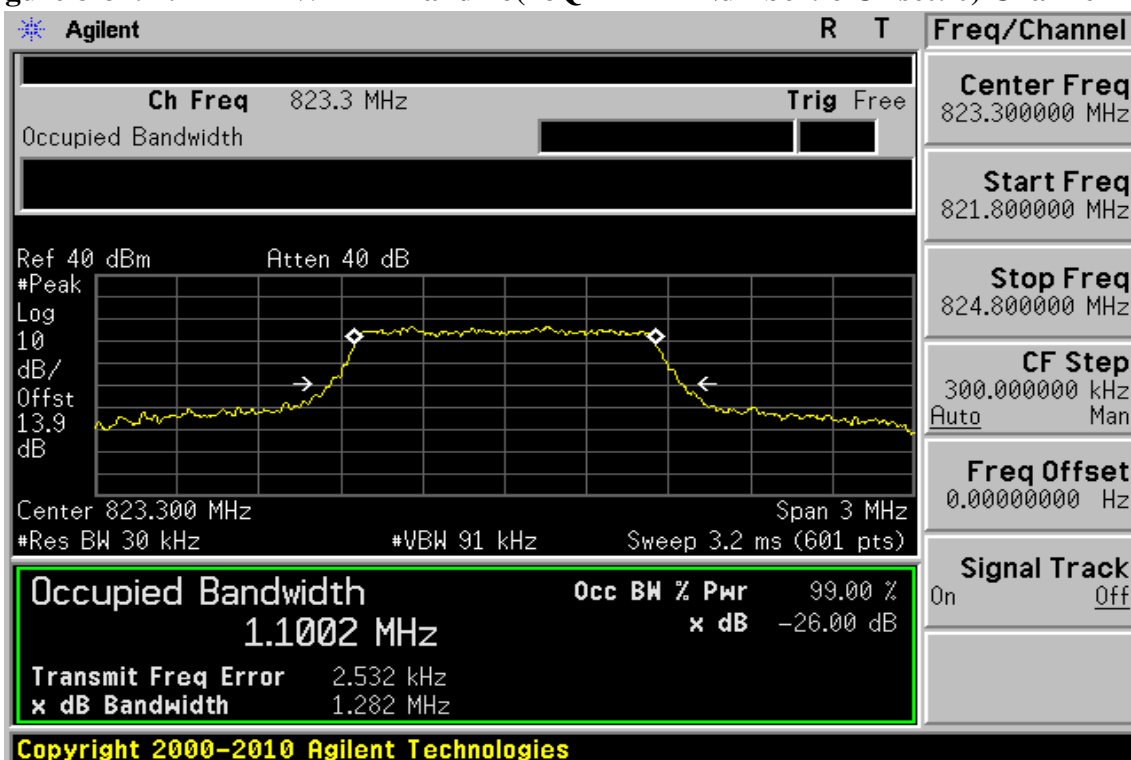


Figure 8-84: 1.4MHz BW LTE-Band 26(16QAM RB Number: 6 Offset: 0) Channel High



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Figure 8-85: 3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0) Channel Low

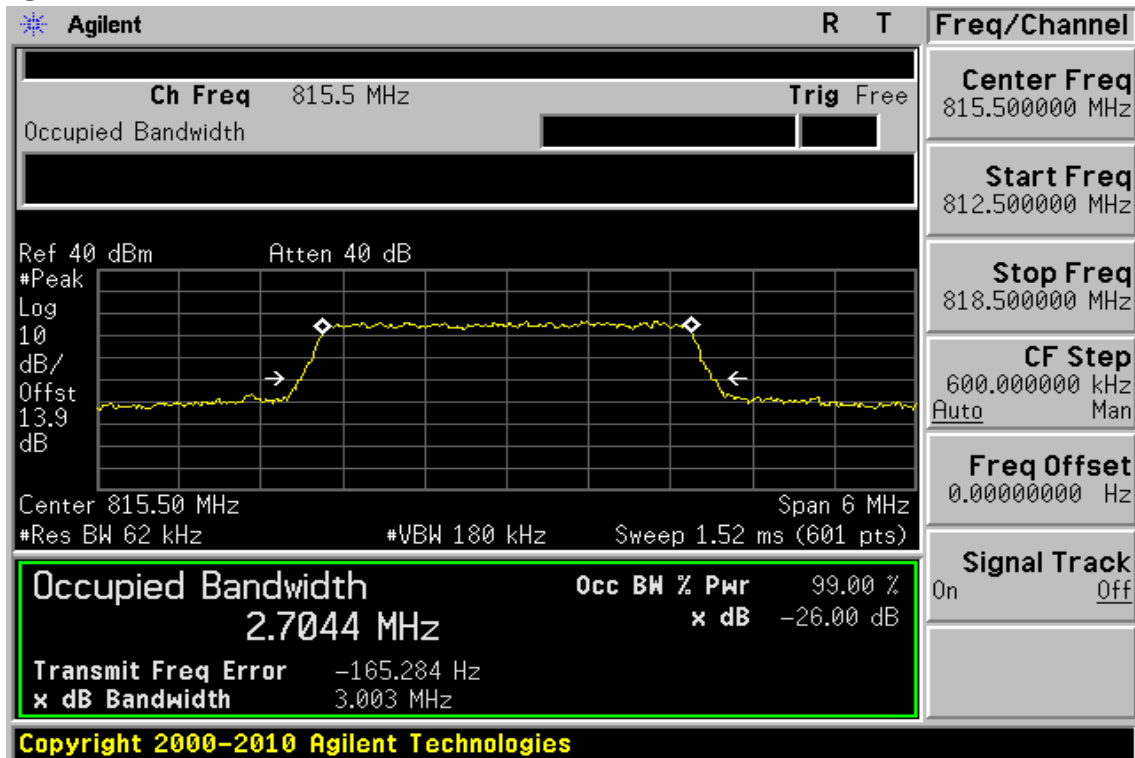
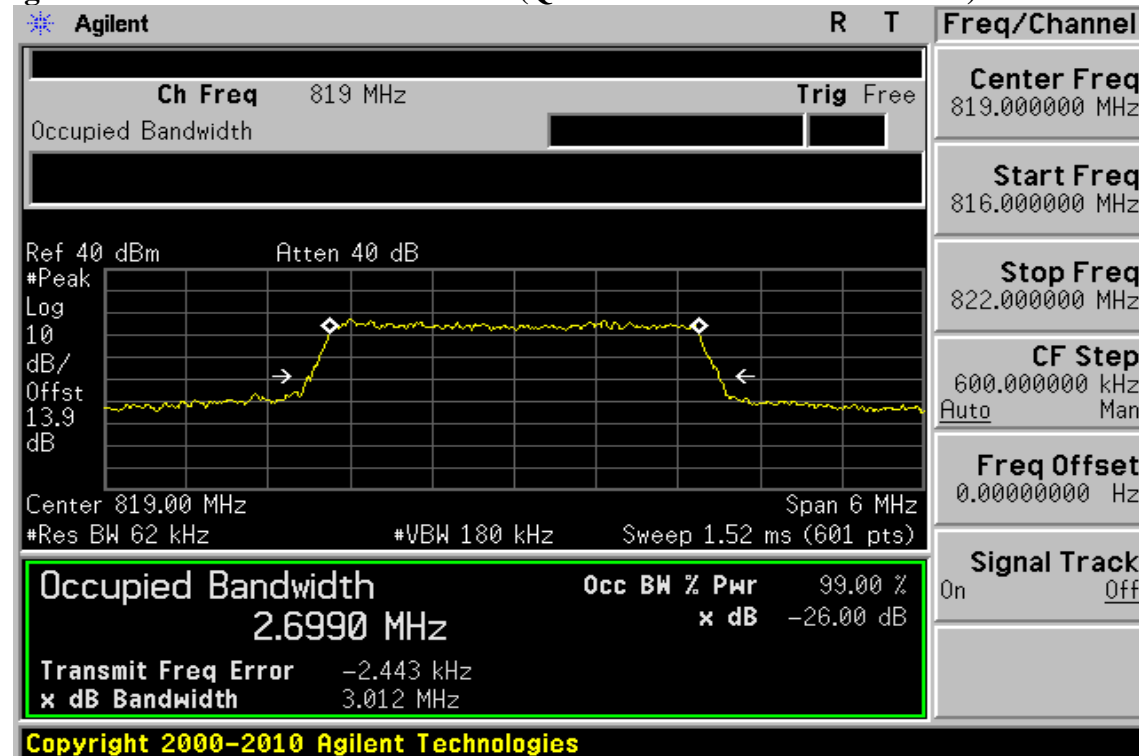


Figure 8-86: 3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0) Channel Mid



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Figure 8-87: 3MHz BW LTE-Band 26 (QPSK RB Number: 15 Offset: 0) Channel High

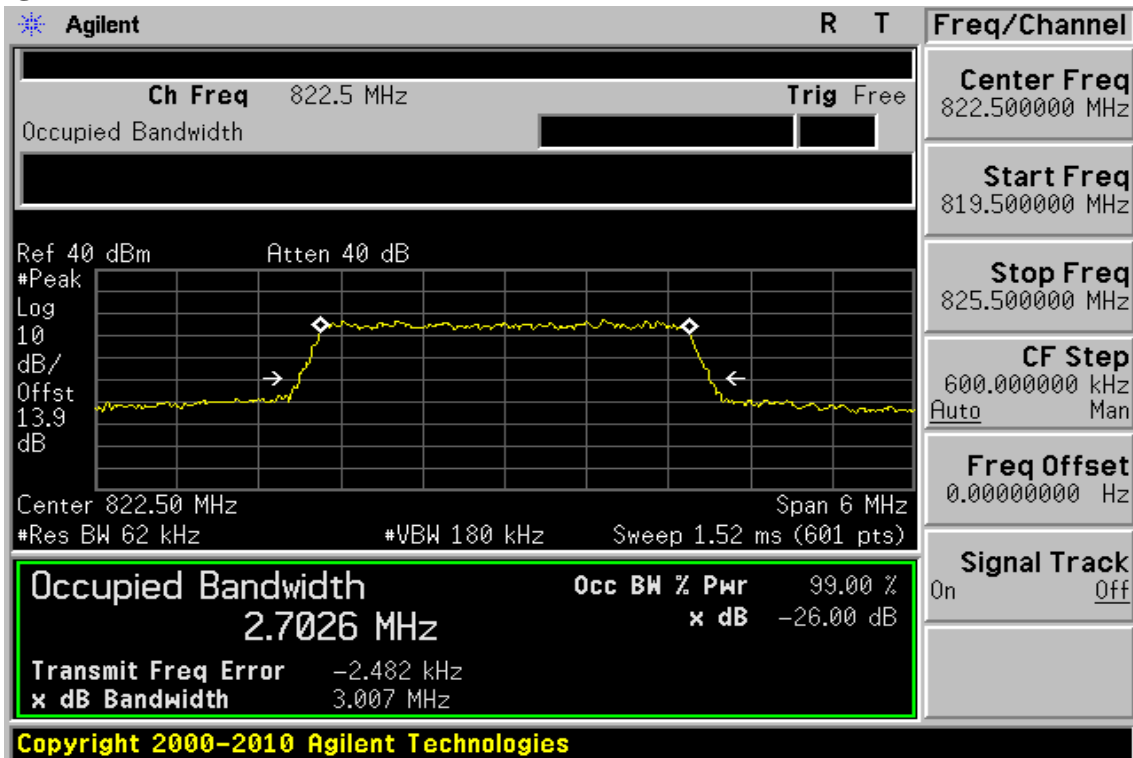
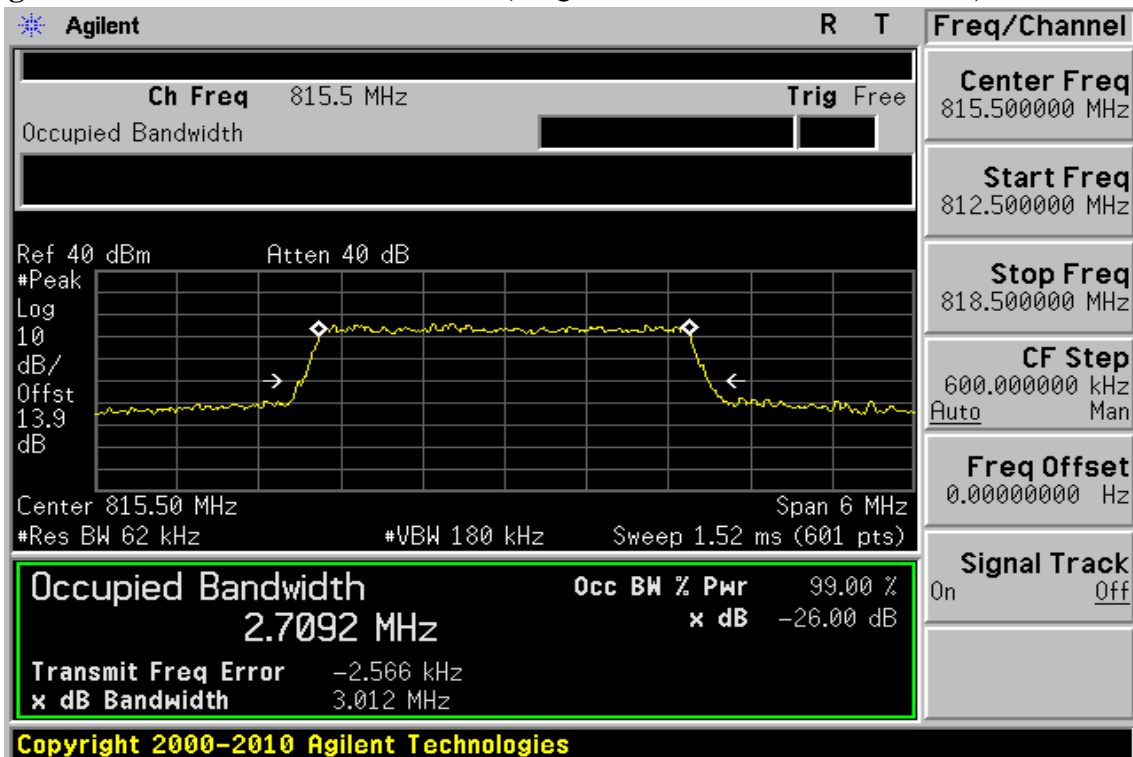


Figure 8-88: 3MHz BW LTE-Band 26 (16QAM RB Number: 15 Offset: 0) Channel Low



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Figure 8-89: 3MHz BW LTE-Band 26 (16QAM RB Number: 15 Offset: 0) Channel Mid

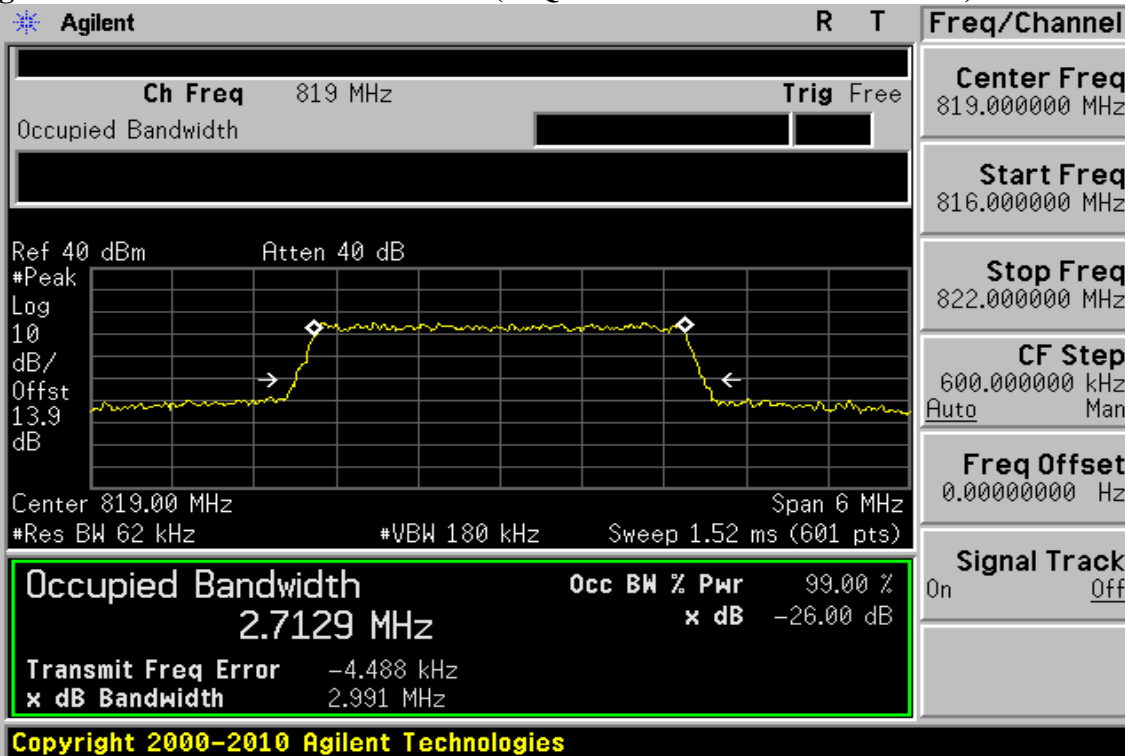
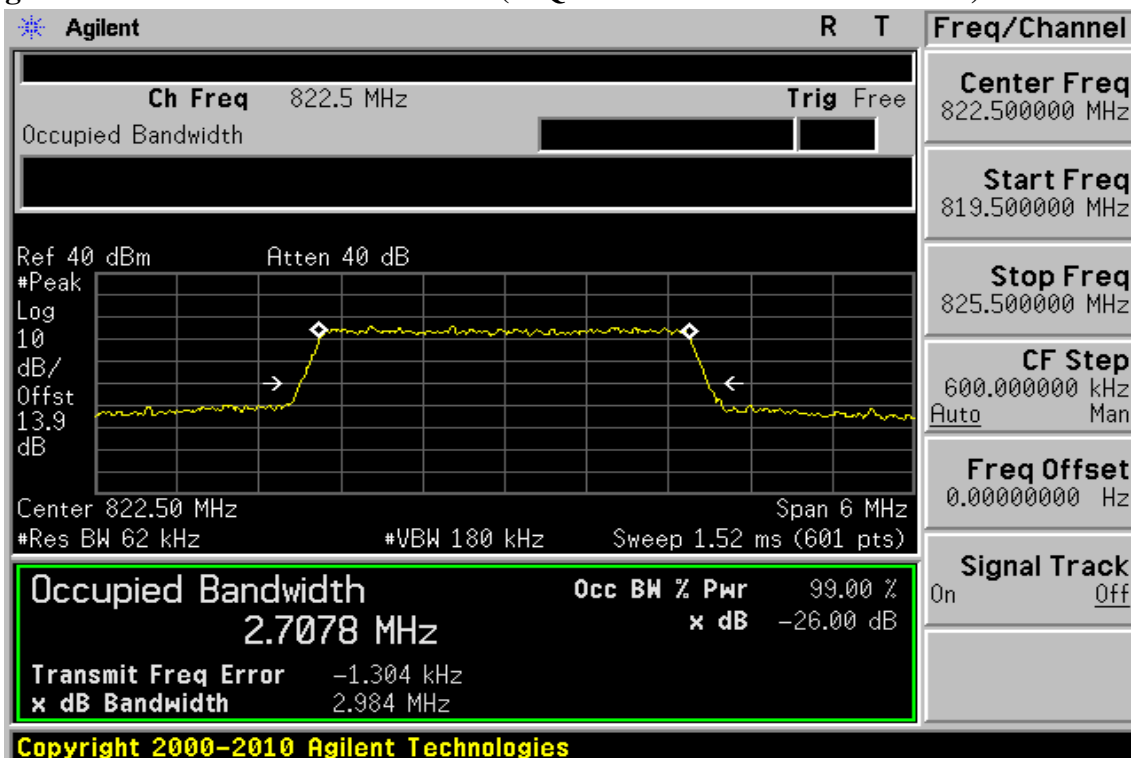


Figure 8-90: 3MHz BW LTE-Band 26 (16QAM RB Number: 15 Offset: 0) Channel High



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Figure 8-91: 5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Low

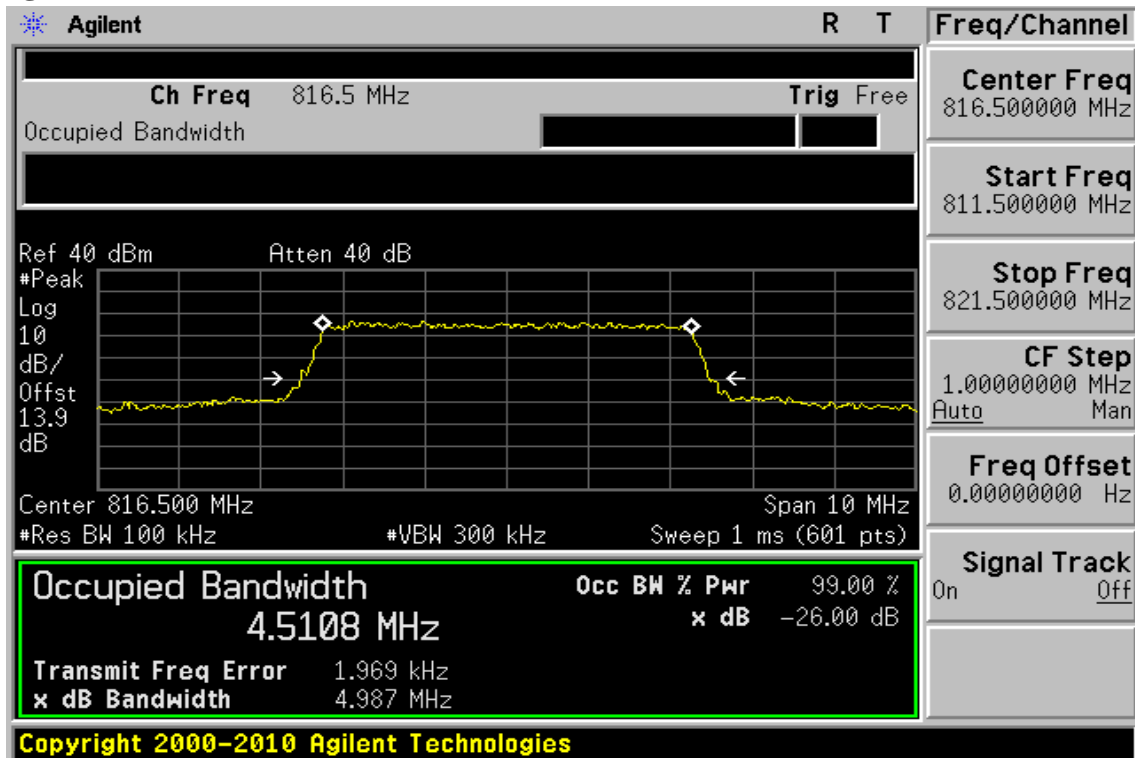
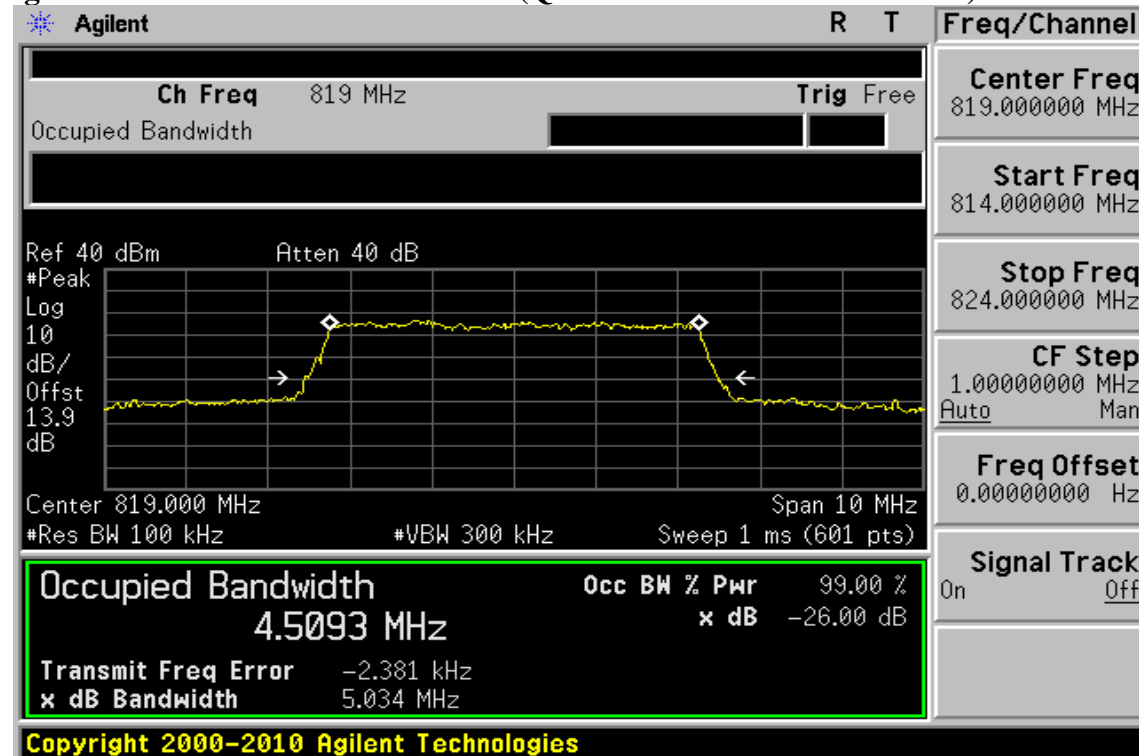


Figure 8-92: 5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 8-93: 5MHz BW LTE-Band 26 (QPSK RB Number: 25 Offset: 0) Channel High

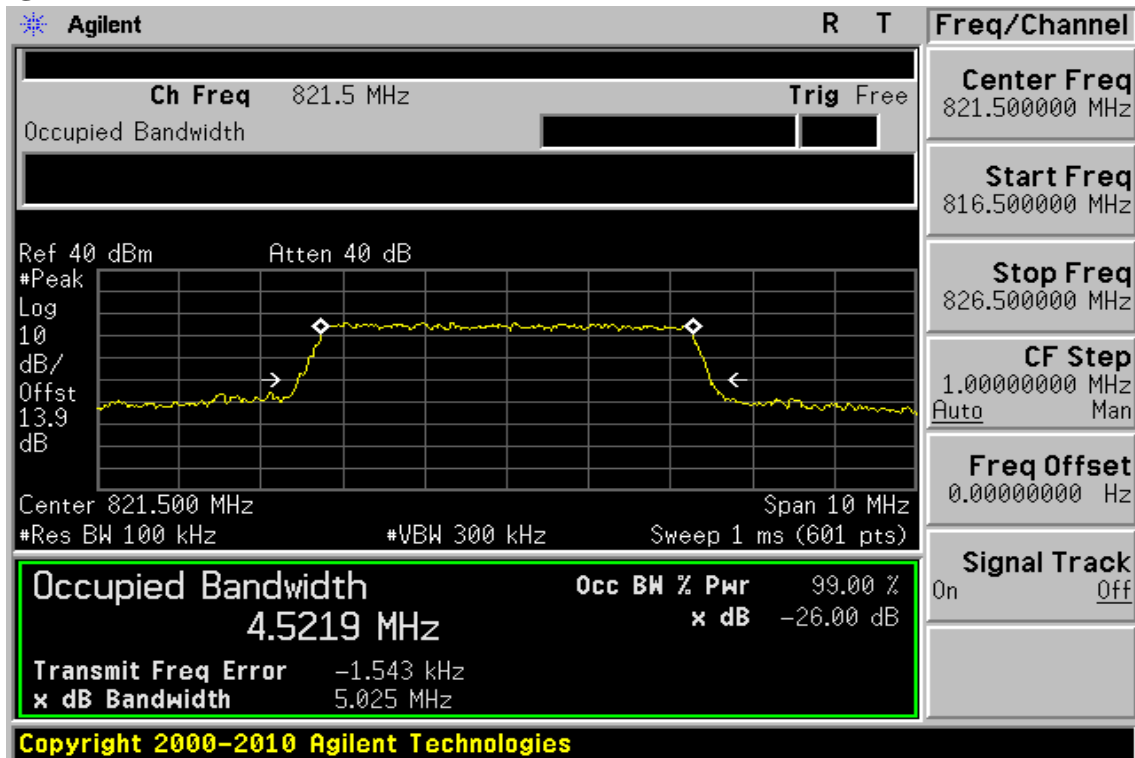
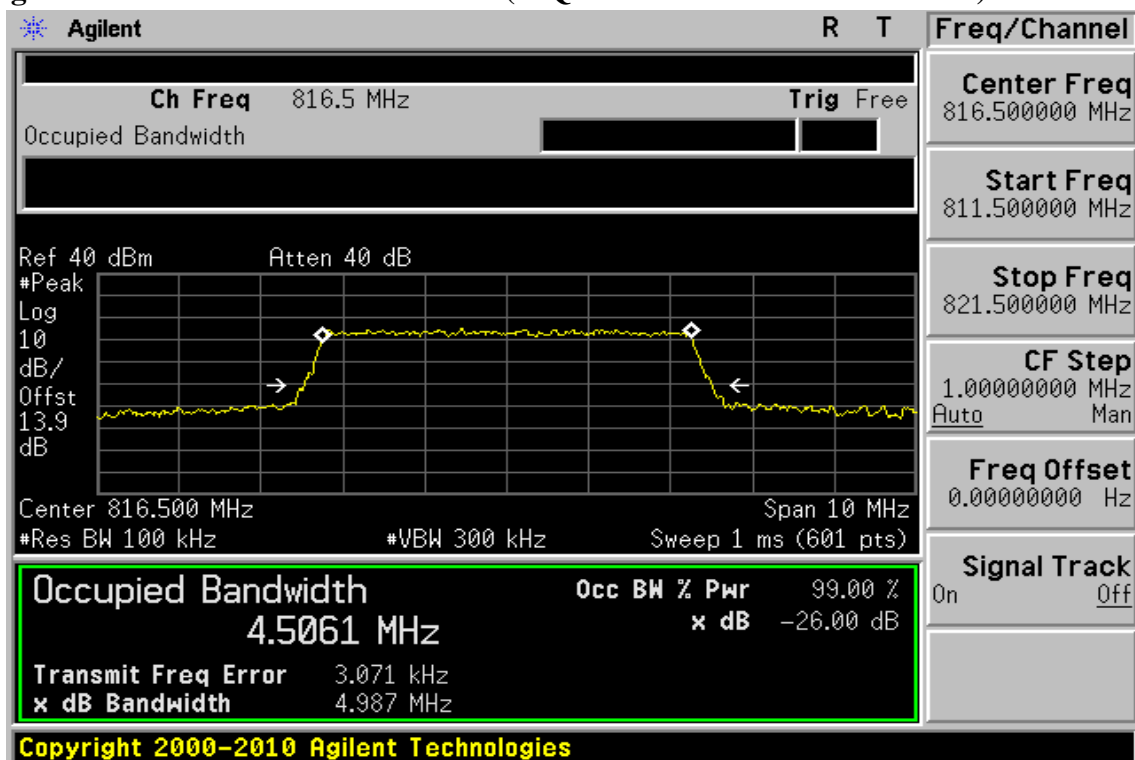


Figure 8-94: 5MHz BW LTE-Band 26 (16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 8-95: 5MHz BW LTE-Band 26 (16QAM RB Number: 25 Offset: 0) Channel Mid

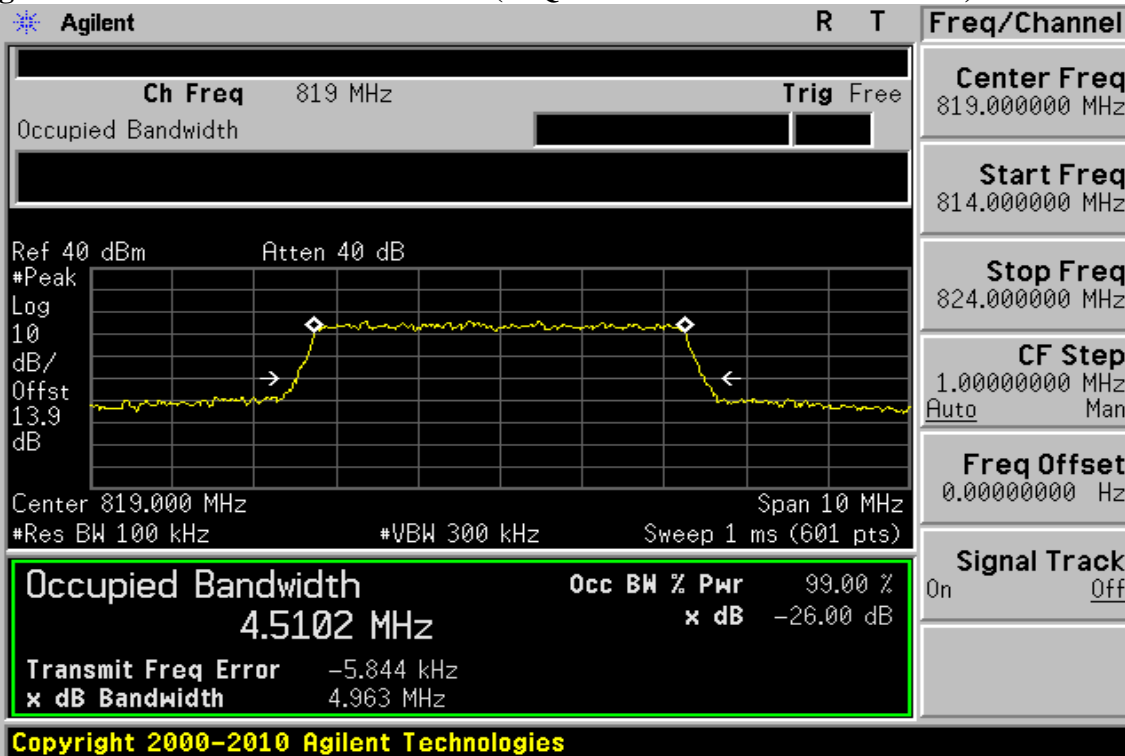
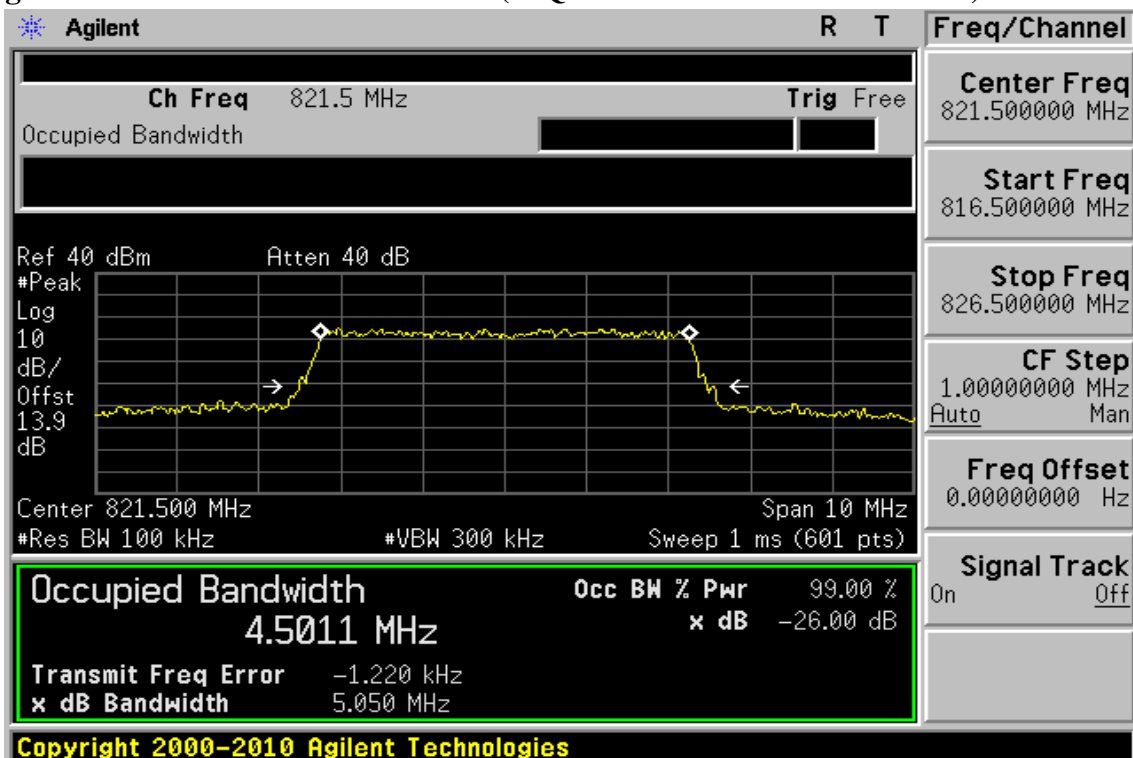


Figure 8-96: 5MHz BW LTE-Band 26 (16QAM RB Number: 25 Offset: 0) Channel High



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Figure 8-97: 10MHz BW LTE-Band 26 (QPSK RB Number: 50 Offset: 0) Channel Low

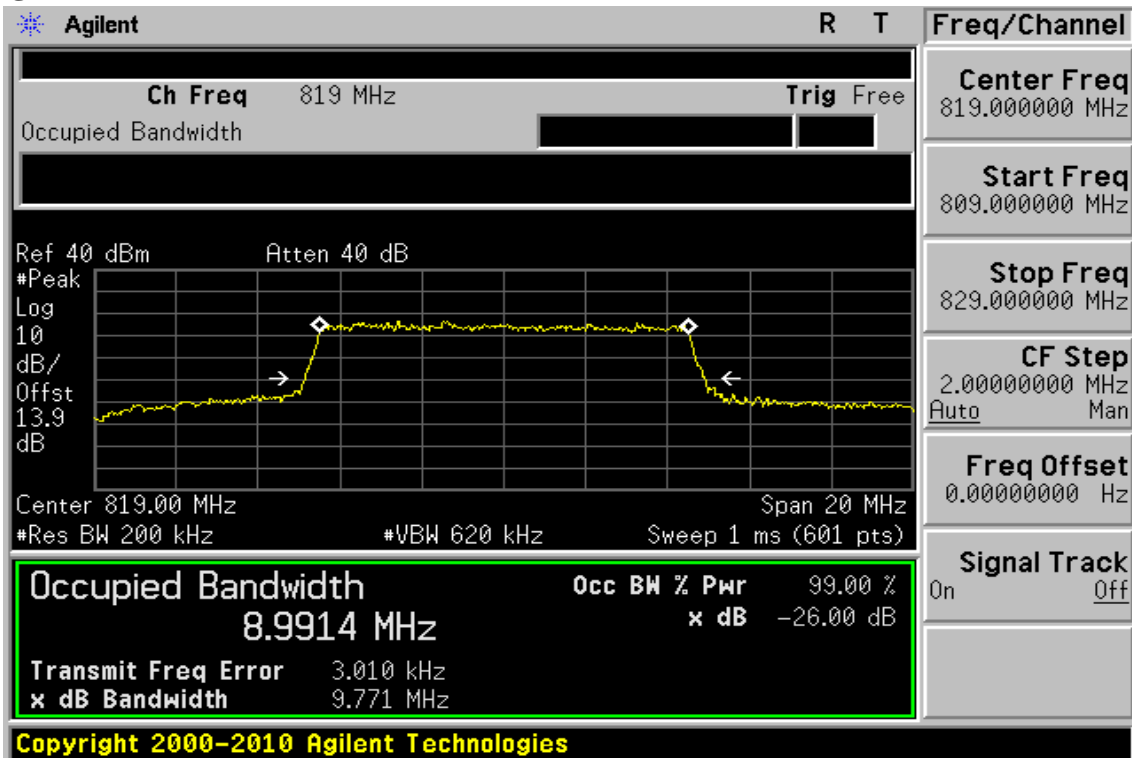
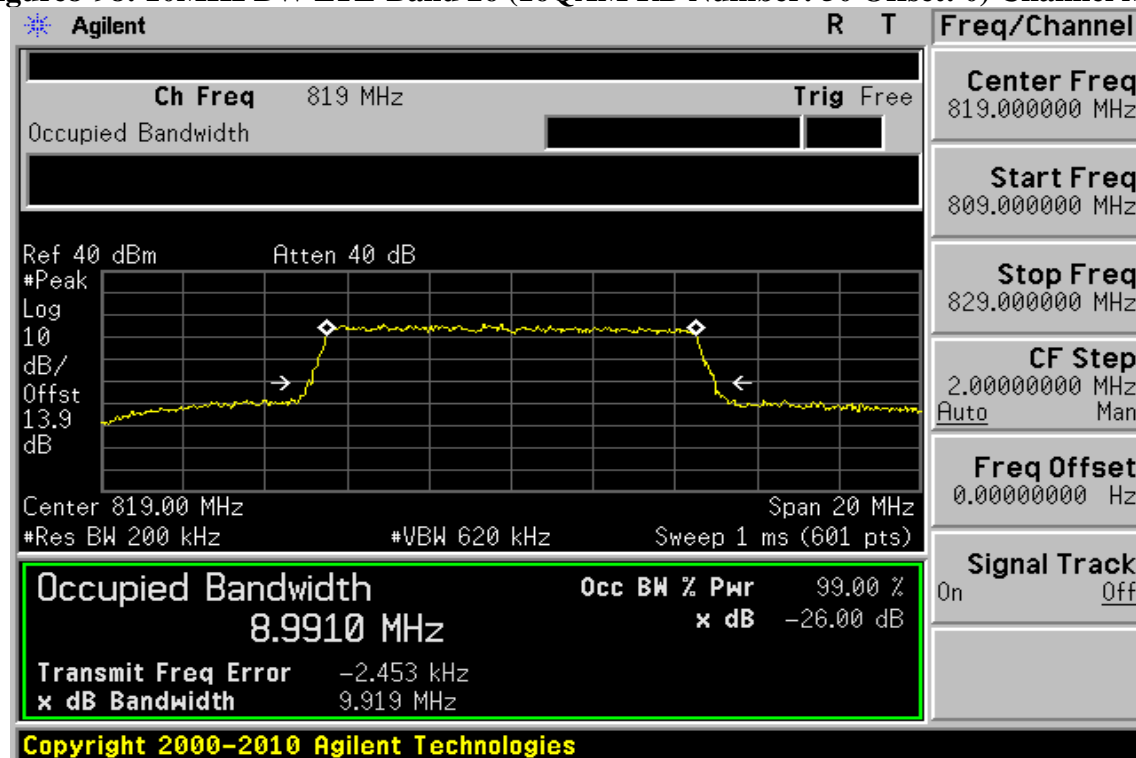


Figure8-98: 10MHz BW LTE-Band 26 (16QAM RB Number: 50 Offset: 0) Channel Mid



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Figure 8-99: 5MHz BW LTE-Band 41 (QPSK RB Number: 25 Offset: 0) Channel Low

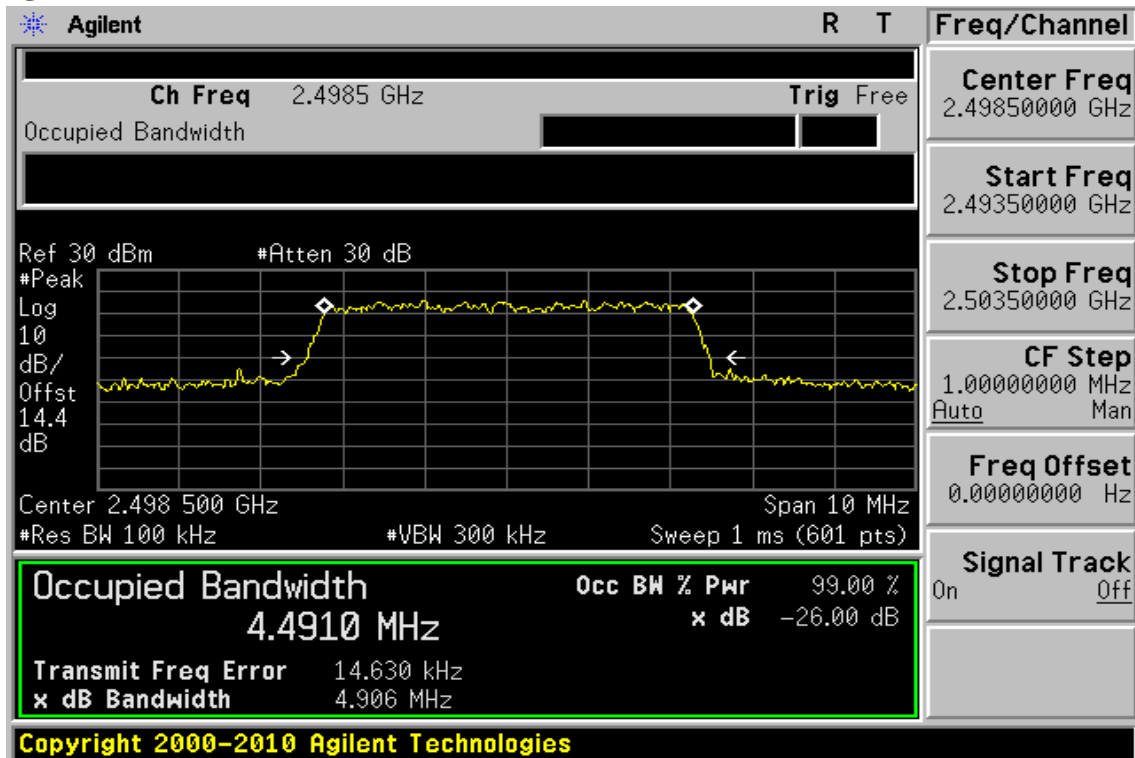
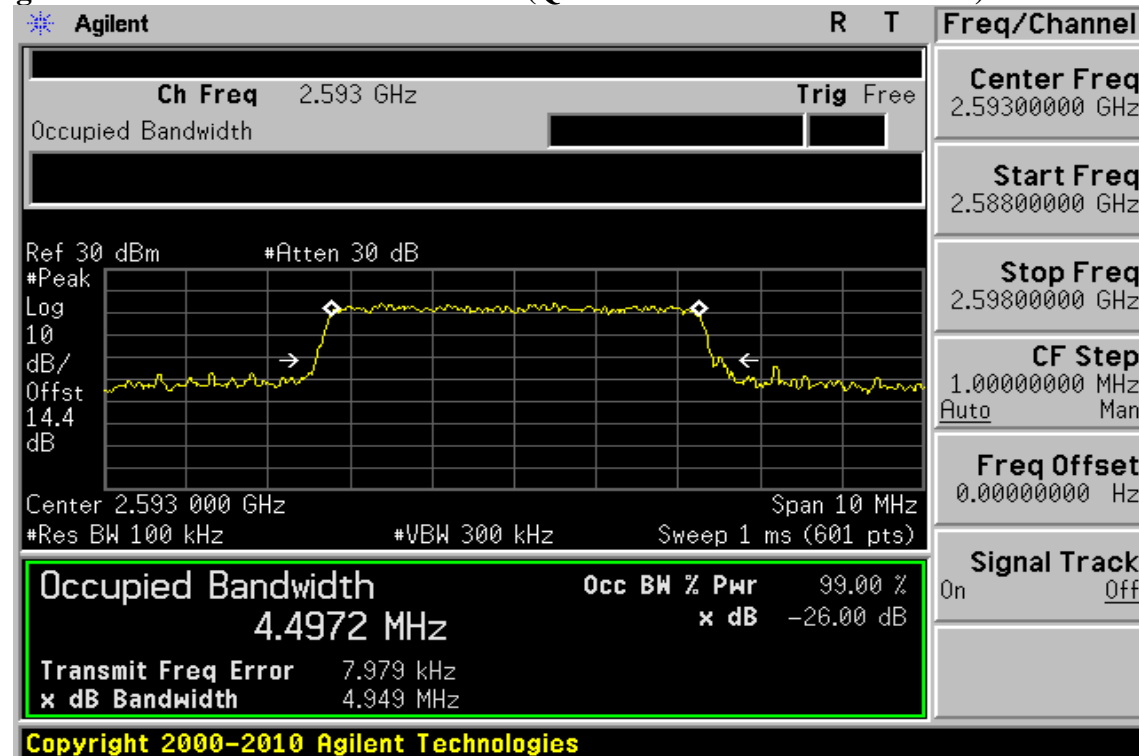


Figure 8-100: 5MHz BW LTE-Band 41 (QPSK RB Number: 25 Offset: 0) Channel Mid



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Figure 8-101: 5MHz BW LTE-Band 41 (QPSK RB Number: 25 Offset: 0) Channel High

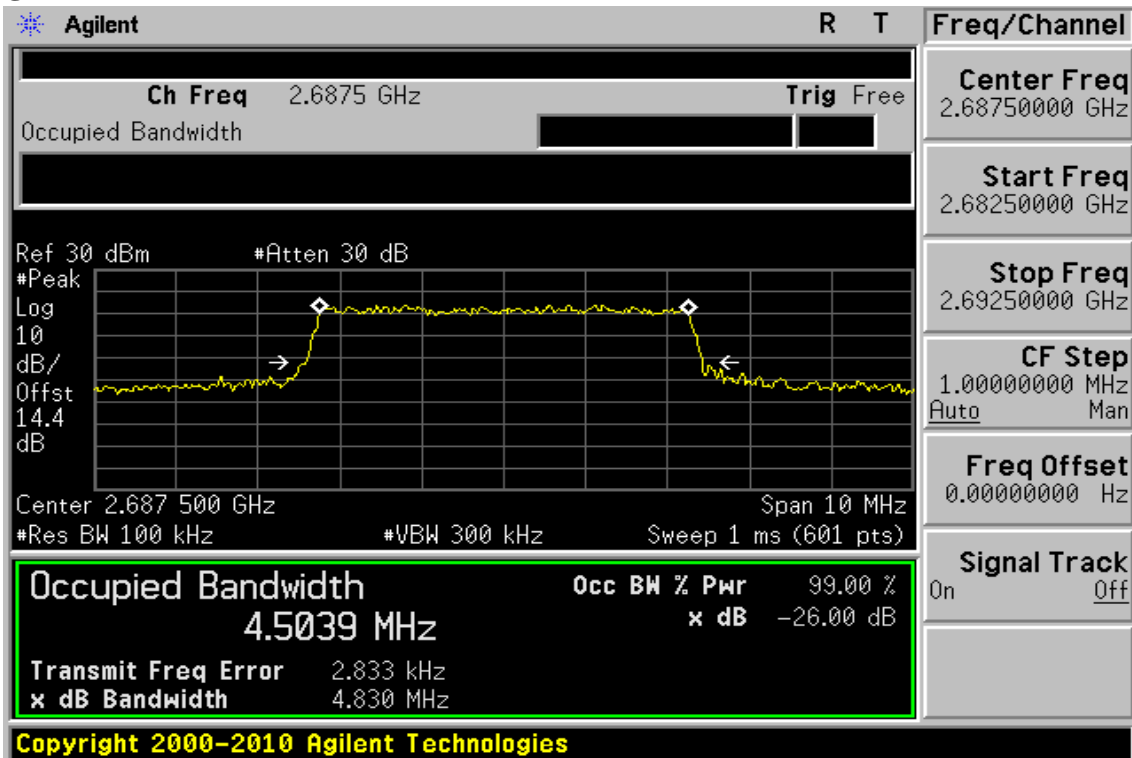
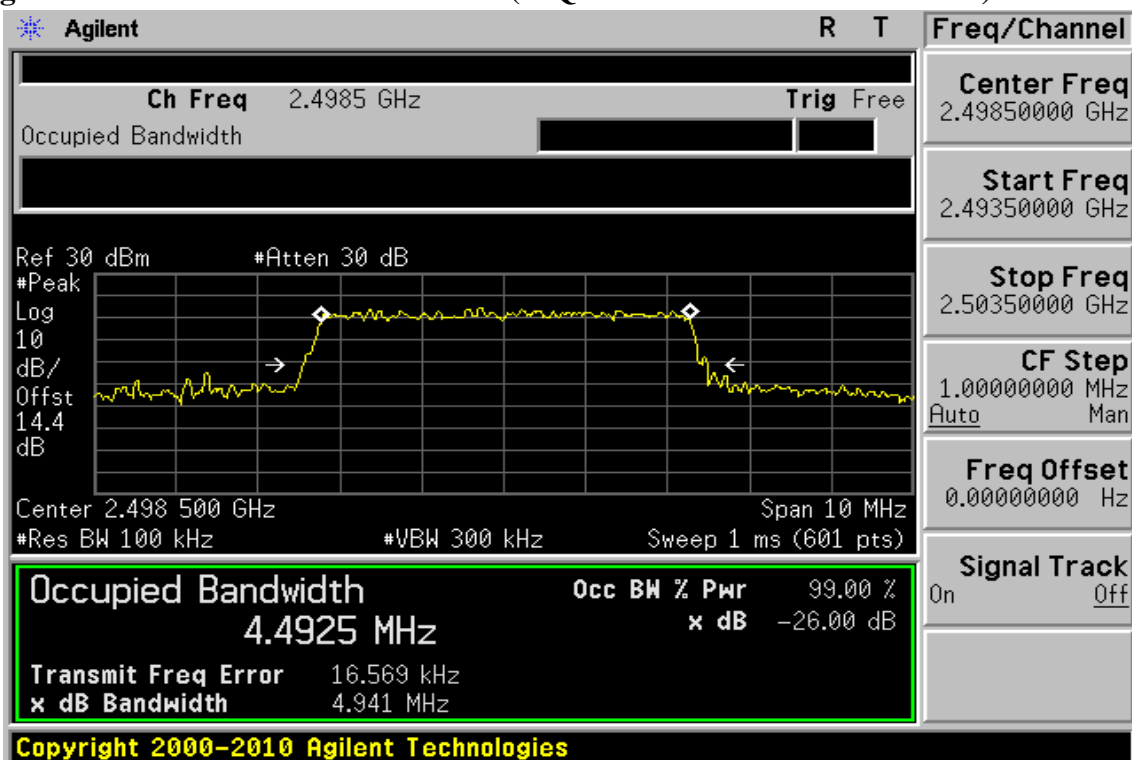


Figure 8-102: 5MHz BW LTE-Band 41 (16QAM RB Number: 25 Offset: 0) Channel Low



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Figure 8-103: 5MHz BW LTE-Band 41 (16QAM RB Number: 25 Offset: 0) Channel Mid

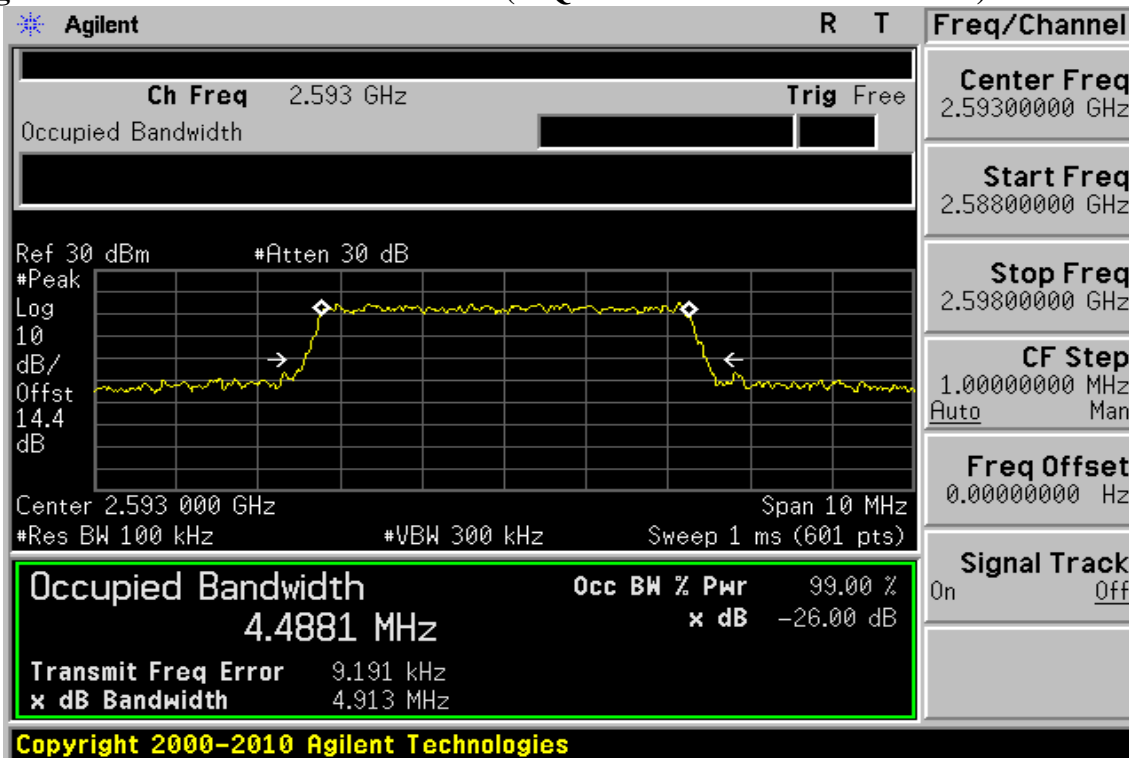
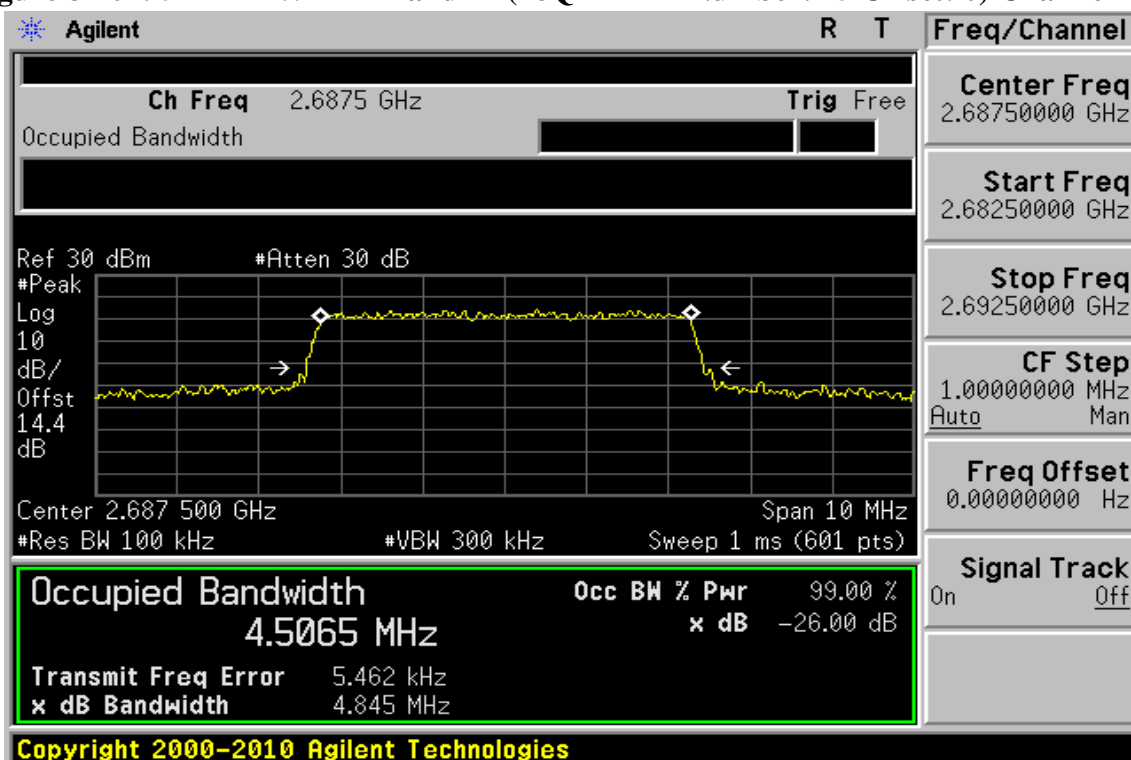


Figure 8-104: 5MHz BW LTE-Band 41 (16QAM RB Number: 25 Offset: 0) Channel High



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Figure 8-105: 10MHz BW LTE-Band 41 (QPSK RB Number: 50 Offset: 0) Channel Low

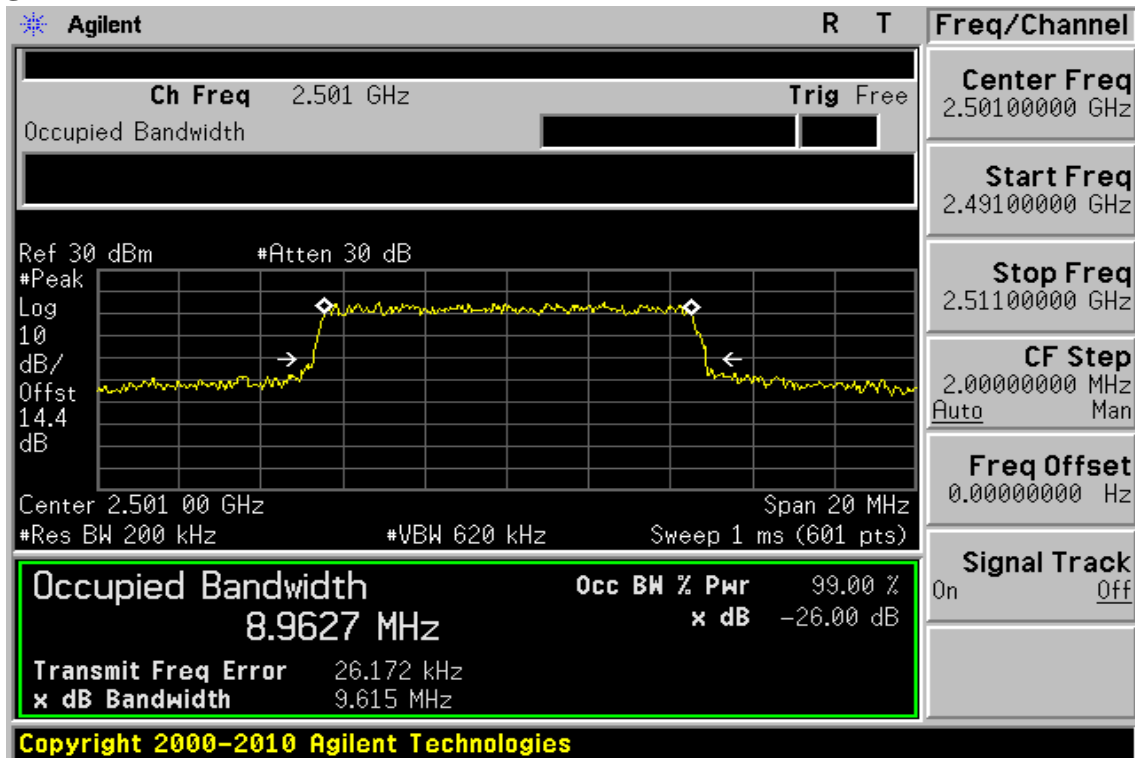
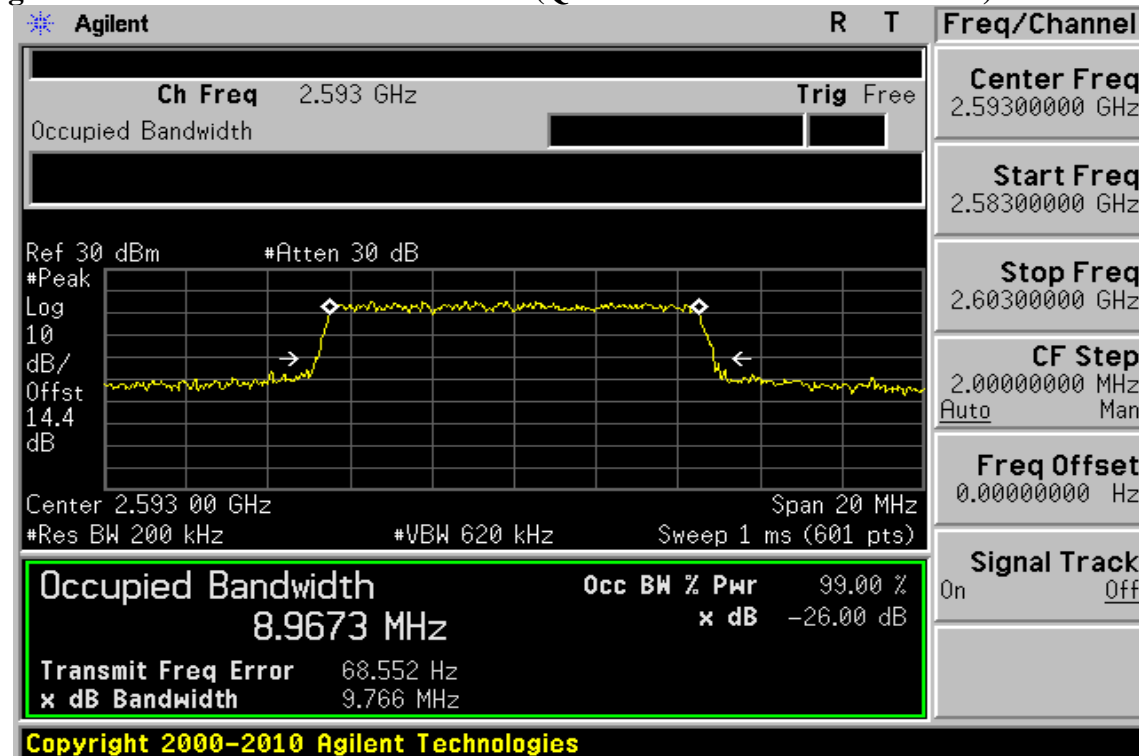


Figure 8-106: 10MHz BW LTE-Band 41 (QPSK RB Number: 50 Offset: 0) Channel Mid



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Figure 8-107: 10MHz BW LTE-Band 41 (QPSK RB Number: 50 Offset: 0) Channel High

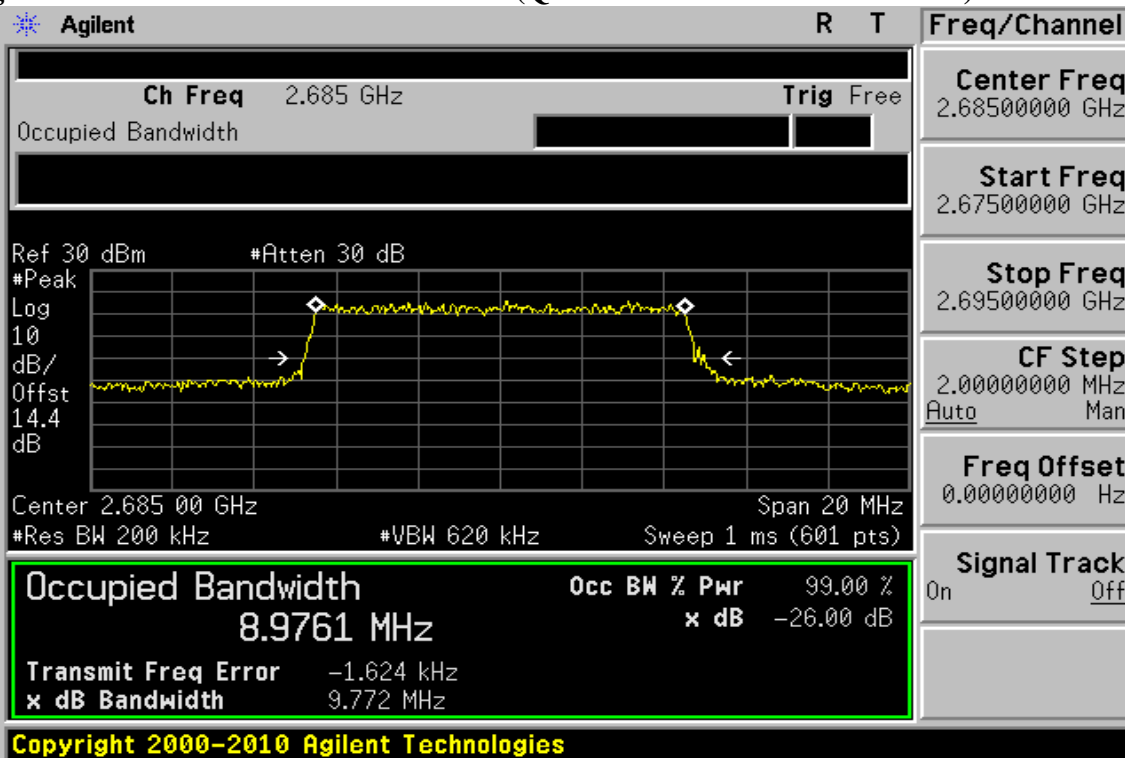
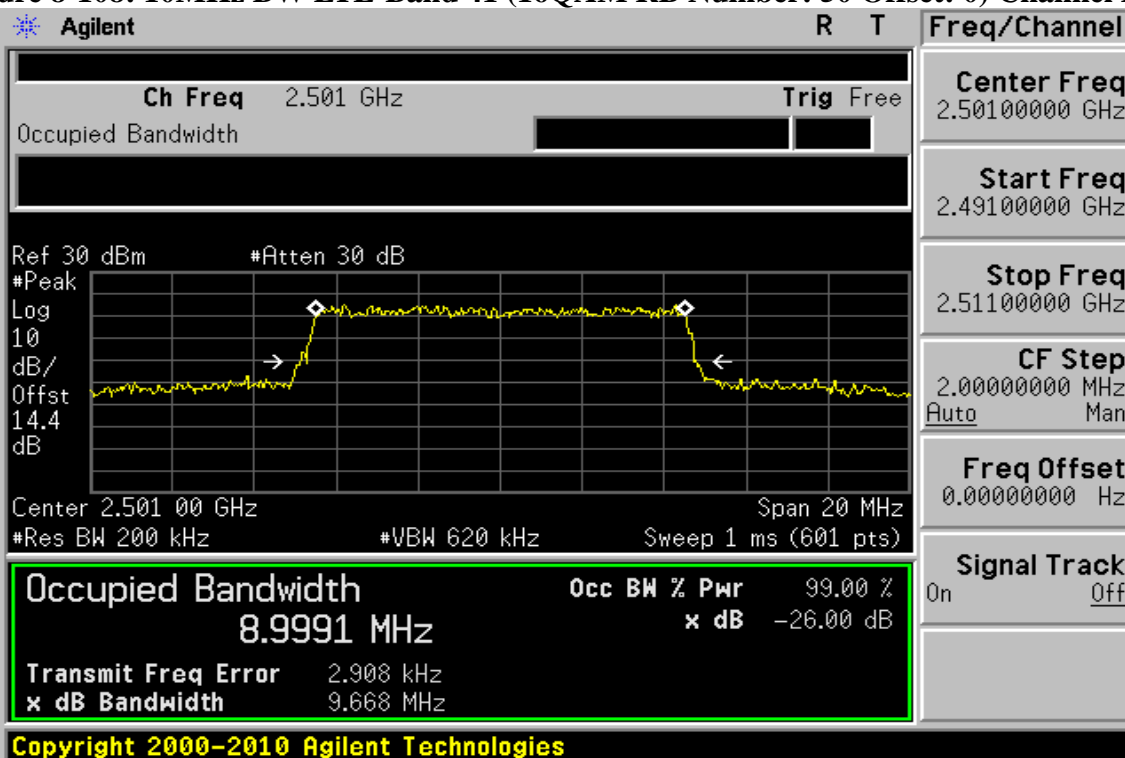


Figure 8-108: 10MHz BW LTE-Band 41 (16QAM RB Number: 50 Offset: 0) Channel Low



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Figure 8-109: 10MHz BW LTE-Band 41 (16QAM RB Number: 50 Offset: 0) Channel Mid

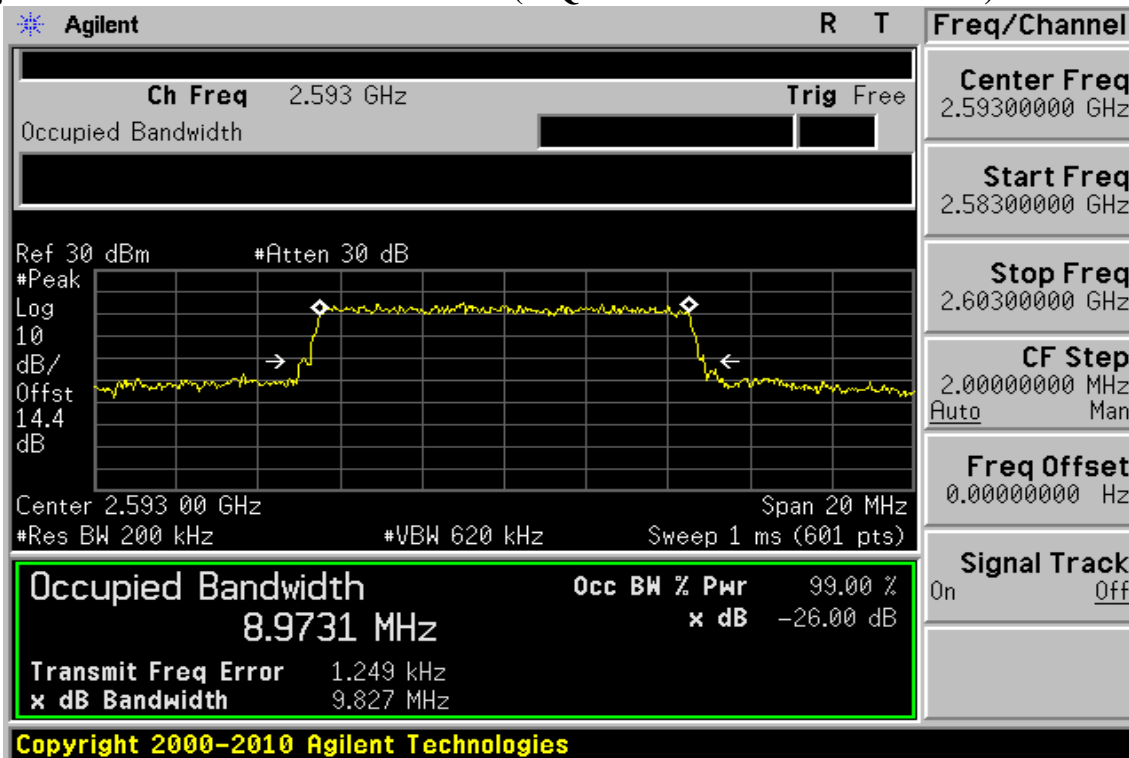
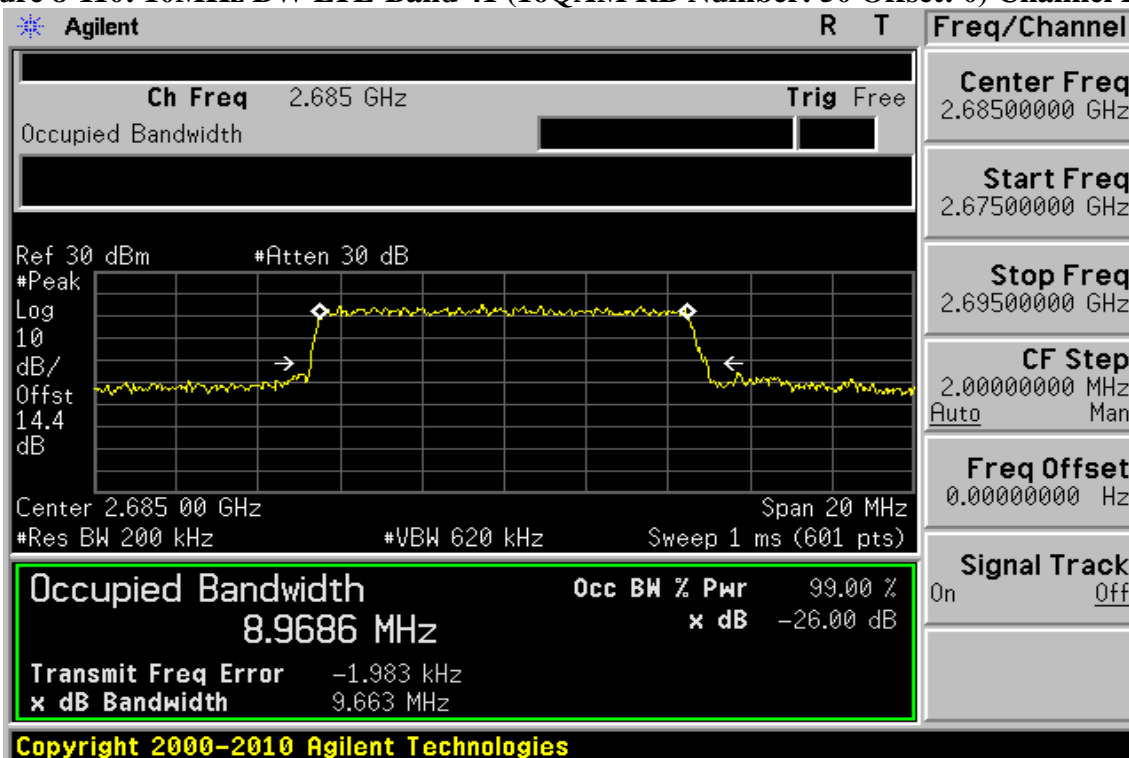


Figure 8-110: 10MHz BW LTE-Band 41 (16QAM RB Number: 50 Offset: 0) Channel High



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Figure 8-111: 15MHz BW LTE-Band 41 (QPSK RB Number: 75 Offset: 0) Channel Low

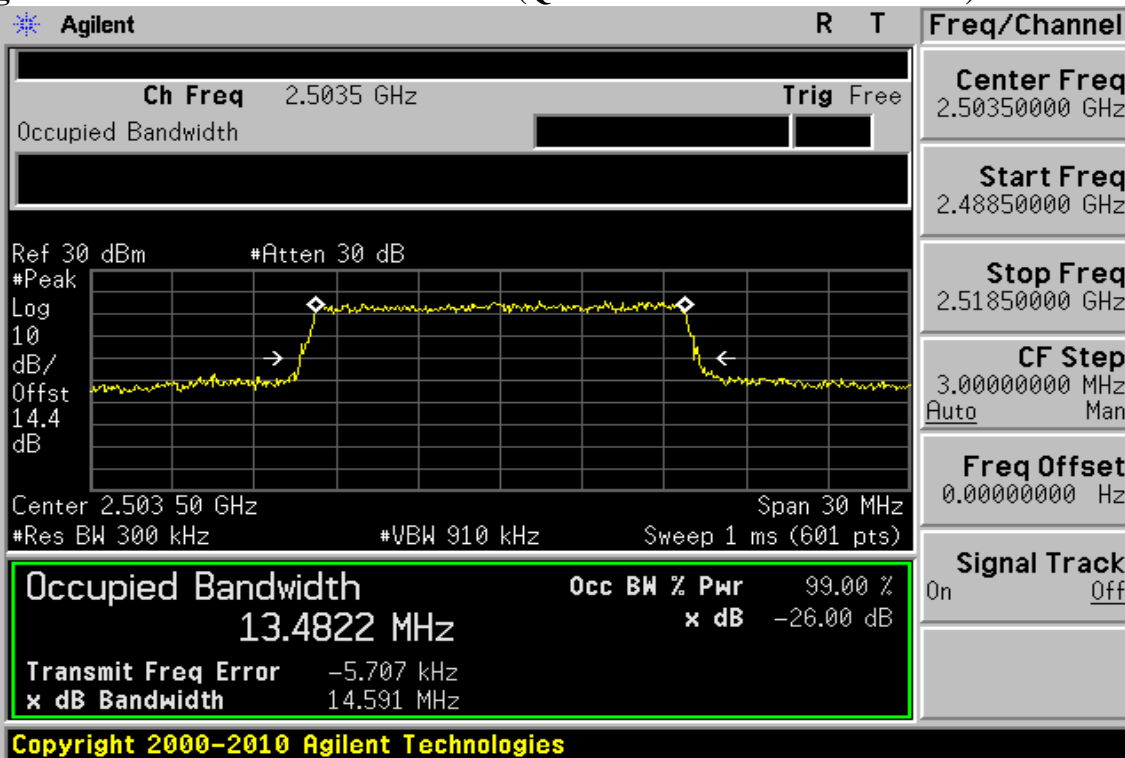
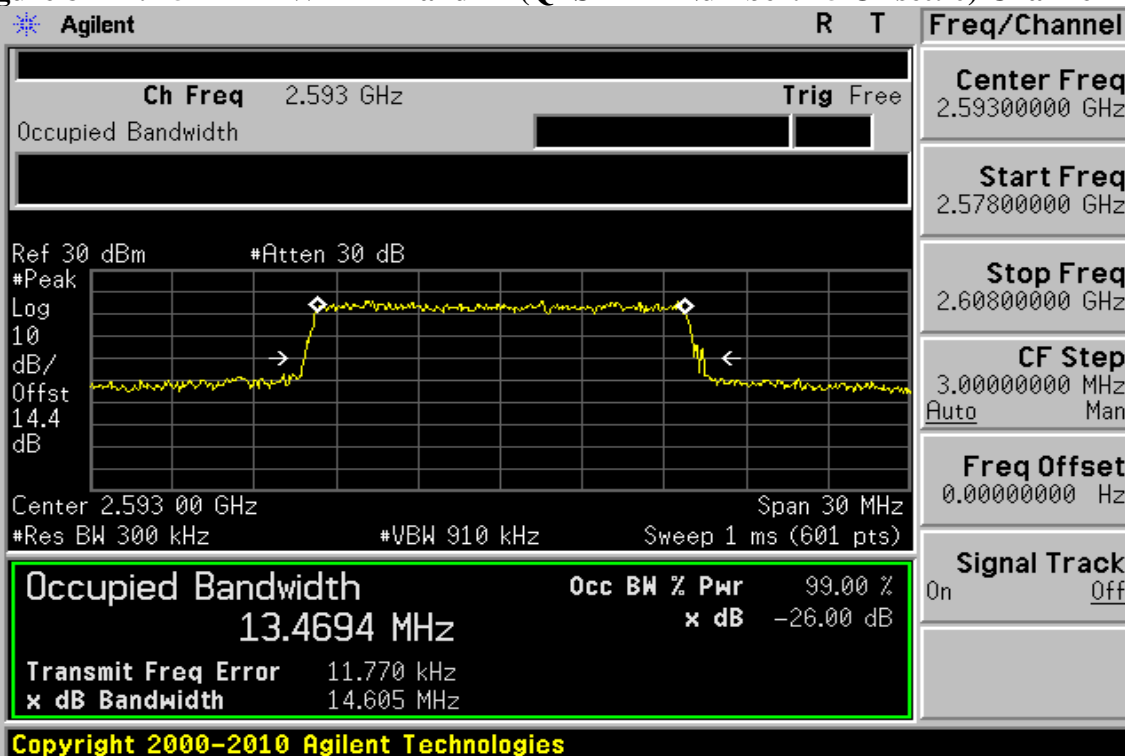


Figure 8-112: 15MHz BW LTE-Band 41 (QPSK RB Number: 75 Offset: 0) Channel Mid



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Figure 8-113: 15MHz BW LTE-Band 41 (QPSK RB Number: 75 Offset: 0) Channel High

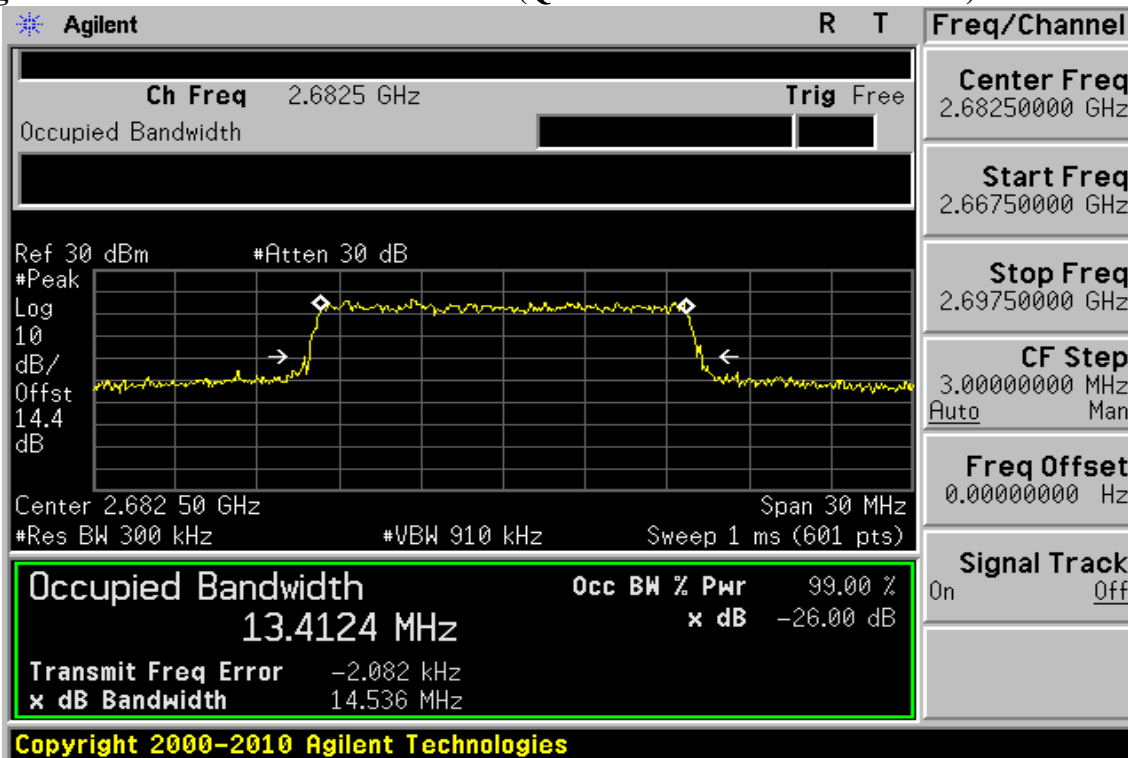
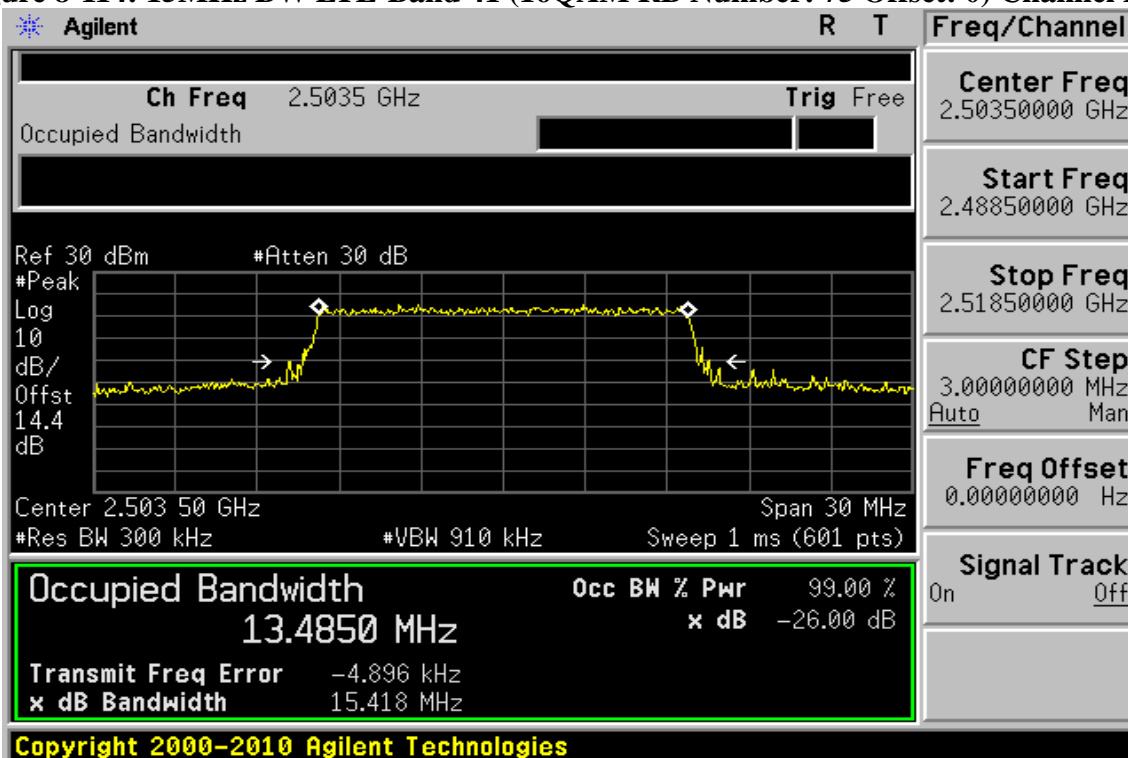


Figure 8-114: 15MHz BW LTE-Band 41 (16QAM RB Number: 75 Offset: 0) Channel Low



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Figure 8-115: 15MHz BW LTE-Band 41 (16QAM RB Number: 75 Offset: 0) Channel Mid

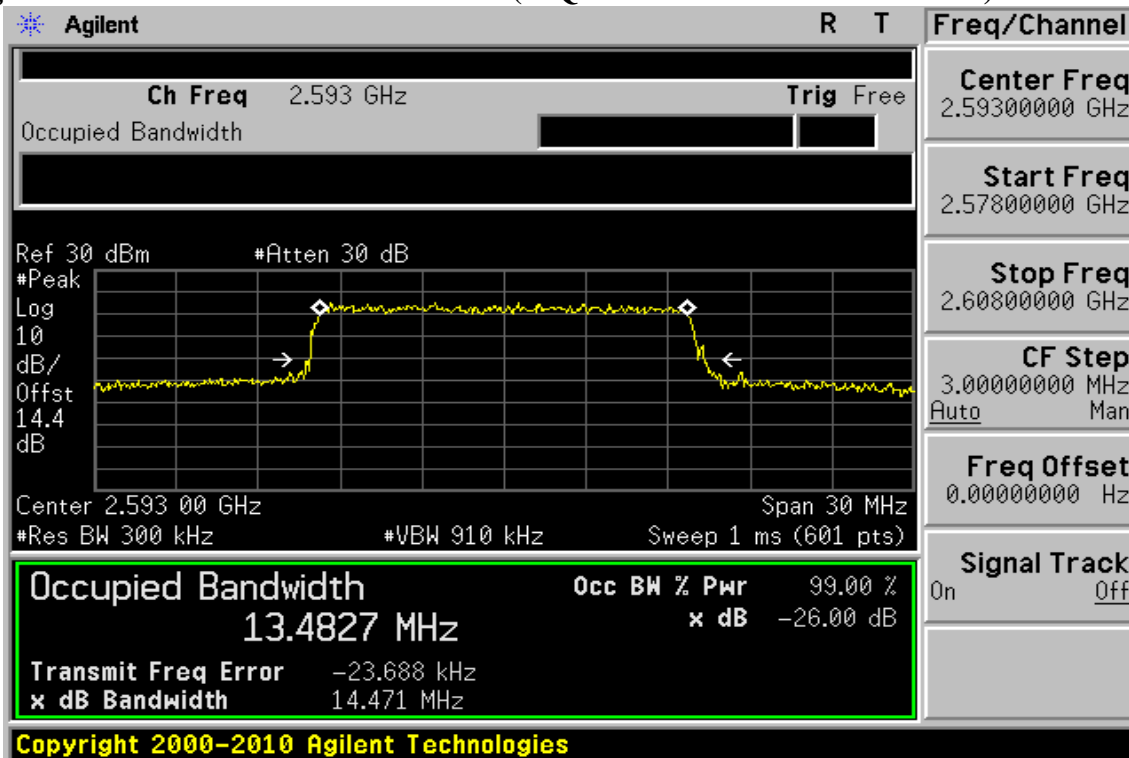
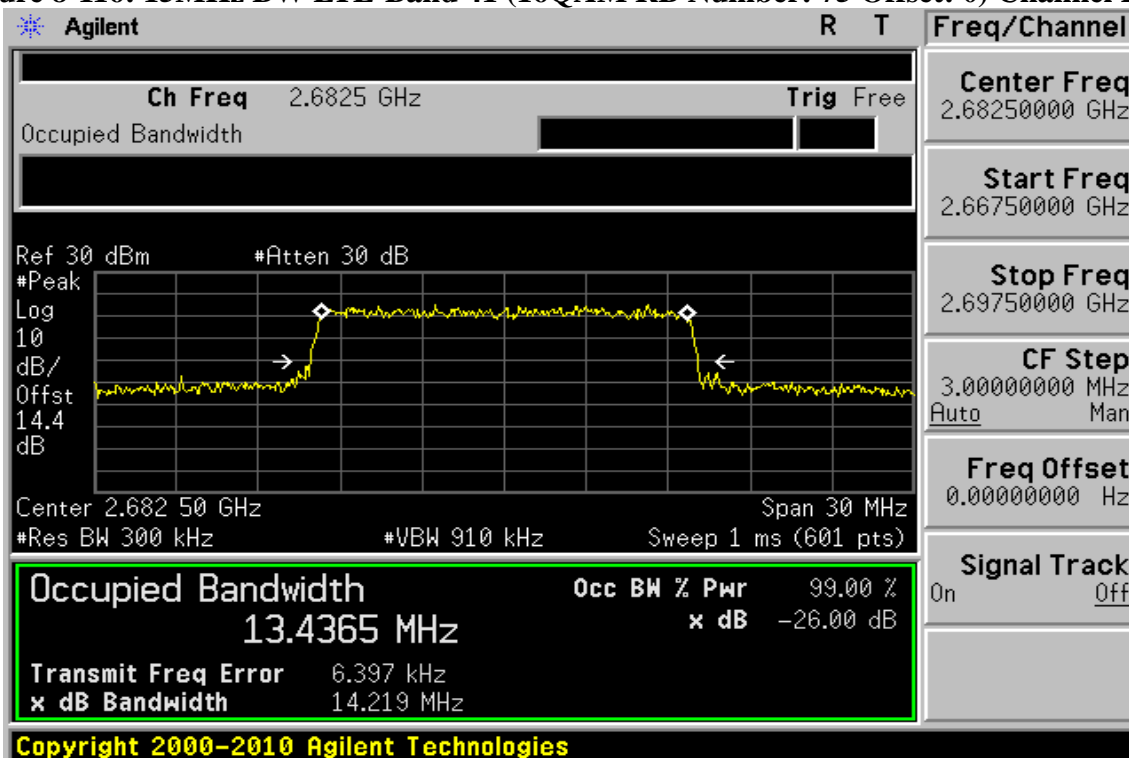


Figure 8-116: 15MHz BW LTE-Band 41 (16QAM RB Number: 75 Offset: 0) Channel High



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Figure 8-117: 20MHz BW LTE-Band 41 (QPSK RB Number: 100 Offset: 0) Channel Low

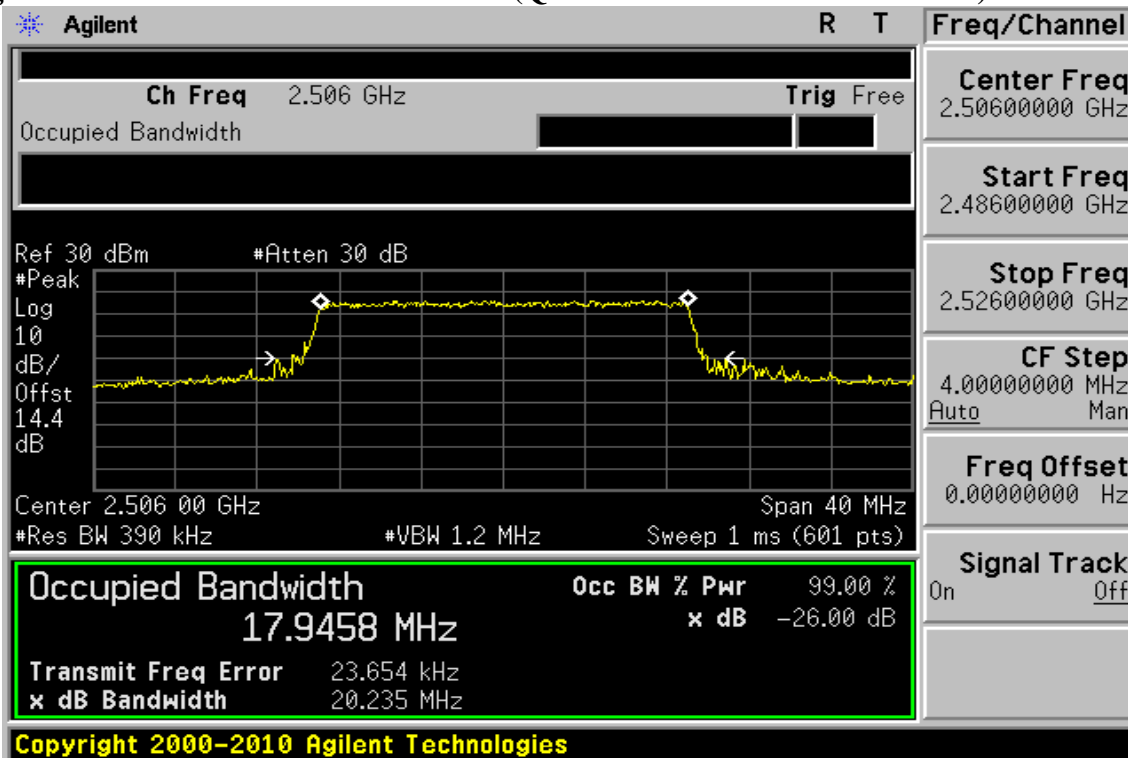
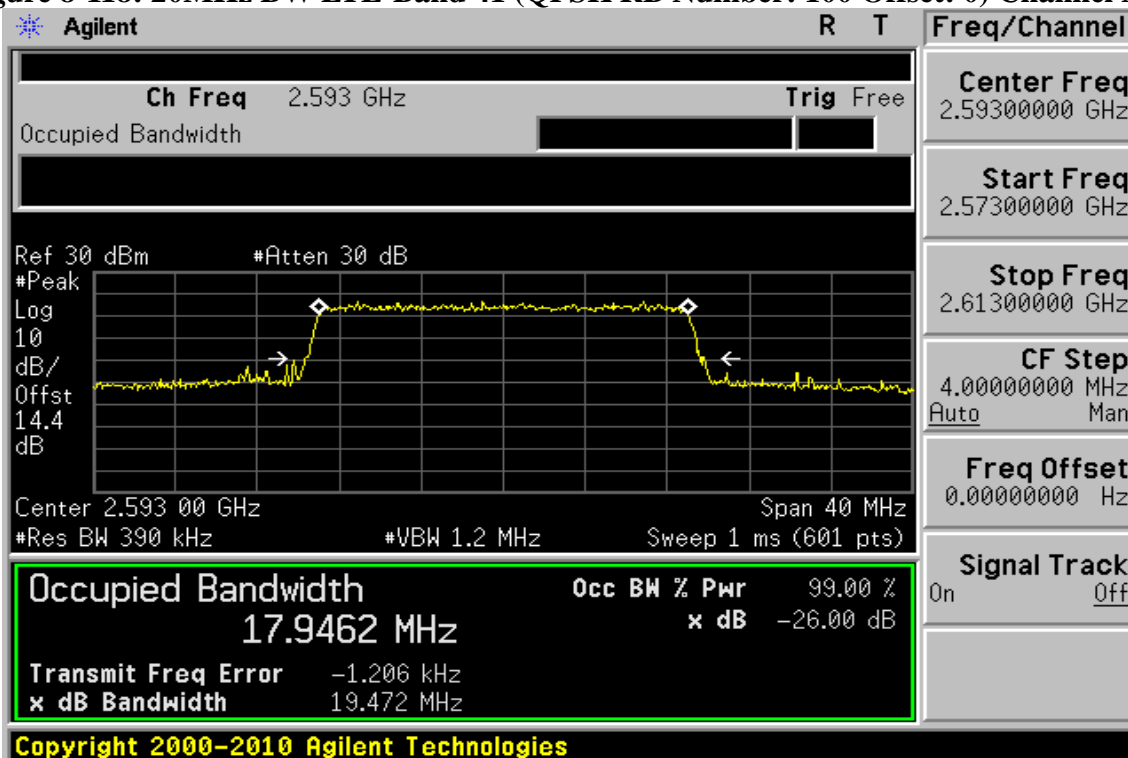


Figure 8-118: 20MHz BW LTE-Band 41 (QPSK RB Number: 100 Offset: 0) Channel Mid



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Figure 8-119: 20MHz BW LTE-Band 41 (QPSK RB Number: 100 Offset: 0) Channel High

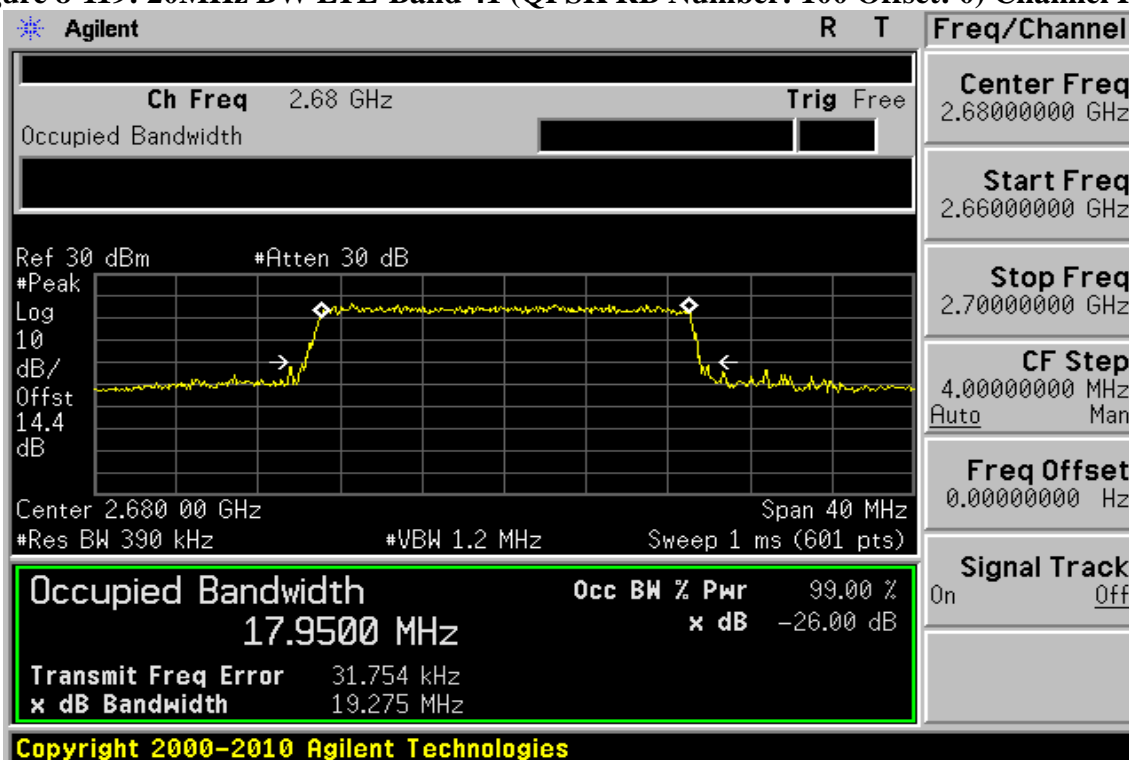
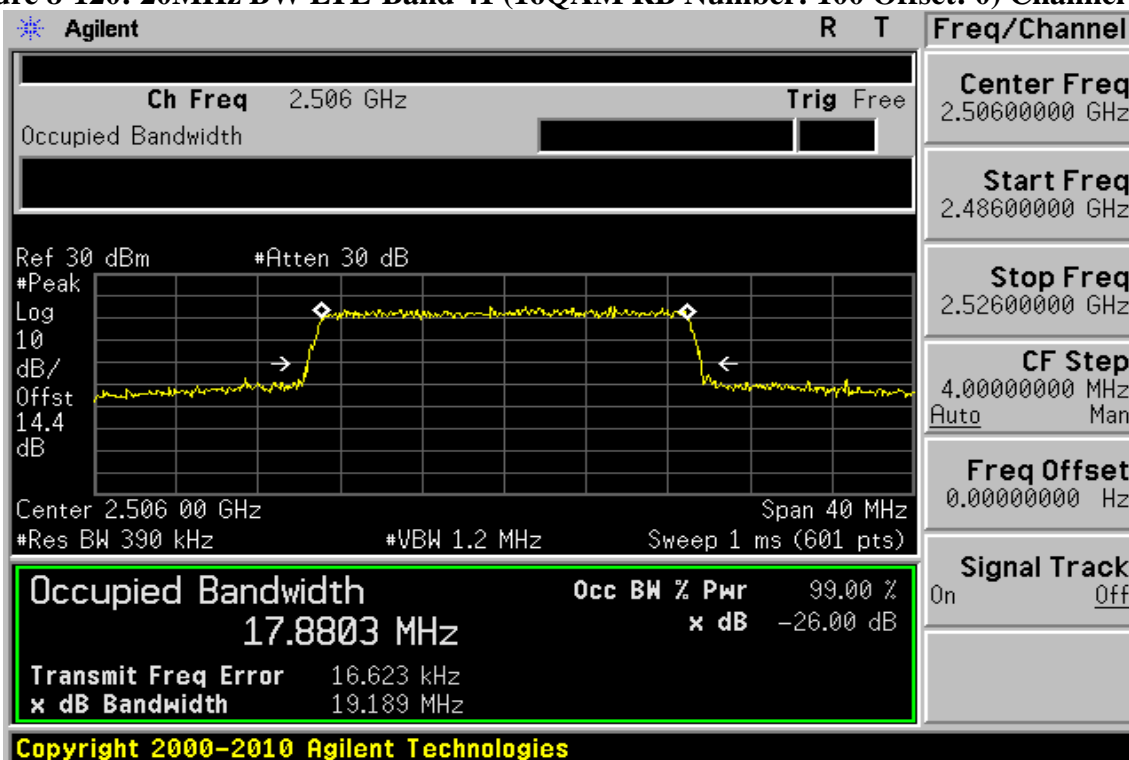


Figure 8-120: 20MHz BW LTE-Band 41 (16QAM RB Number: 100 Offset: 0) Channel Low



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Figure 8-121: 20MHz BW LTE-Band 41 (16QAM RB Number: 100 Offset: 0) Channel Mid

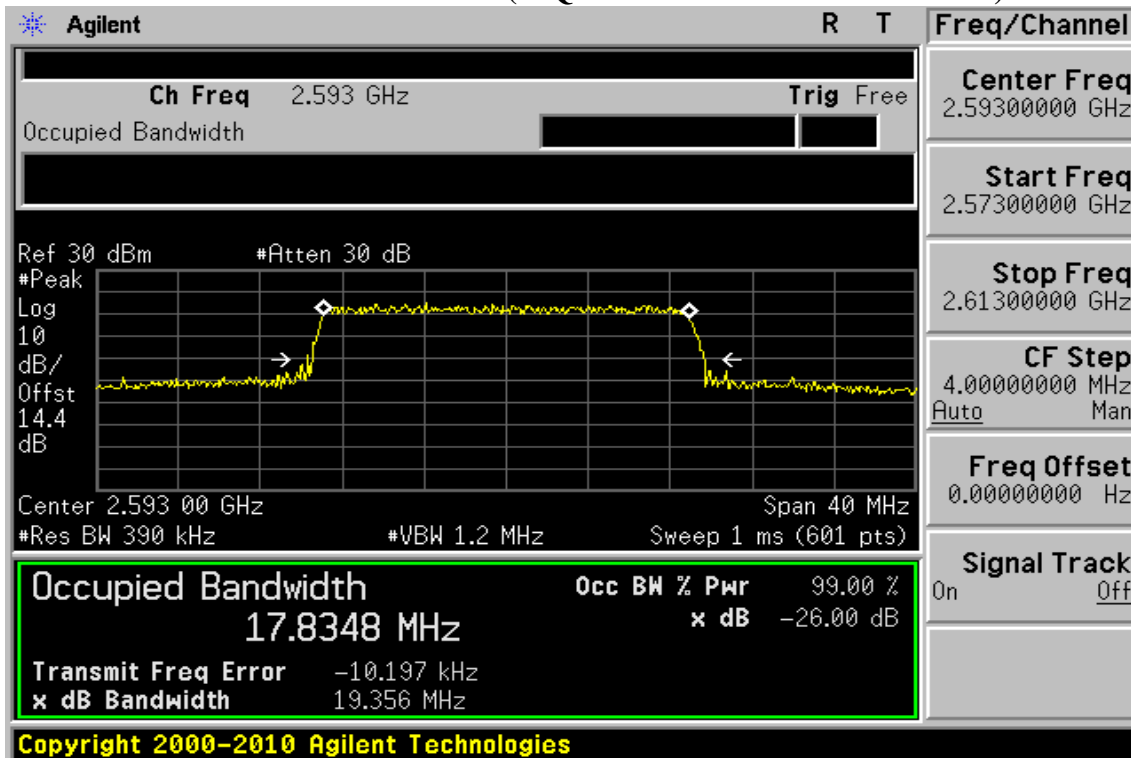
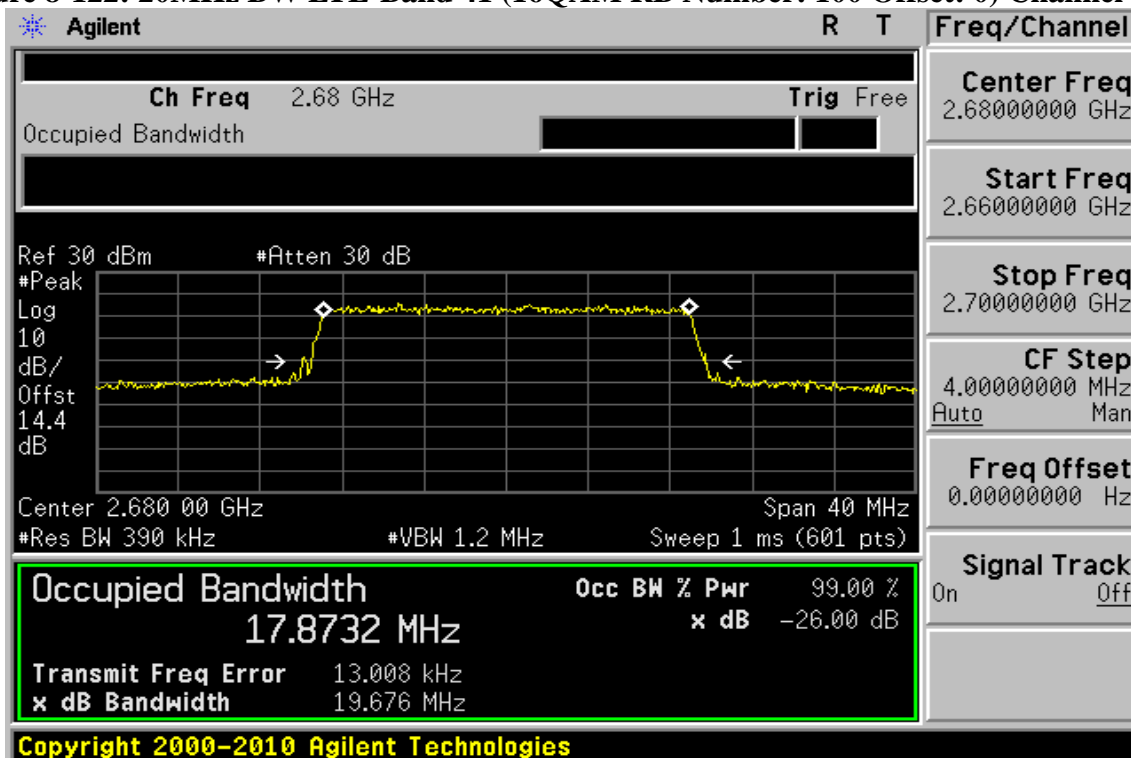


Figure 8-122: 20MHz BW LTE-Band 41 (16QAM RB Number: 100 Offset: 0) Channel High



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## 9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 9.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), 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).

### 100KHz Bandedge:

FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than  $43 + 10 \log (P)$  dB at the channel edge and  $55 + 10 \log (P)$  dB at 5.5 megahertz from the channel edges. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on 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 MHz 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. 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 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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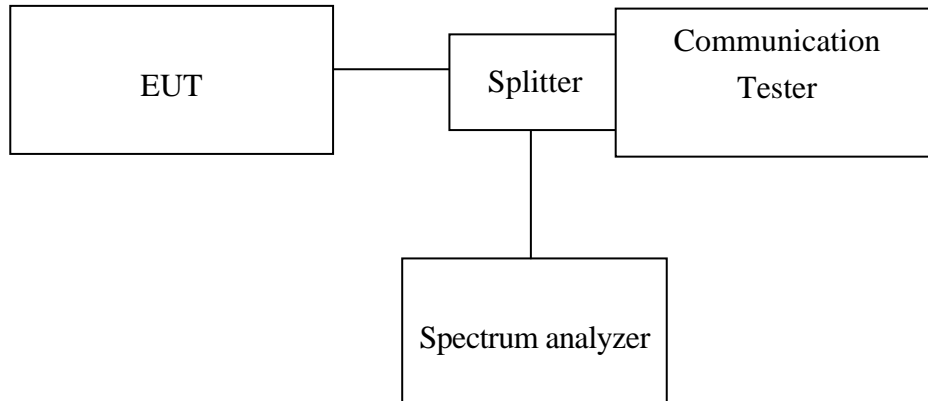
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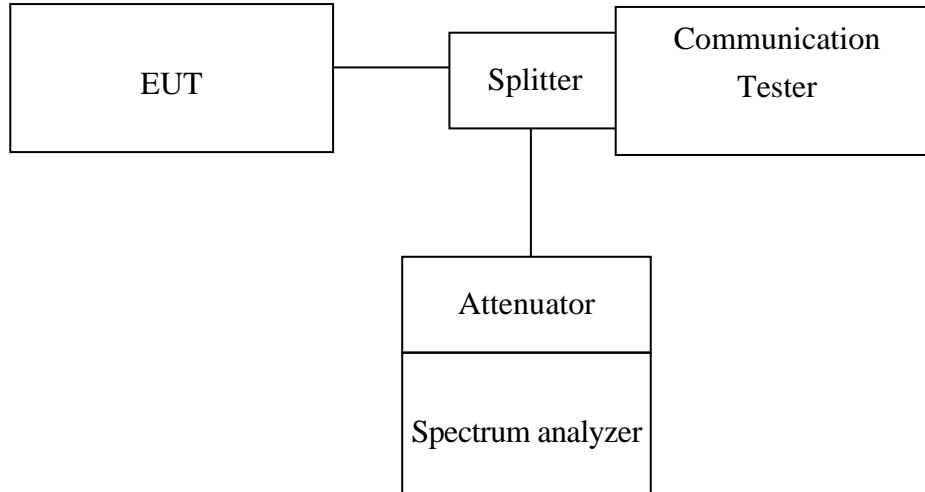
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## 9.2. Test SET-UP:

### Out of band emission



### Band Edge



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### 9.3. Measurement Procedure:

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.

For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10 th harmonic. Limit = -13dBm.

Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

### Conducted Emission:

- 1、 To connect Antenna Port of EUT to Spectrum.
- 2、 Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3、 Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G ,10G to 15G and 15G to 20GHz
- 4、 Via Software, combine 6 spans of frequency range into one plot

### 9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

### 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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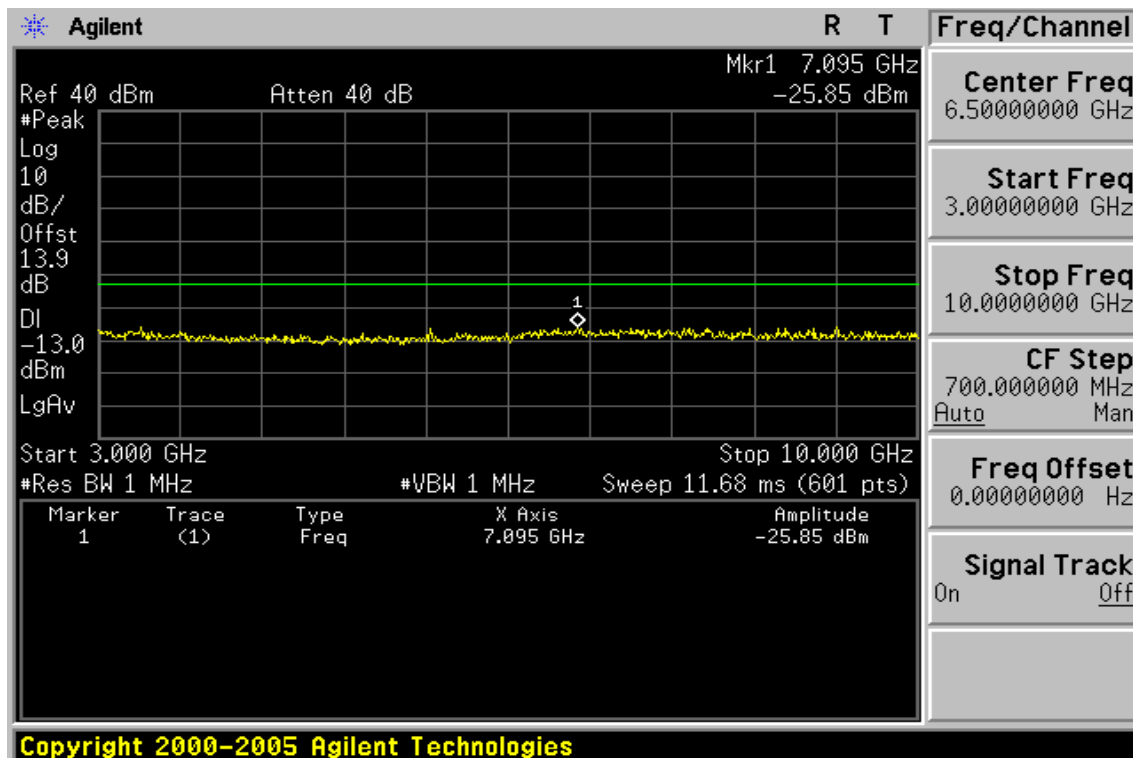
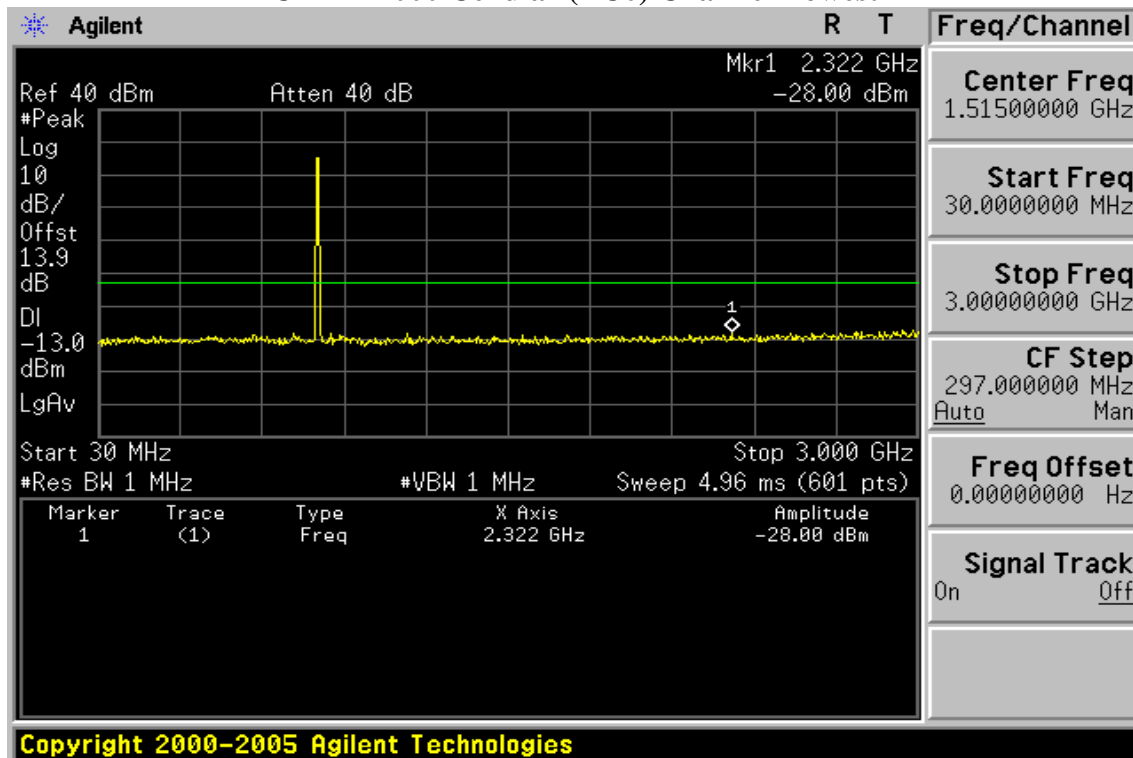
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**Figure 9-1: Out of Band emission at antenna terminals –  
CDMA 2000 Cellular (BC0) Channel Lowest**



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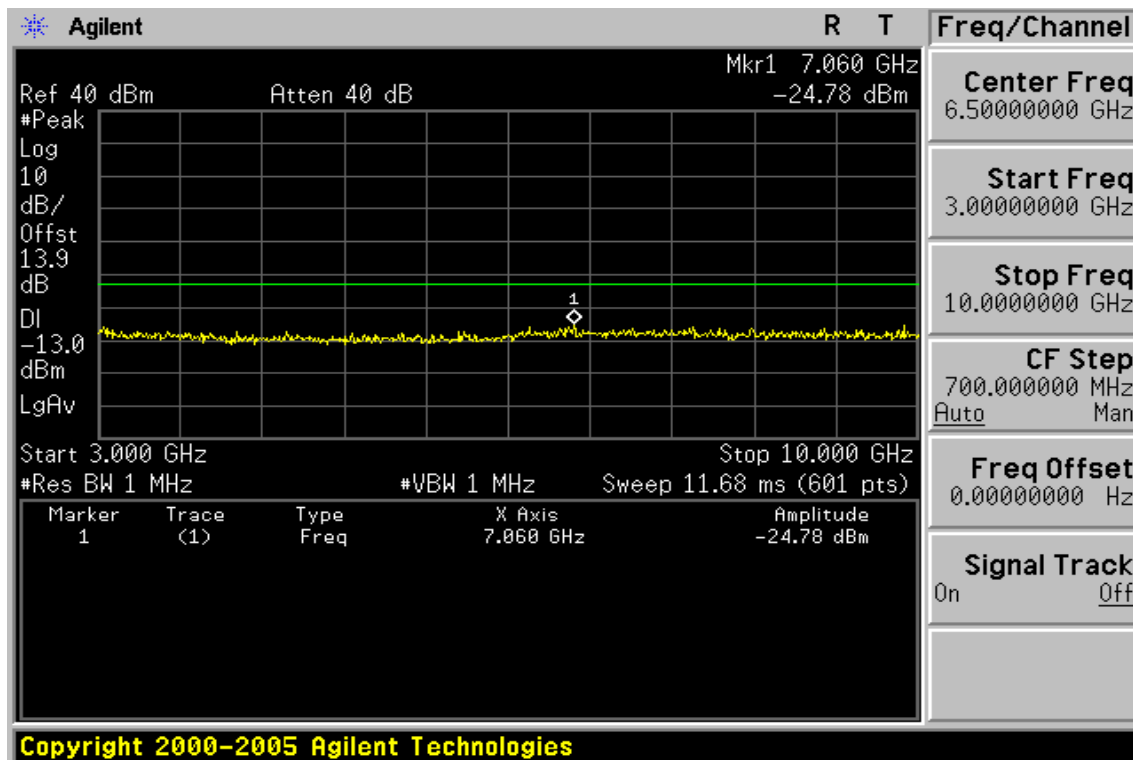
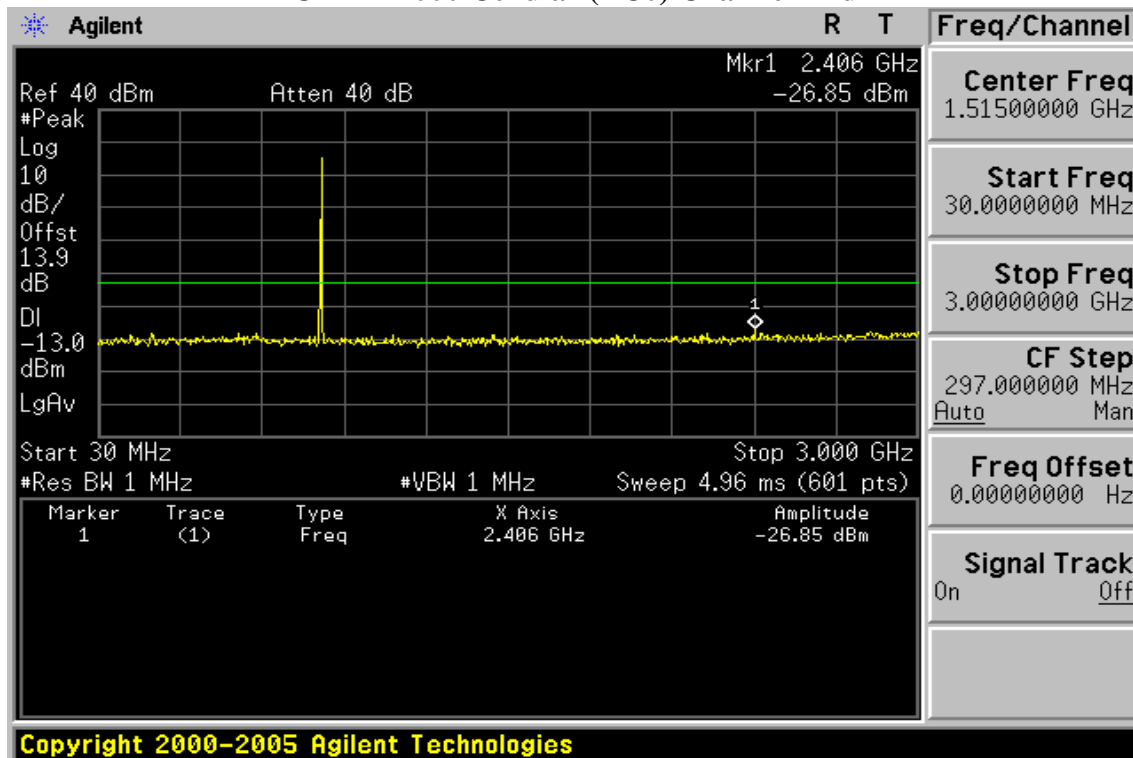
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Figure 9-2: Out of Band emission at antenna terminals –  
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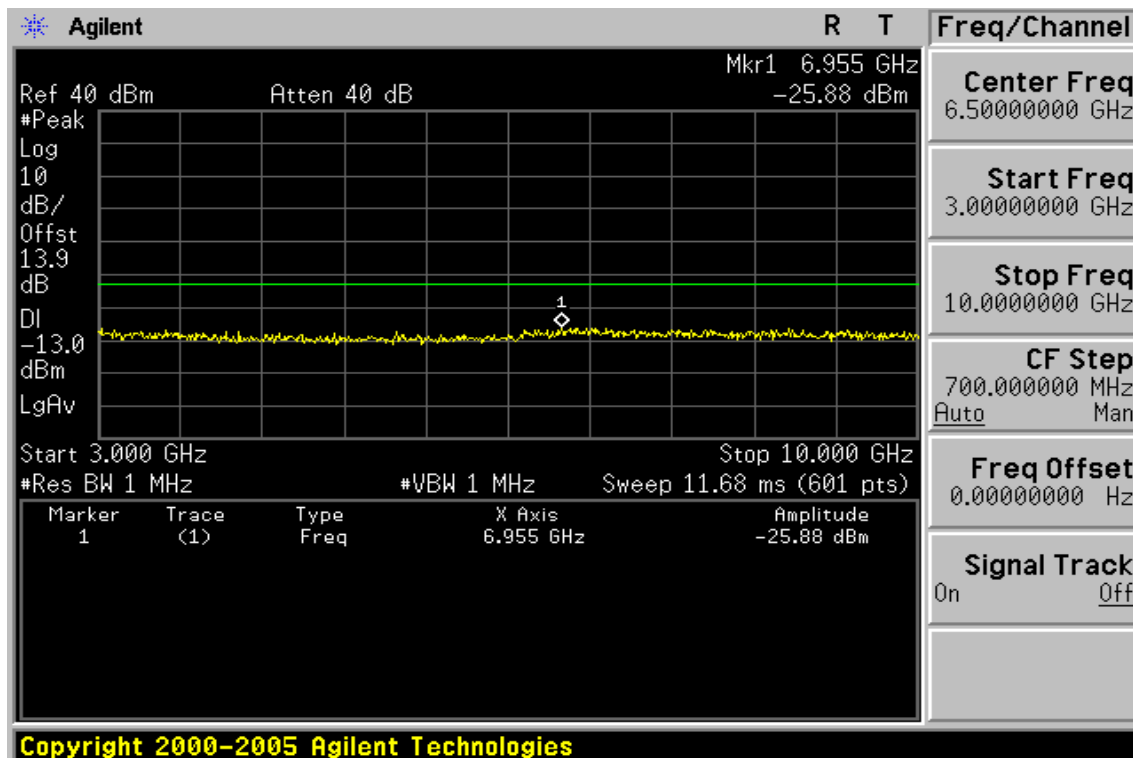
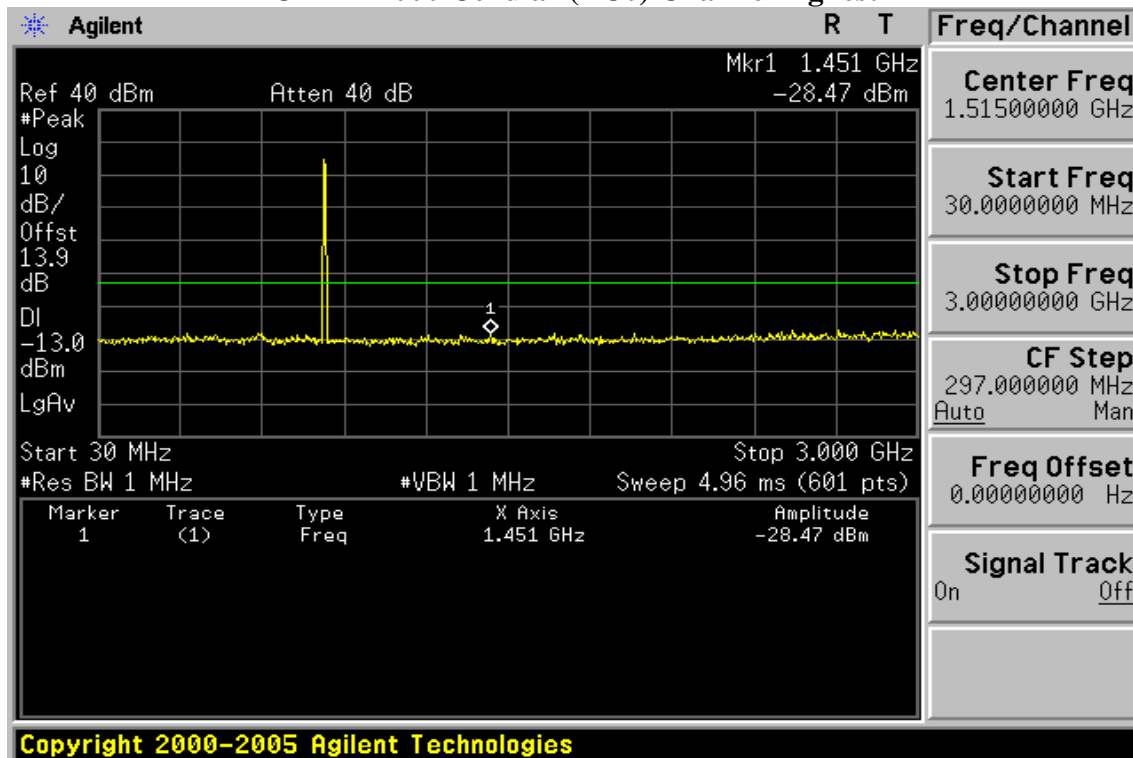
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**Figure 9-3: Out of Band emission at antenna terminals –  
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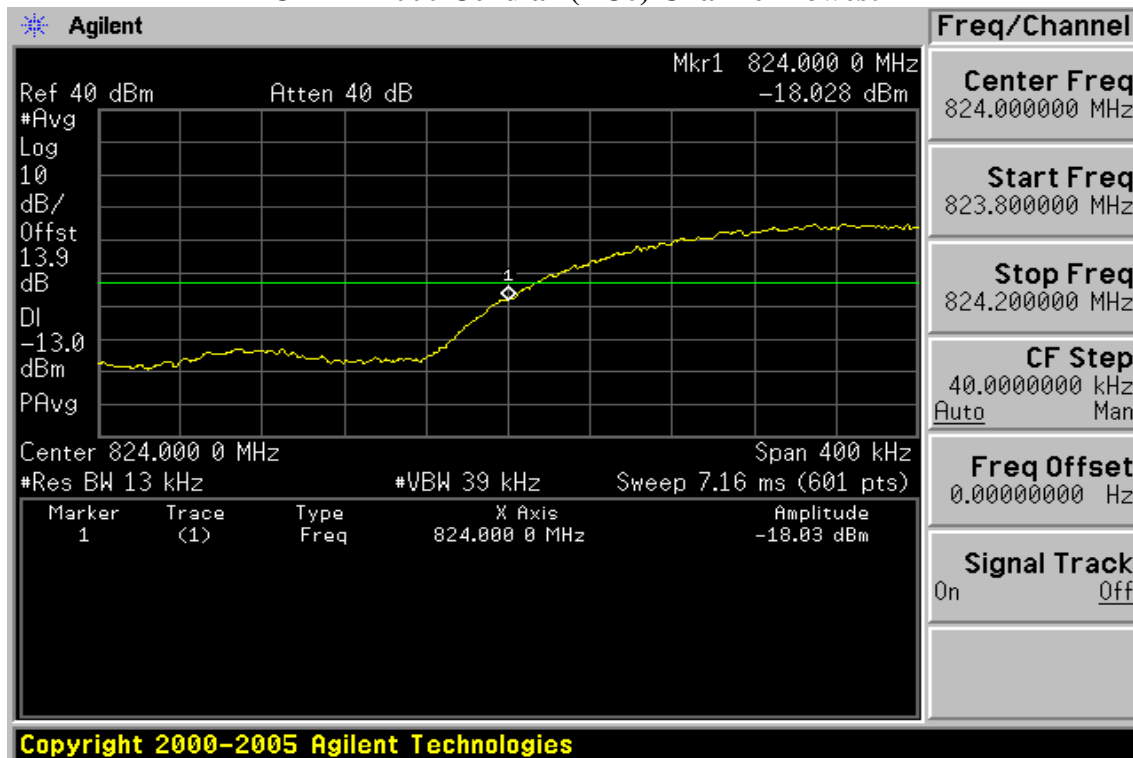
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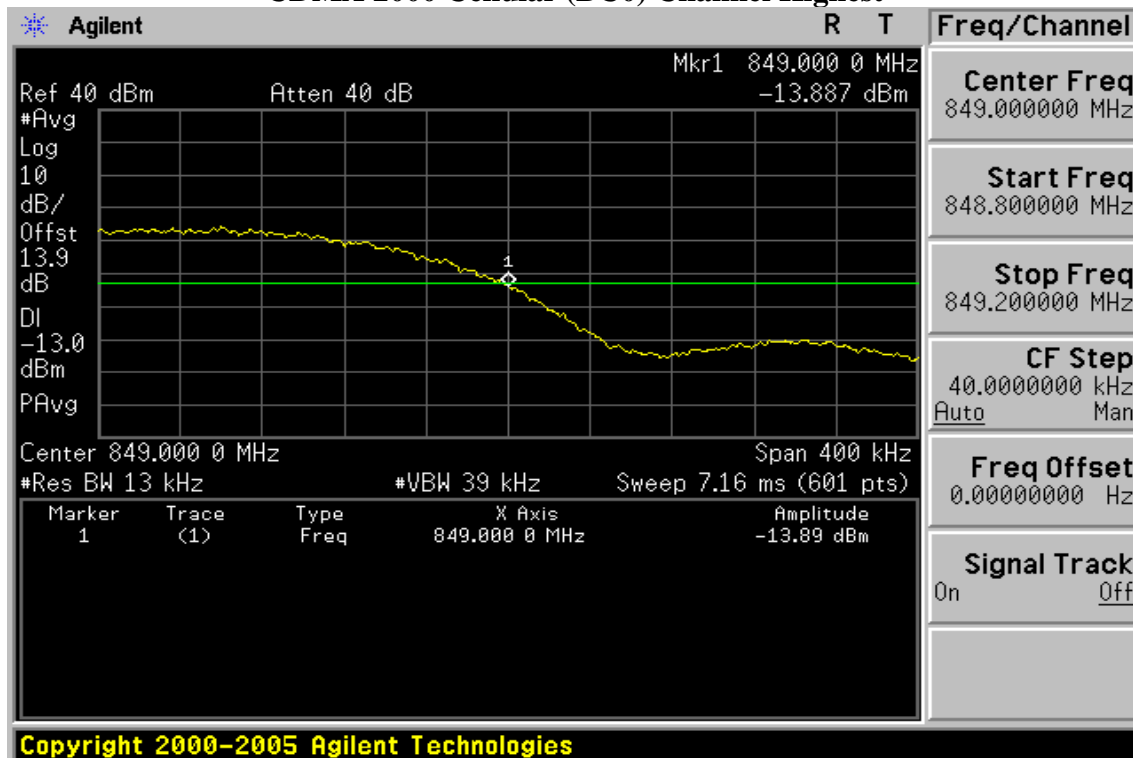
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**Figure 9-4: Band edge emission at antenna terminals –  
CDMA 2000 Cellular (BC0) Channel Lowest**



**Figure 9-5: Band edge emission at antenna terminals –  
CDMA 2000 Cellular (BC0) Channel Highest**



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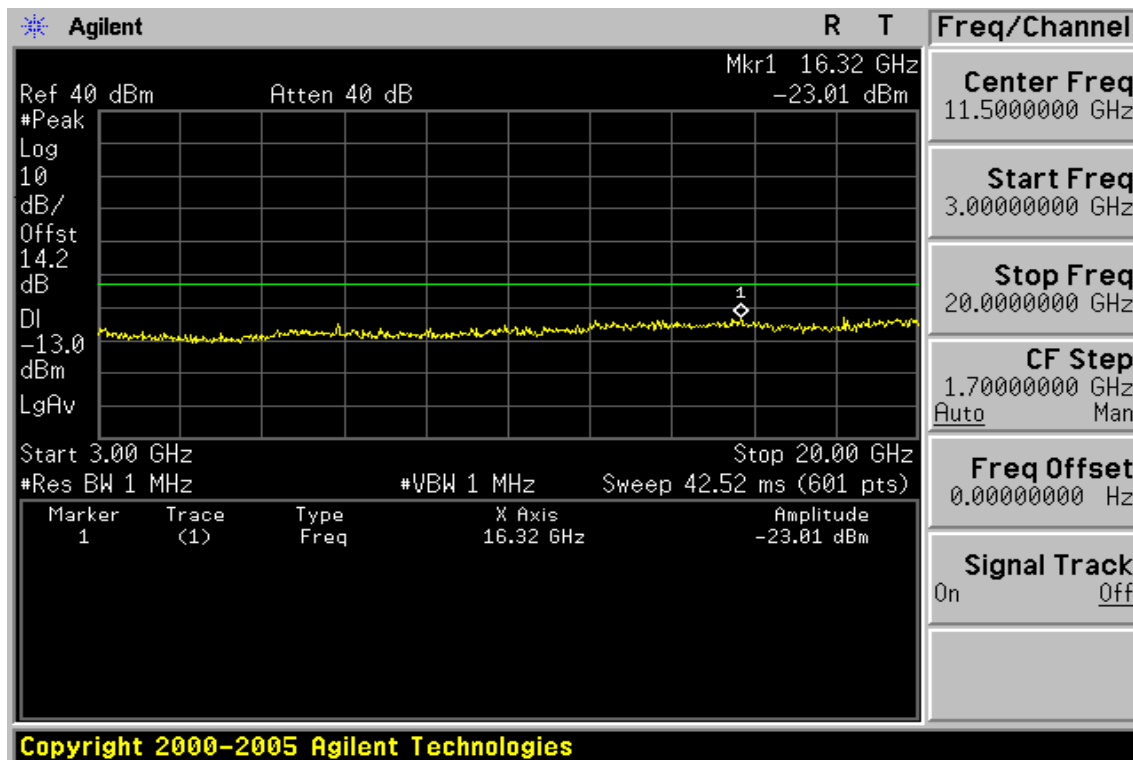
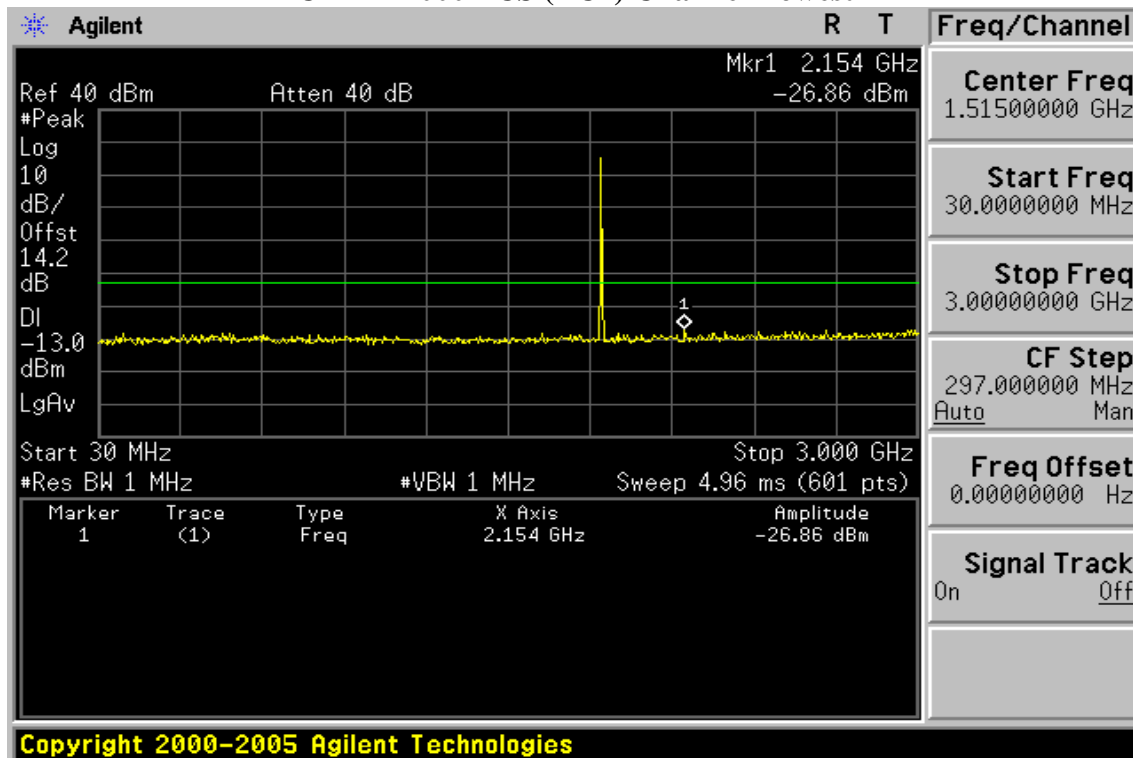
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Figure 9-6: Out of Band emission at antenna terminals –  
CDMA 2000 PCS (BC1) Channel Lowest



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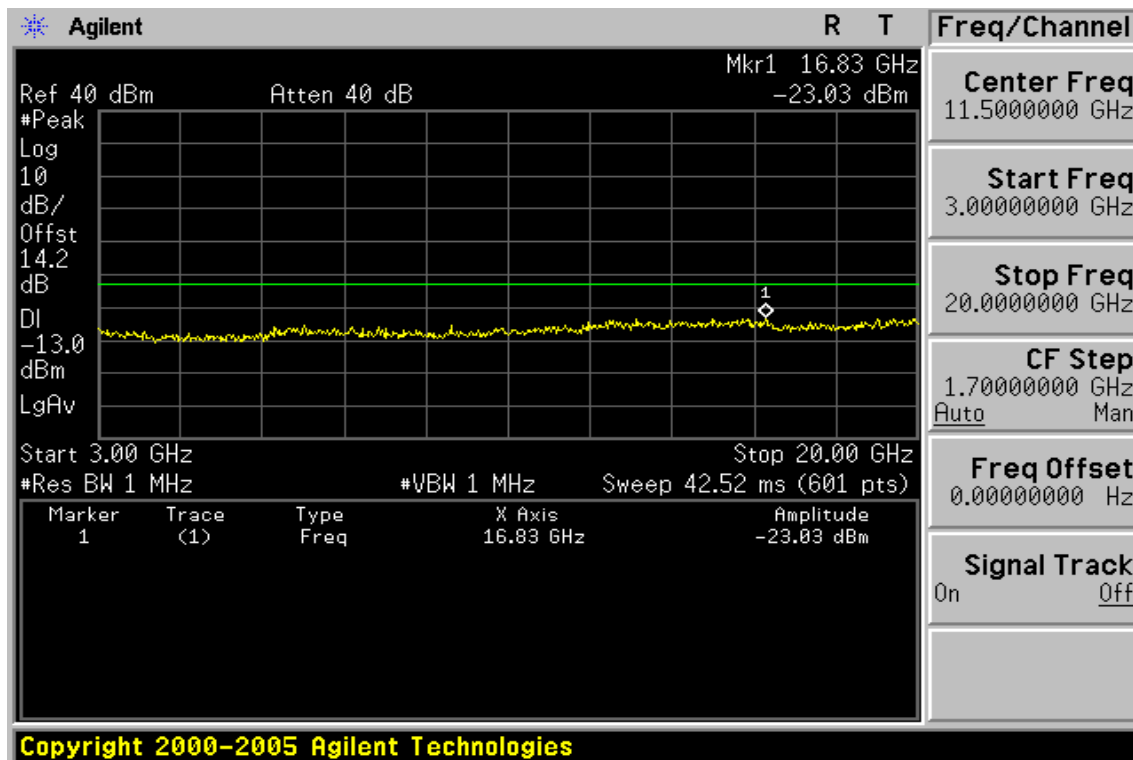
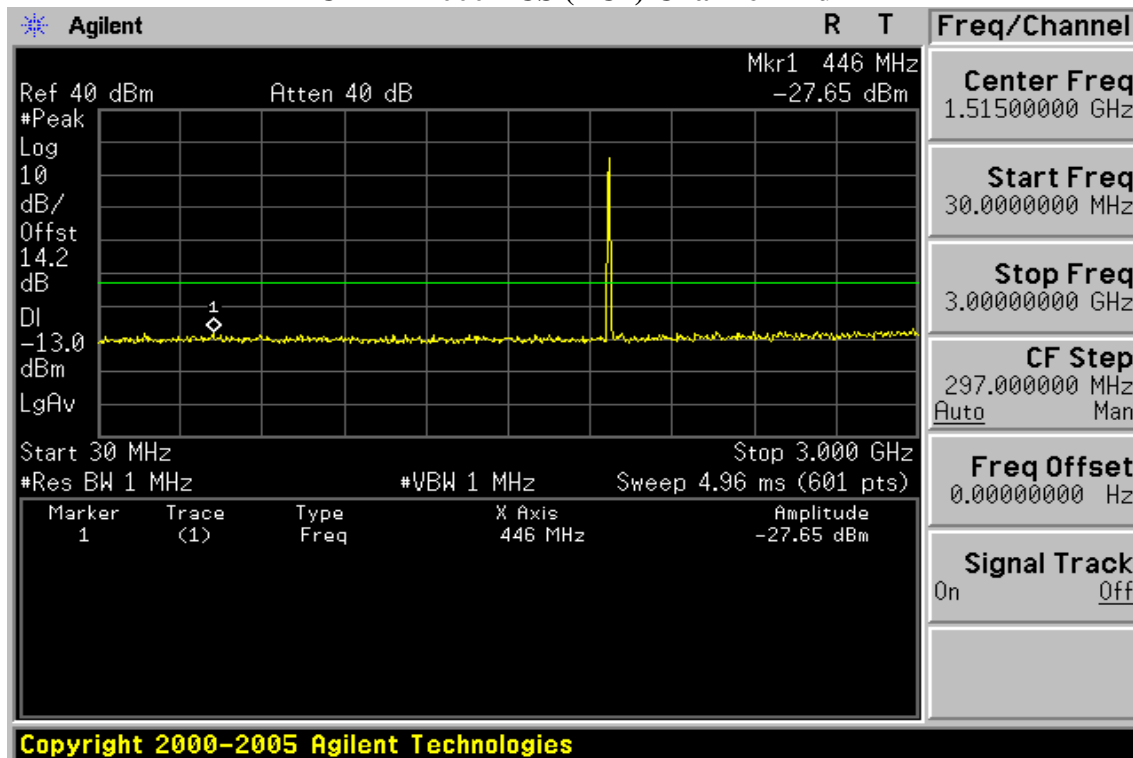
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Figure 9-7: Out of Band emission at antenna terminals –  
CDMA 2000 PCS (BC1) Channel Mid



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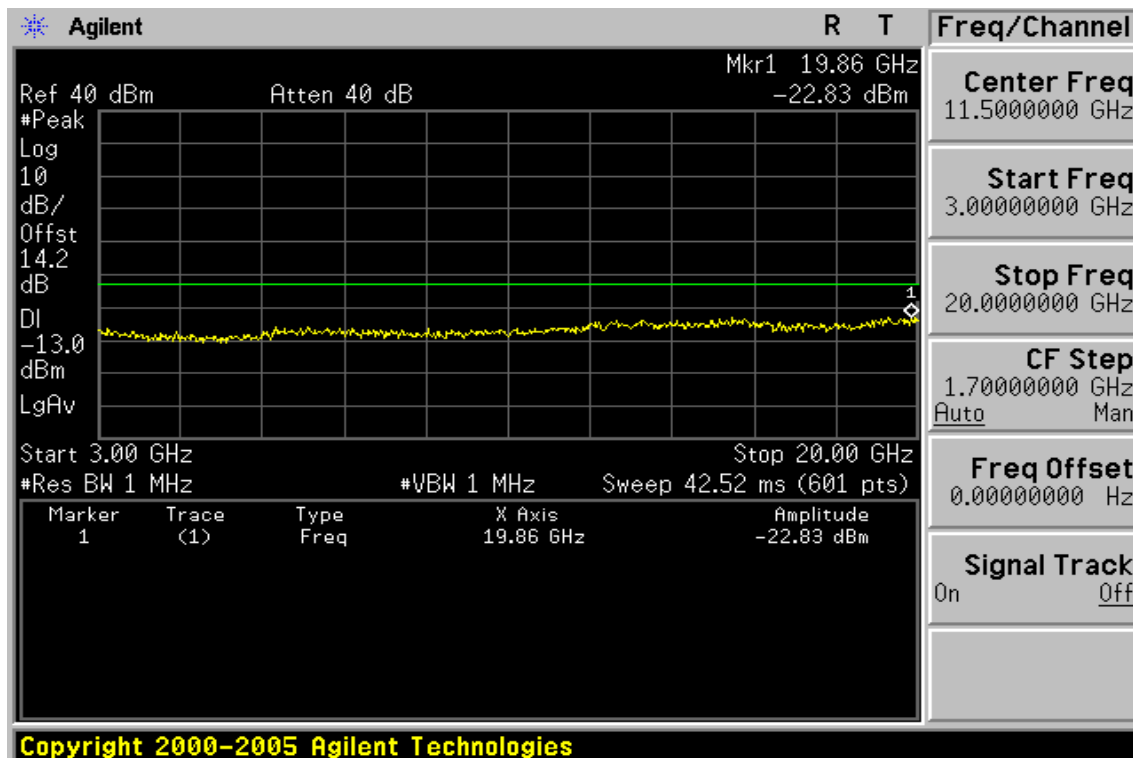
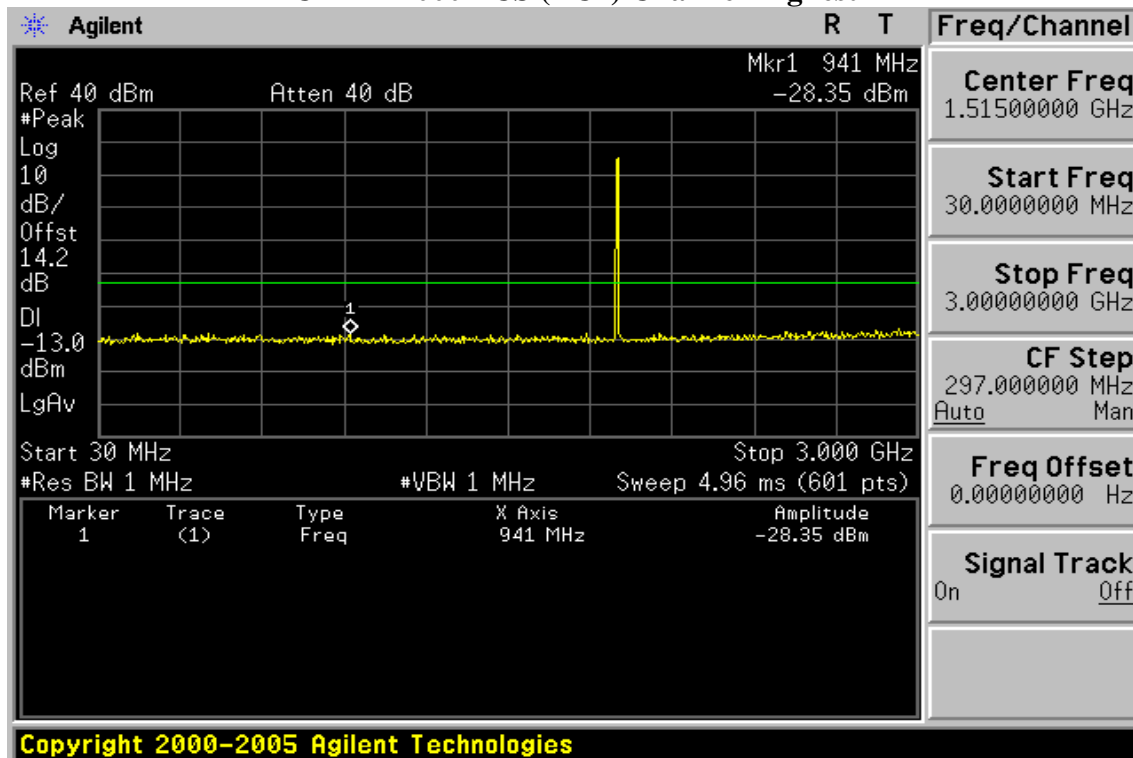
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**Figure 9-8: Out of Band emission at antenna terminals –  
CDMA 2000 PCS (BC1) Channel Highest**



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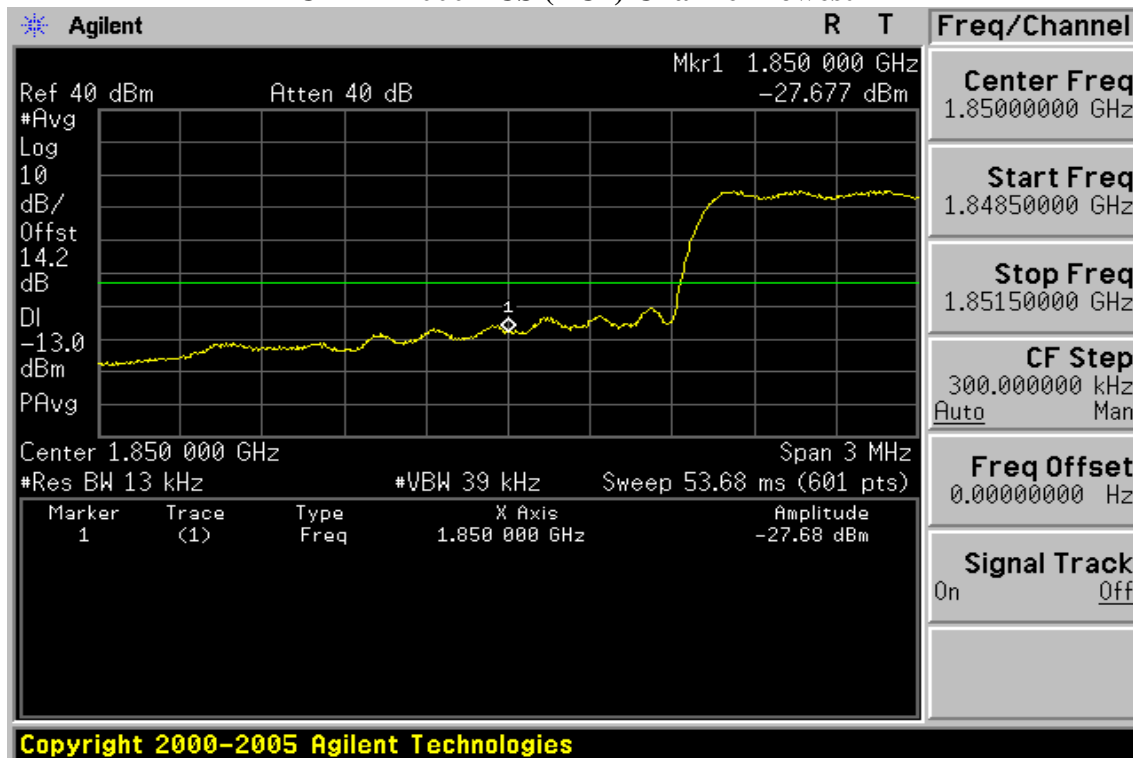
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**Figure 9-9: Band edge emission at antenna terminals –  
CDMA 2000 PCS (BC1) Channel Lowest**



**Figure 9-10: Band edge emission at antenna terminals –  
CDMA 2000 PCS (BC1) Channel Highest**



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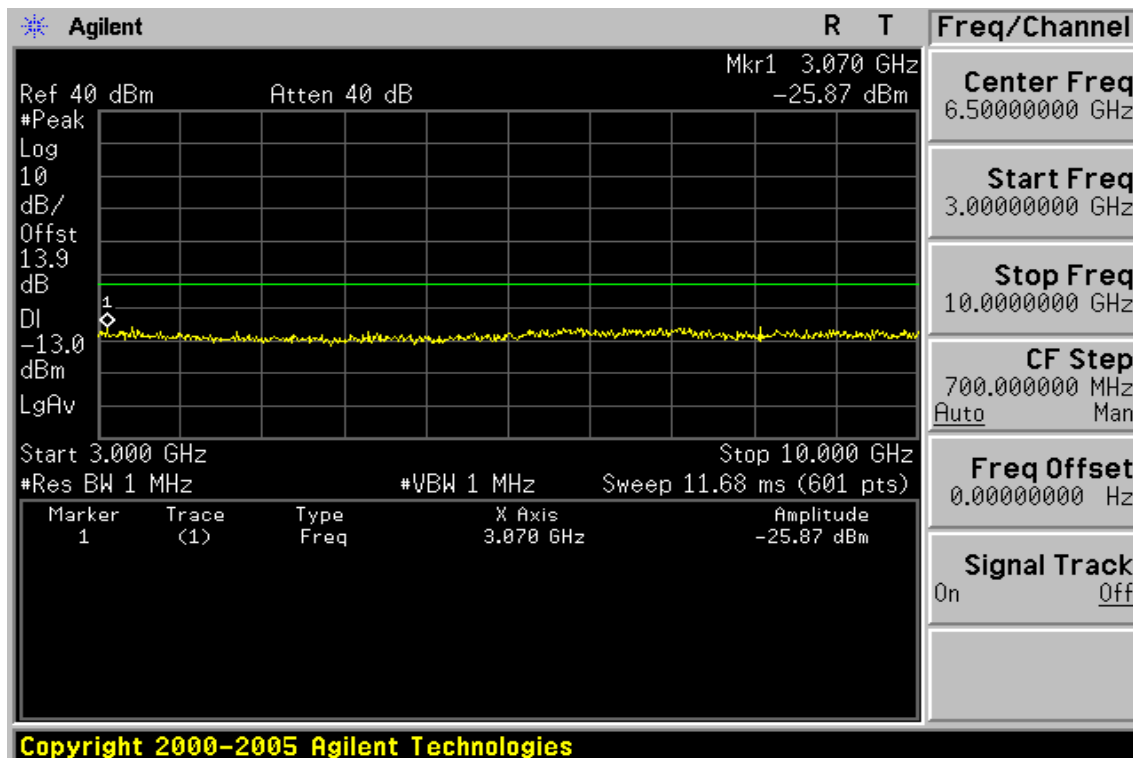
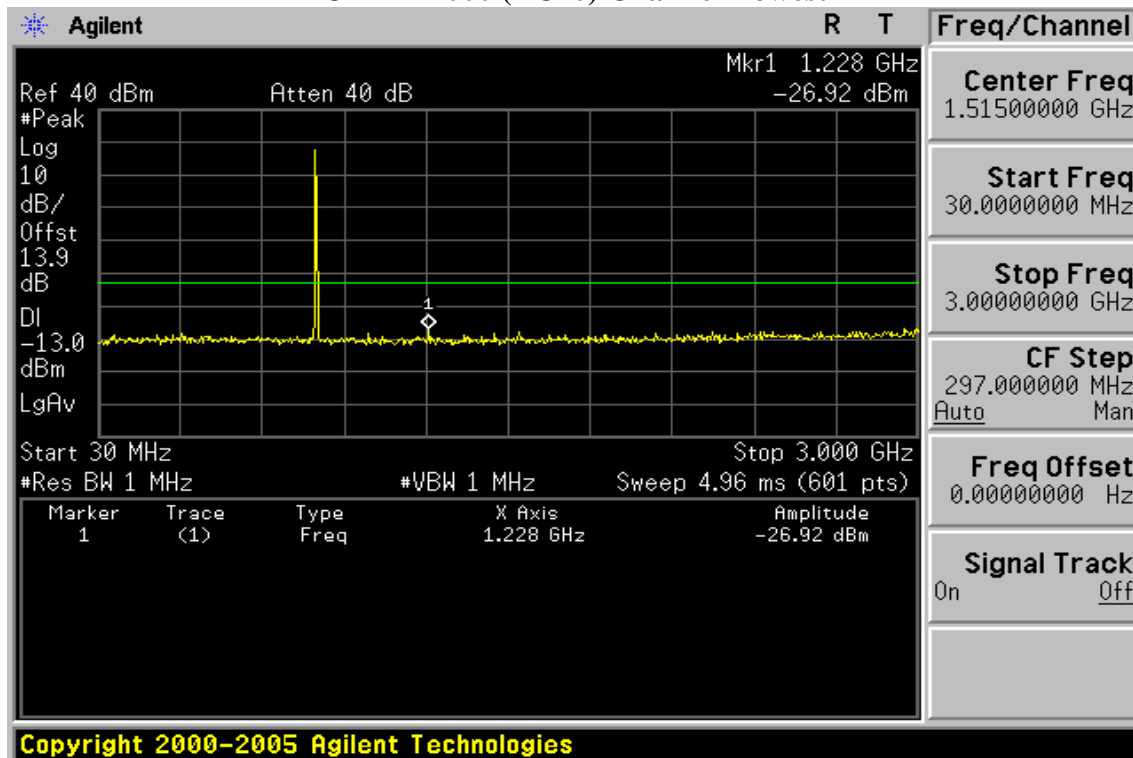
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**Figure 9-11: Out of Band emission at antenna terminals –  
CDMA 2000 (BC10) Channel Lowest**



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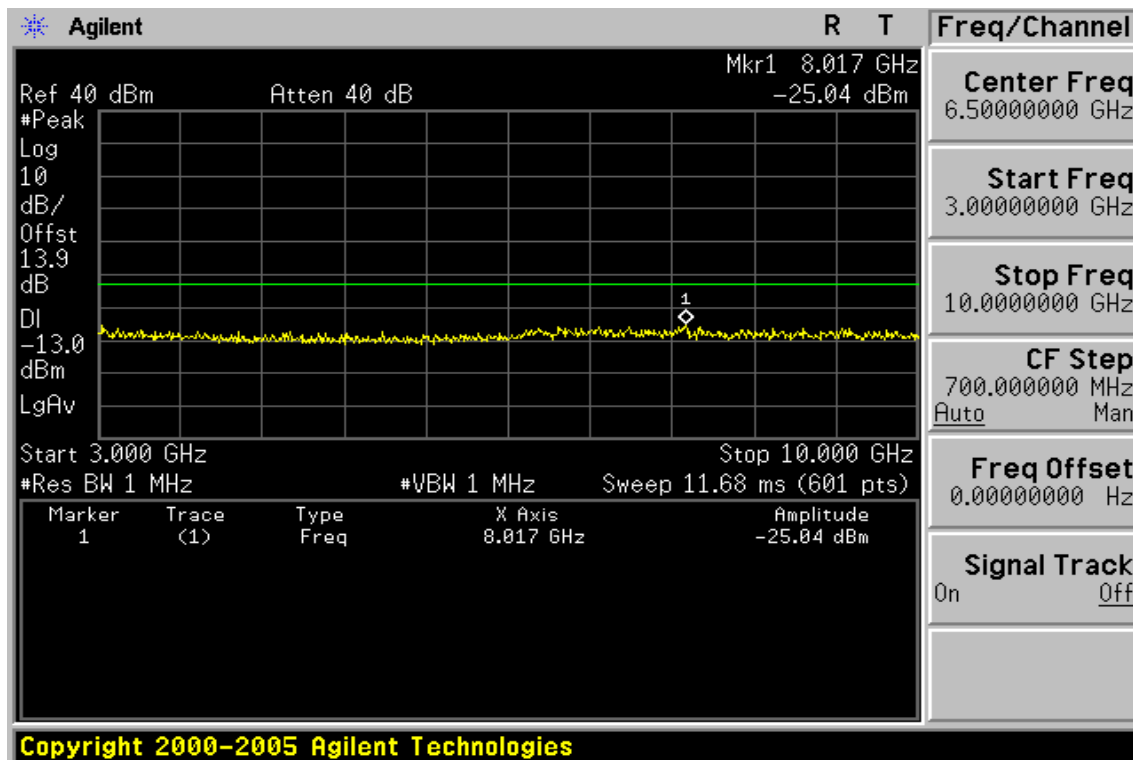
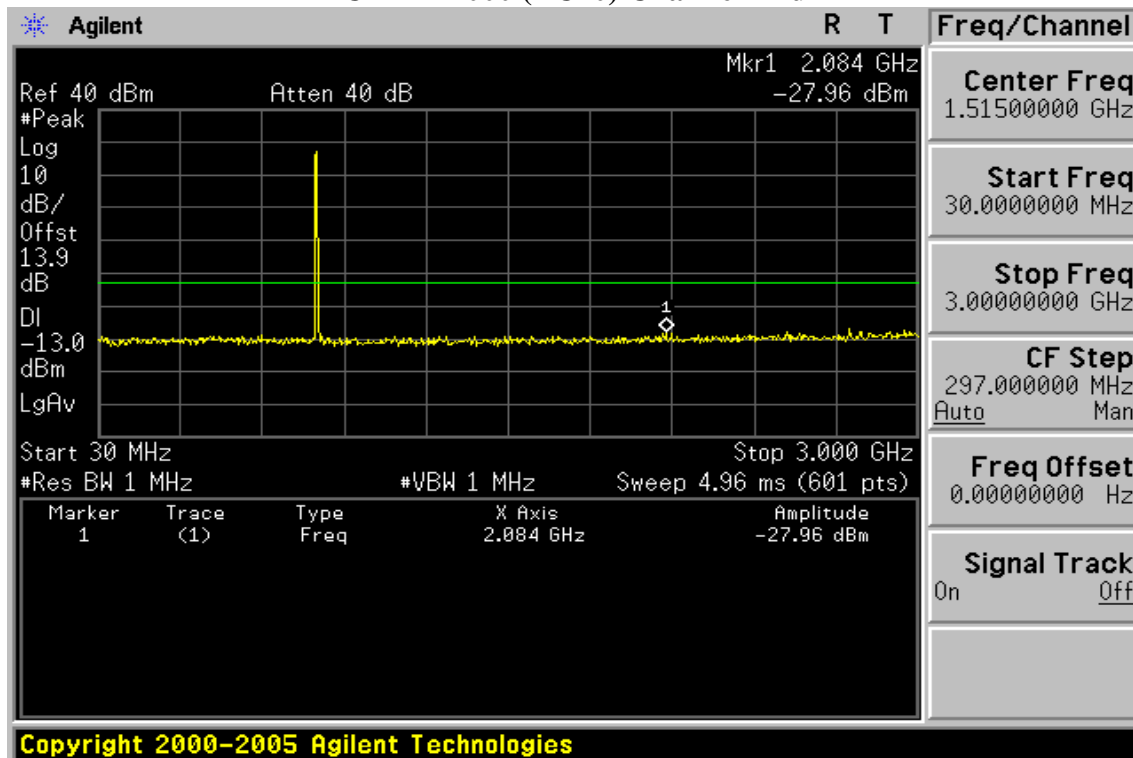
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**Figure 9-12: Out of Band emission at antenna terminals –  
CDMA 2000 (BC10) Channel Mid**



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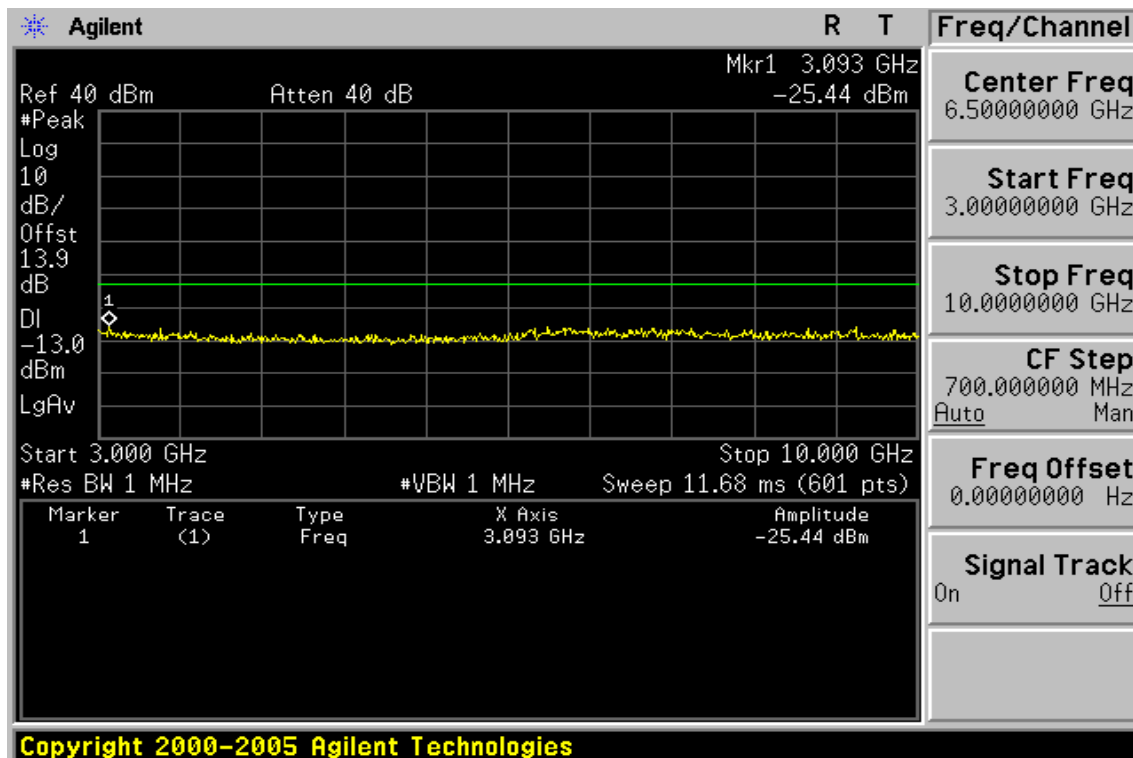
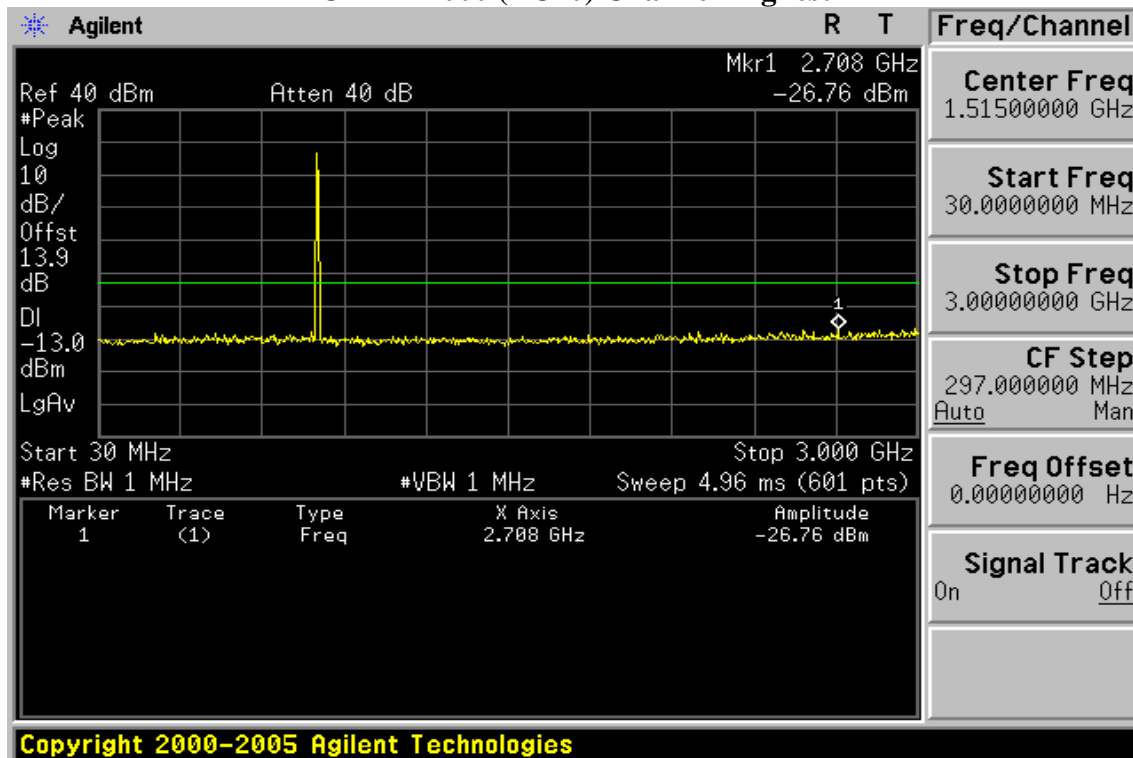
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**Figure 9-13: Out of Band emission at antenna terminals –  
CDMA 2000 (BC10) Channel Highest**



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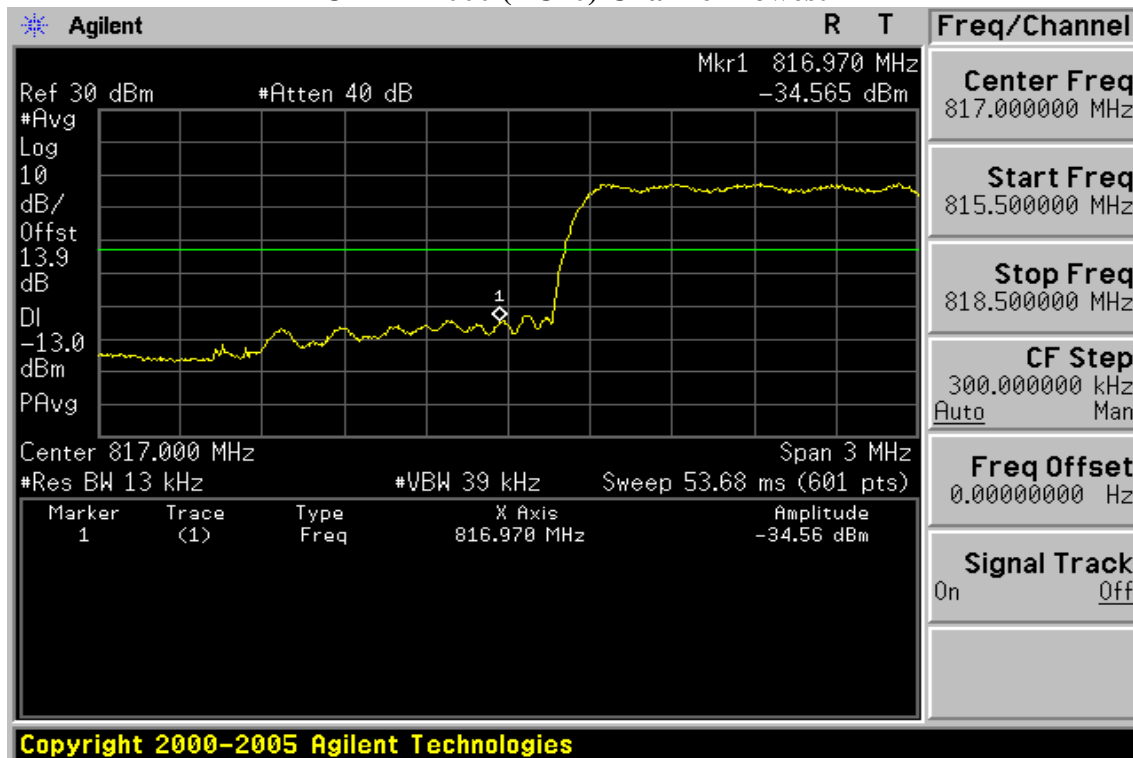
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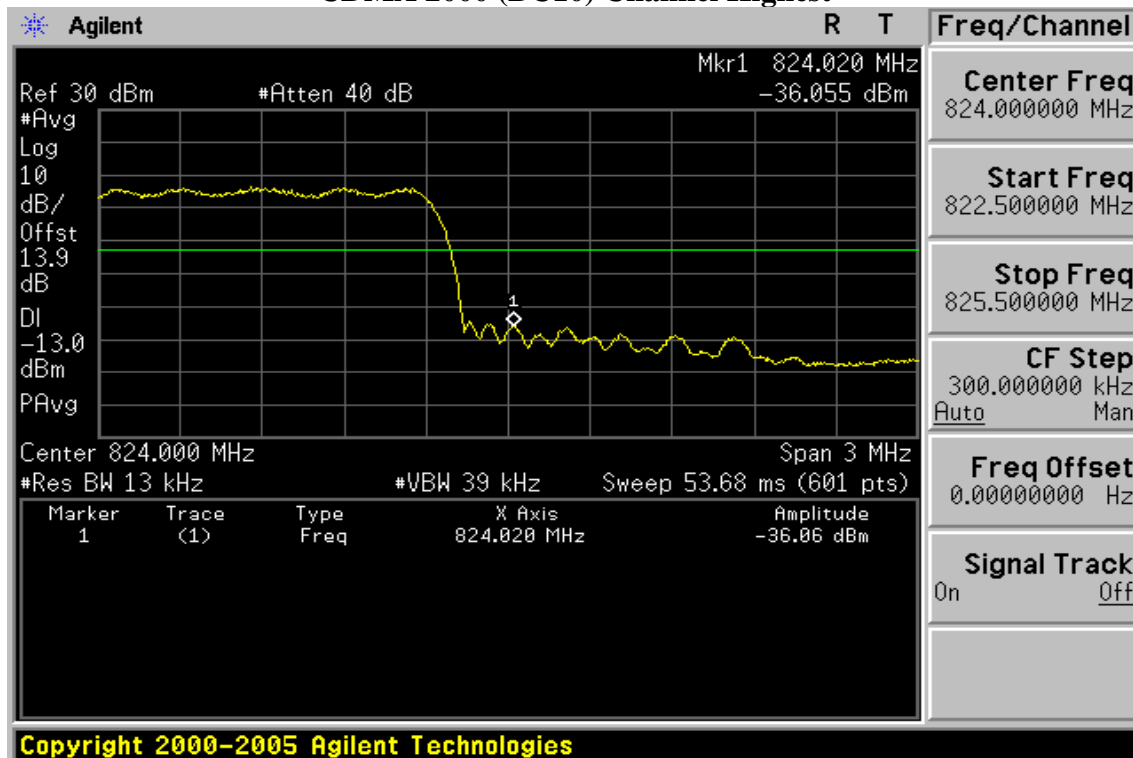
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**Figure 9-14: Band edge emission at antenna terminals –  
CDMA 2000 (BC10) Channel Lowest**



**Figure 9-15: Band edge emission at antenna terminals –  
CDMA 2000 (BC10) Channel Highest**



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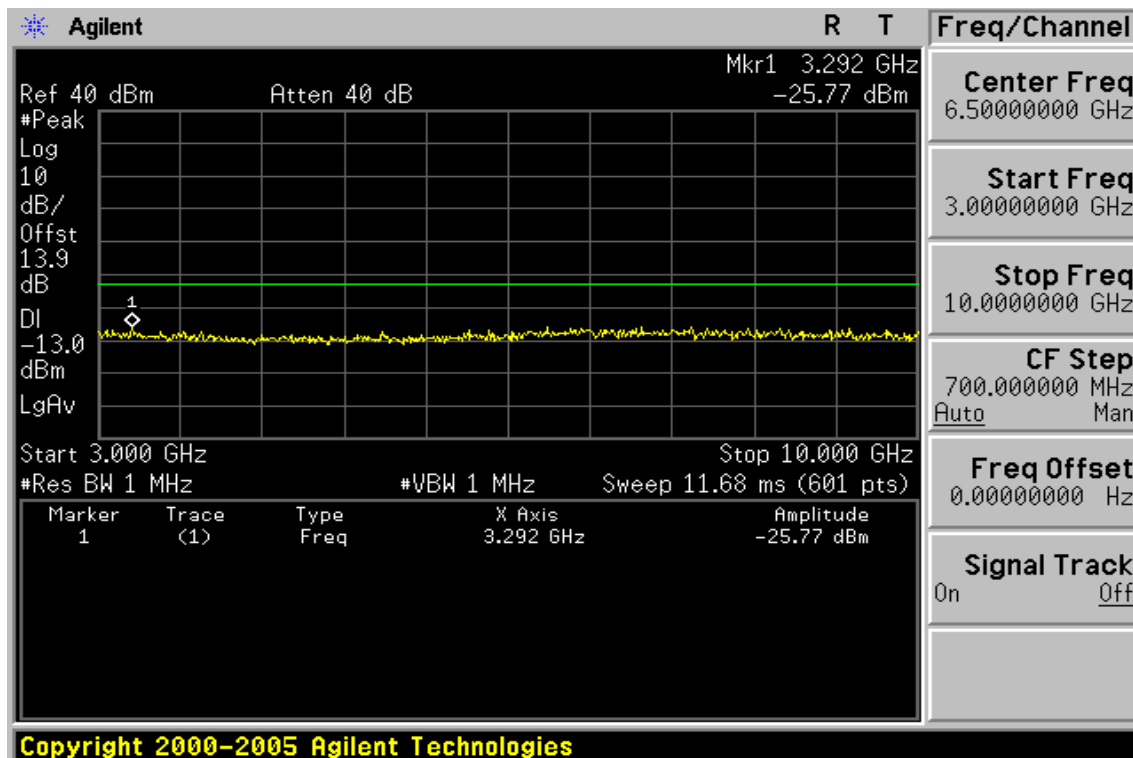
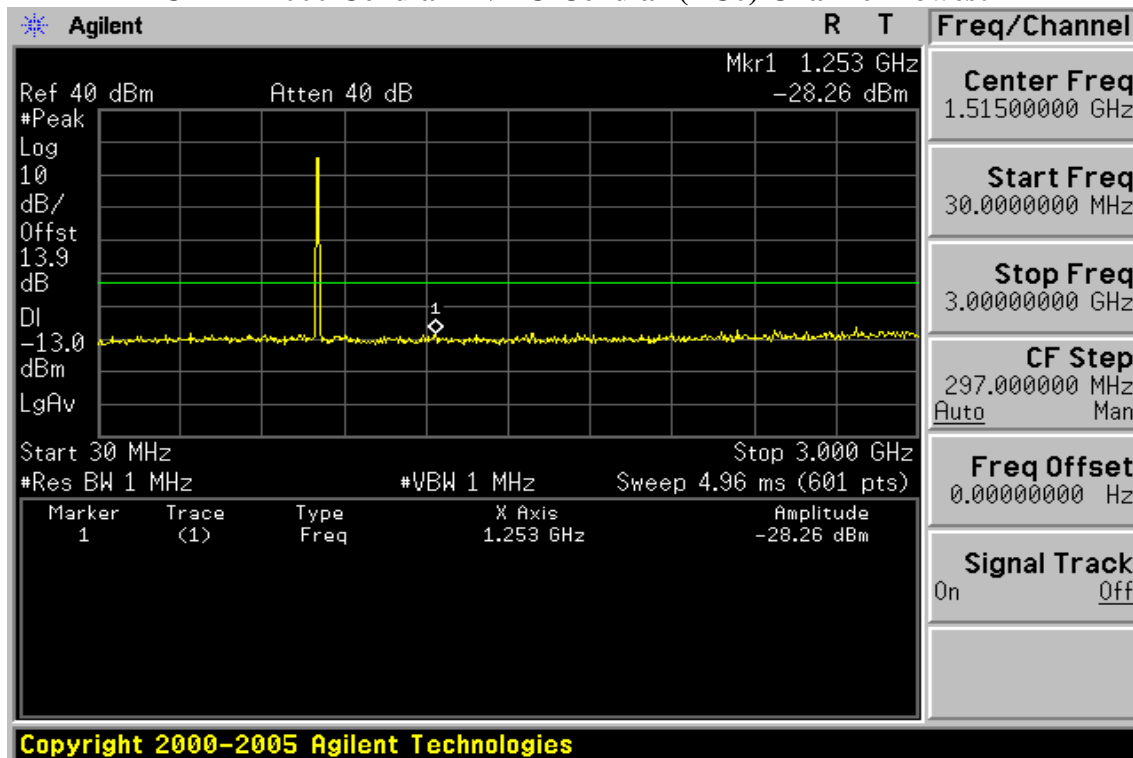
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**Figure 9-16: Out of Band emission at antenna terminals –  
CDMA 2000 Cellular EVDO Cellular (BC0) Channel Lowest**



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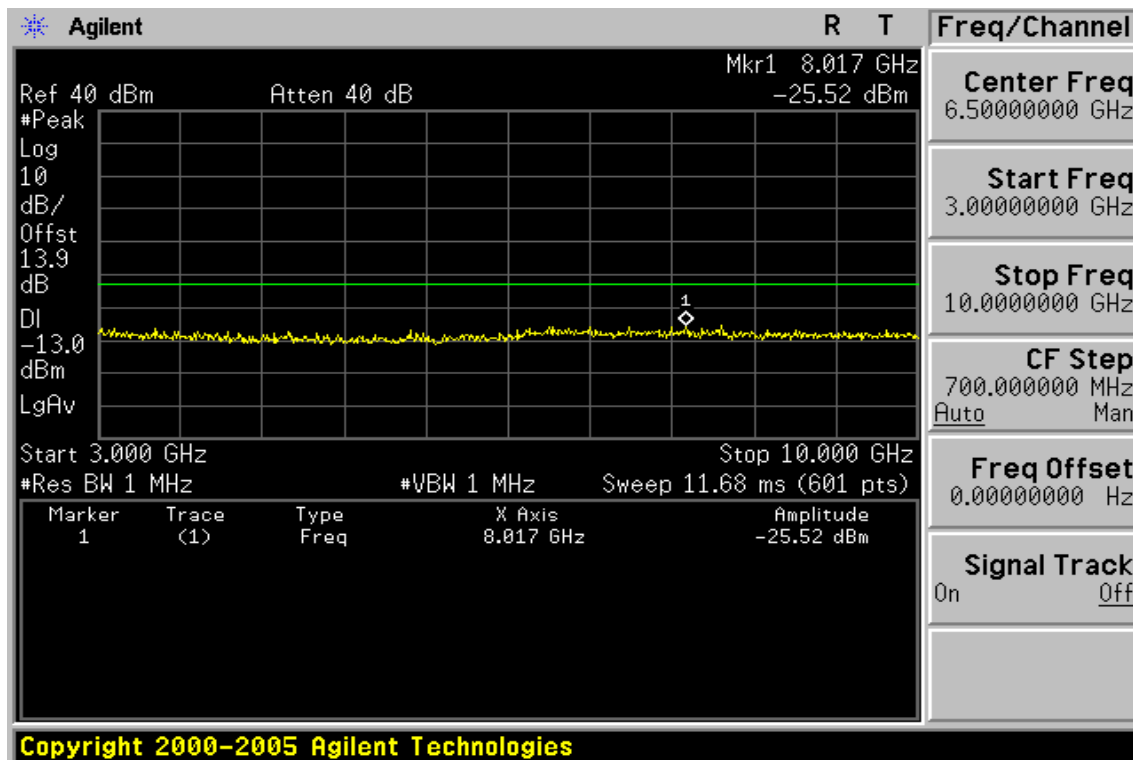
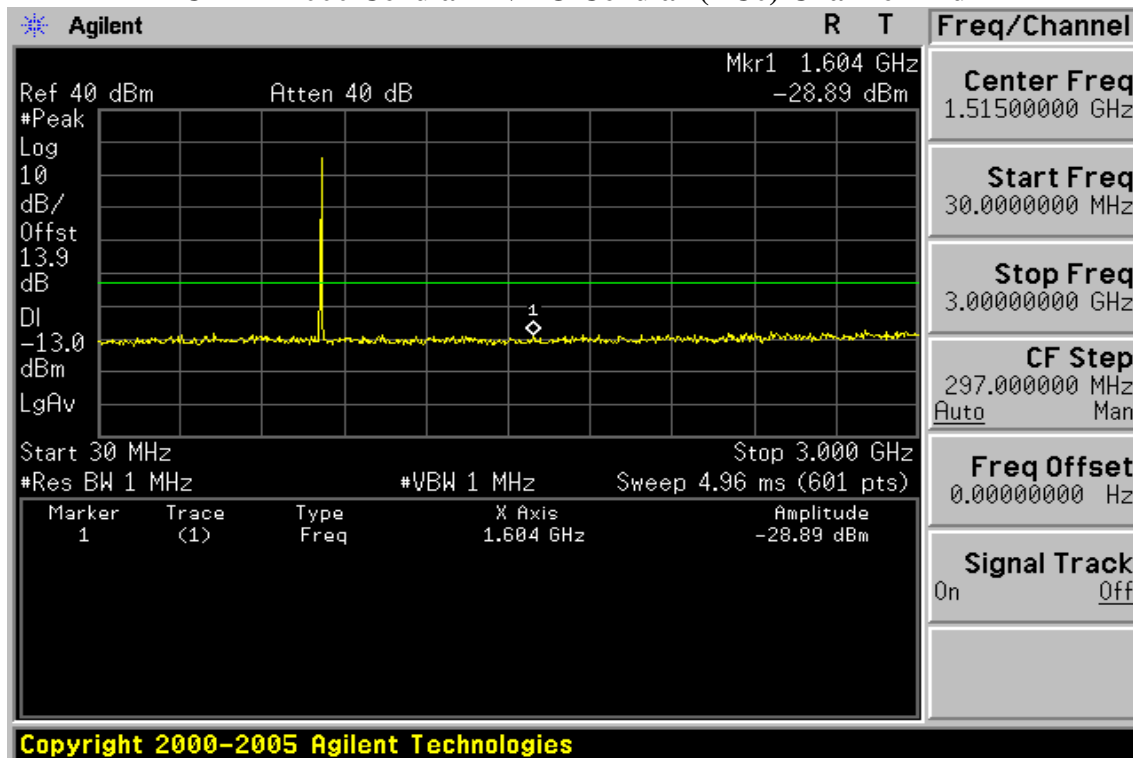
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**Figure 9-17: Out of Band emission at antenna terminals –  
CDMA 2000 Cellular EVDO Cellular (BC0) Channel Mid**



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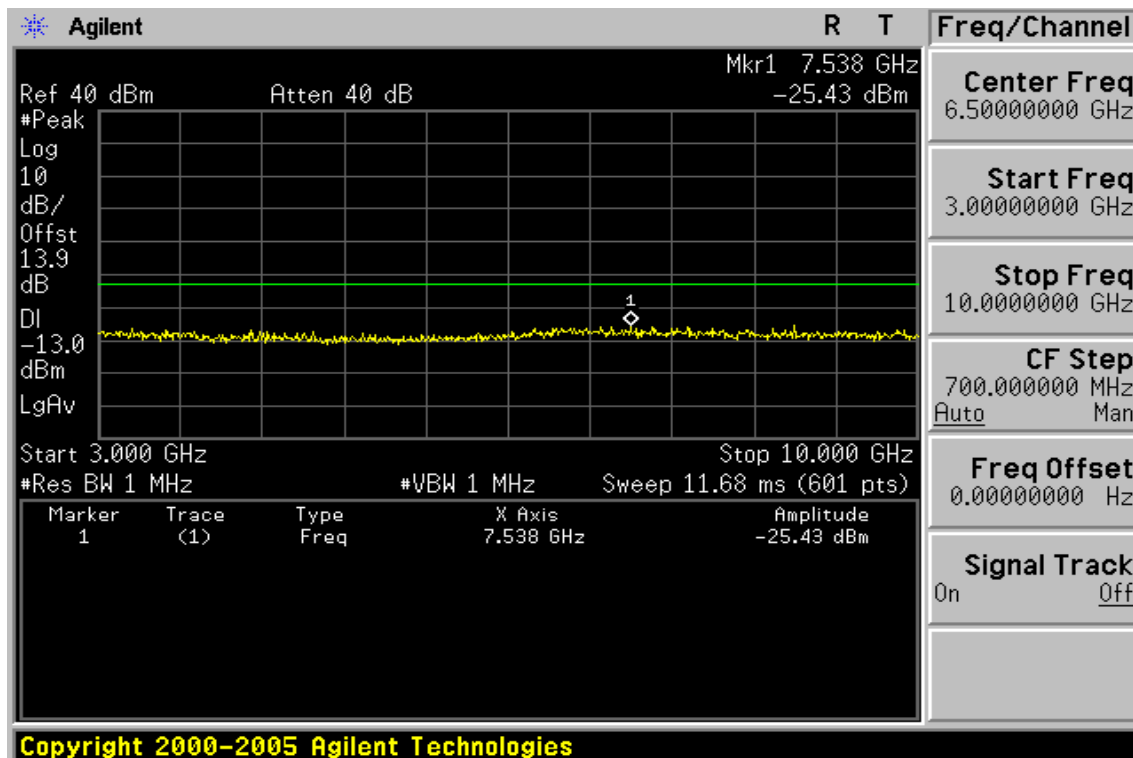
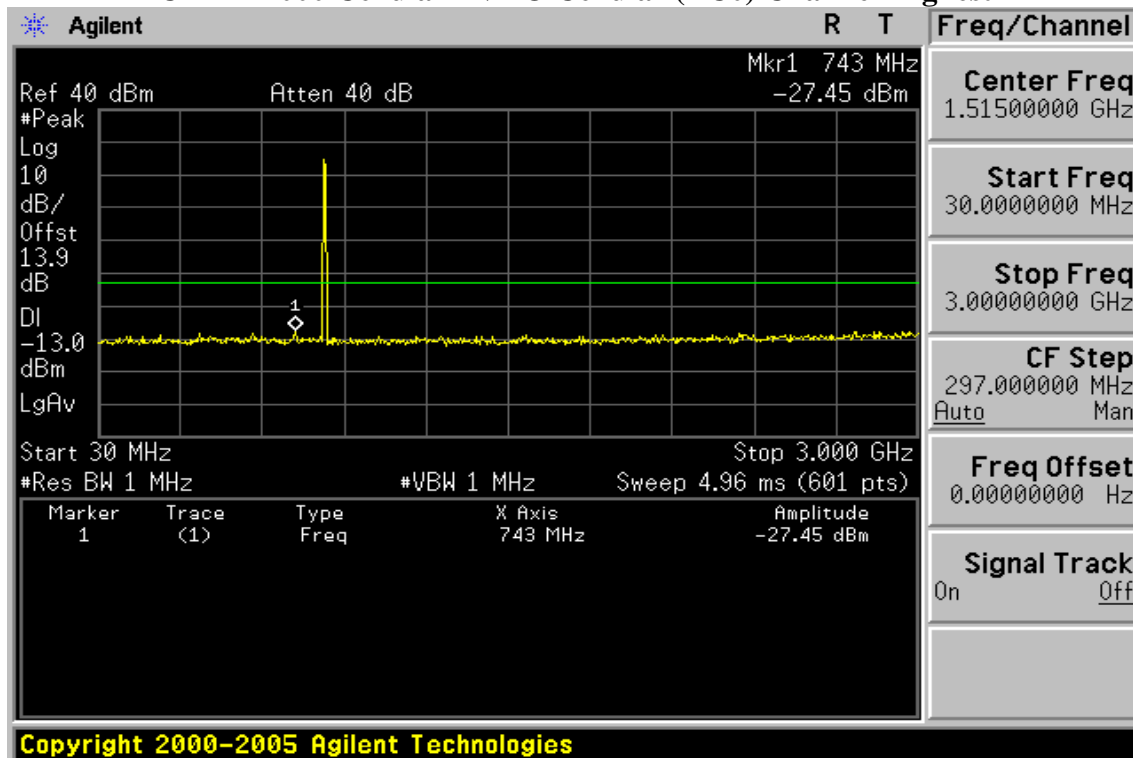
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**Figure 9-18: Out of Band emission at antenna terminals –  
CDMA 2000 Cellular EVDO Cellular (BC0) Channel Highest**



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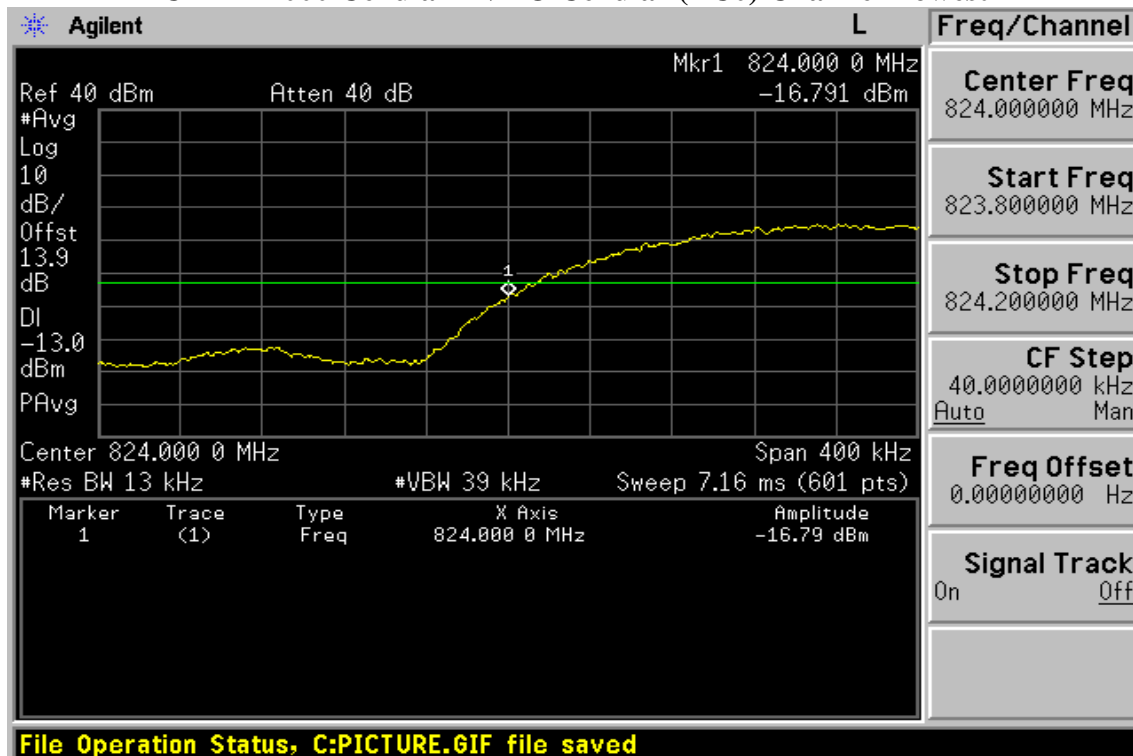
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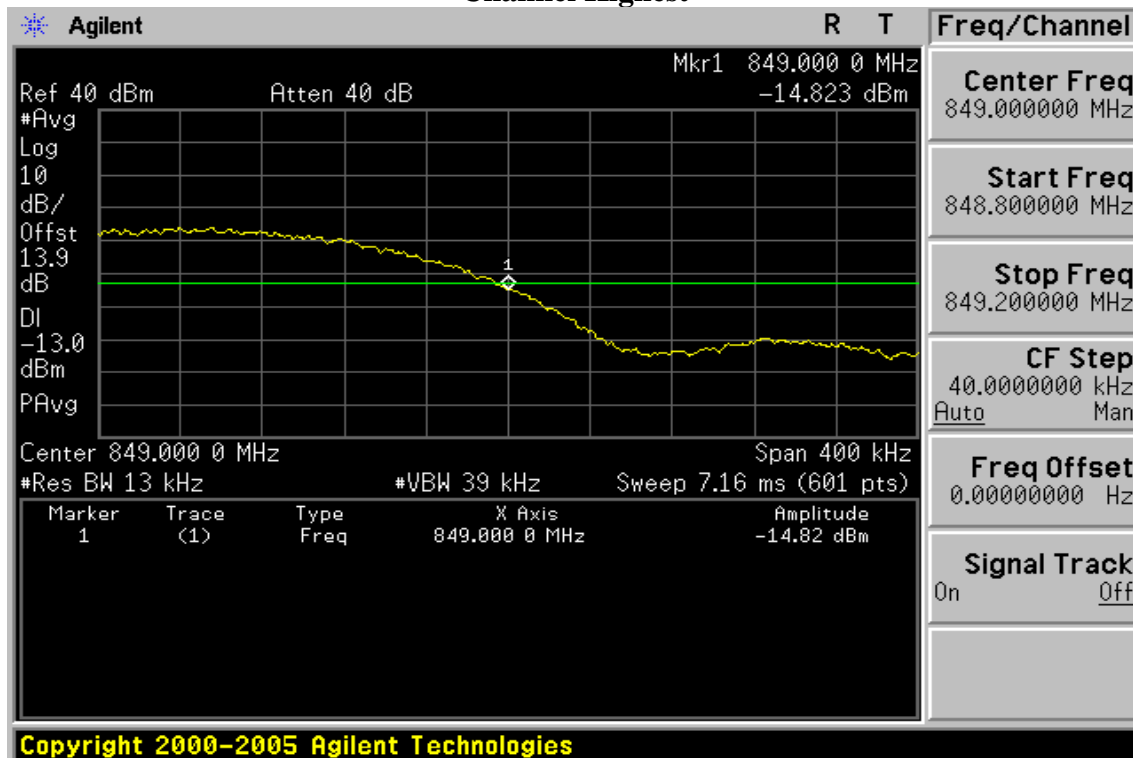
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**Figure 9-19: Band edge emission at antenna terminals –  
CDMA 2000 Cellular EVDO Cellular (BC0) Channel Lowest**



**Figure 9-20: Band edge emission at antenna terminals –CDMA 2000 Cellular EVDO Cellular (BC0)  
Channel Highest**



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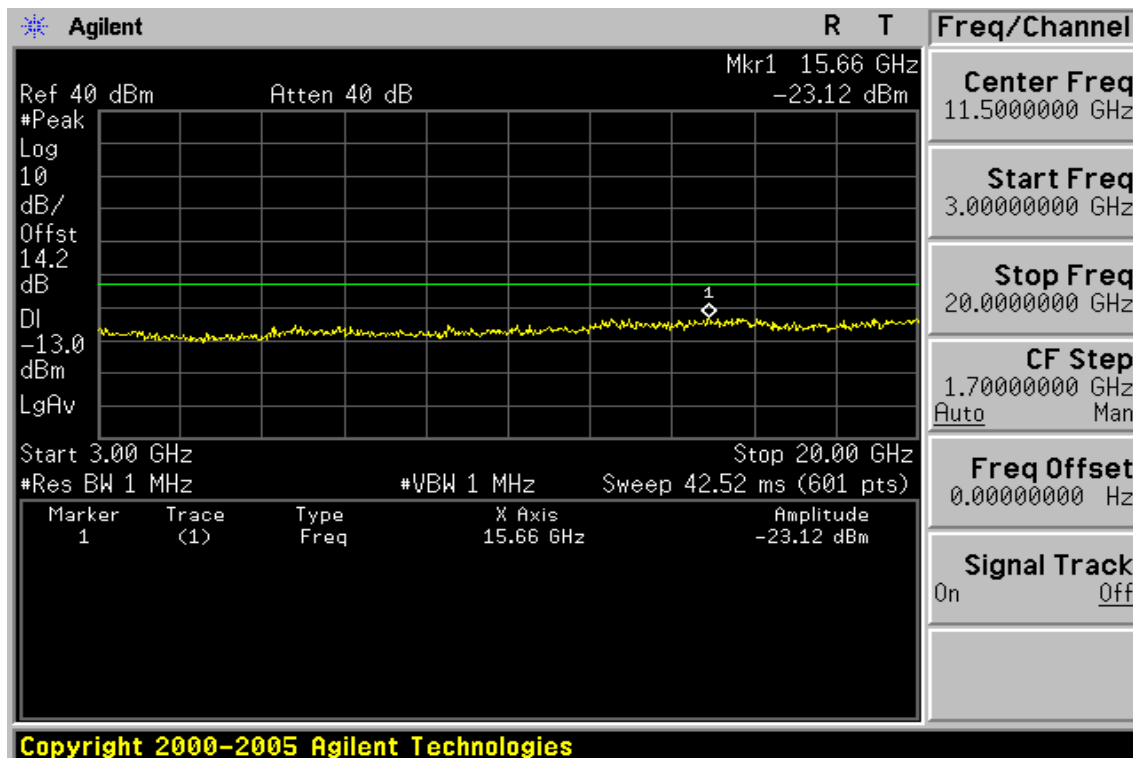
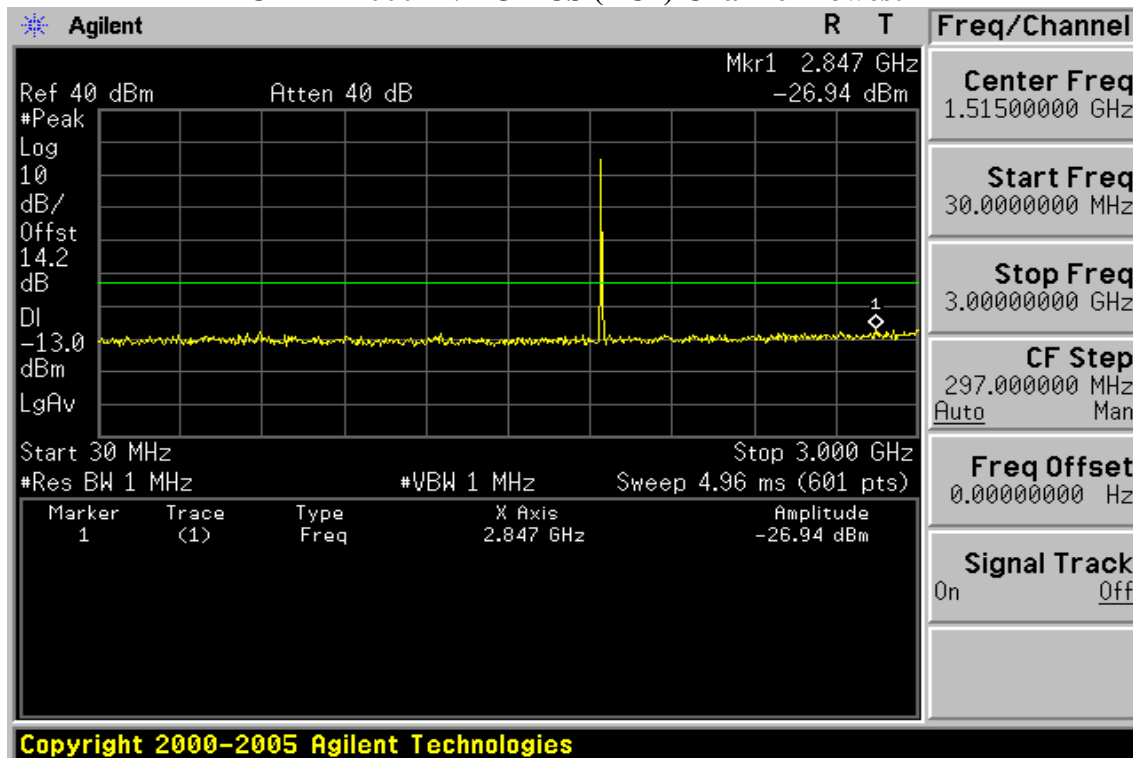
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**Figure 9-21: Out of Band emission at antenna terminals –  
CDMA 2000 EVDO PCS (BC1) Channel Lowest**



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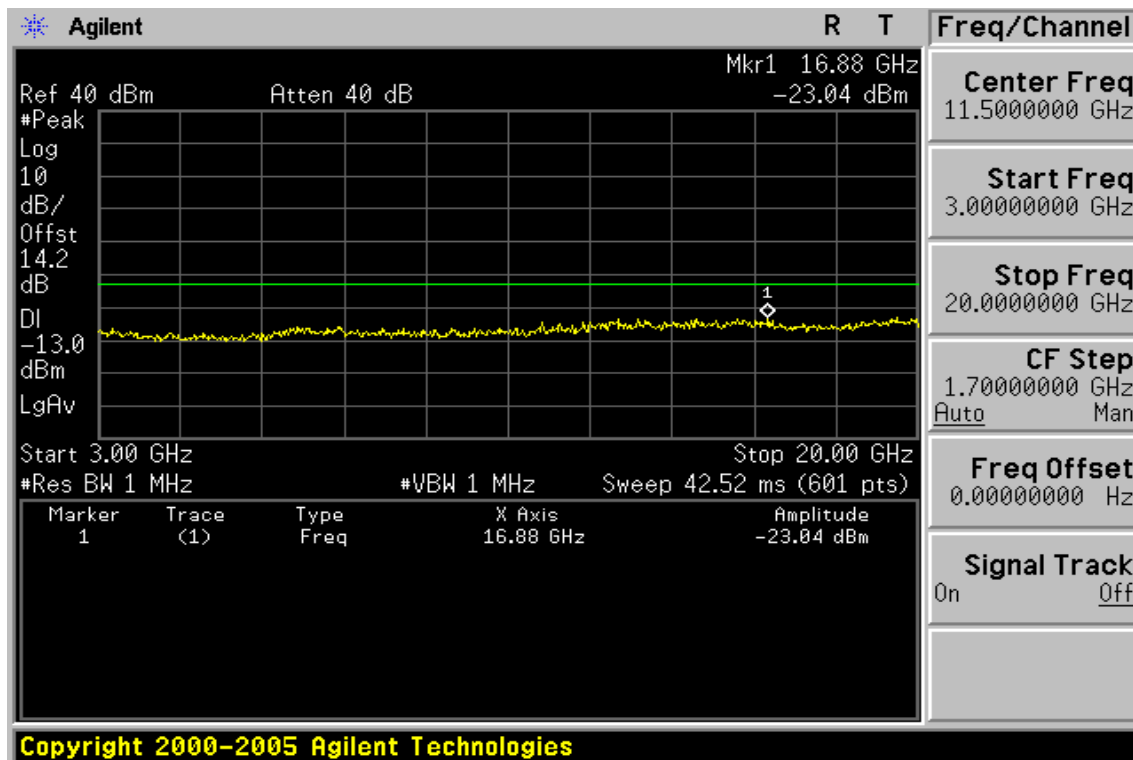
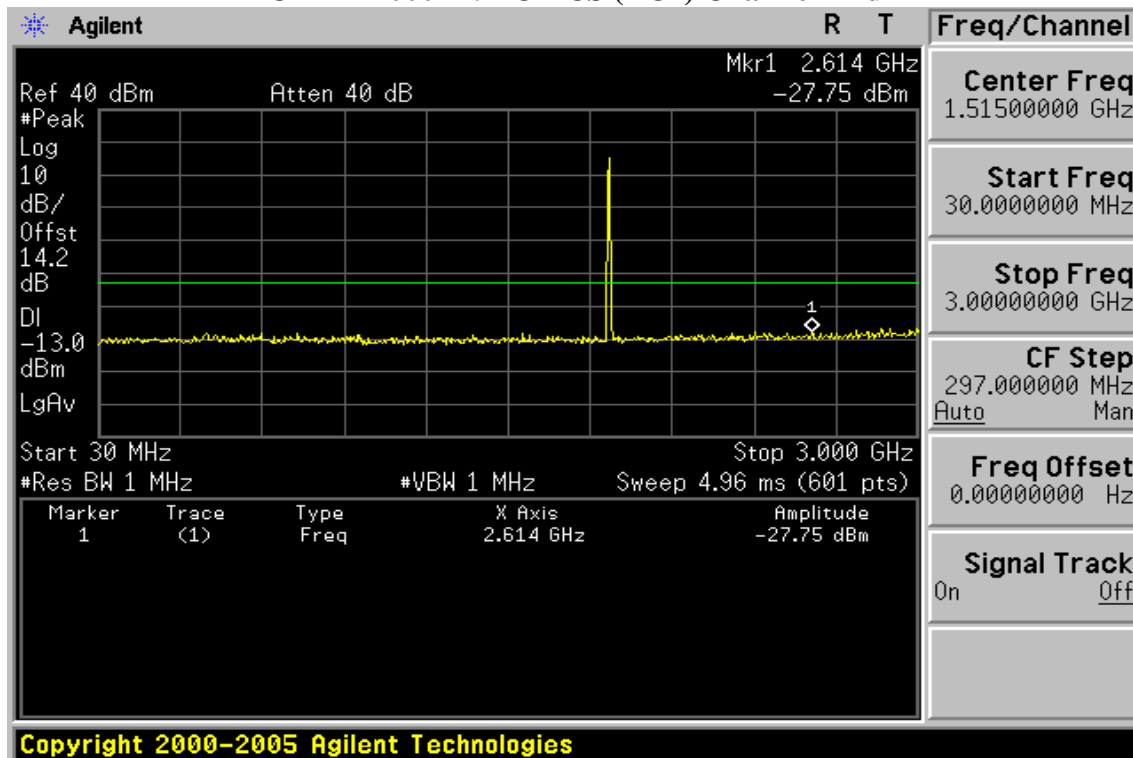
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**Figure 9-22: Out of Band emission at antenna terminals –  
CDMA 2000 EVDO PCS (BC1) Channel Mid**



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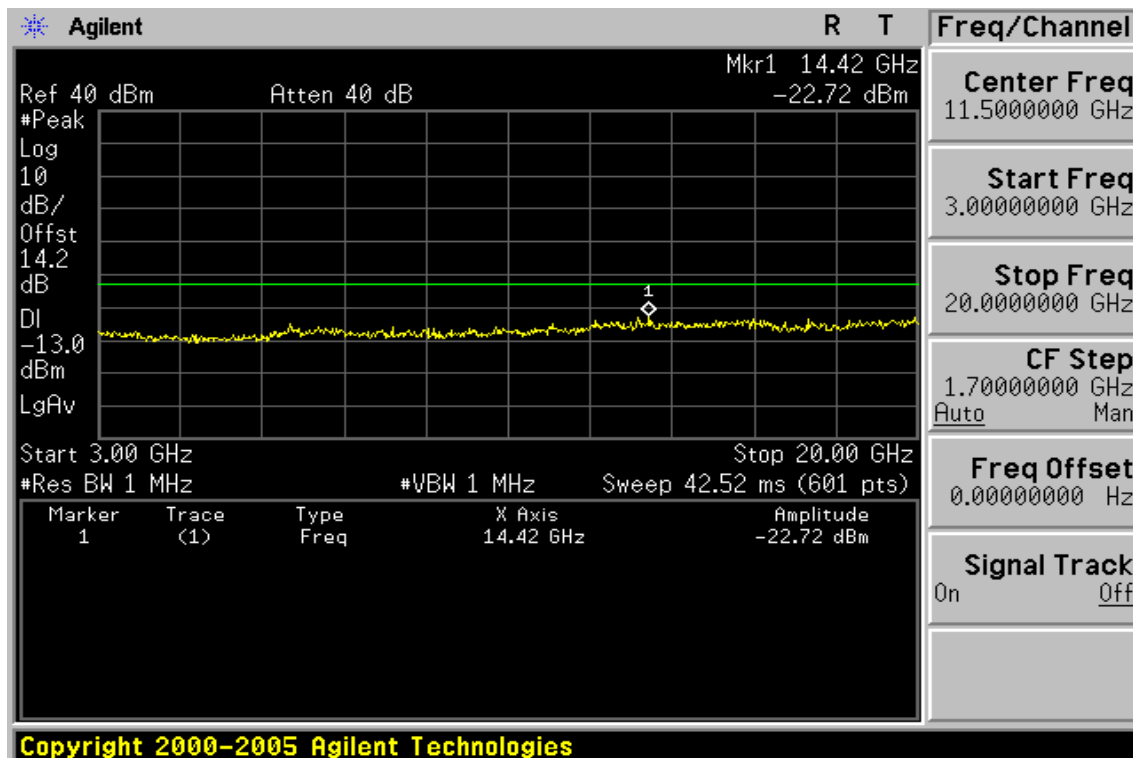
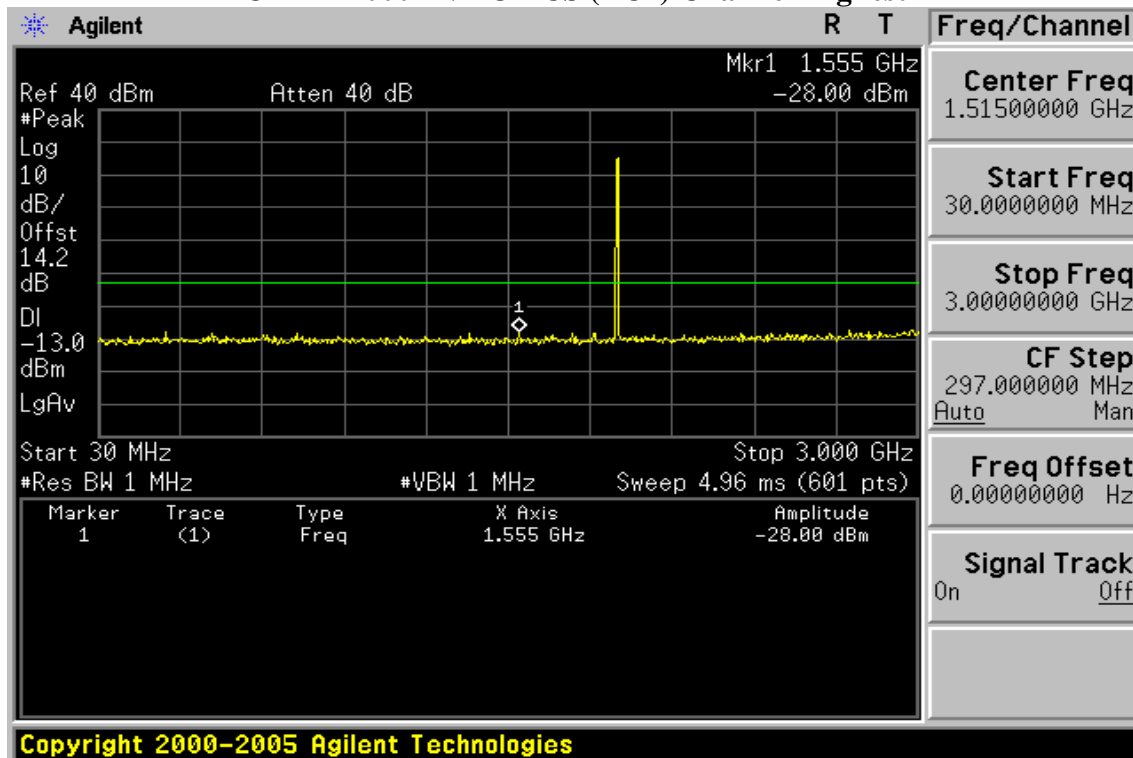
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**Figure 9-23: Out of Band emission at antenna terminals –  
CDMA 2000 EVDO PCS (BC1) Channel Highest**



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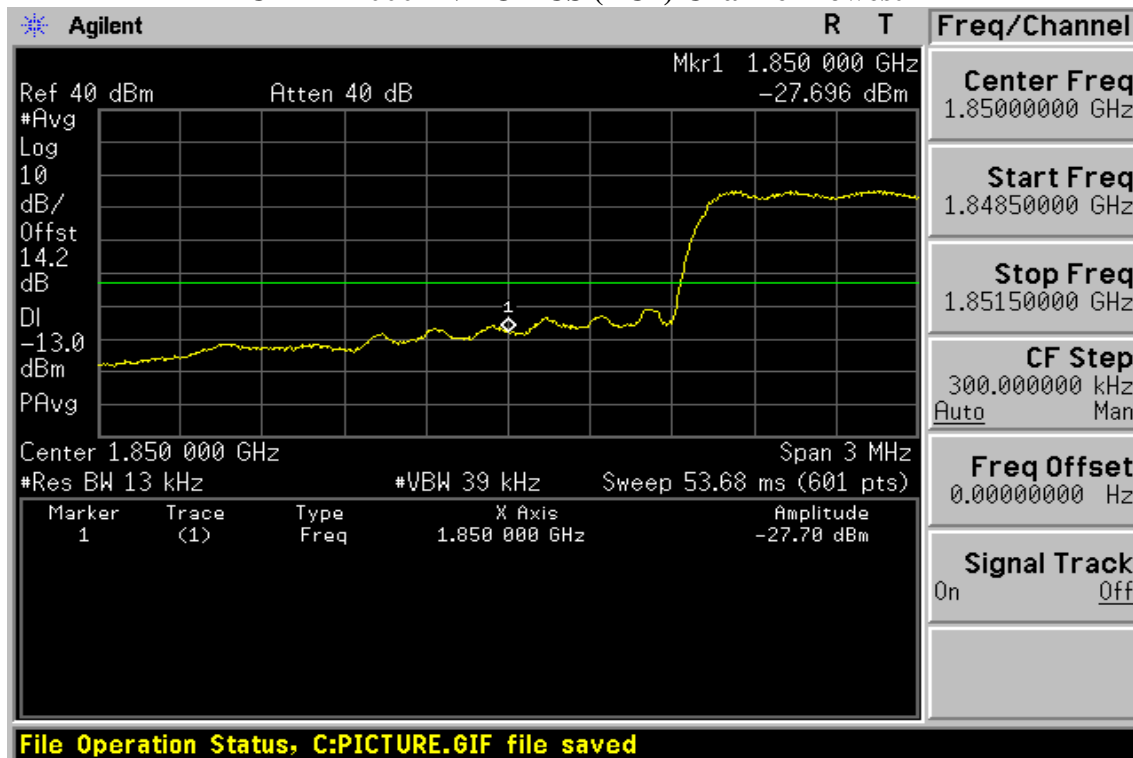
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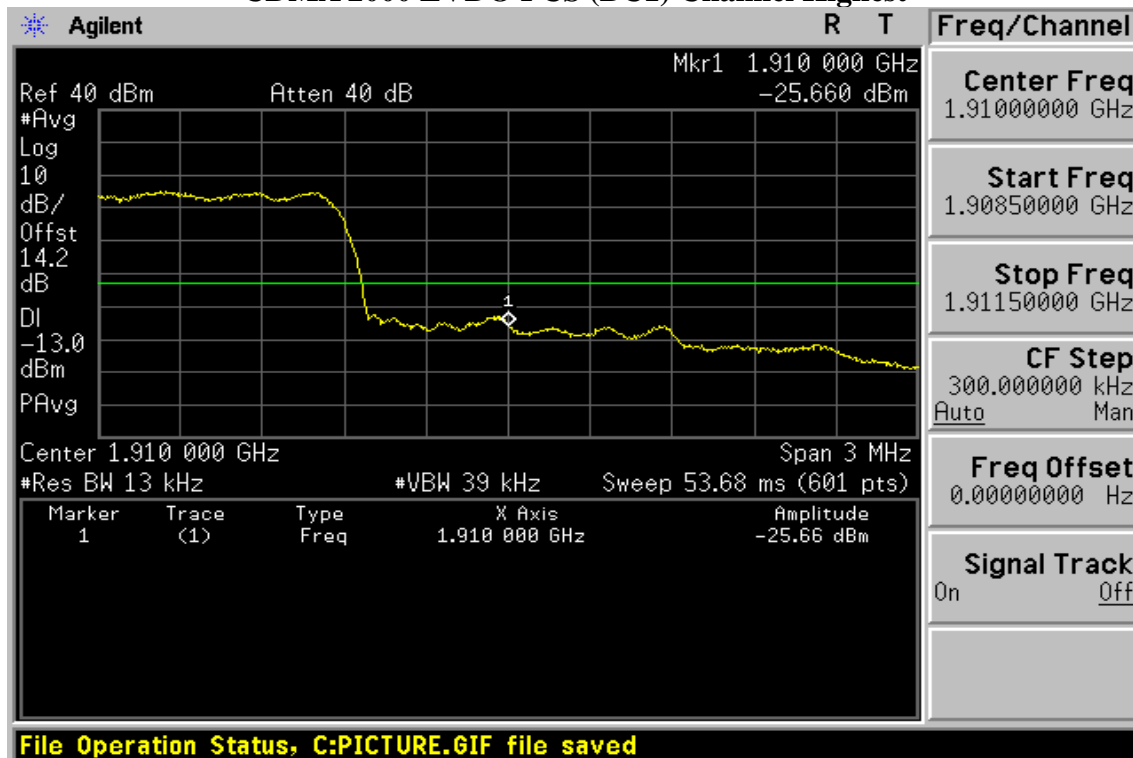
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**Figure 9-24: Band edge emission at antenna terminals –  
CDMA 2000 EVDO PCS (BC1) Channel Lowest**



**Figure 9-25: Band edge emission at antenna terminals –  
CDMA 2000 EVDO PCS (BC1) Channel Highest**



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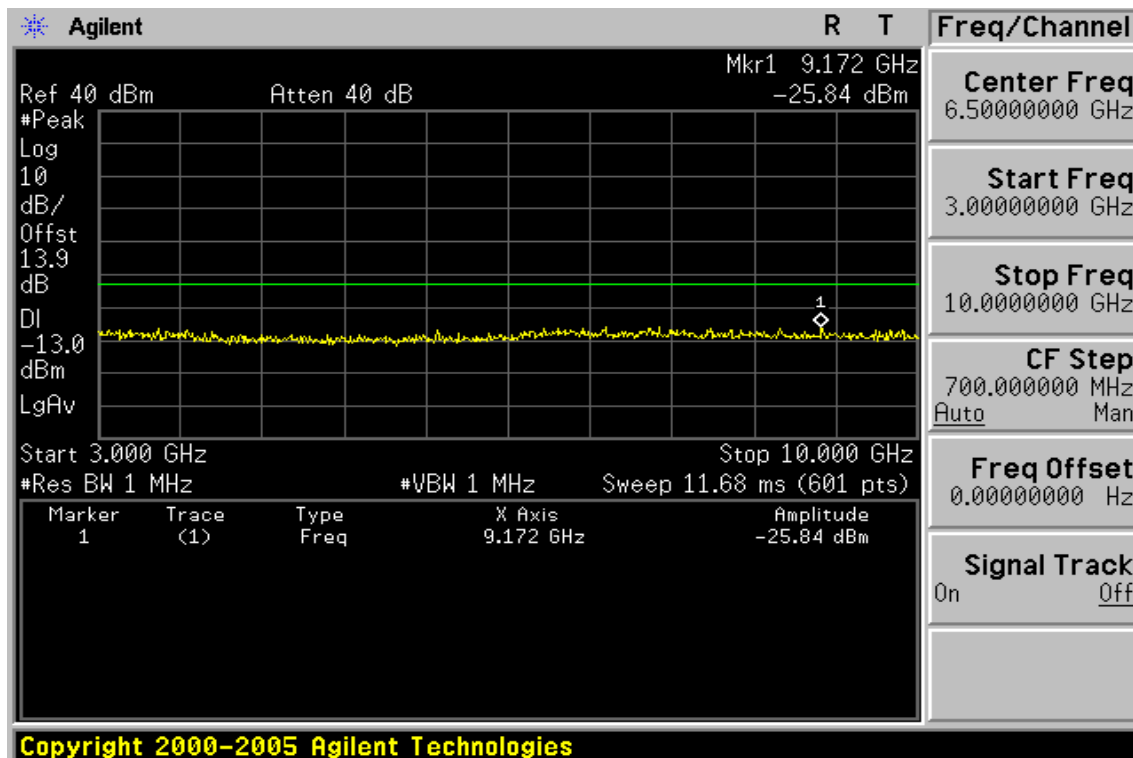
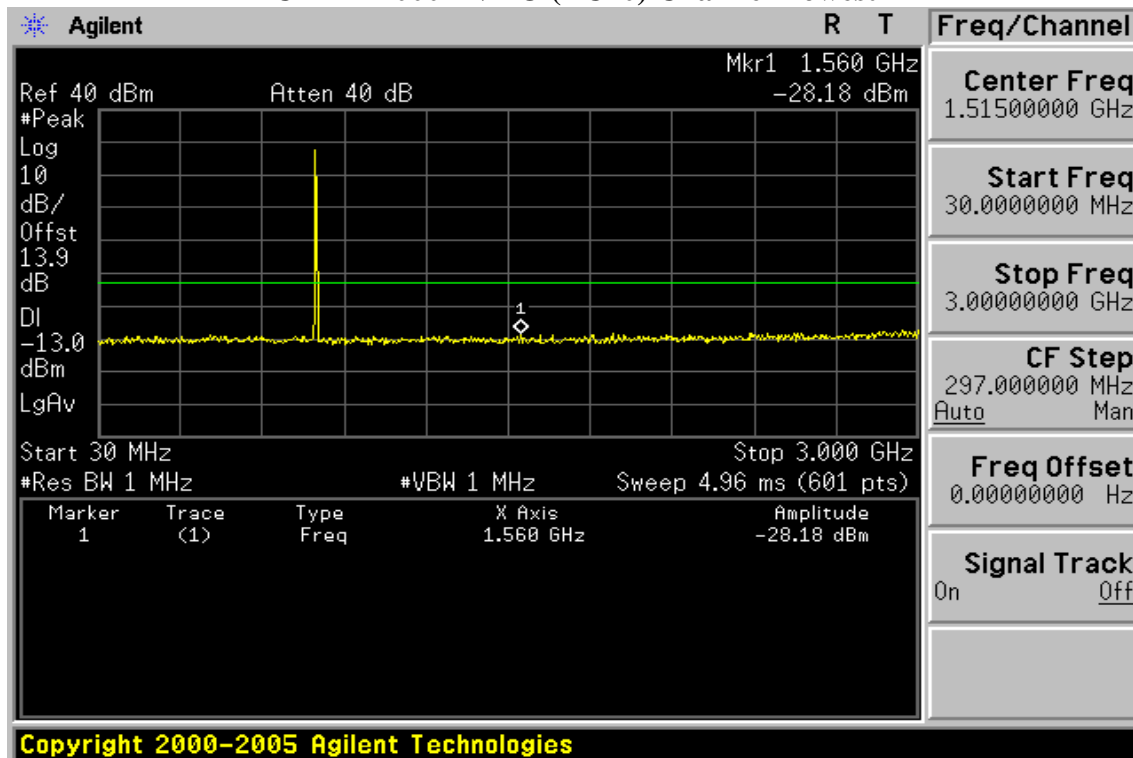
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**Figure 9-26: Out of Band emission at antenna terminals –  
CDMA 2000 EVDO (BC10) Channel Lowest**



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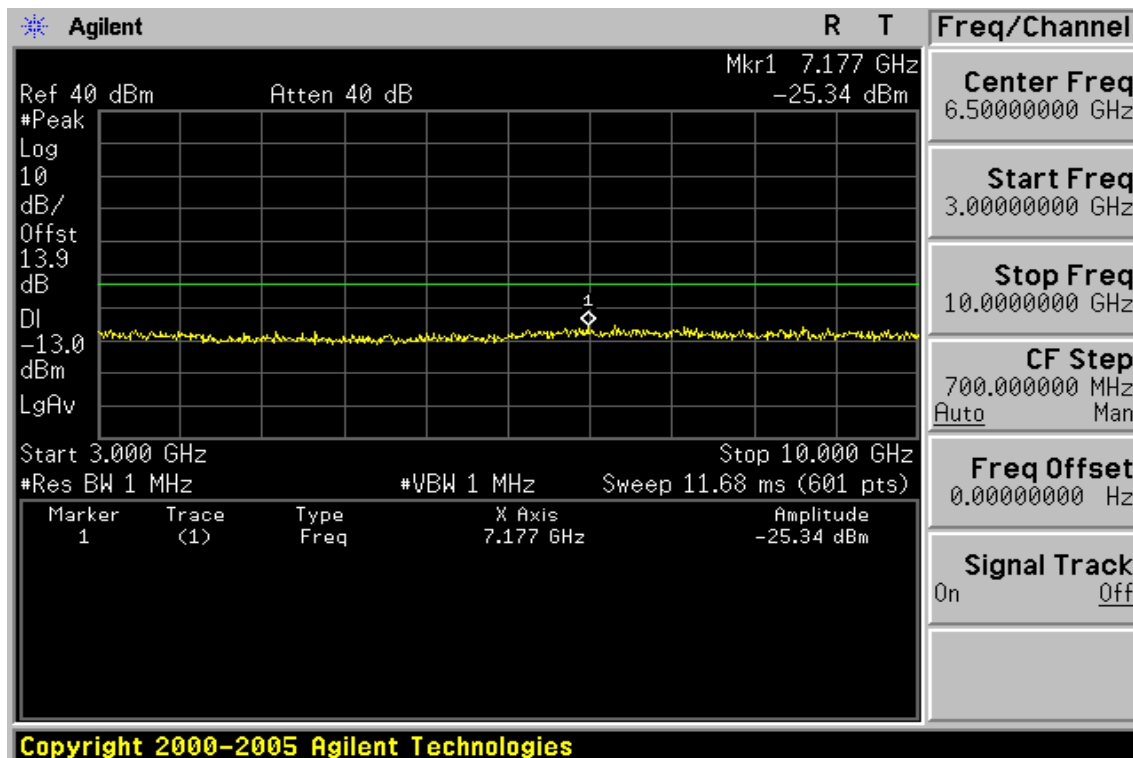
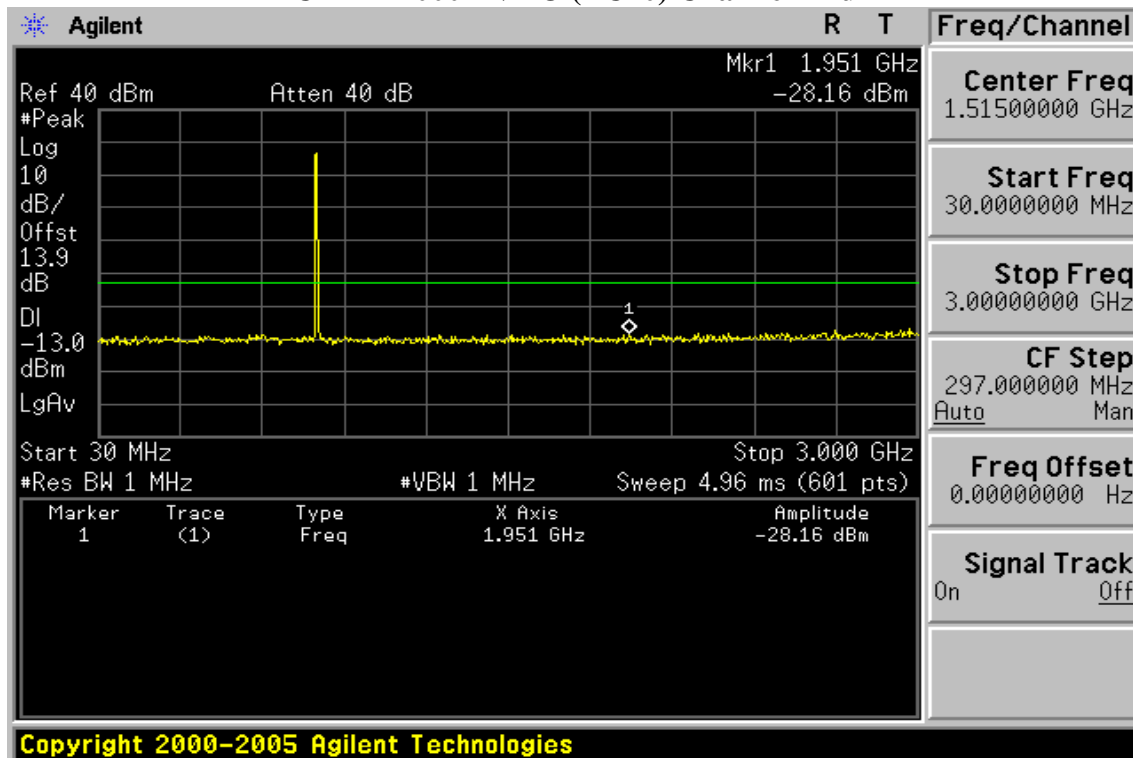
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**Figure 9-27: Out of Band emission at antenna terminals –  
CDMA 2000 EVDO (BC10) Channel Mid**



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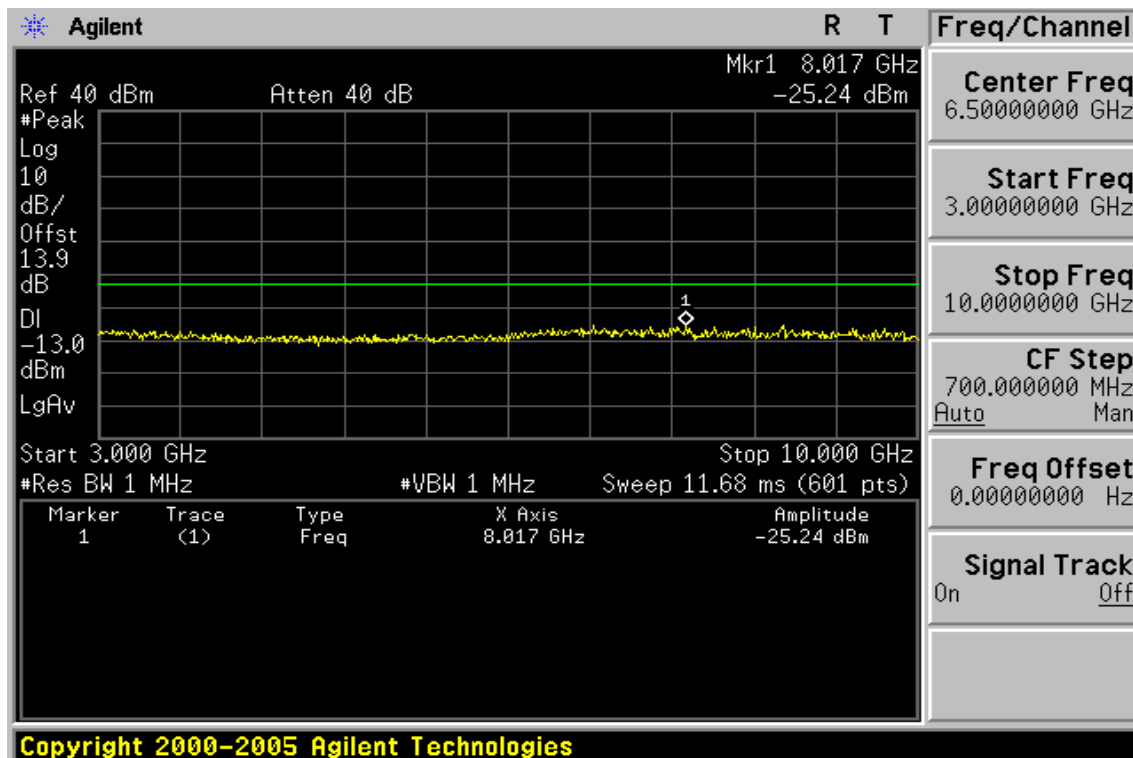
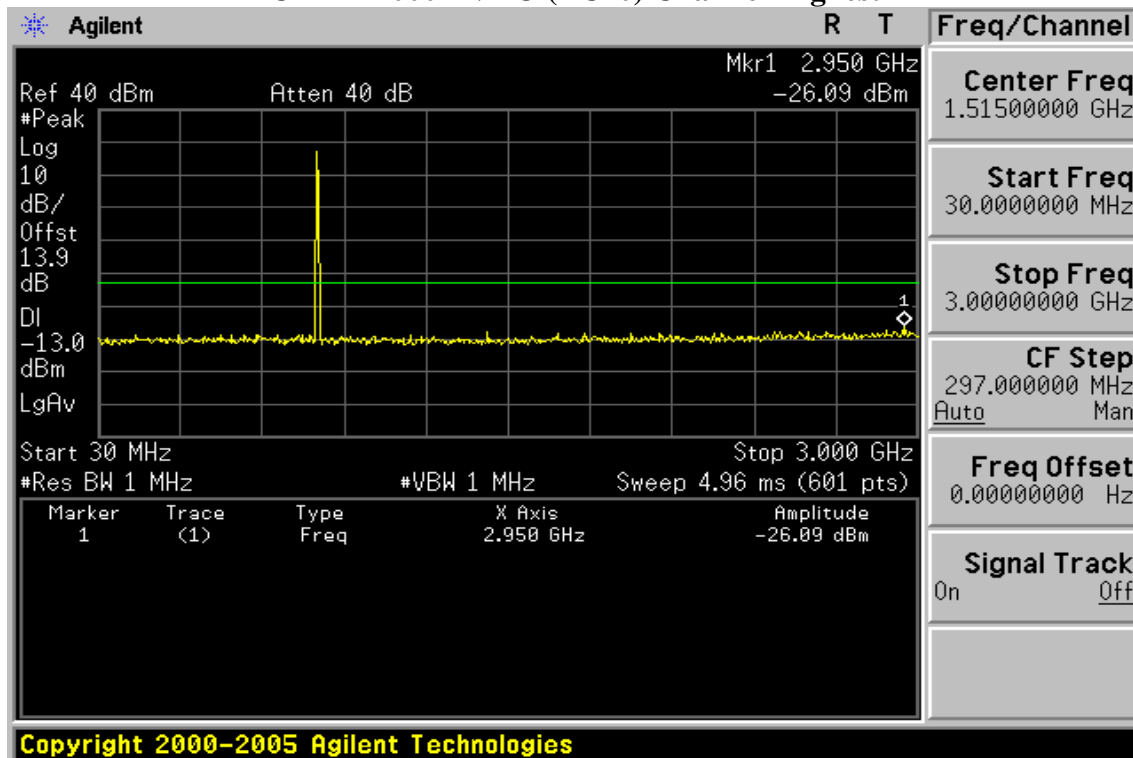
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**Figure 9-28: Out of Band emission at antenna terminals –  
CDMA 2000 EVDO (BC10) Channel Highest**



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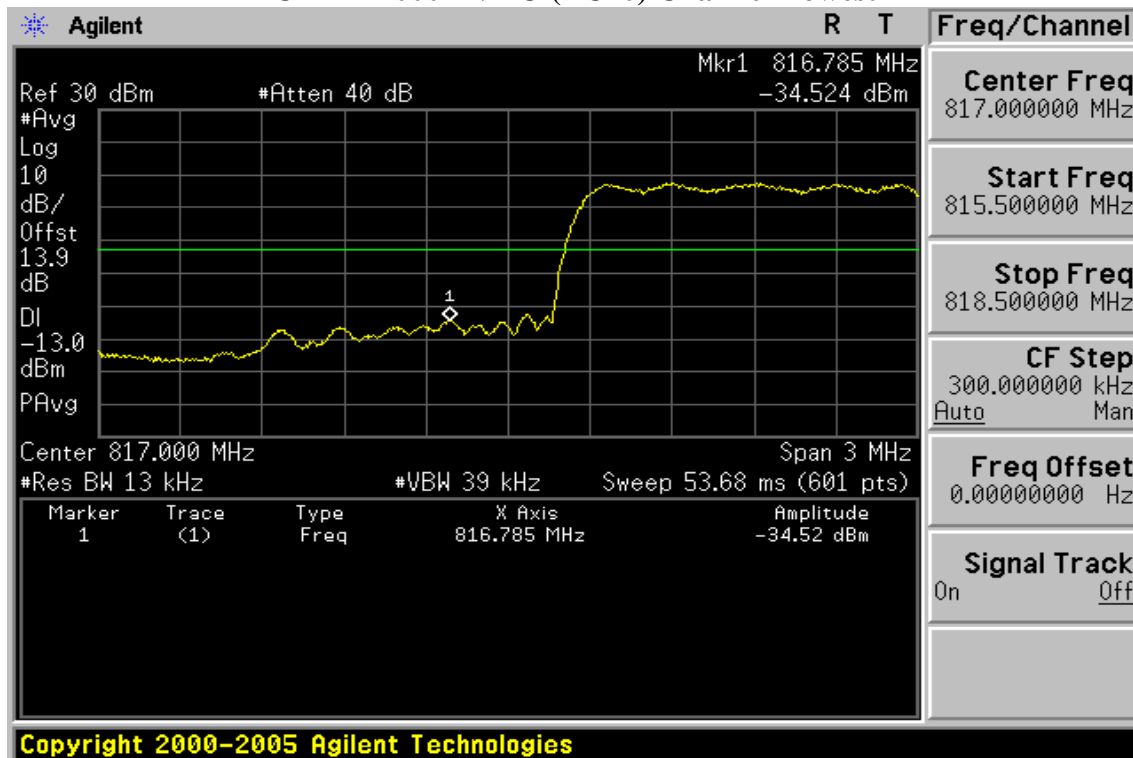
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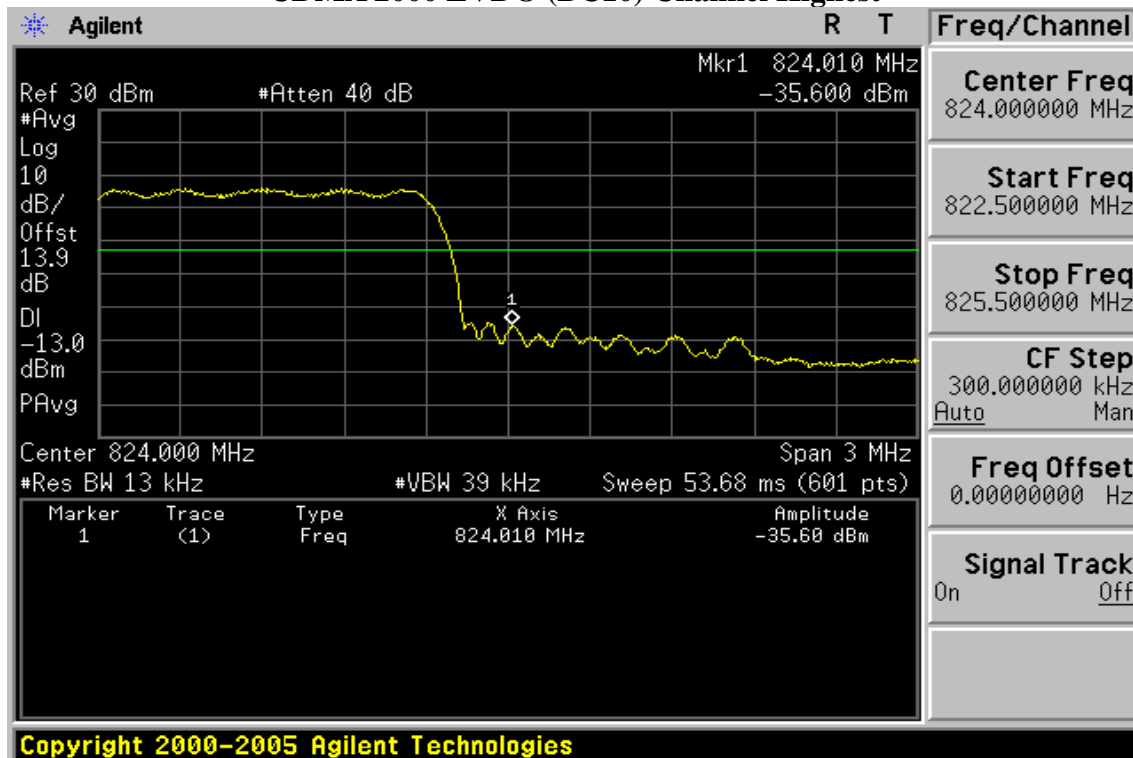
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**Figure 9-29: Band edge emission at antenna terminals –  
CDMA 2000 EVDO (BC10) Channel Lowest**



**Figure 9-30: Band edge emission at antenna terminals –  
CDMA 2000 EVDO (BC10) Channel Highest**



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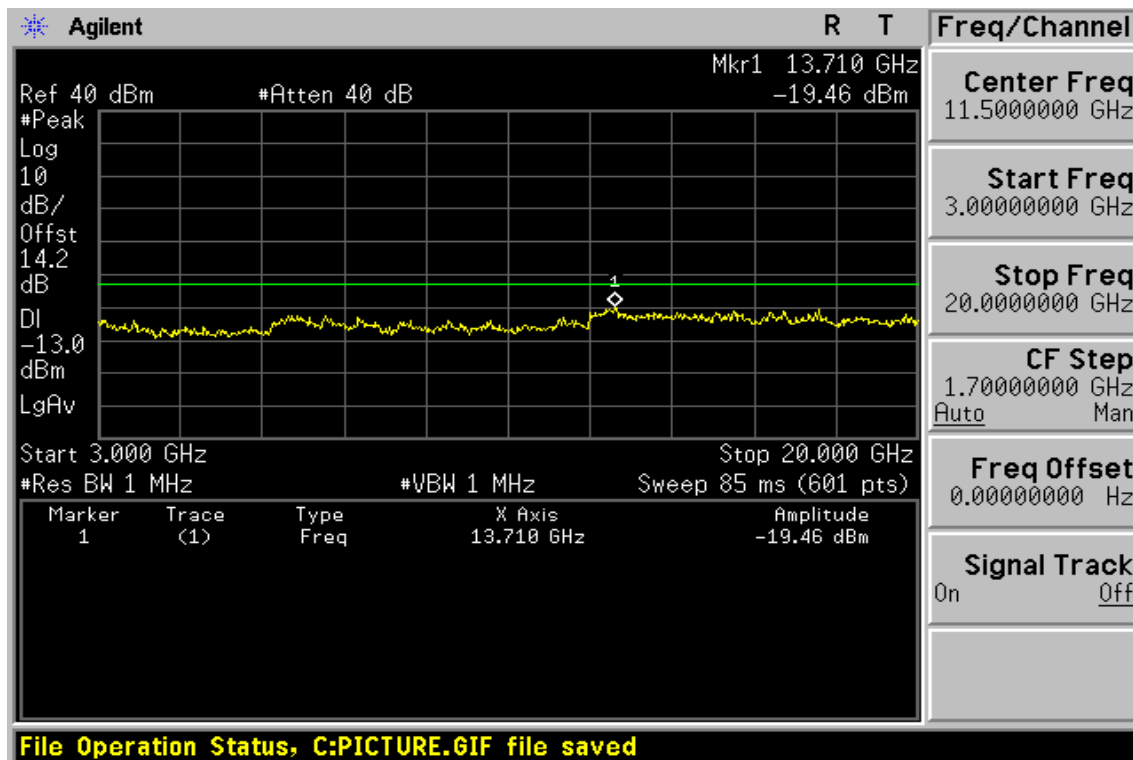
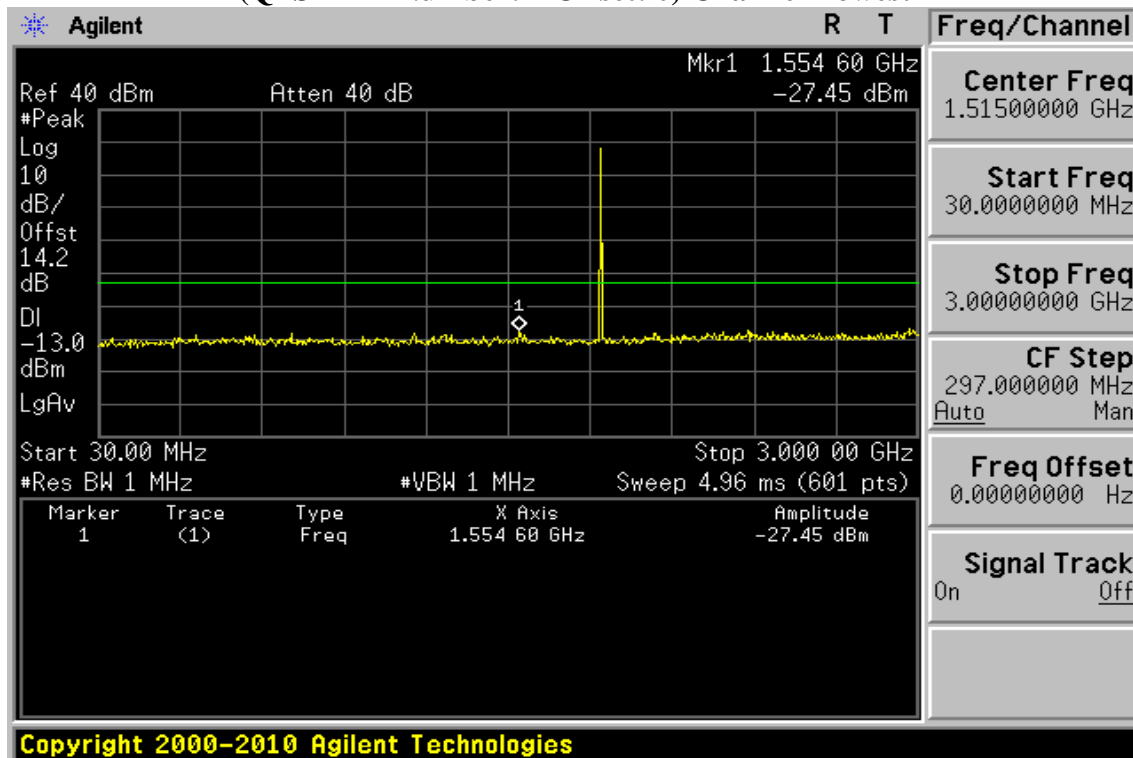
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**Figure 9-31: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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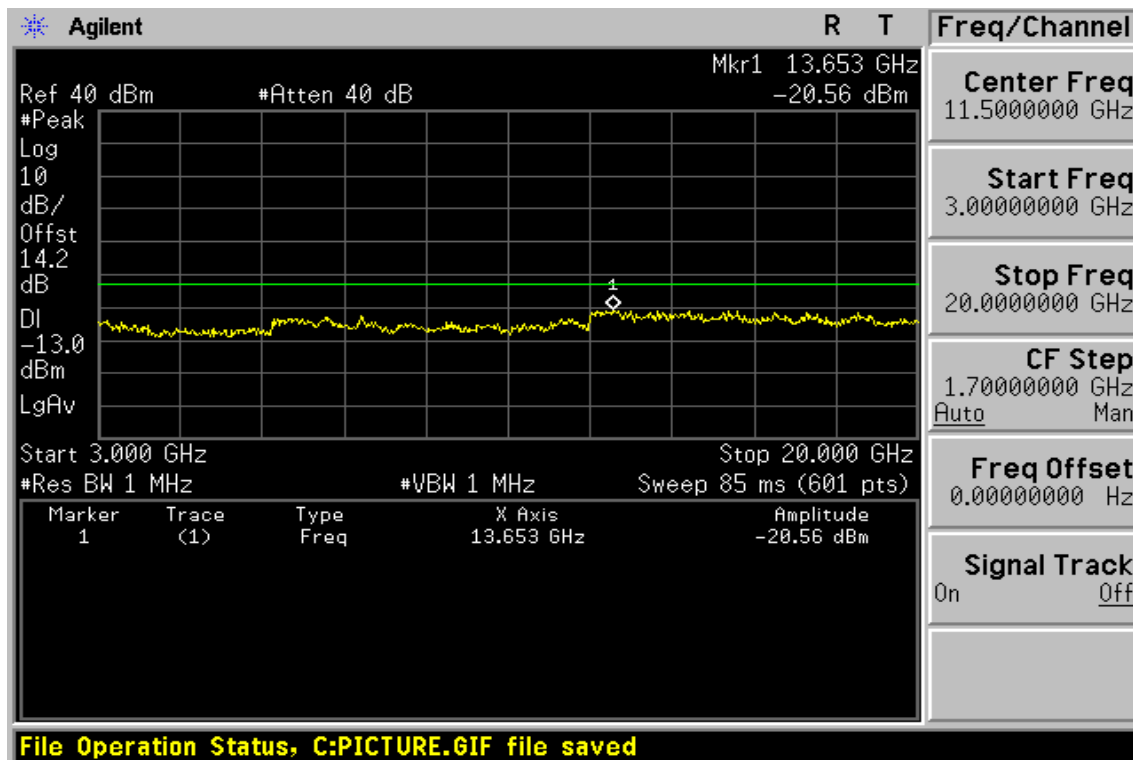
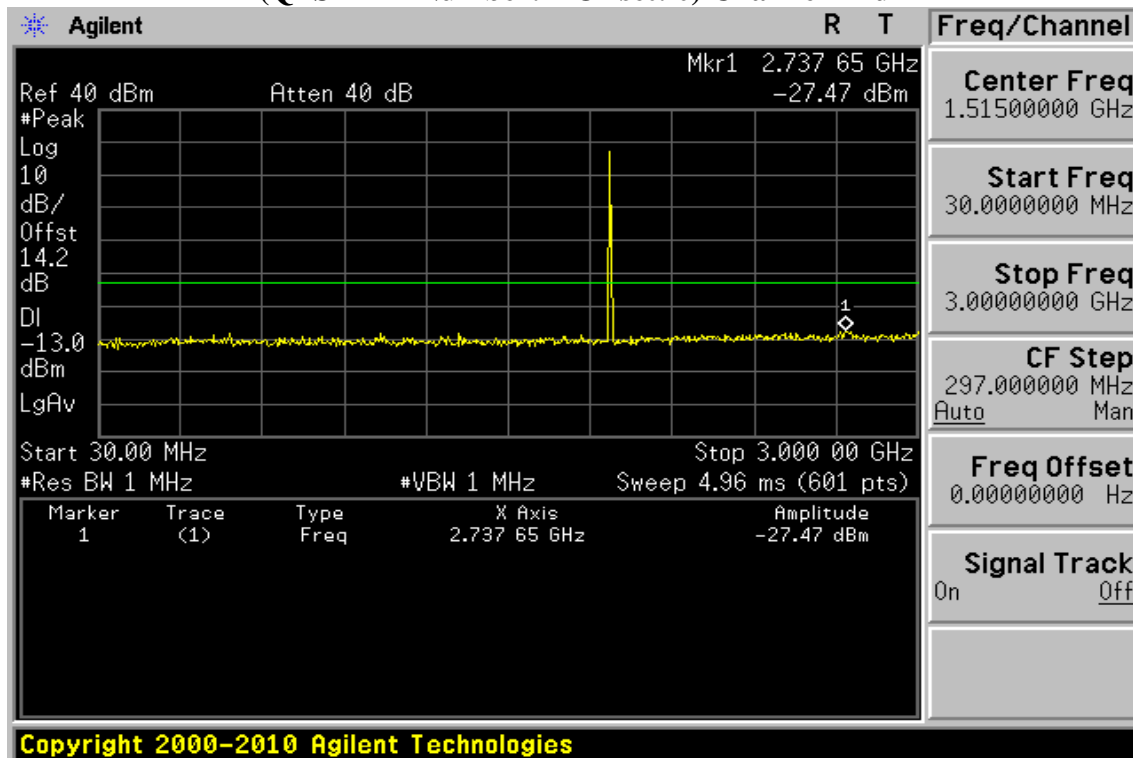
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**Figure 9-32: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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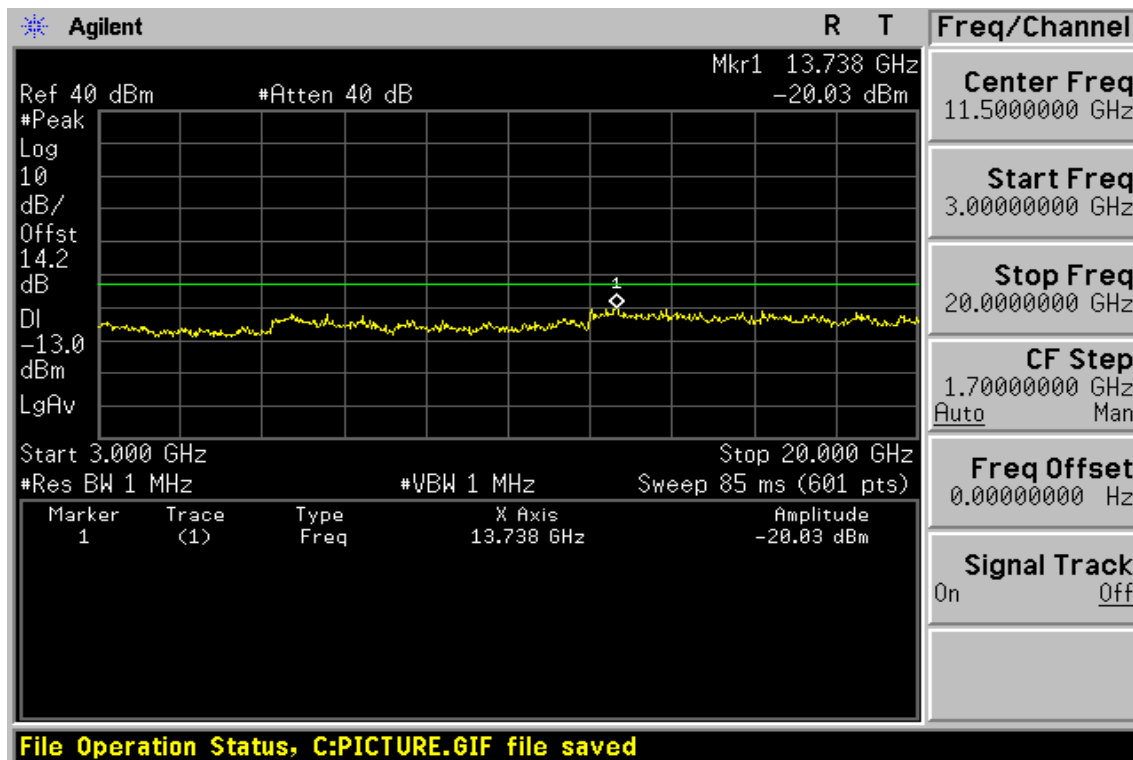
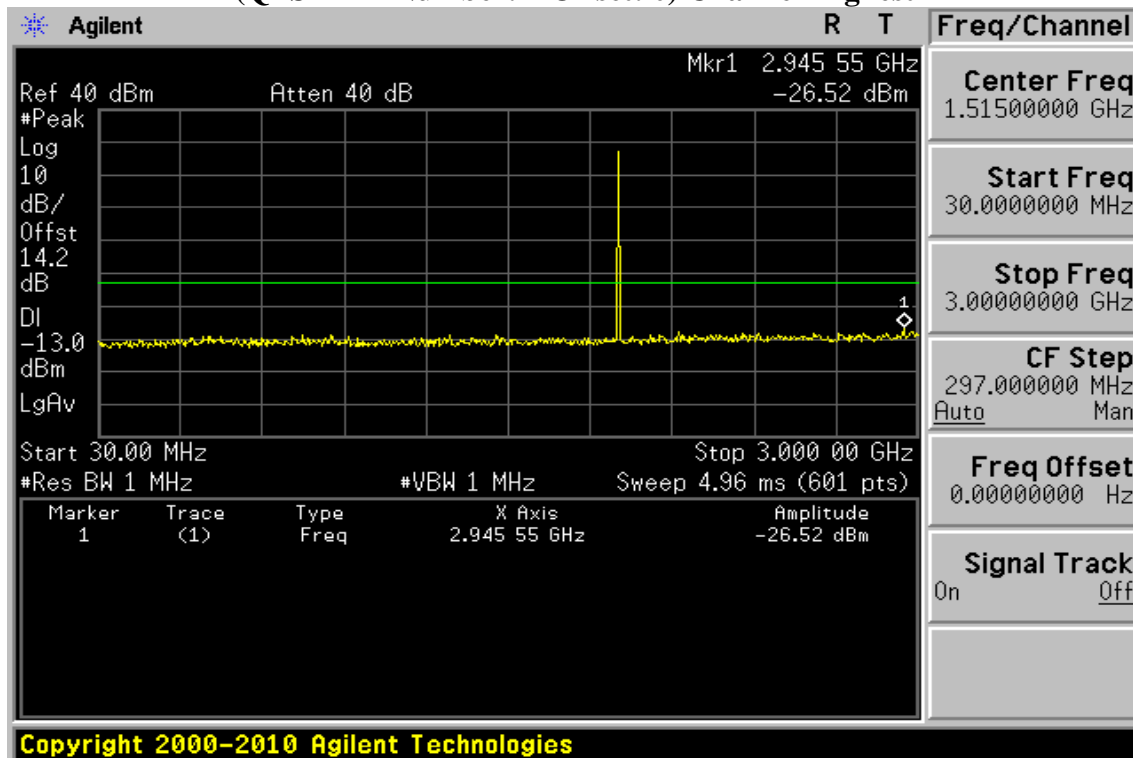
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**Figure 9-33: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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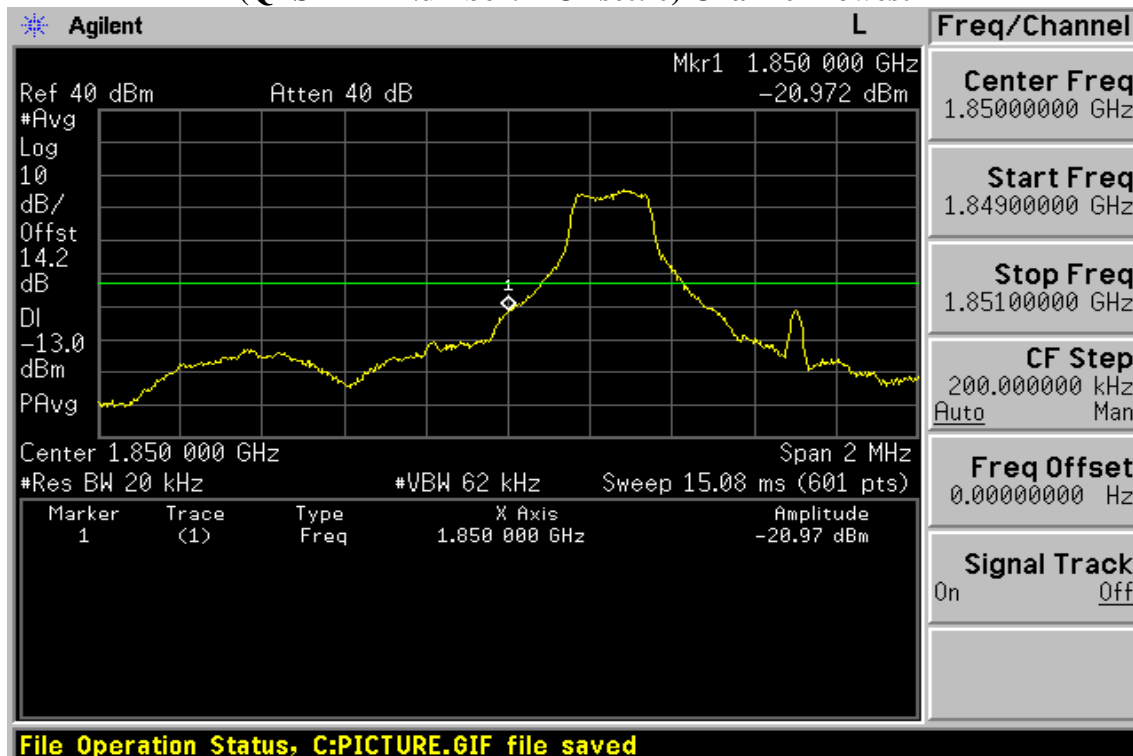
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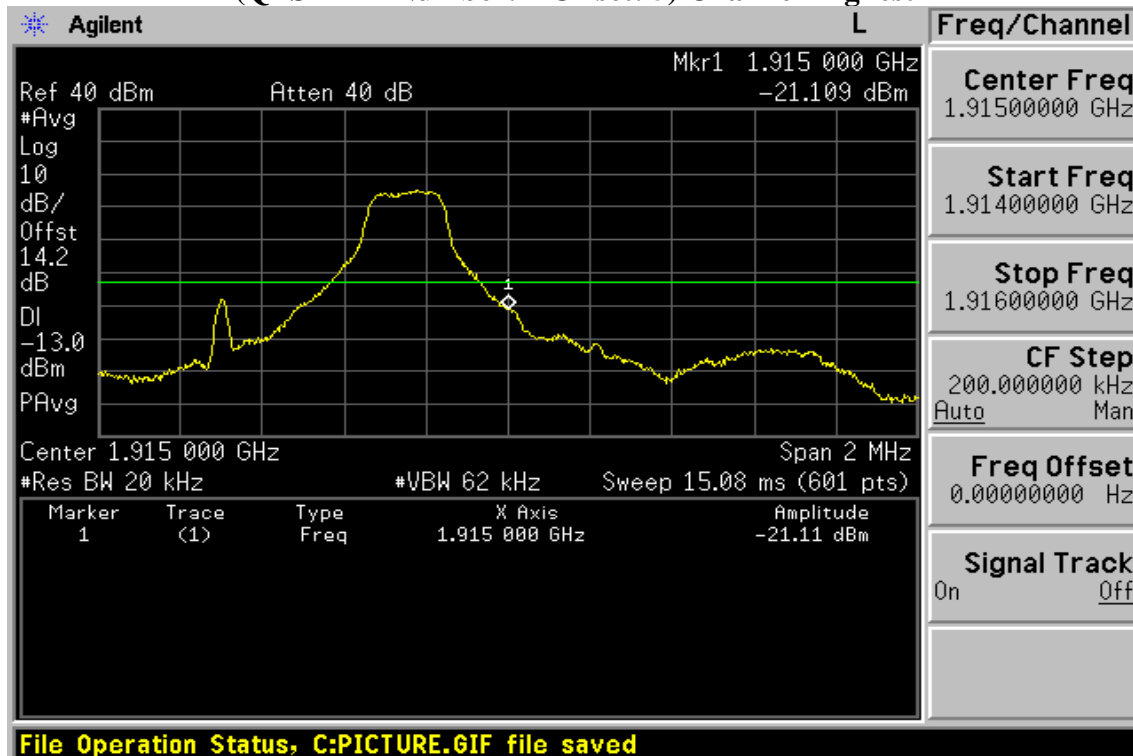
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**Figure 9-34: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-35: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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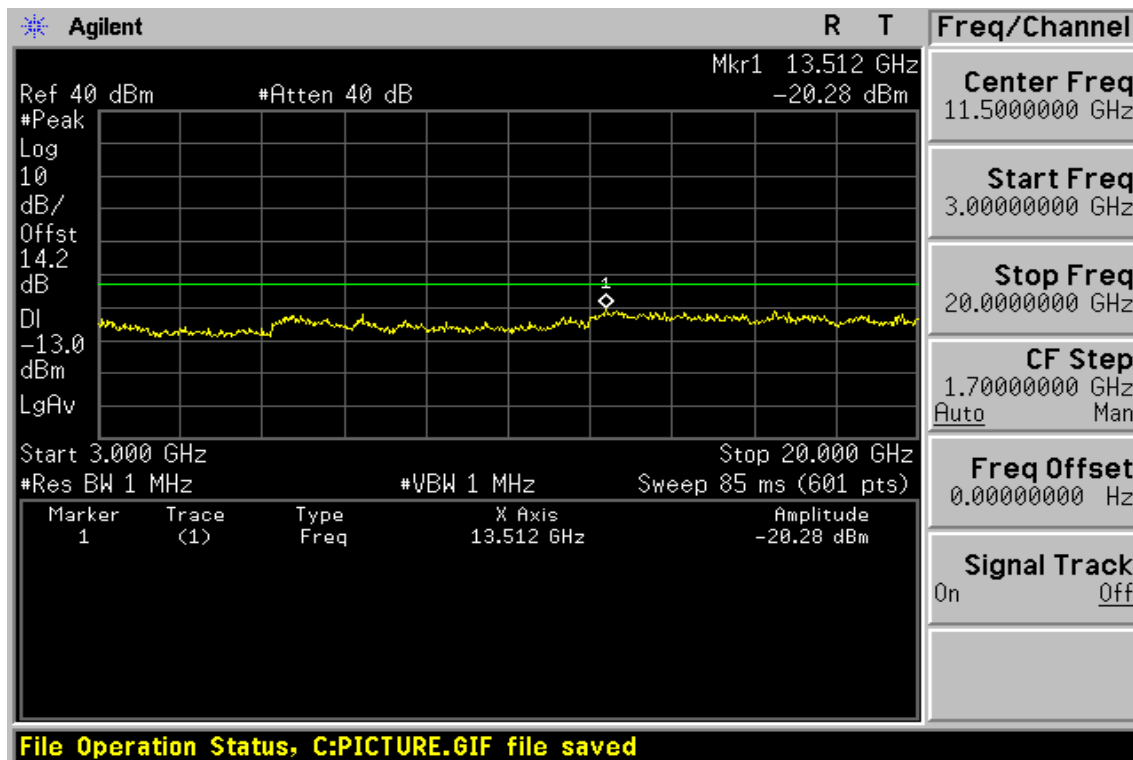
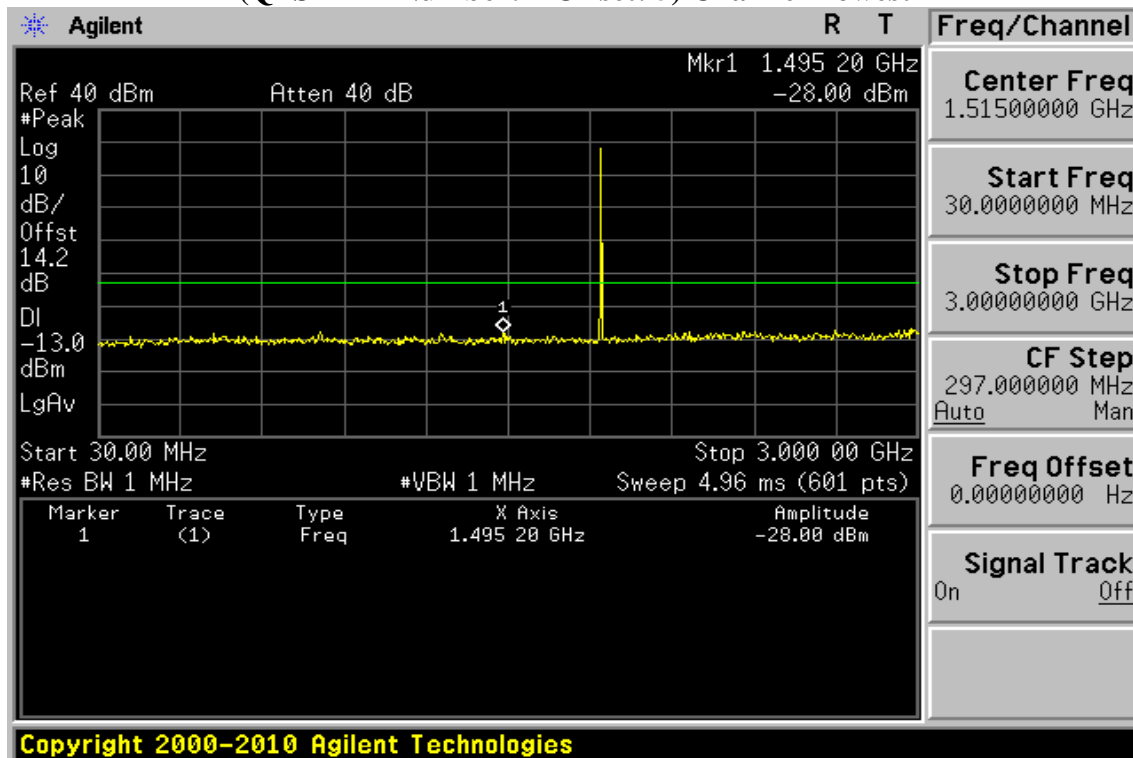
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**Figure 9-36: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 5) Channel Lowest**



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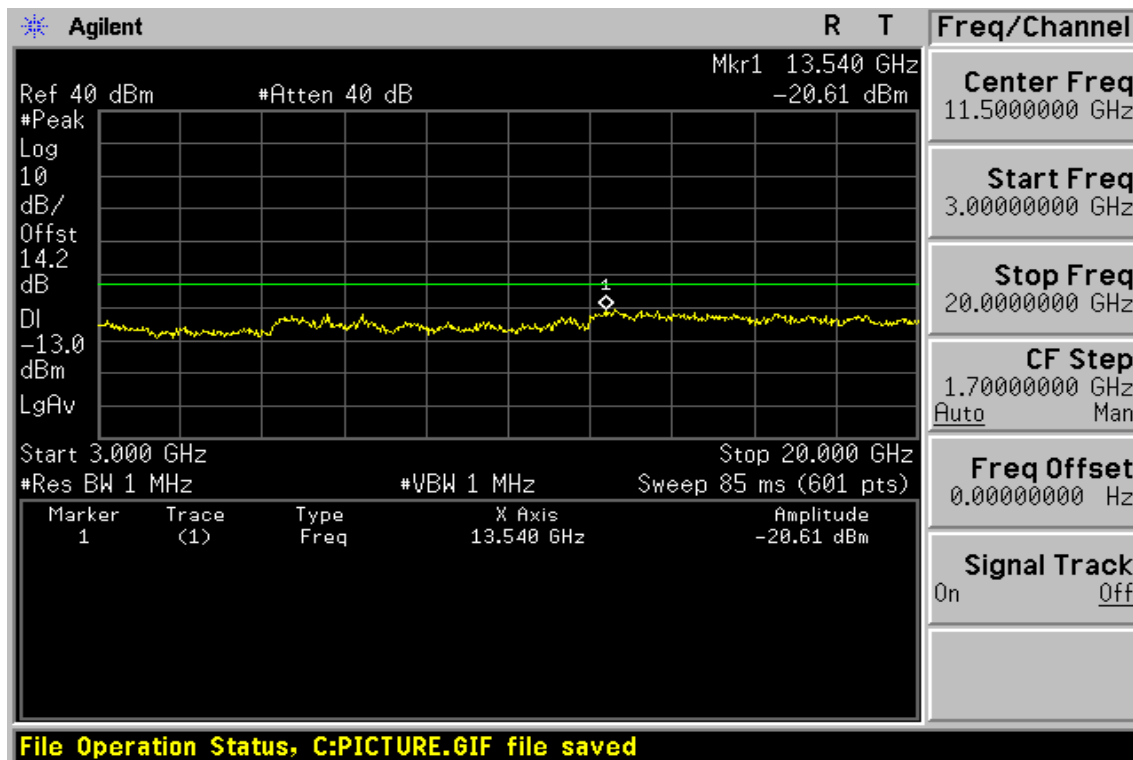
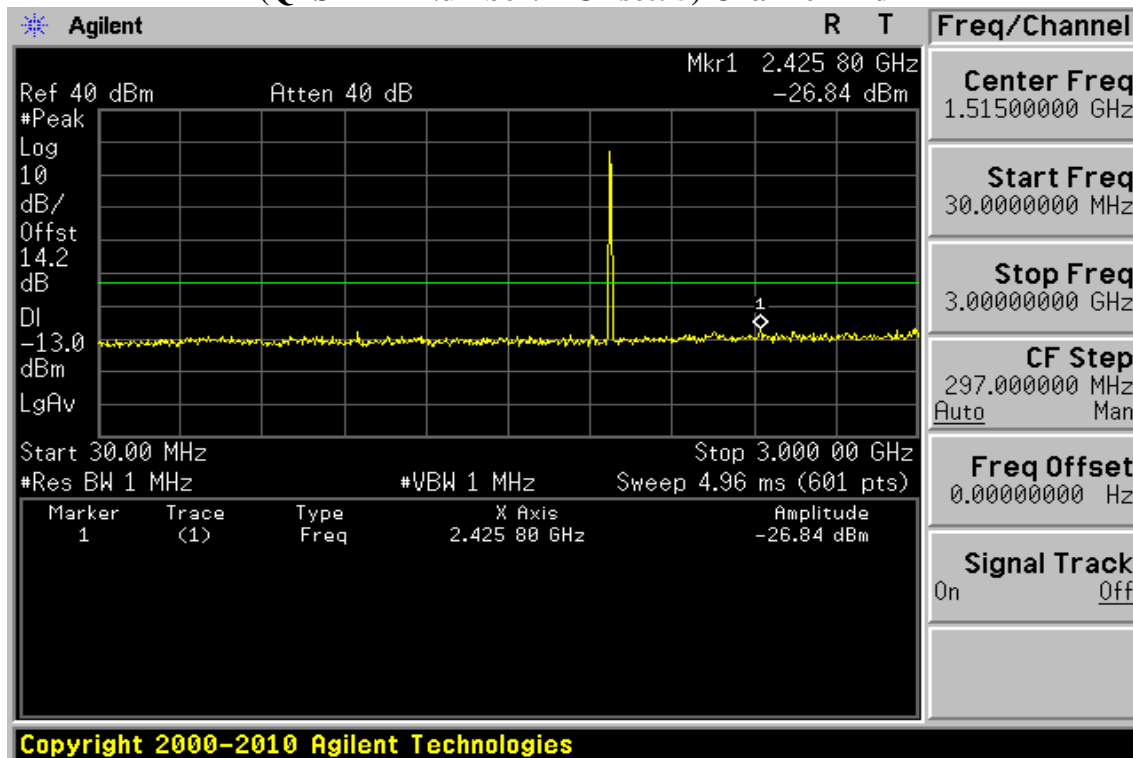
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**Figure 9-37: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 5) Channel Mid**



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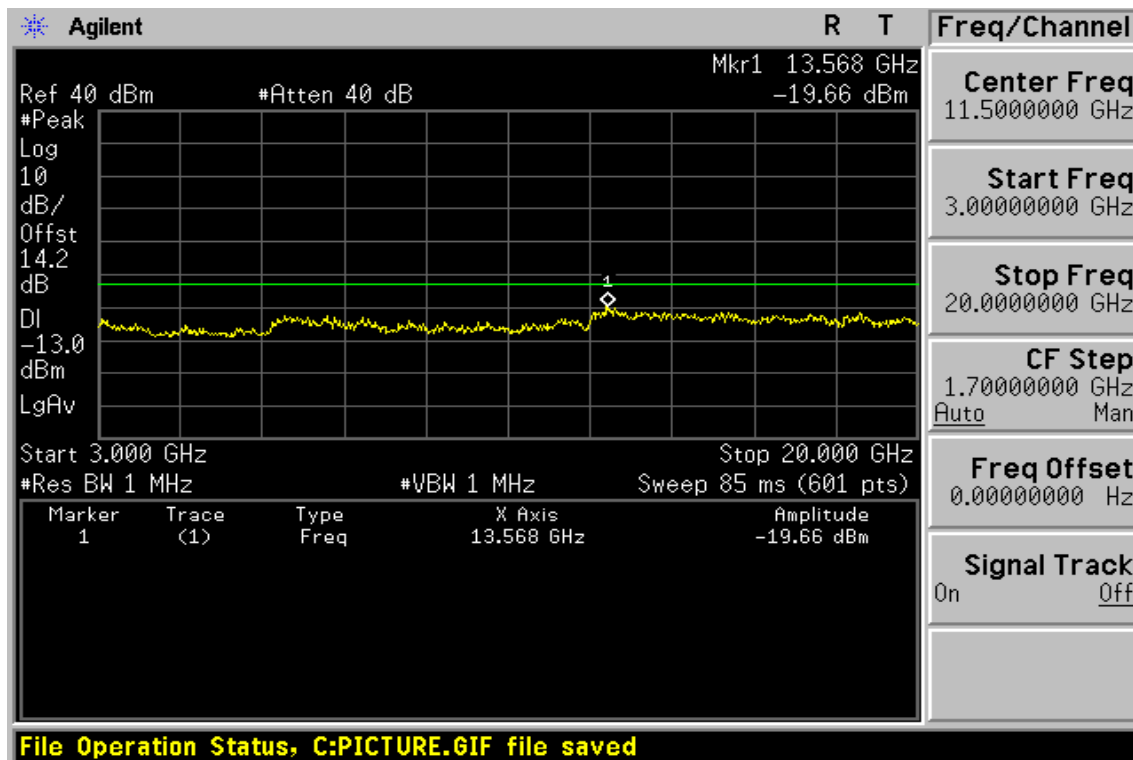
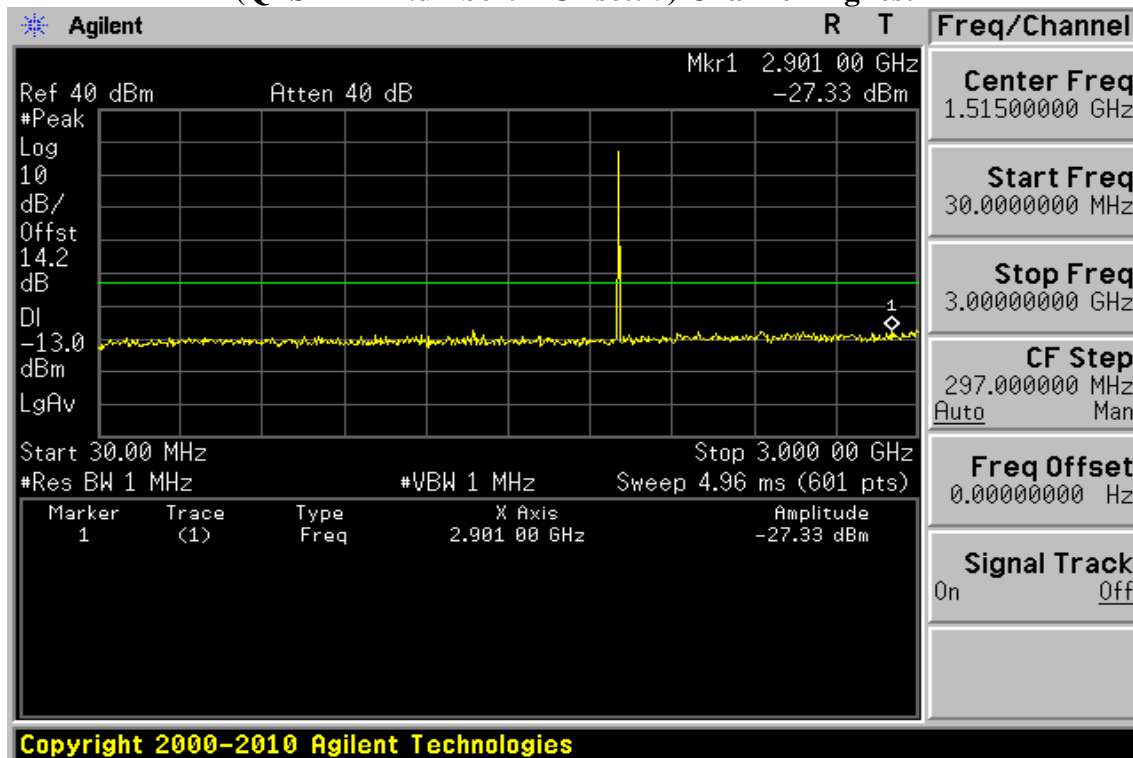
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**Figure 9-38: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 5) Channel Highest**



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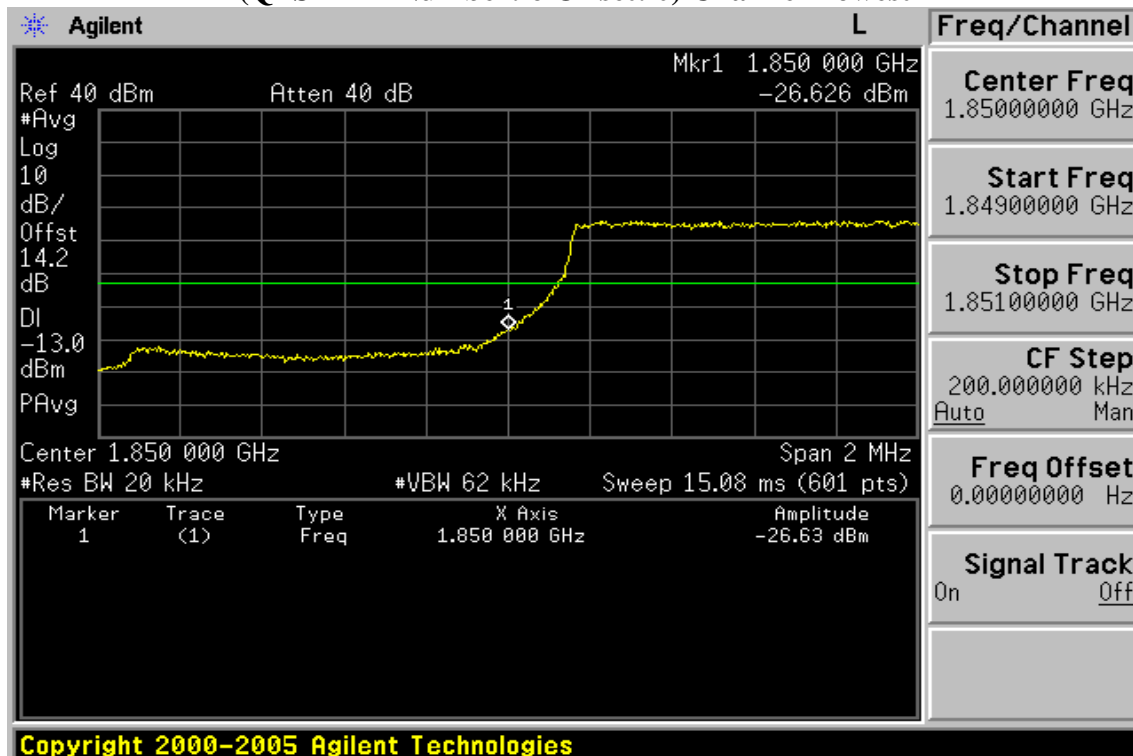
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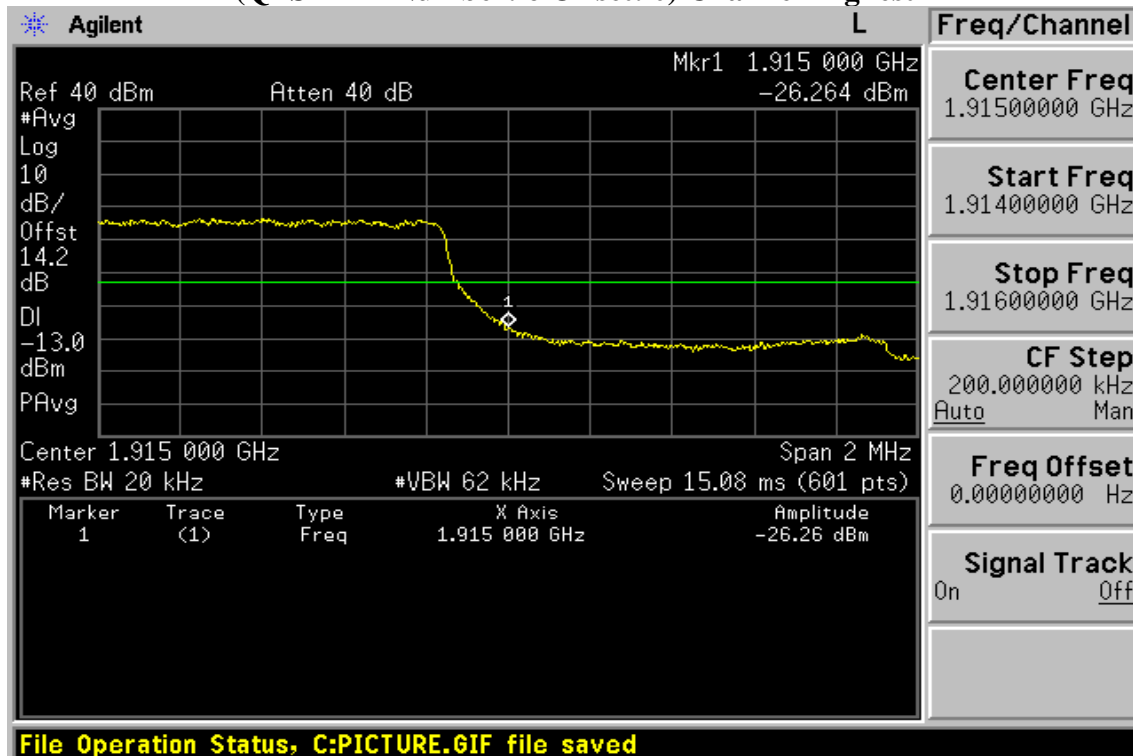
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**Figure 9-39: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Figure 9-40: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 25 (QPSK RB Number: 6 Offset: 0) Channel Highest**



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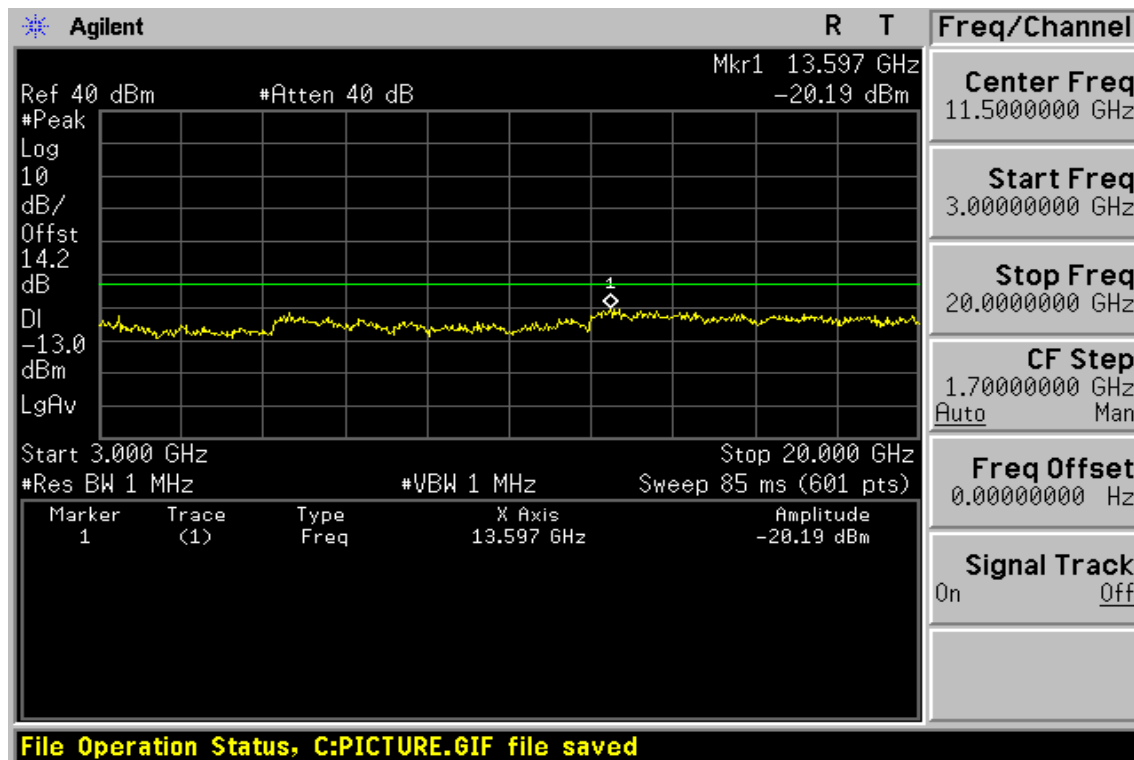
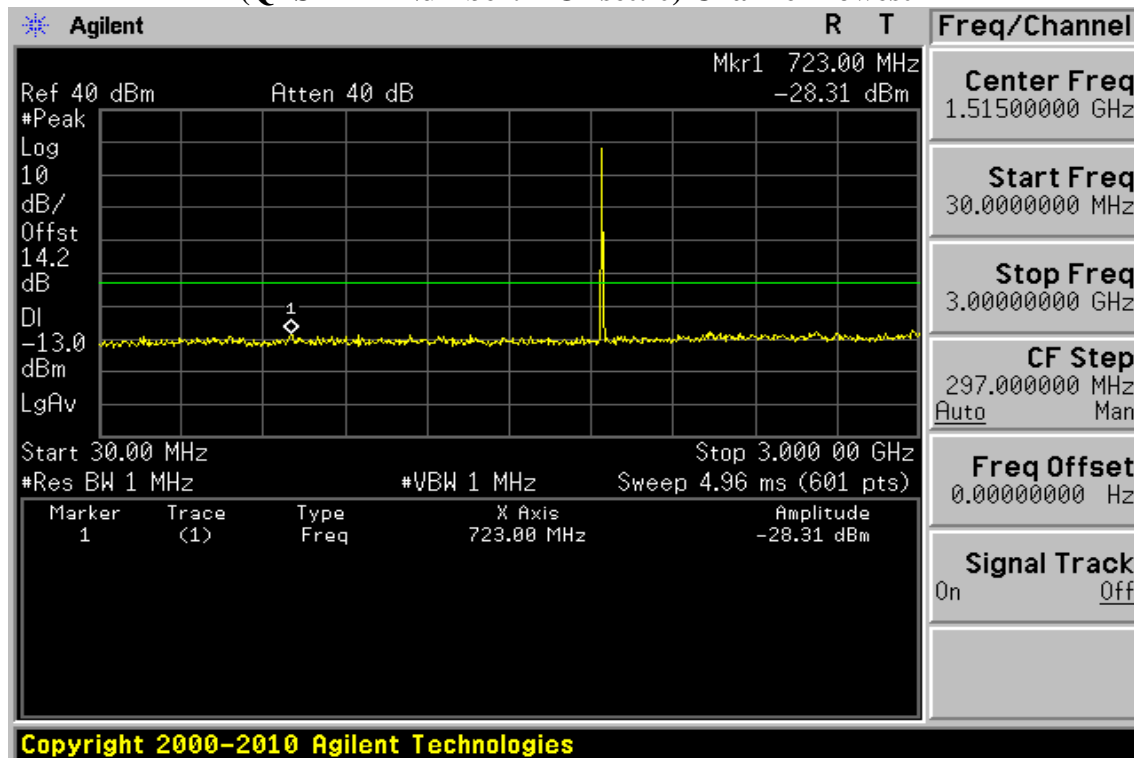
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**Figure 9-41: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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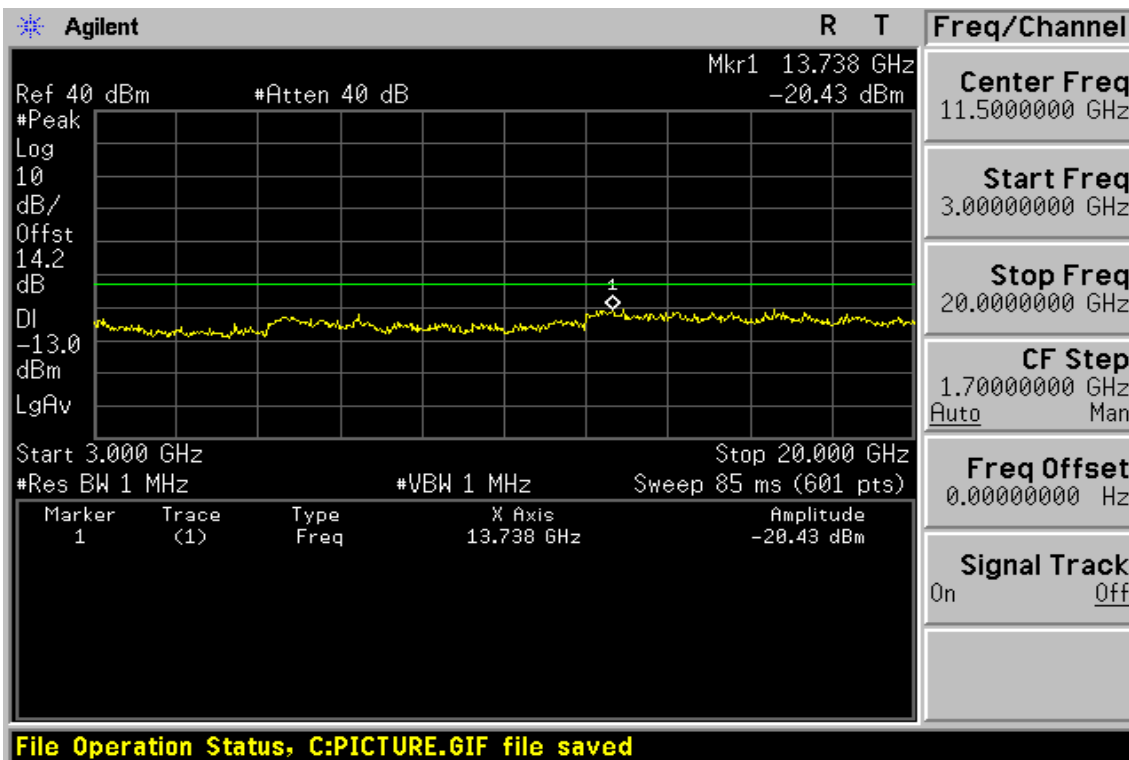
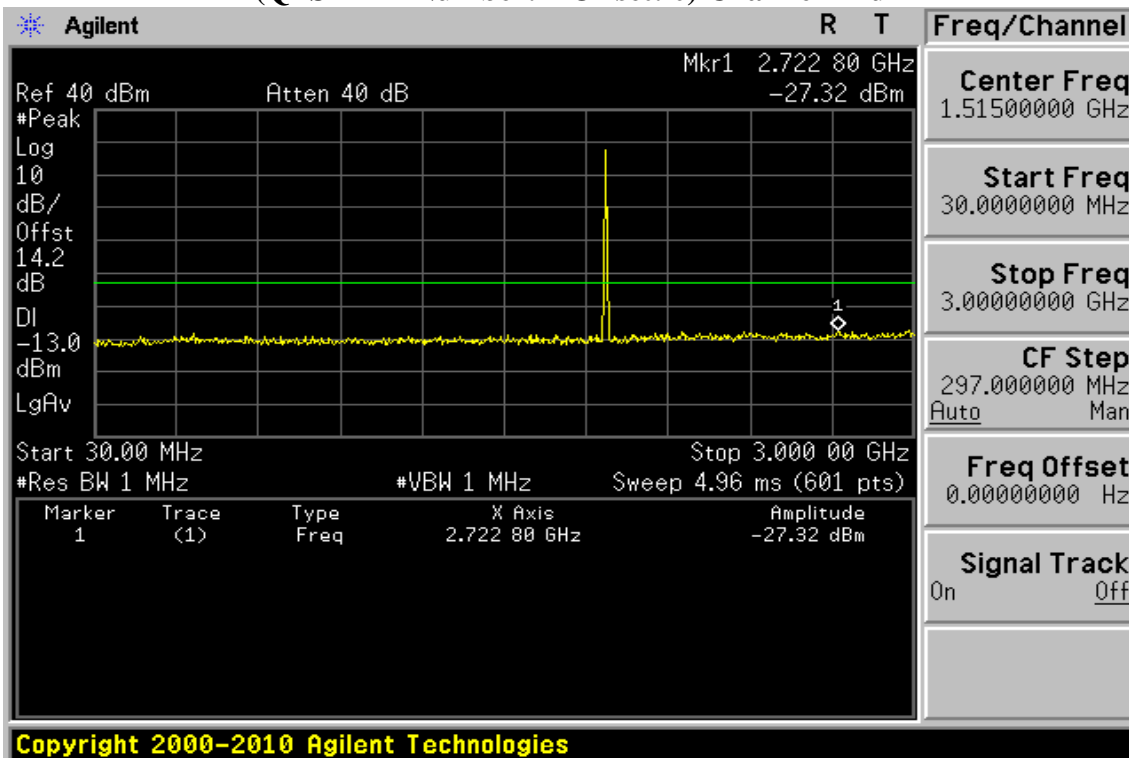
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**Figure 9-42: Out of Band emission at antenna terminals –3MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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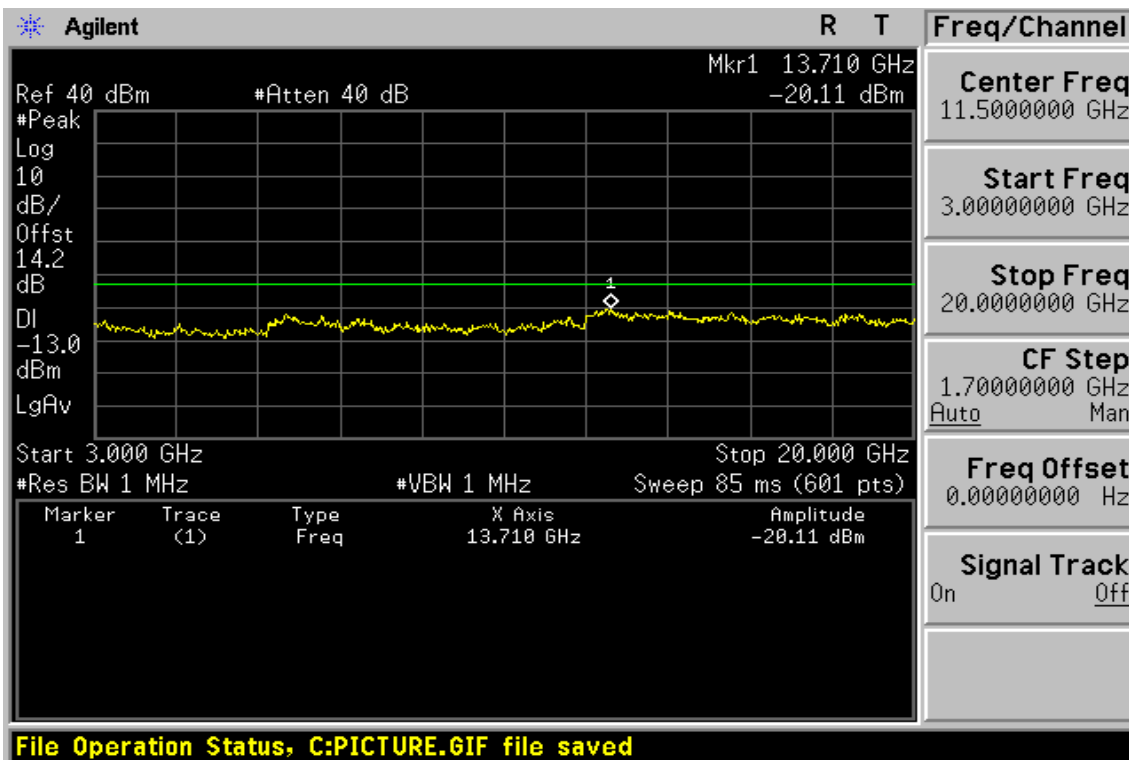
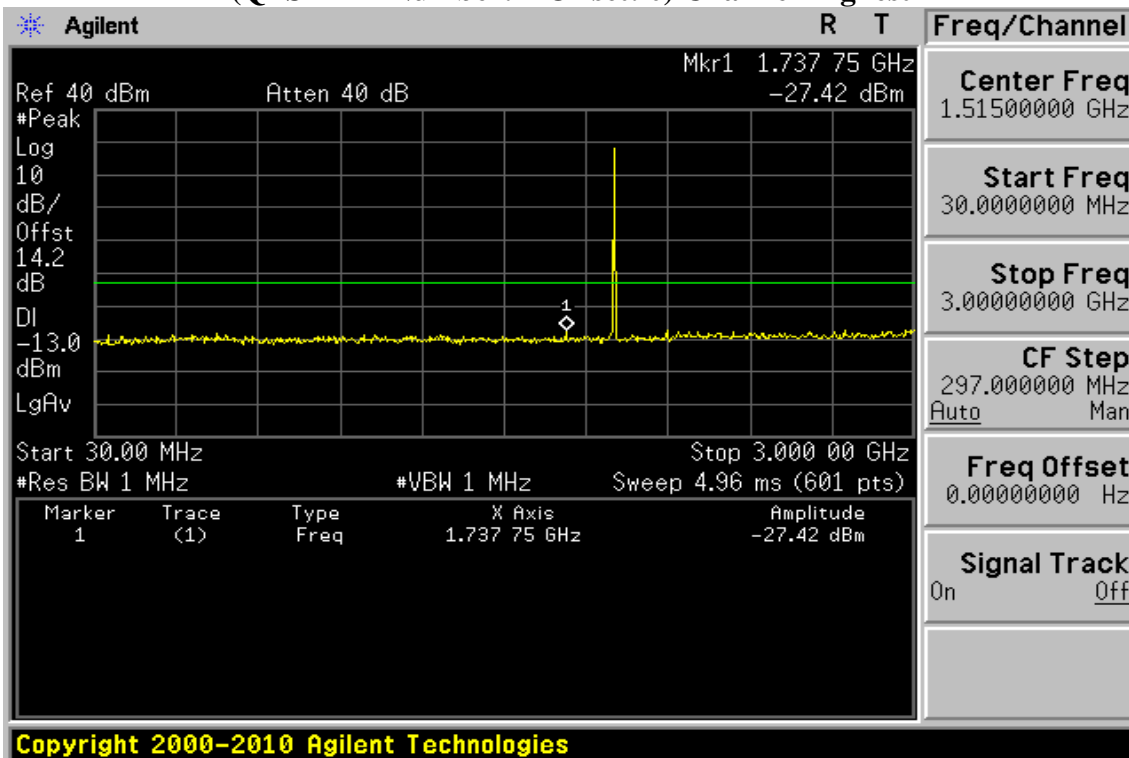
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**Figure 9-43: Out of Band emission at antenna terminals –3MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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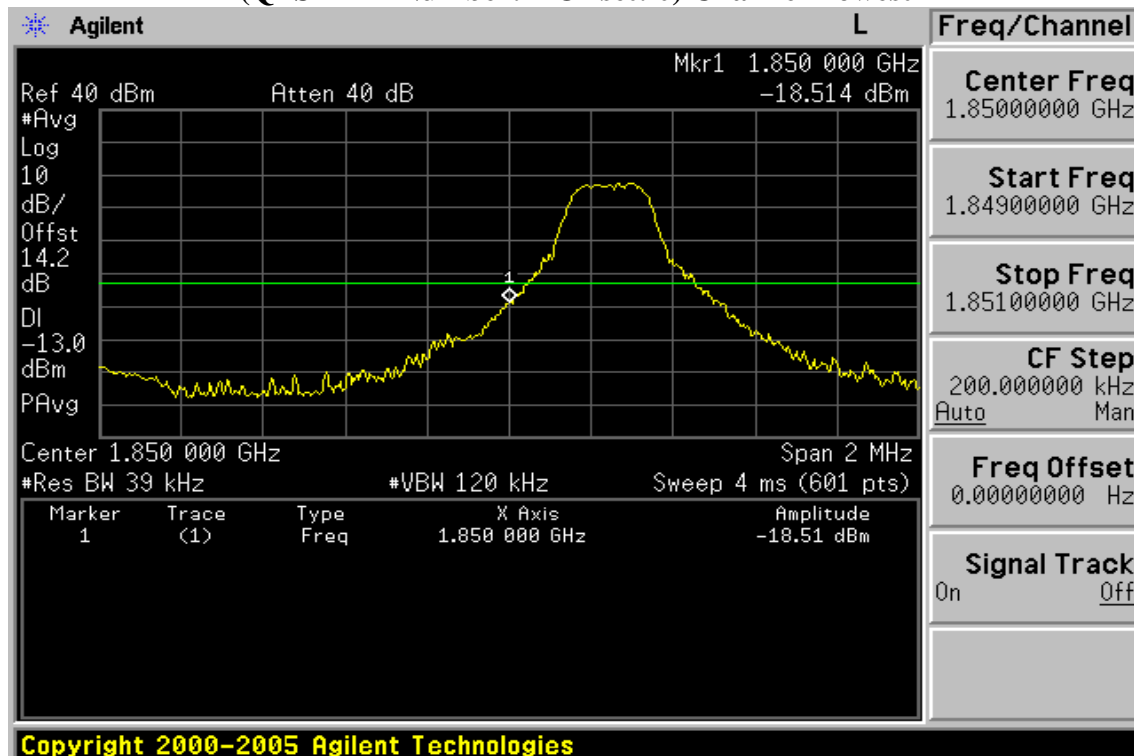
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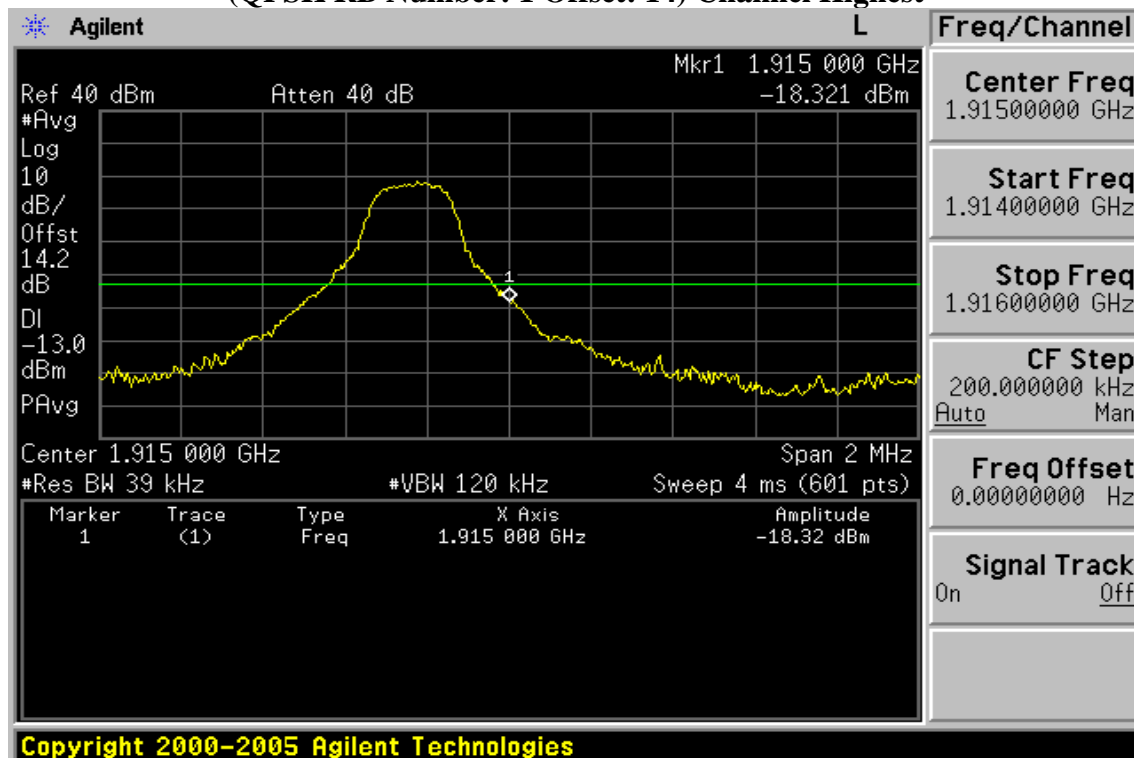
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**Figure 9-44: Band edge emission at antenna terminals – 3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-45: Band edge emission at antenna terminals – 3MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 14) Channel Highest**



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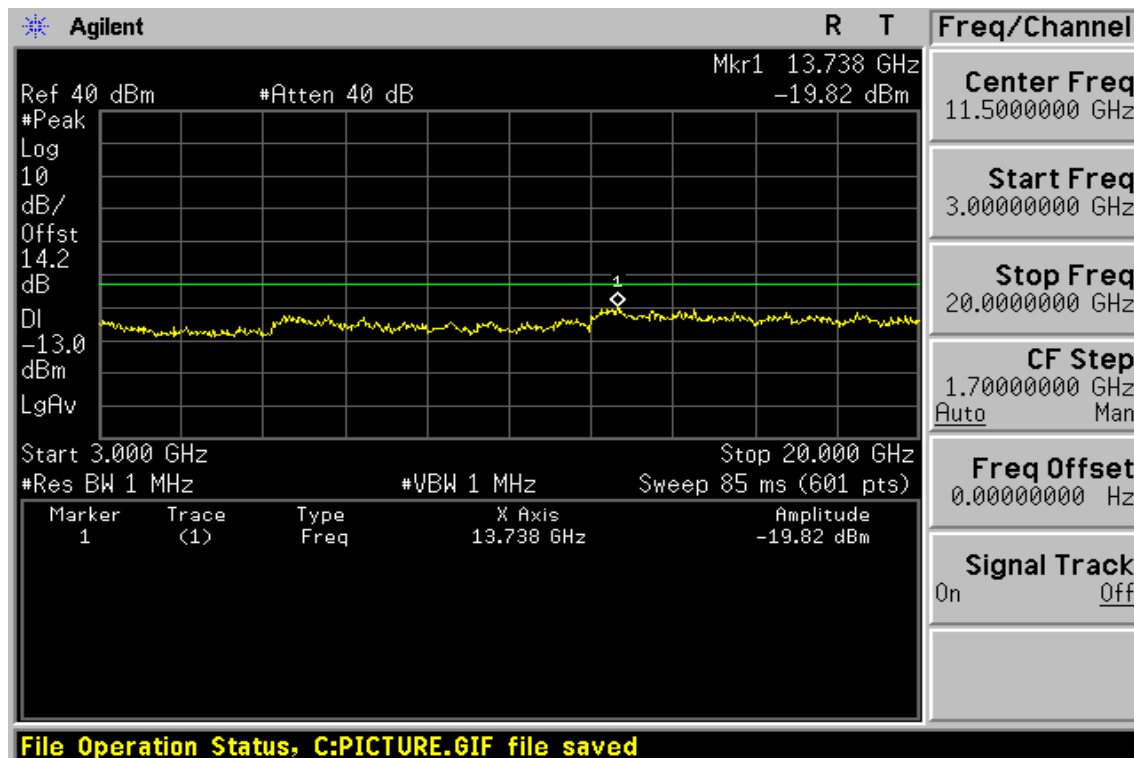
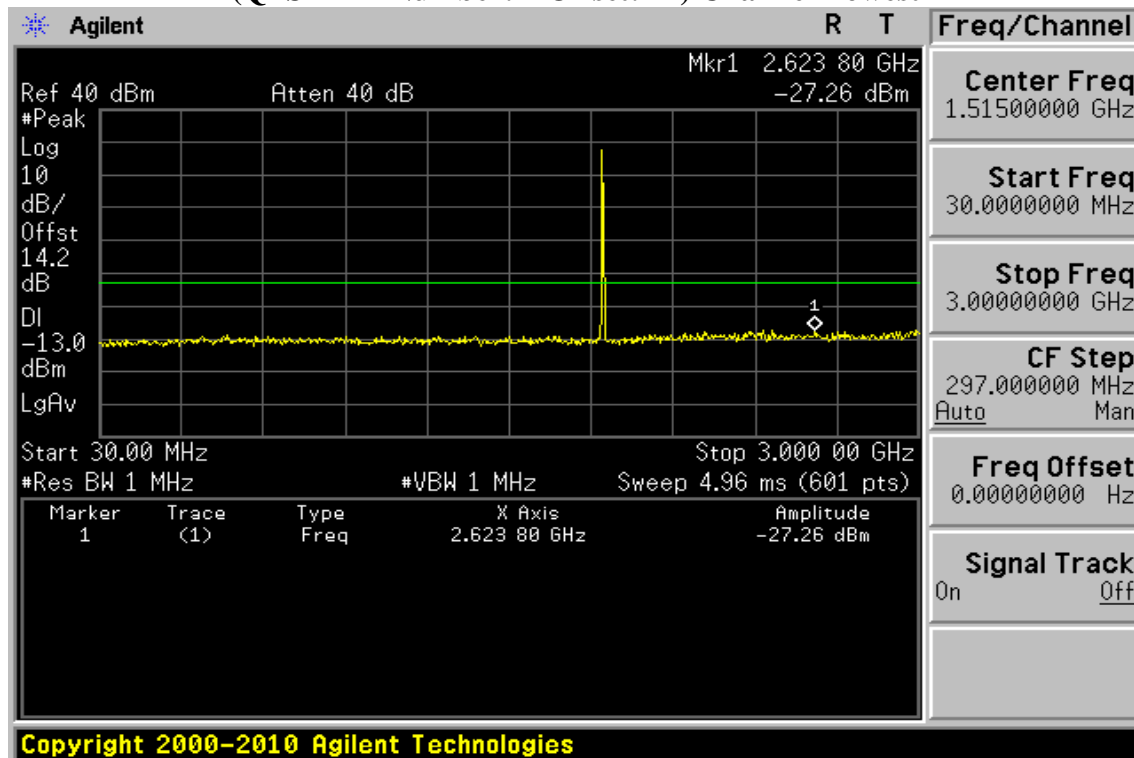
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**Figure 9-46: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 14) Channel Lowest**



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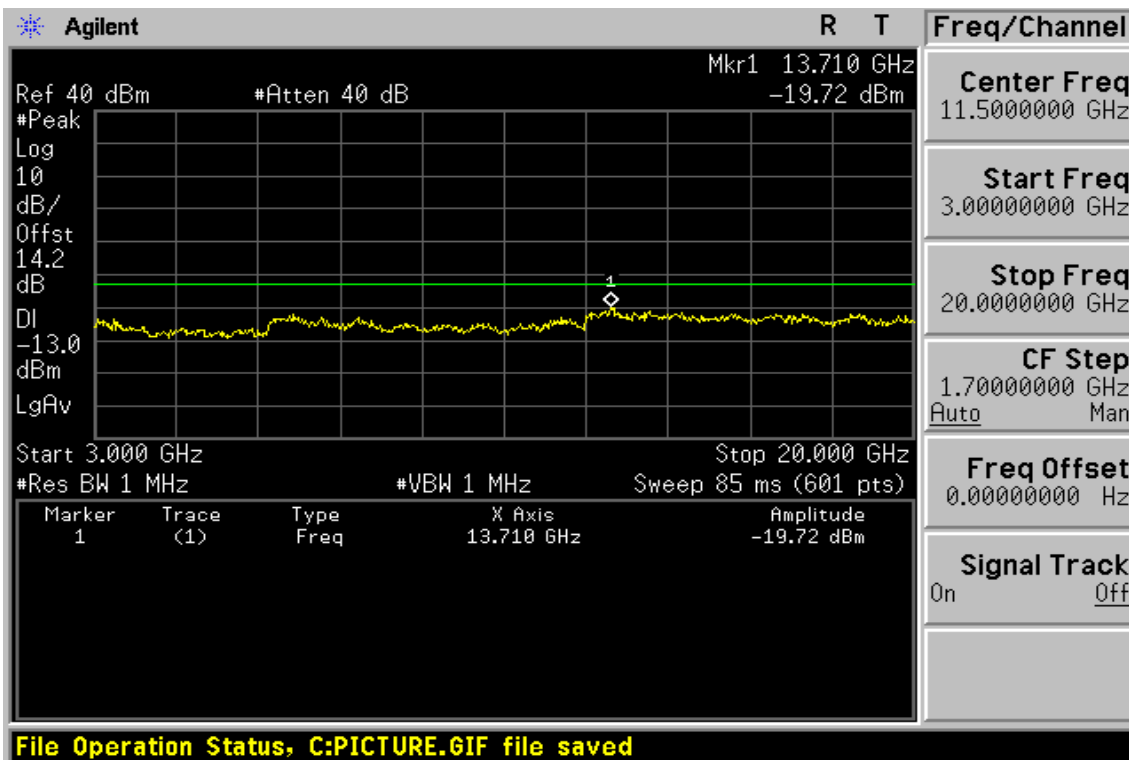
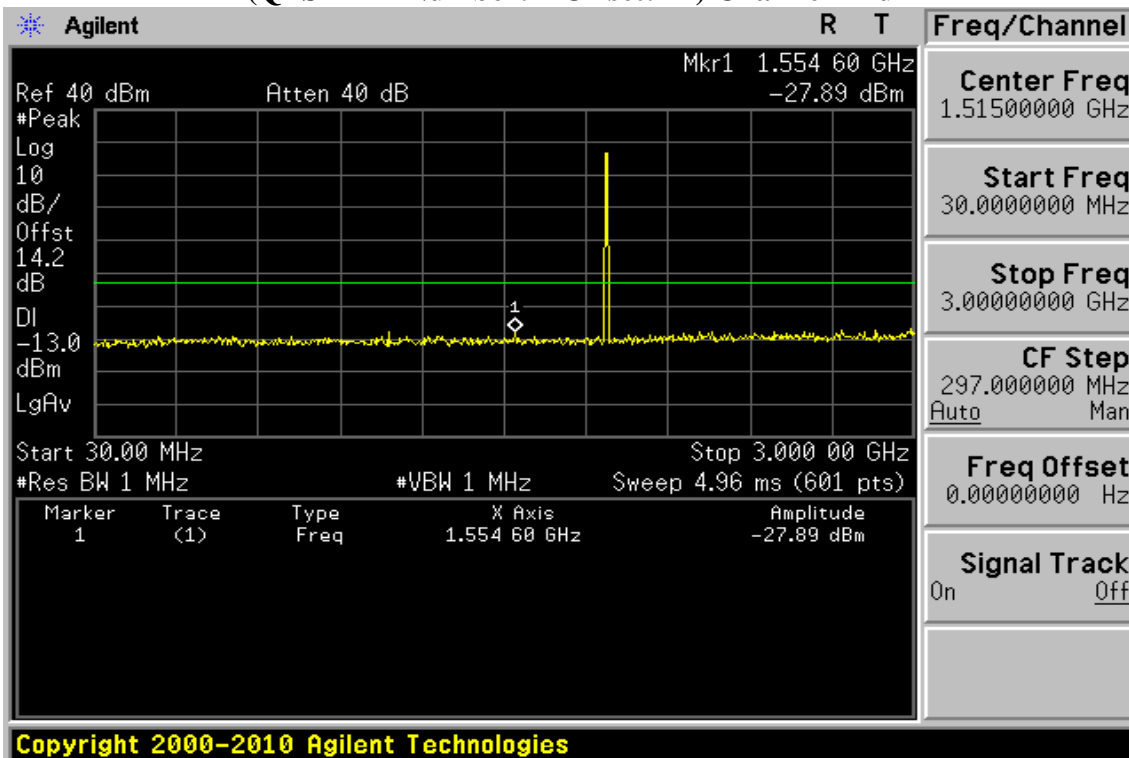
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**Figure 9-47: Out of Band emission at antenna terminals –3MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 14) Channel Mid**



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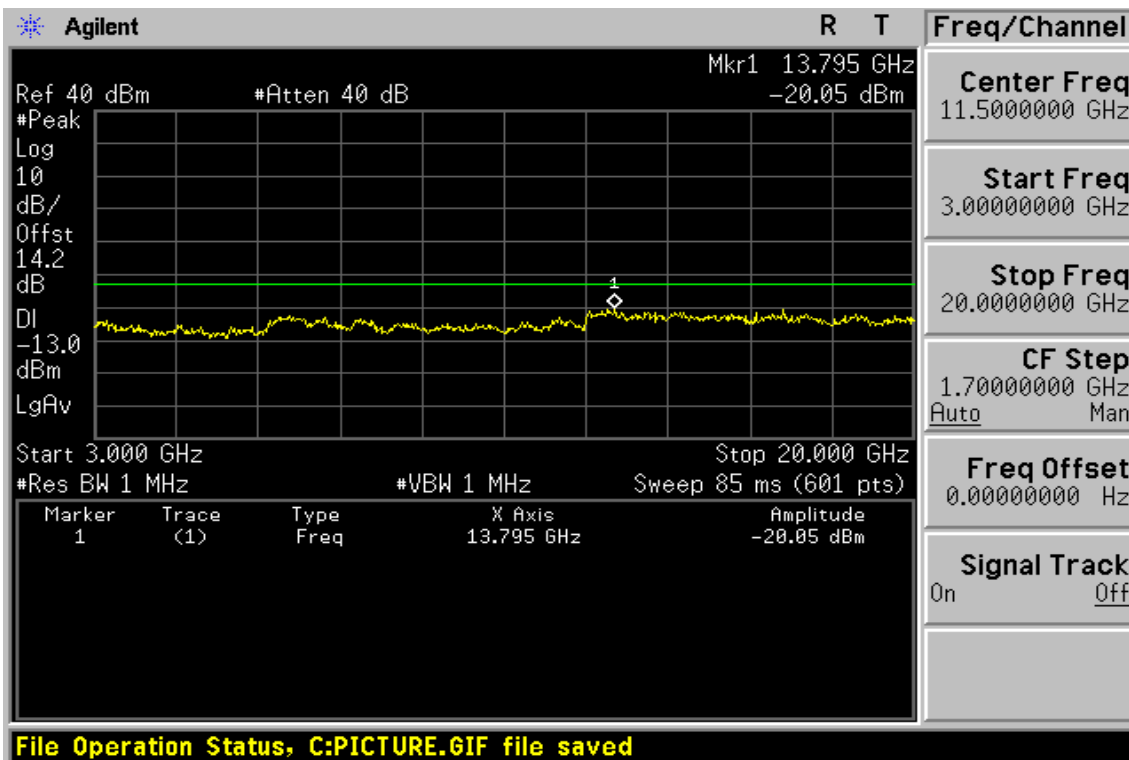
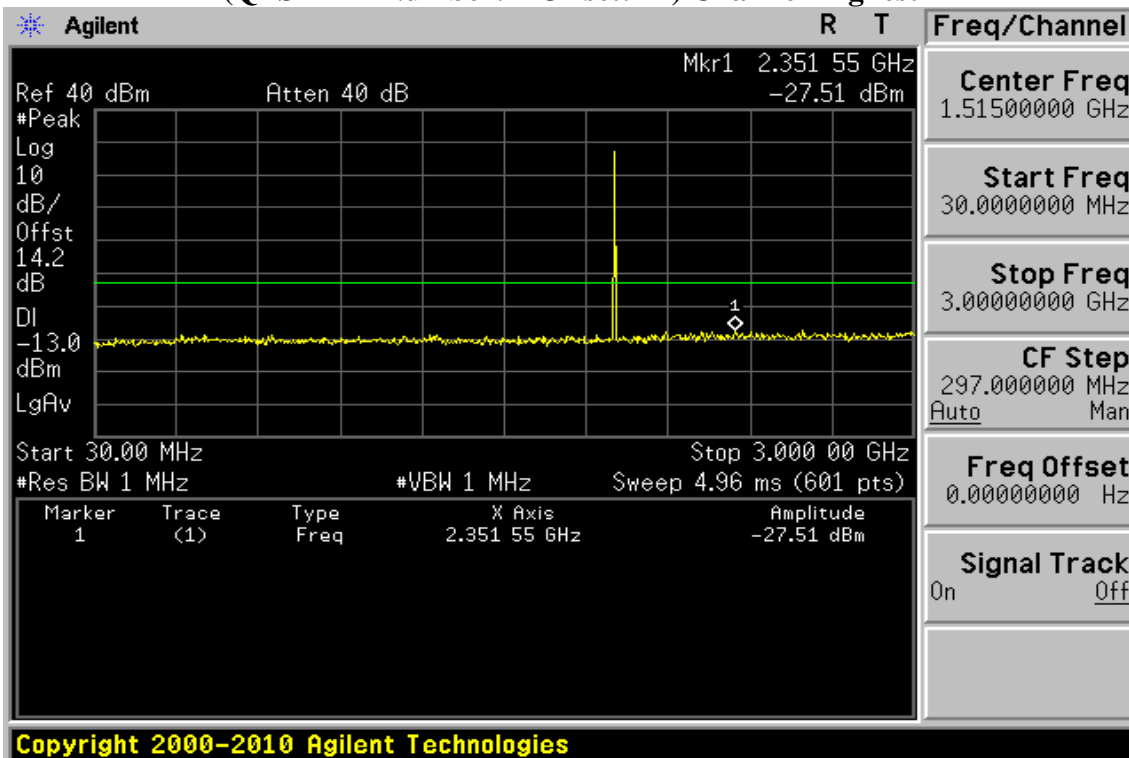
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**Figure 9-48: Out of Band emission at antenna terminals –3MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 14) Channel Highest**



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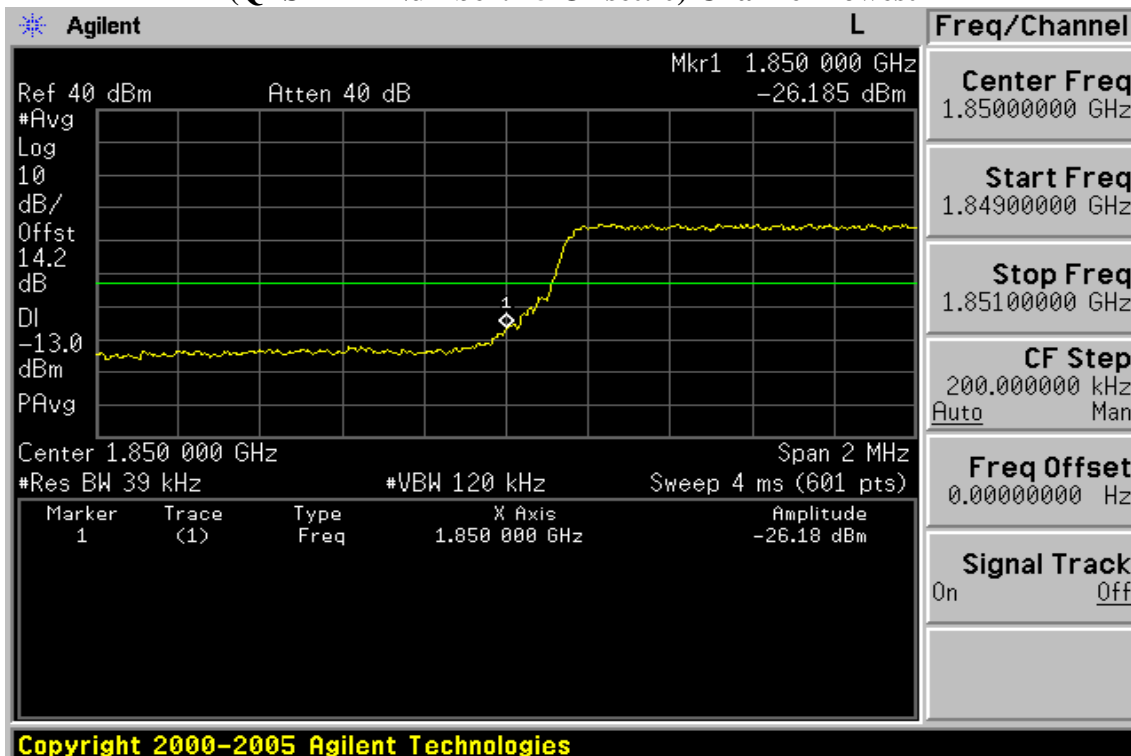
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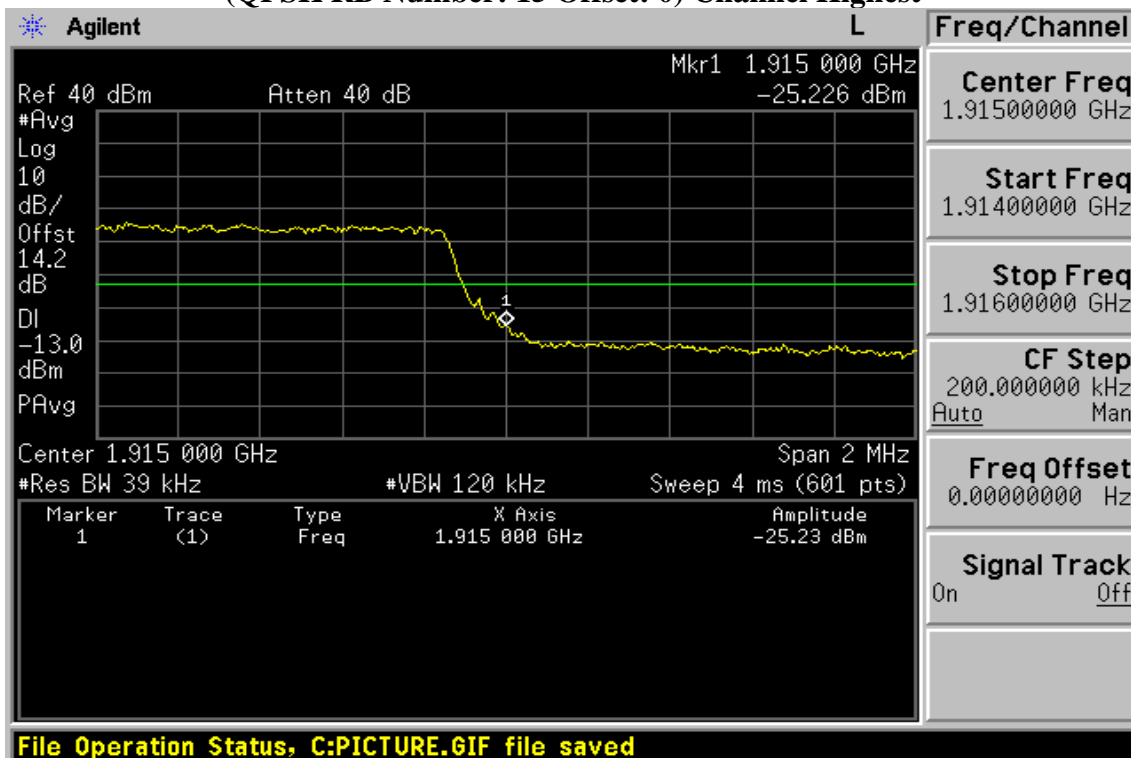
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**Figure 9-49: Band edge emission at antenna terminals – 3MHz BW LTE-Band 25  
(QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Figure 9-50: Band edge emission at antenna terminals – 3MHz BW LTE-Band 25  
(QPSK RB Number: 15 Offset: 0) Channel Highest**



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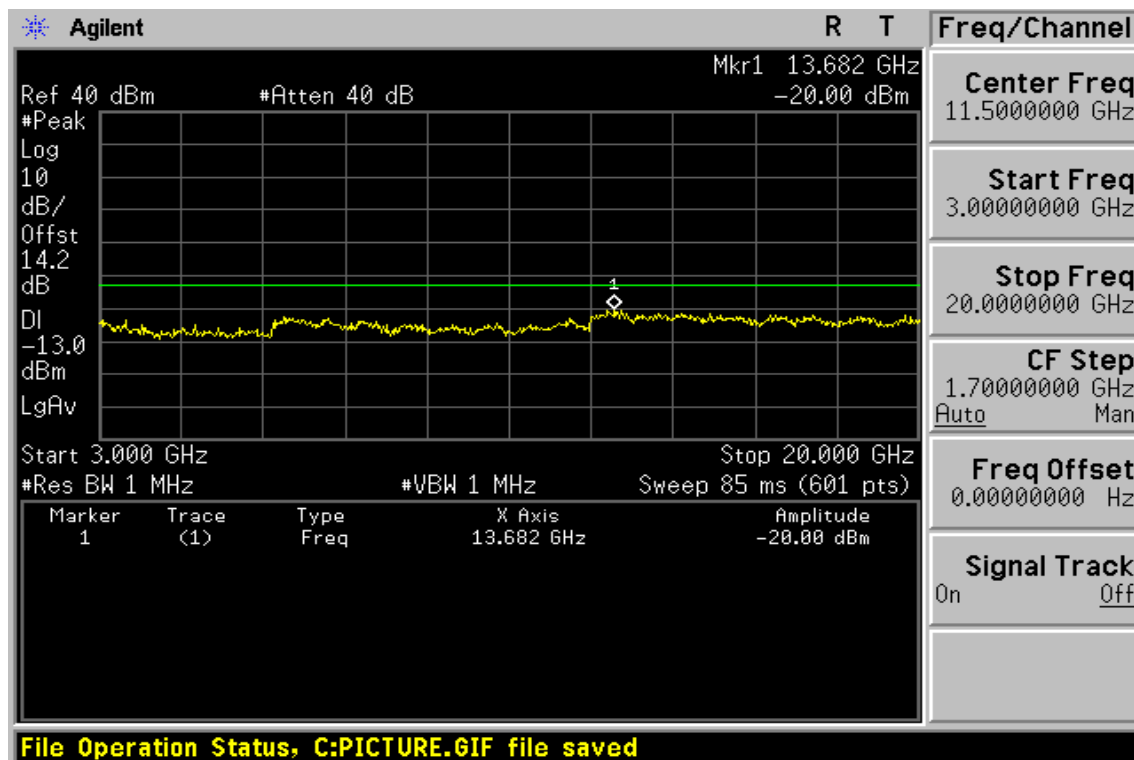
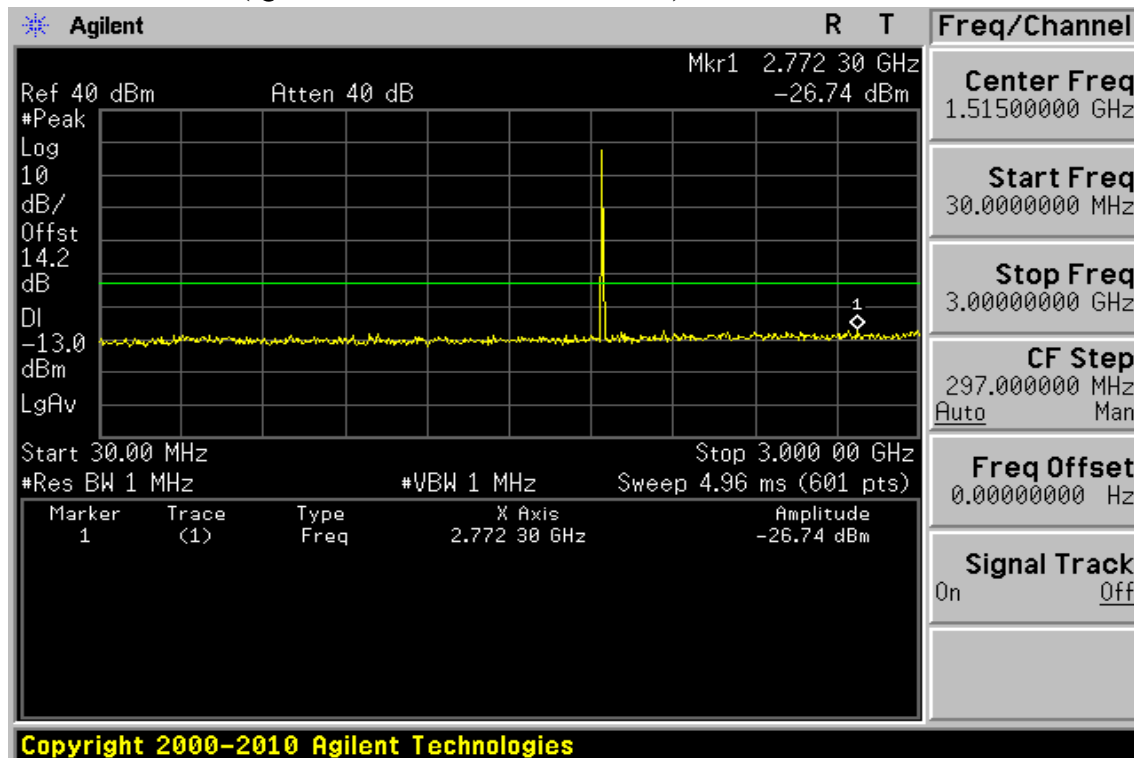
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**Figure 9-51: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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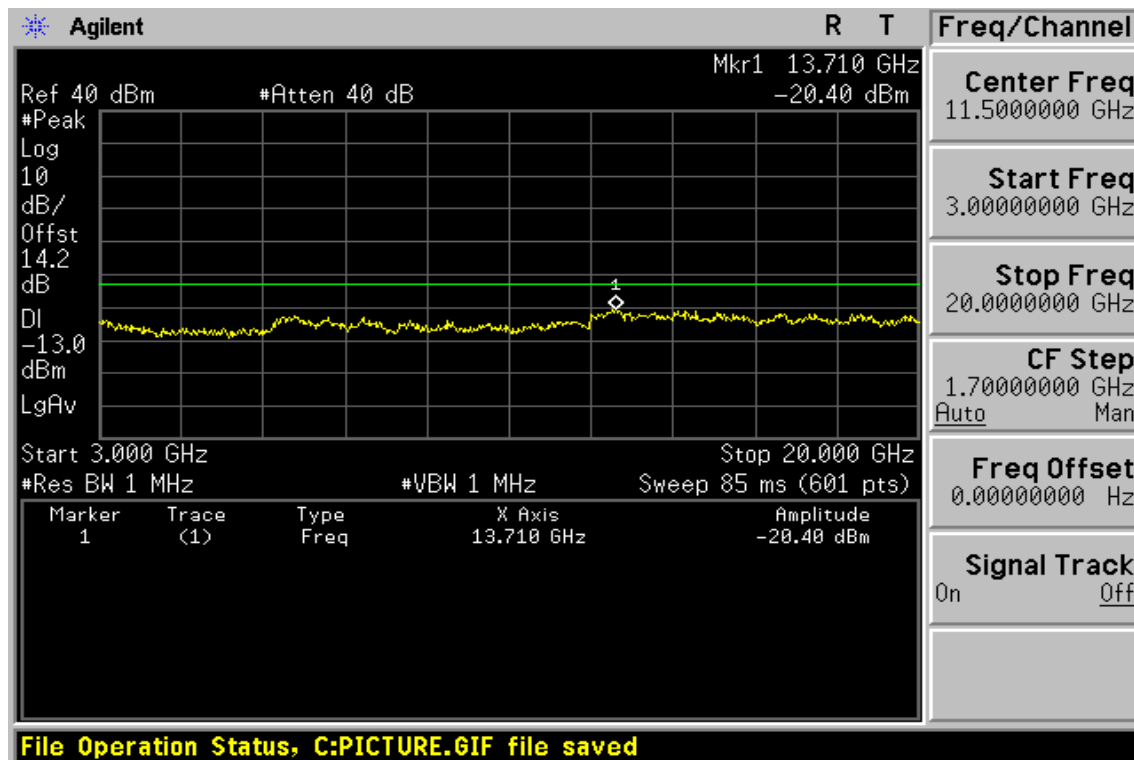
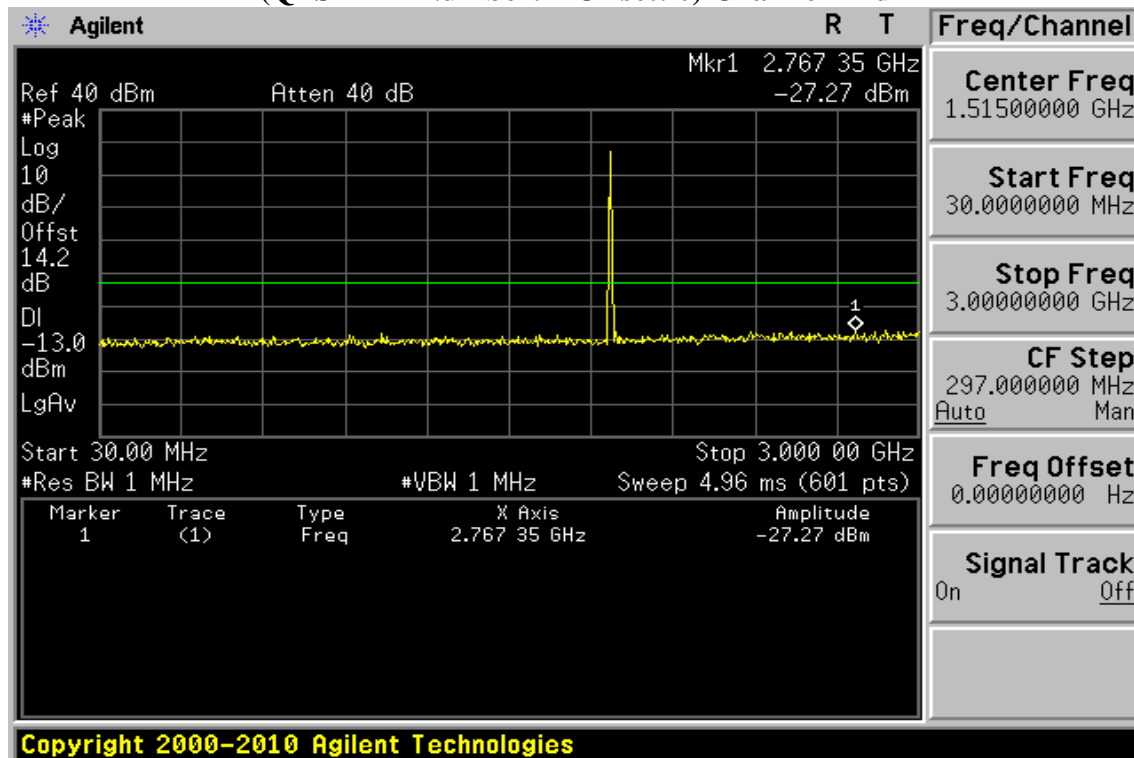
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**Figure 9-52: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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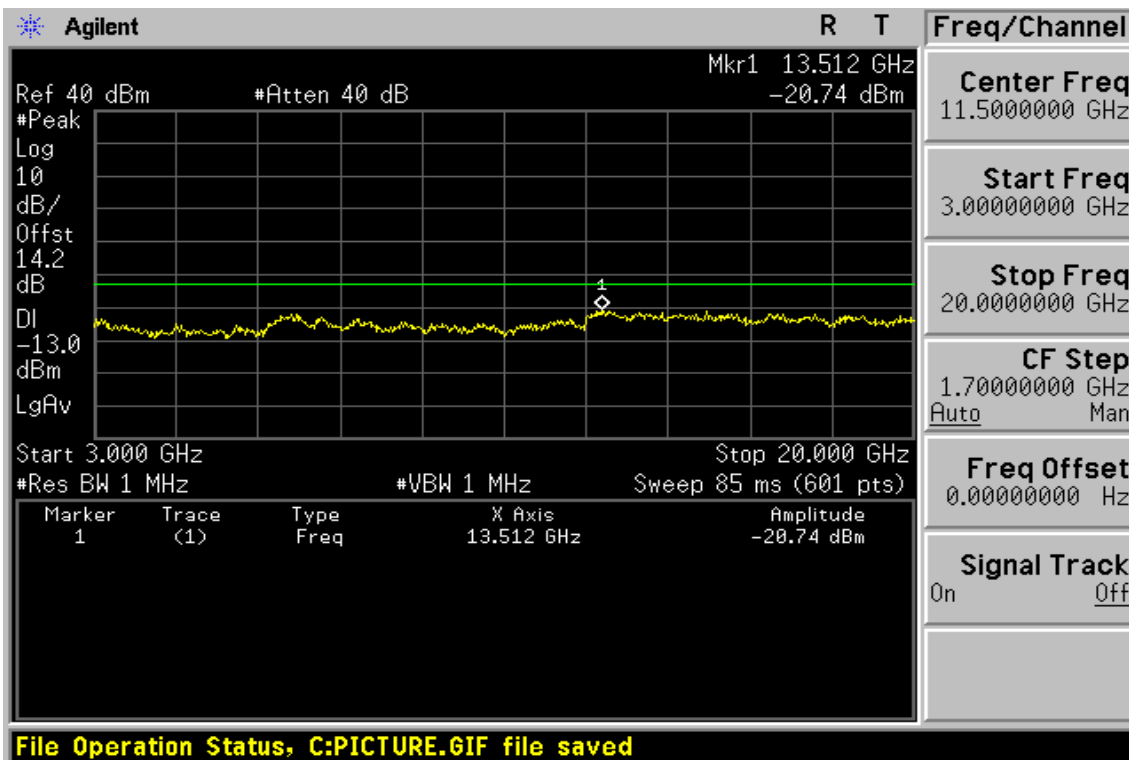
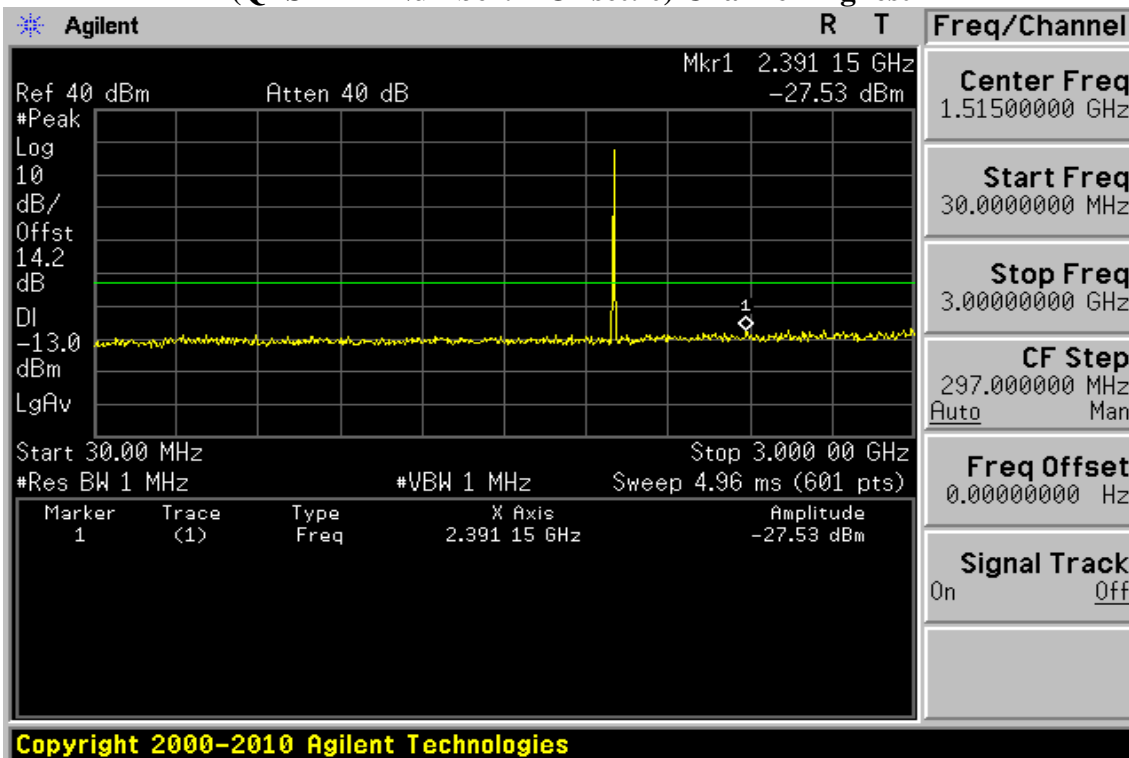
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**Figure 9-53: Out of Band emission at antenna terminals –5MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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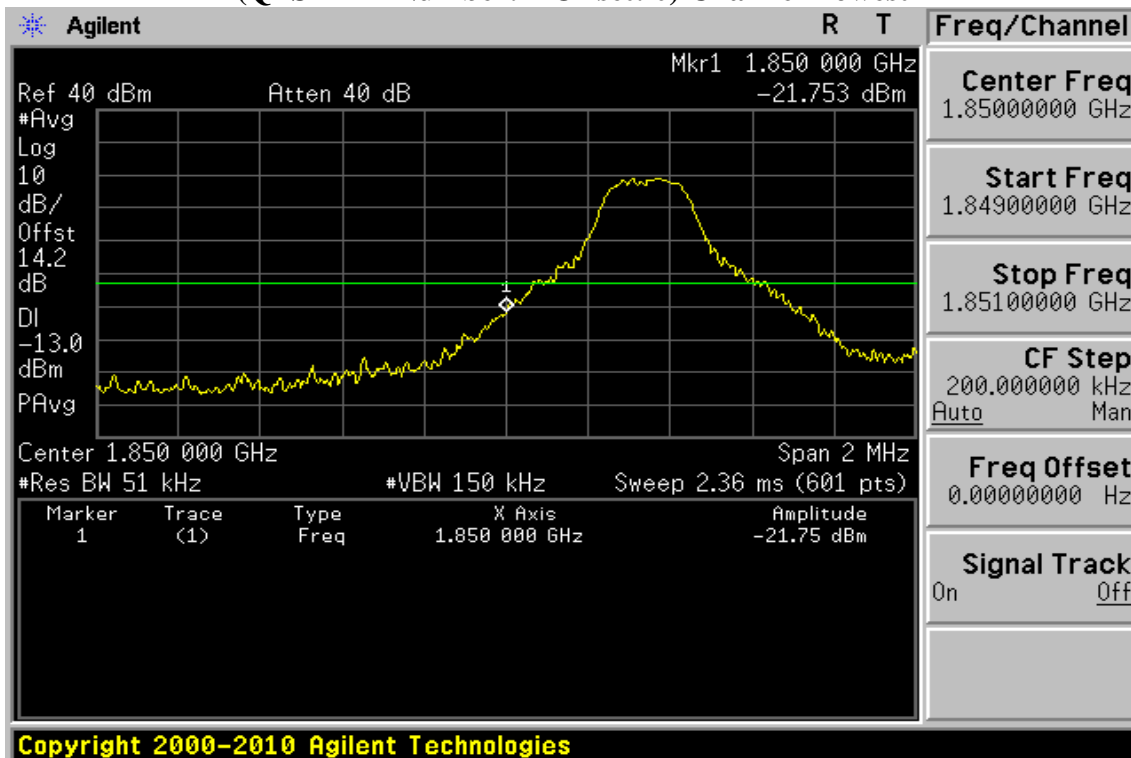
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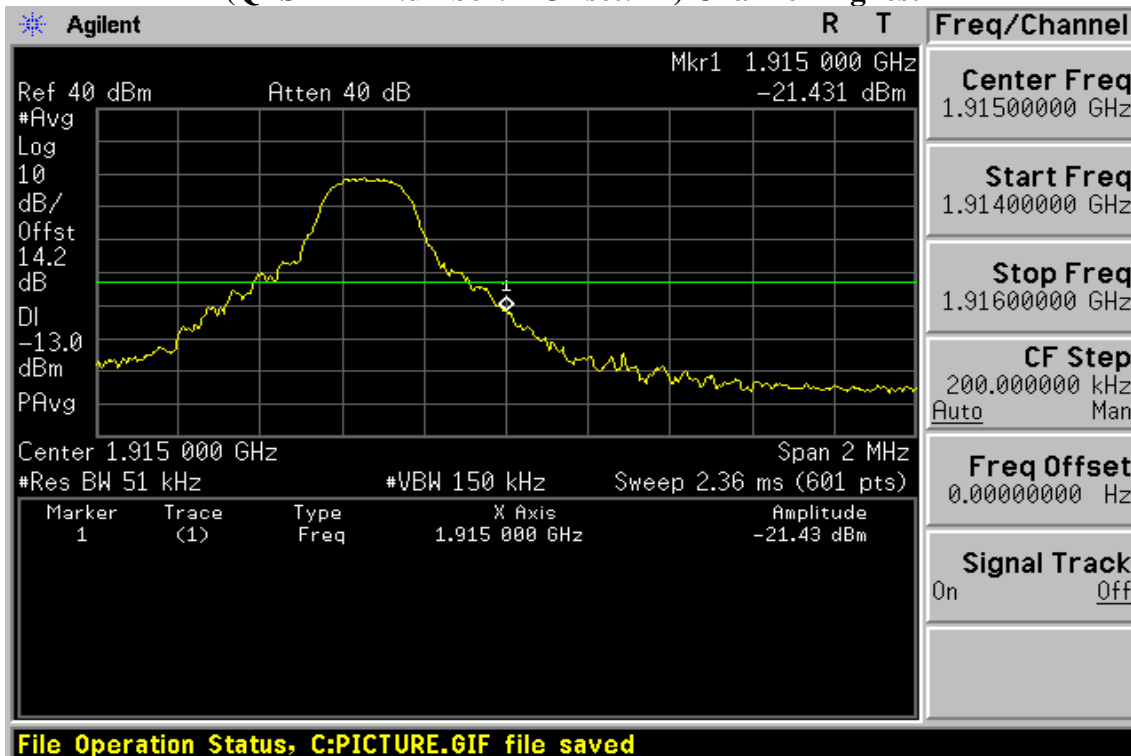
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**Figure 9-54: Band edge emission at antenna terminals – 5MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-55: Band edge emission at antenna terminals – 5MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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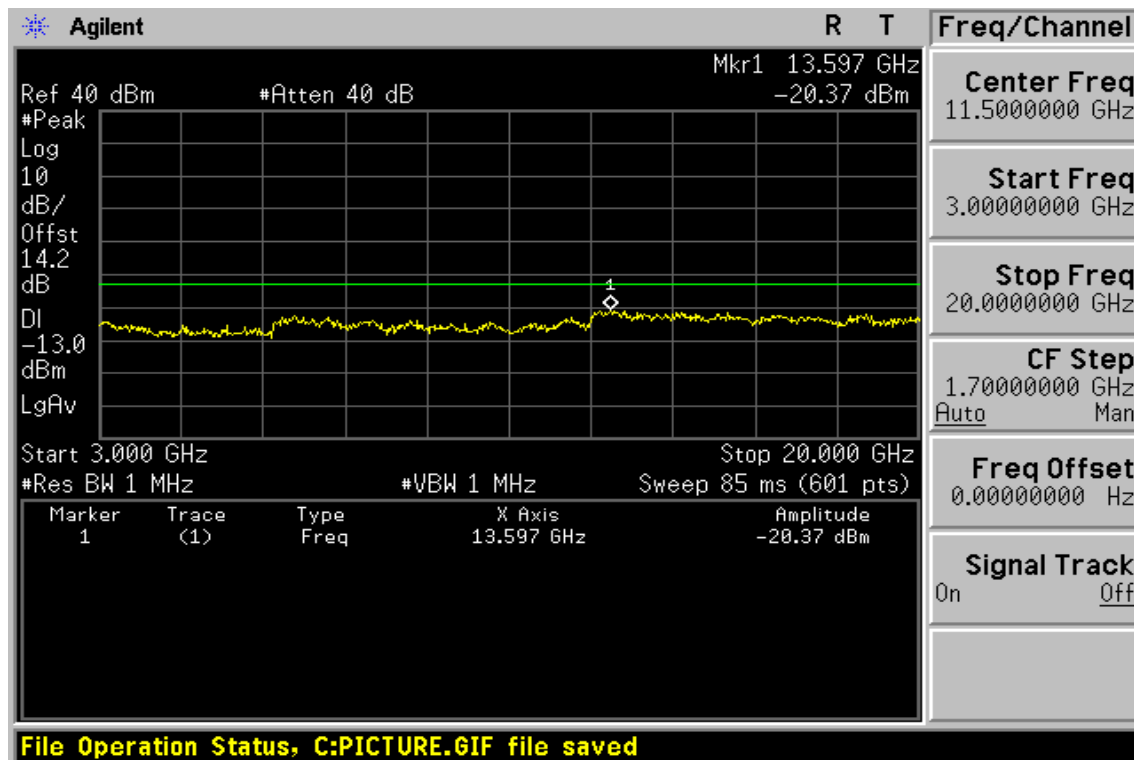
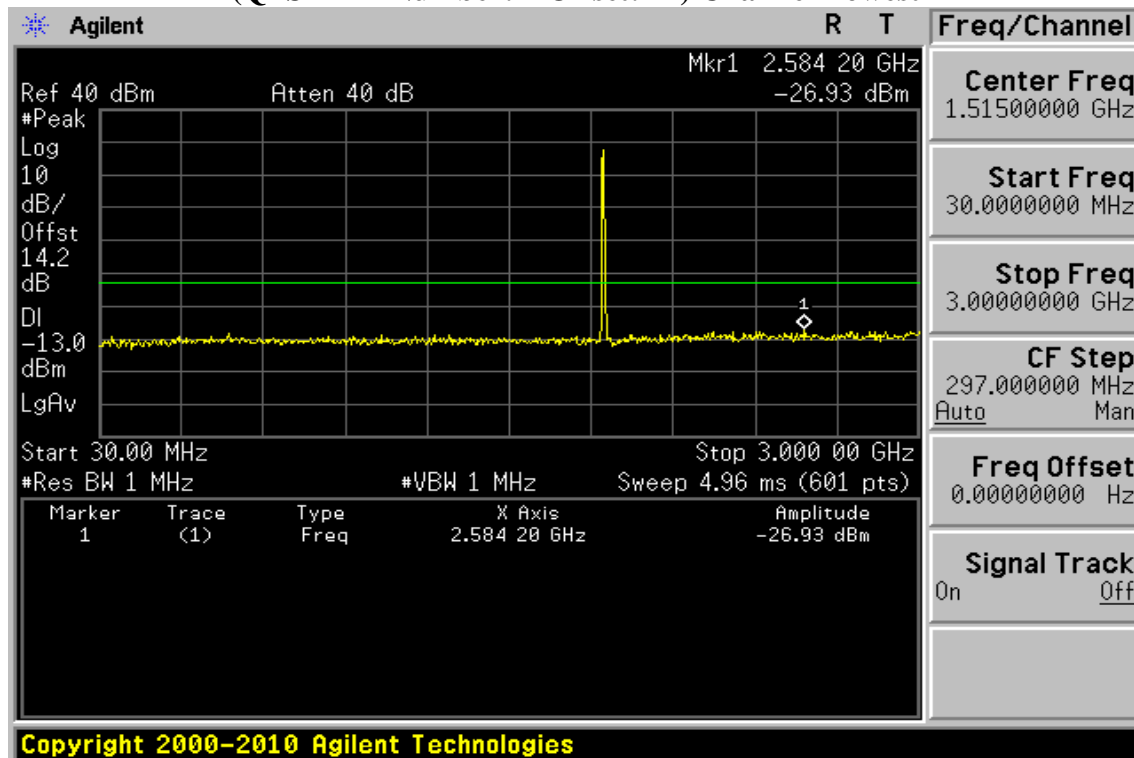
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**Figure 9-56: Out of Band emission at antenna terminals – 5MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 24) Channel Lowest**



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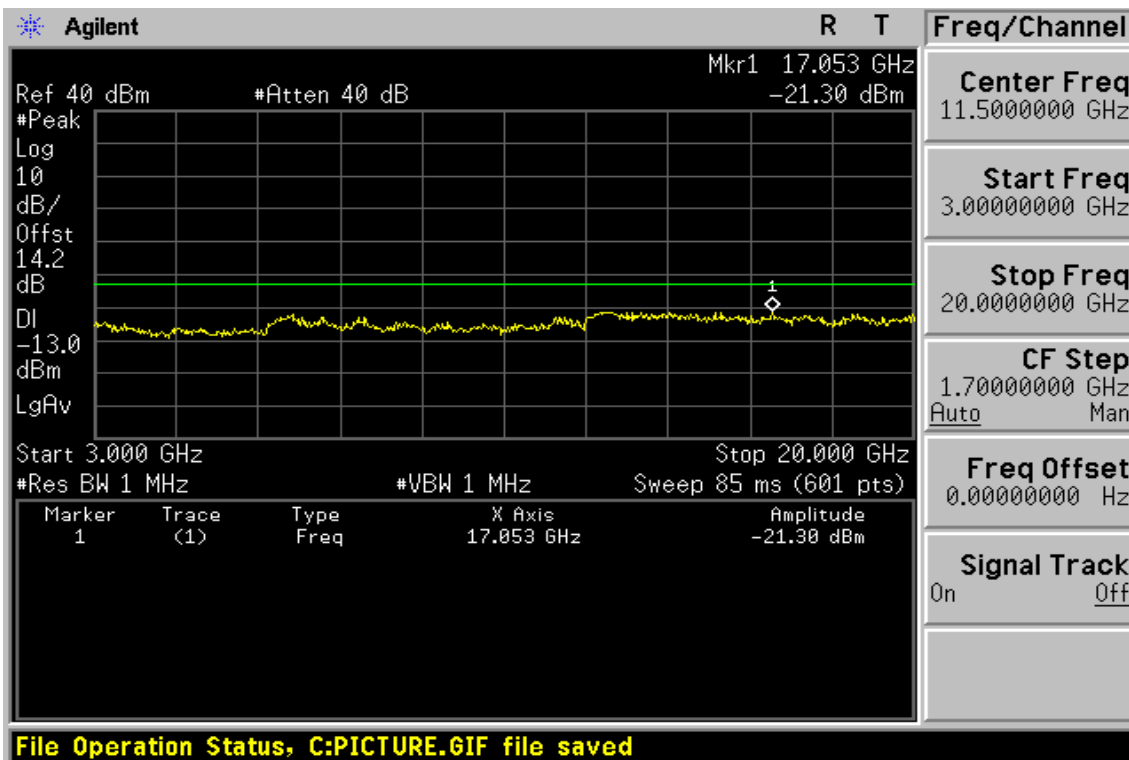
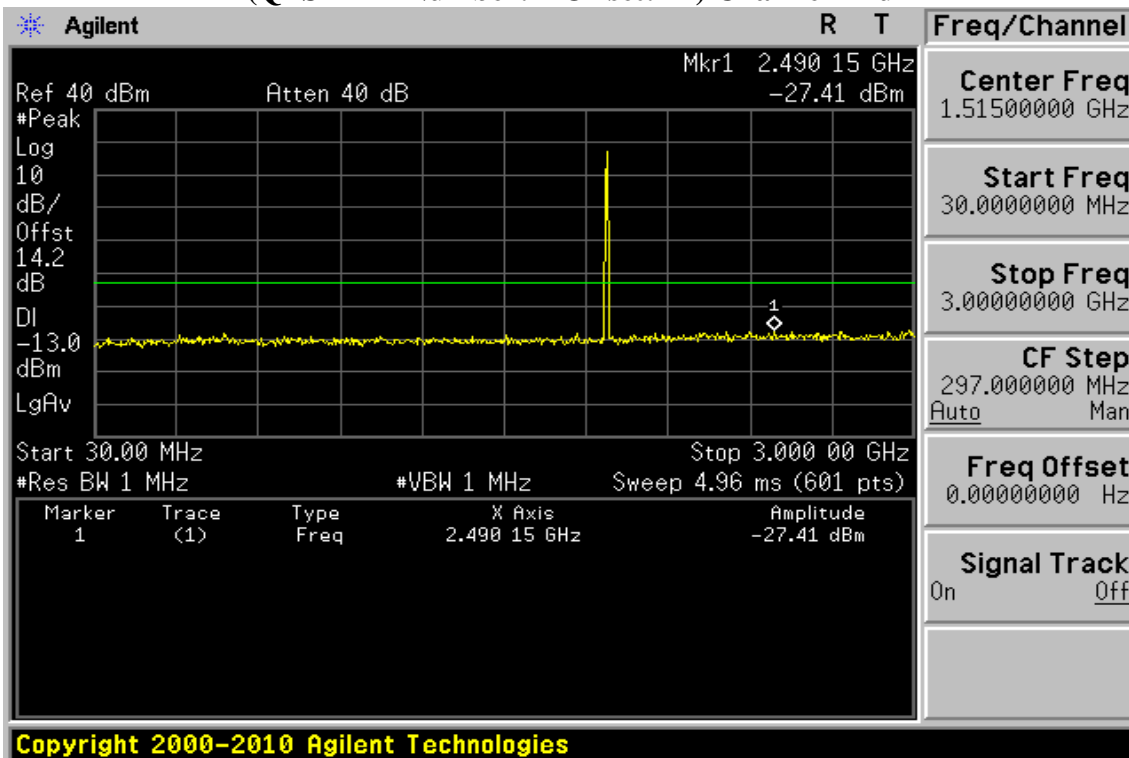
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**Figure 9-57: Out of Band emission at antenna terminals –5MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 24) Channel Mid**



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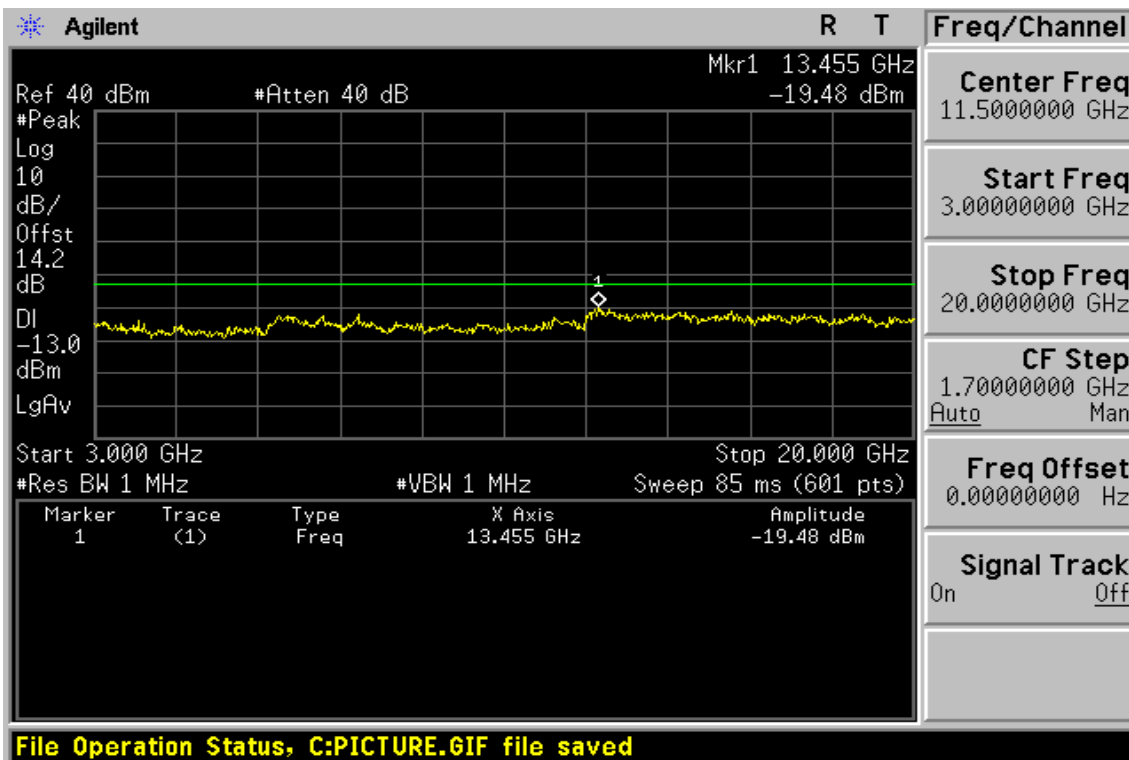
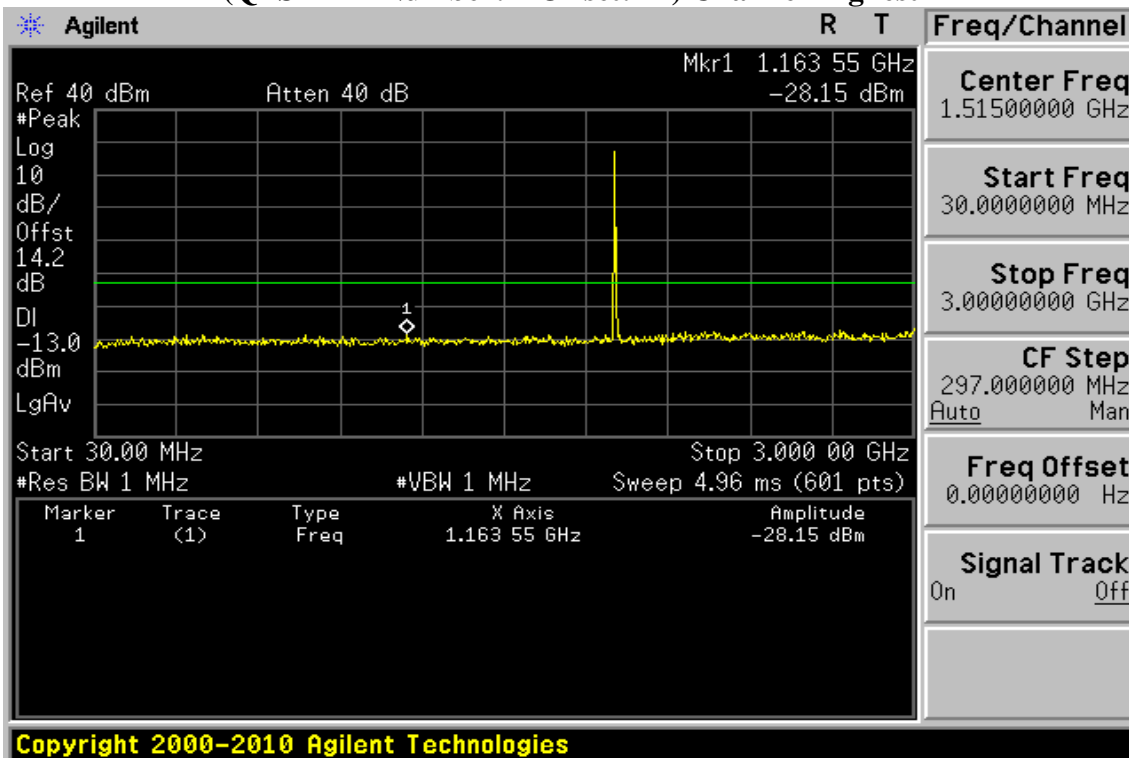
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**Figure 9-58: Out of Band emission at antenna terminals –5MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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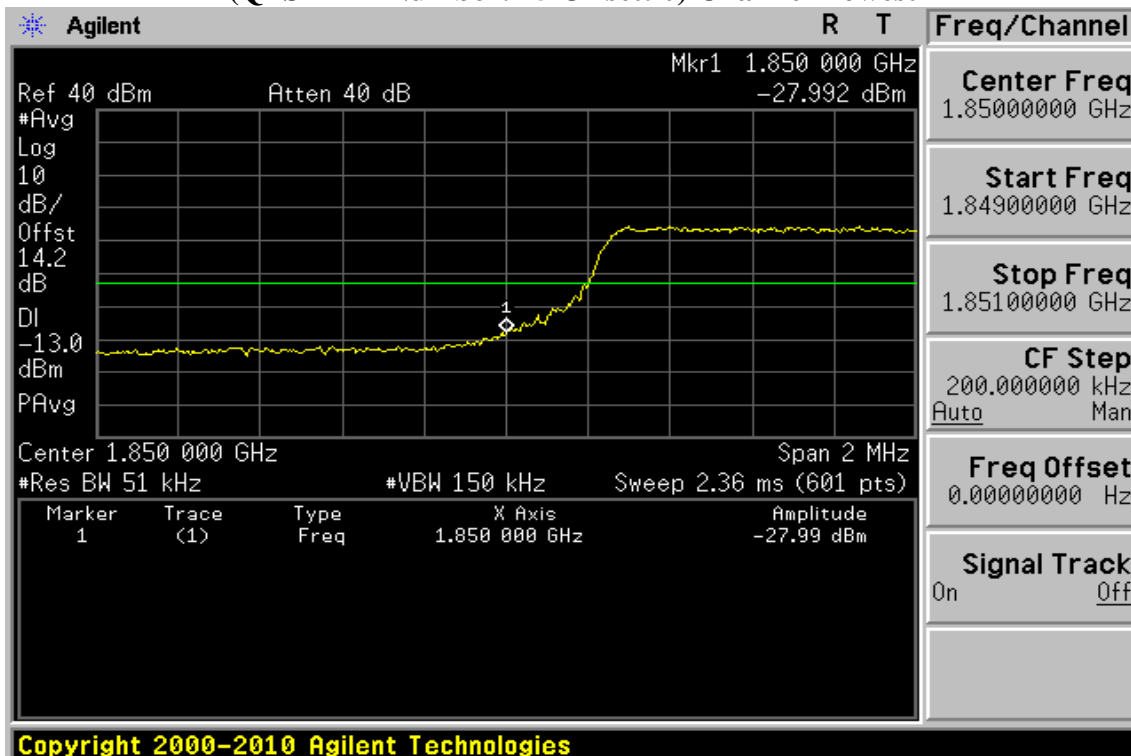
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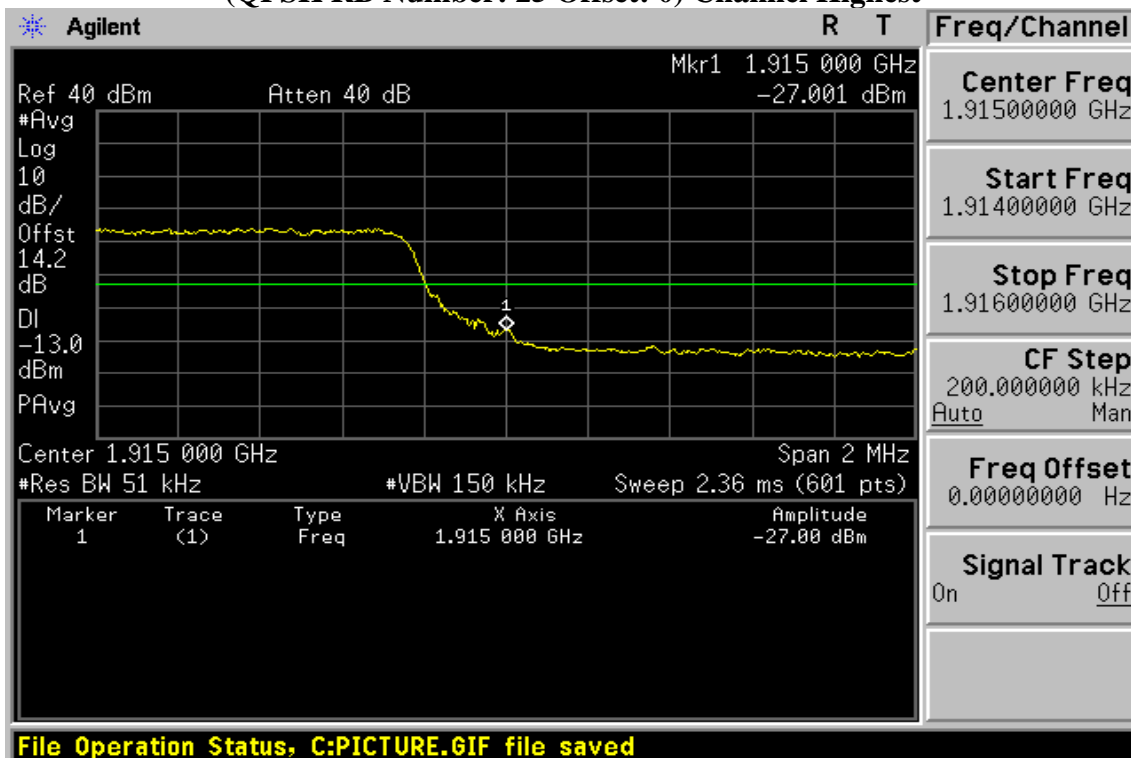
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**Figure 9-59: Band edge emission at antenna terminals – 5MHz BW LTE-Band 25  
(QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Figure 9-60: Band edge emission at antenna terminals – 5MHz BW LTE-Band 25  
(QPSK RB Number: 25 Offset: 0) Channel Highest**



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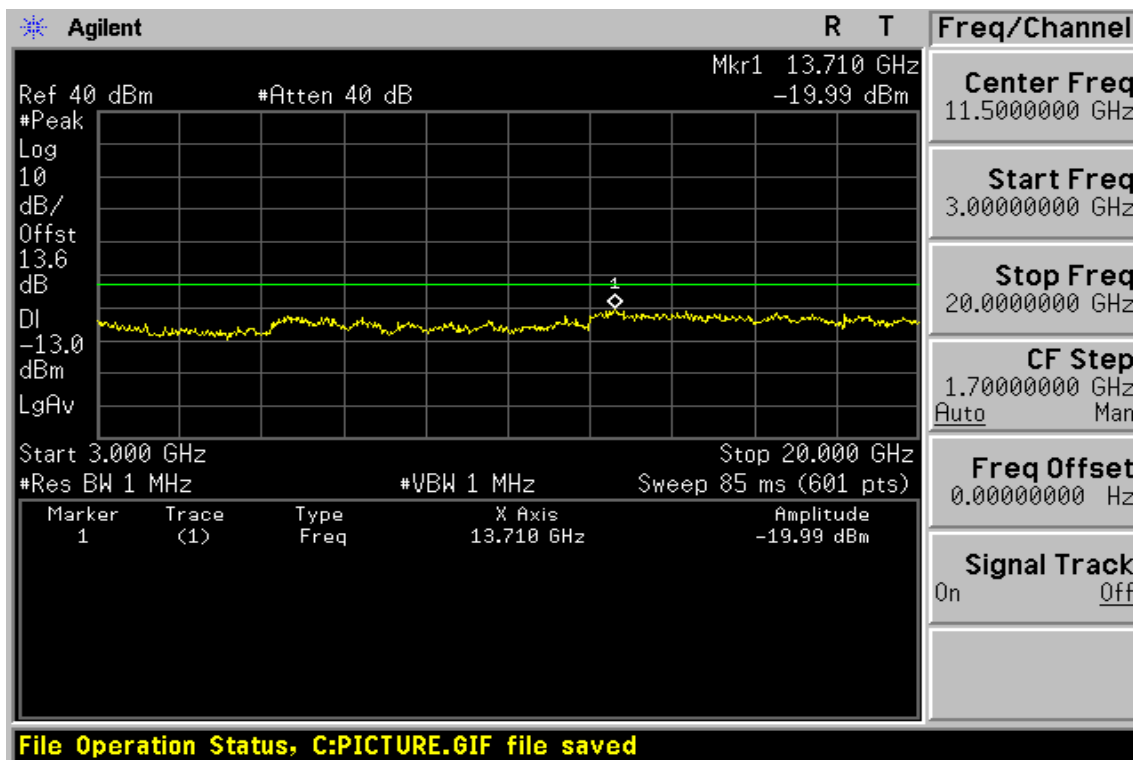
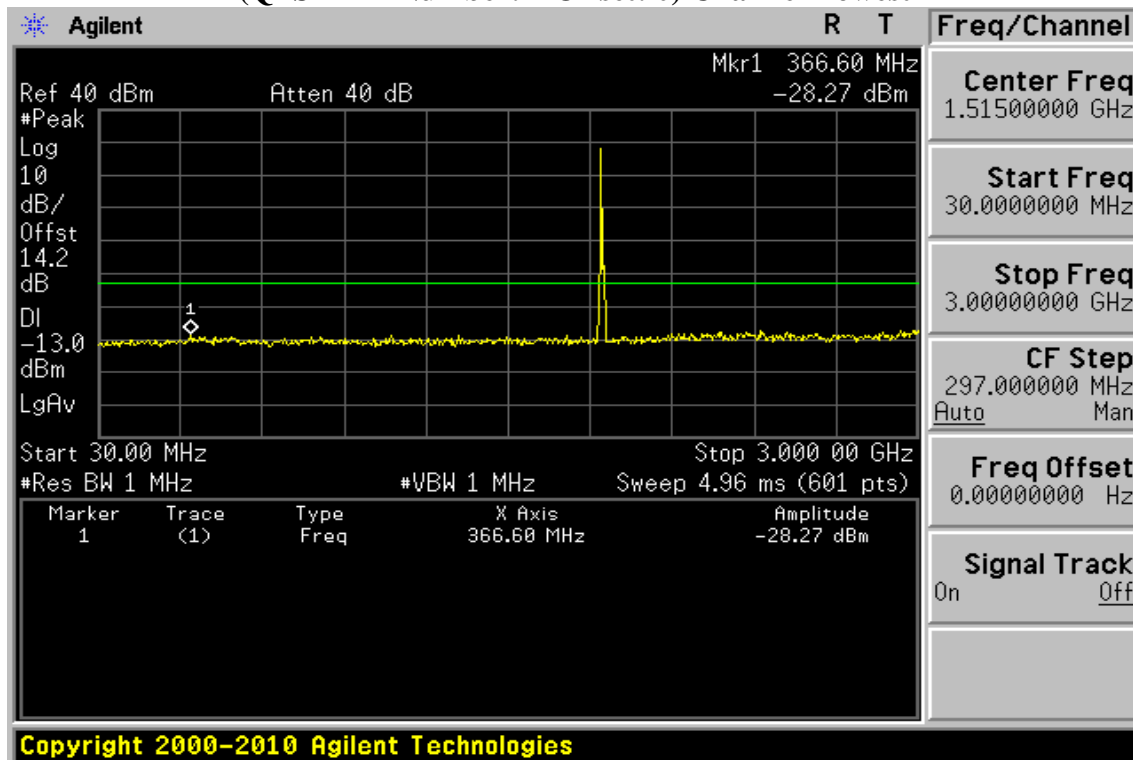
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**Figure 9-61: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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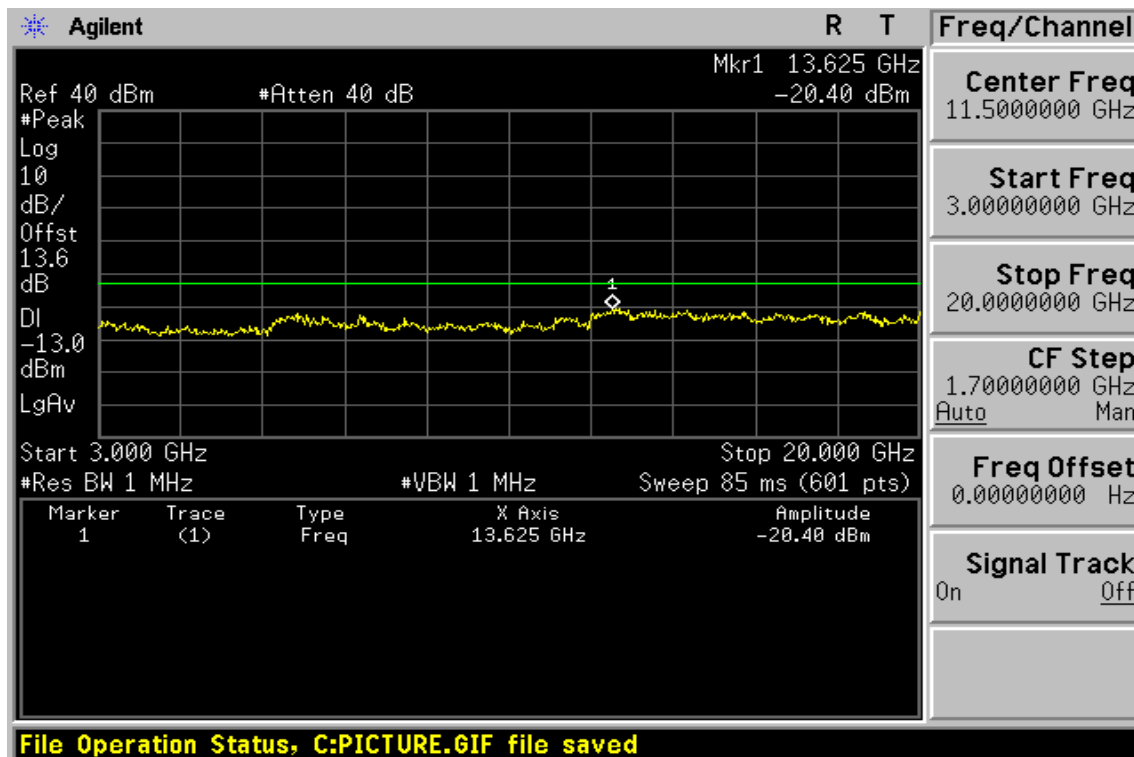
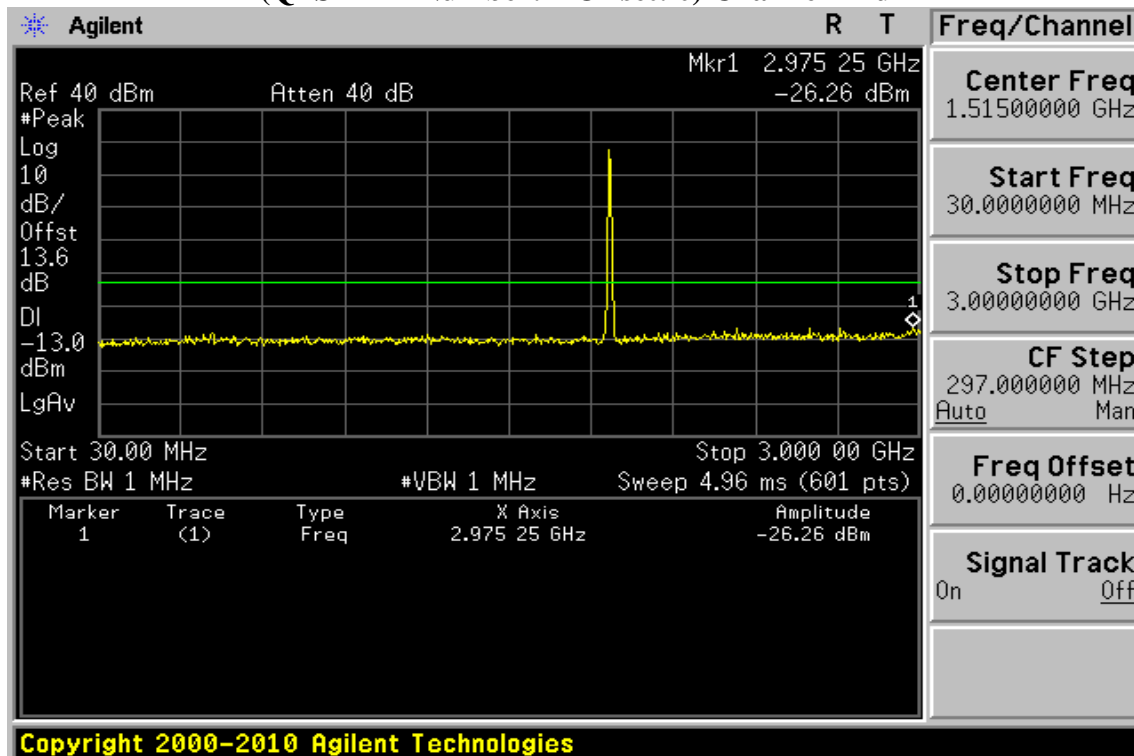
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**Figure 9-62: Out of Band emission at antenna terminals –10MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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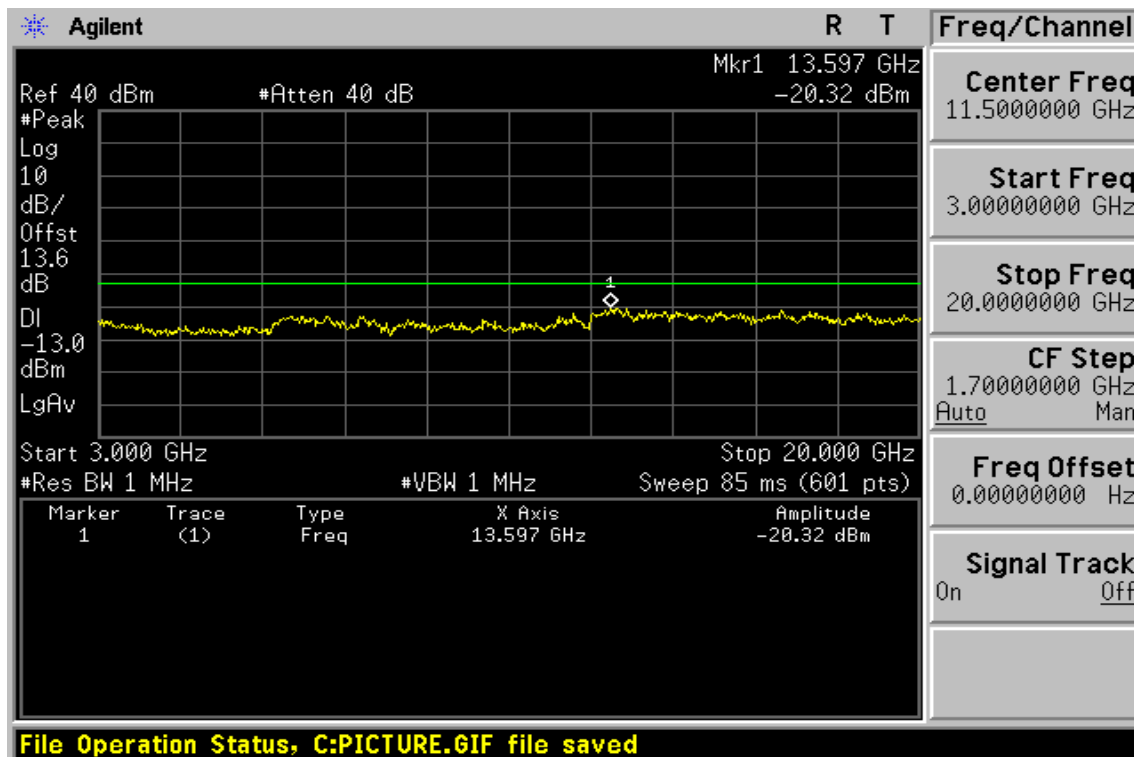
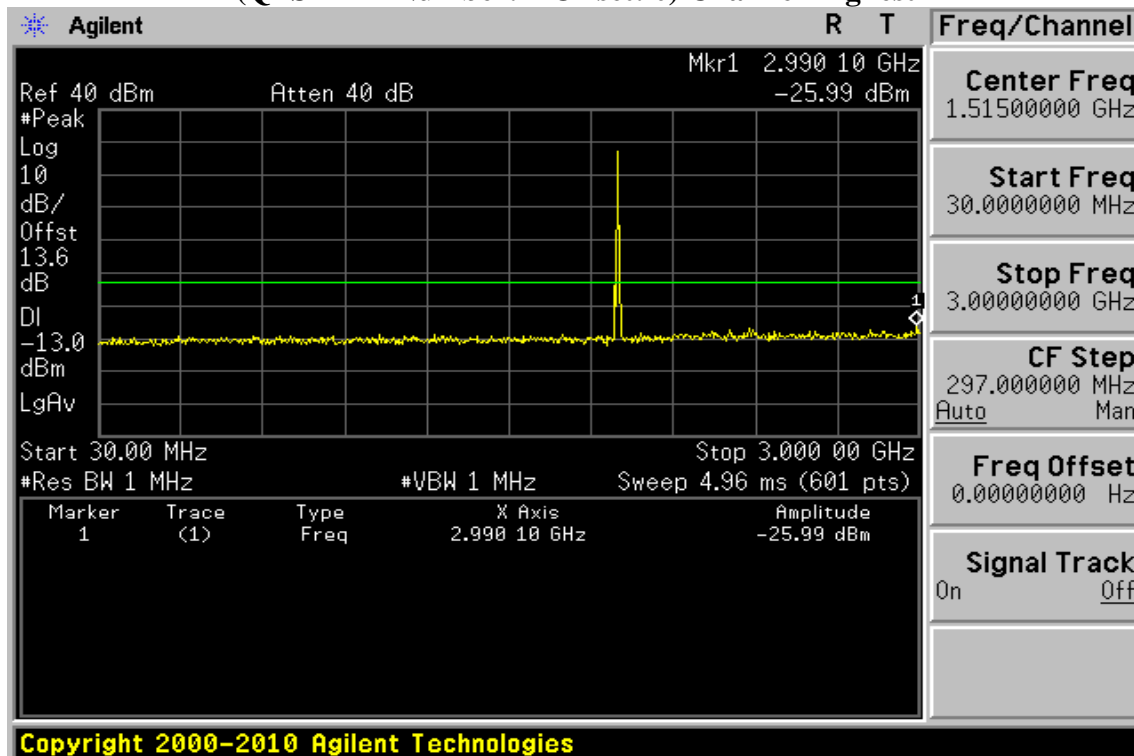
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**Figure 9-63: Out of Band emission at antenna terminals –10MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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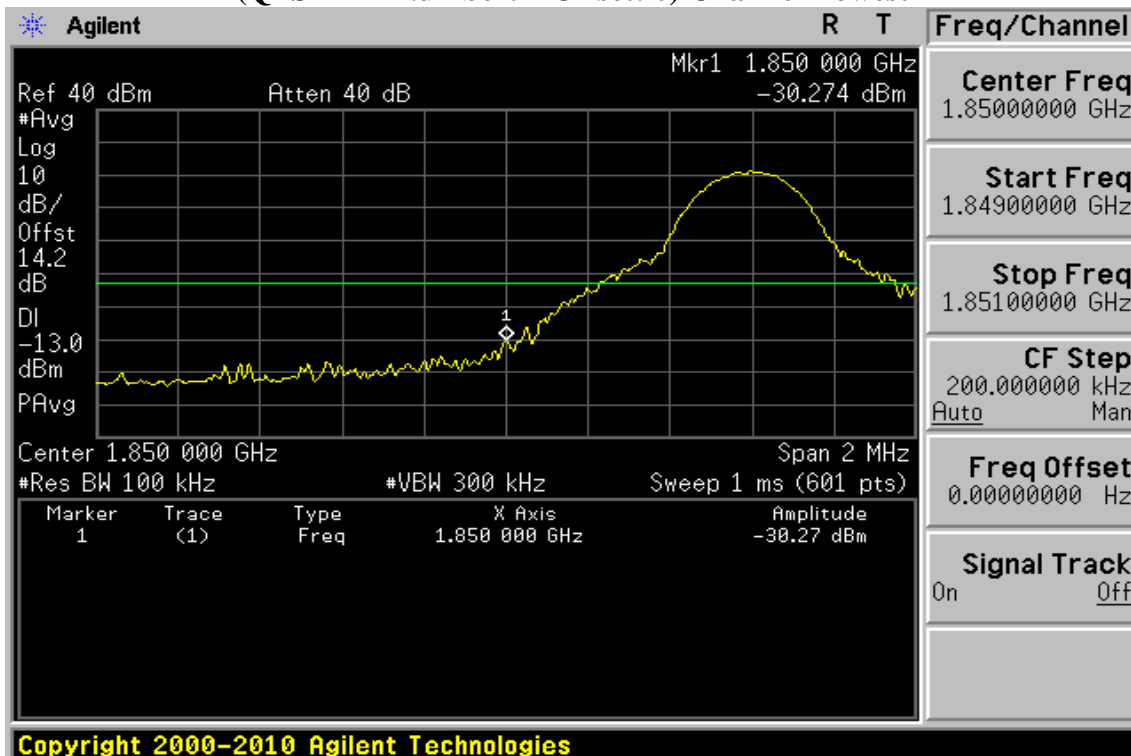
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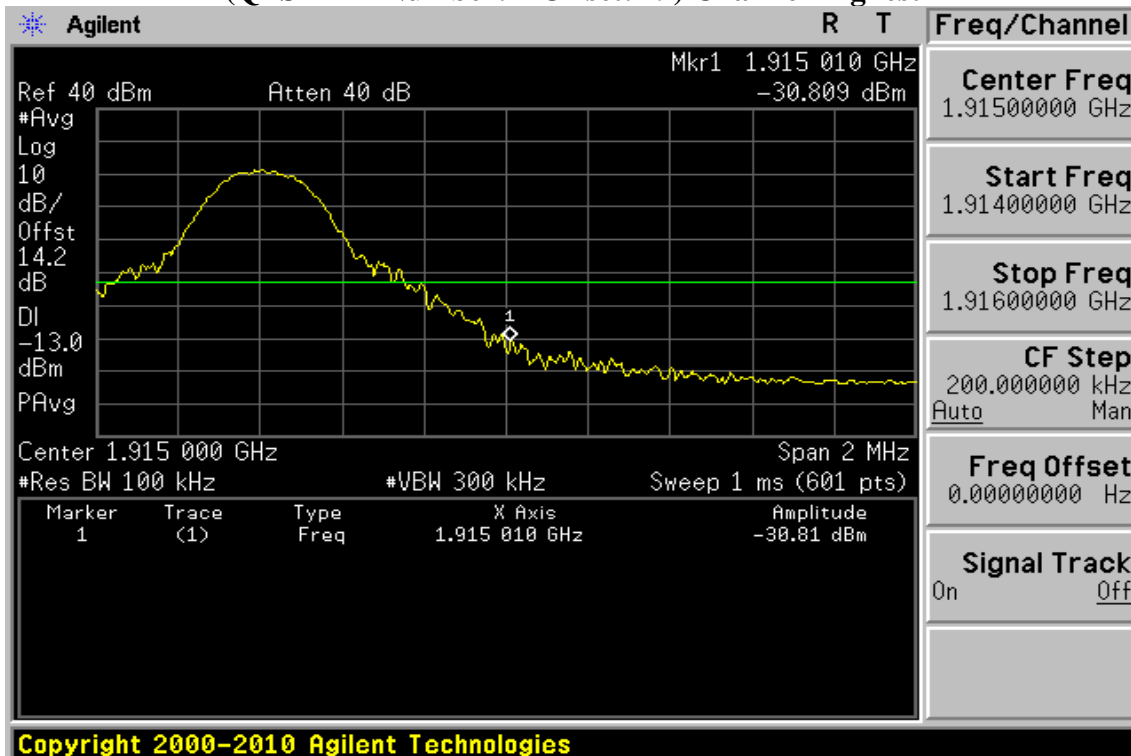
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**Figure 9-64: Band edge emission at antenna terminals – 10MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-65: Band edge emission at antenna terminals – 10MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 49) Channel Highest**



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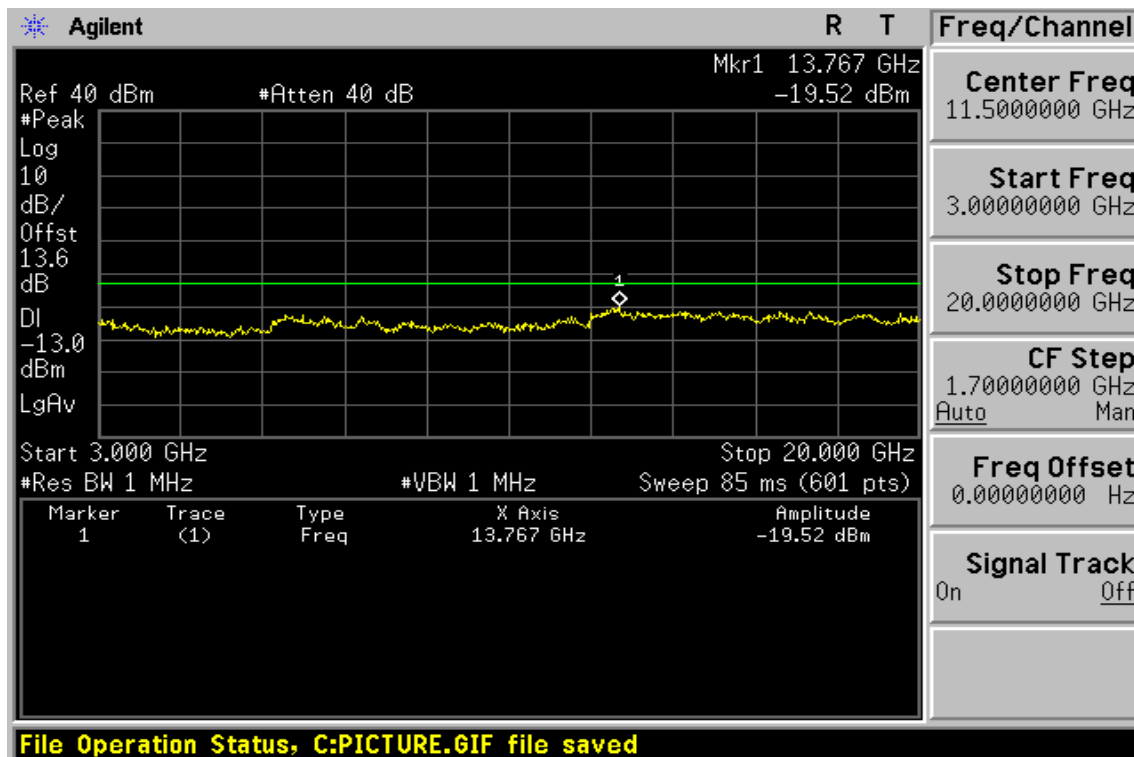
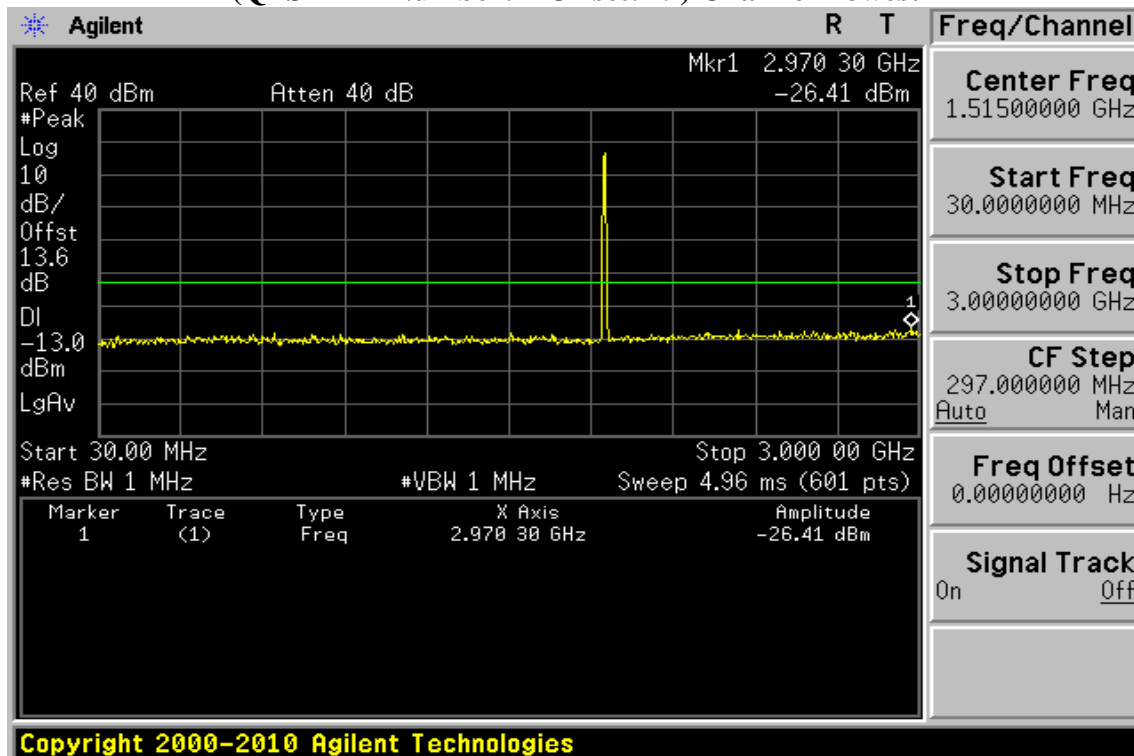
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**Figure 9-66: Out of Band emission at antenna terminals –110MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 49) Channel Lowest**



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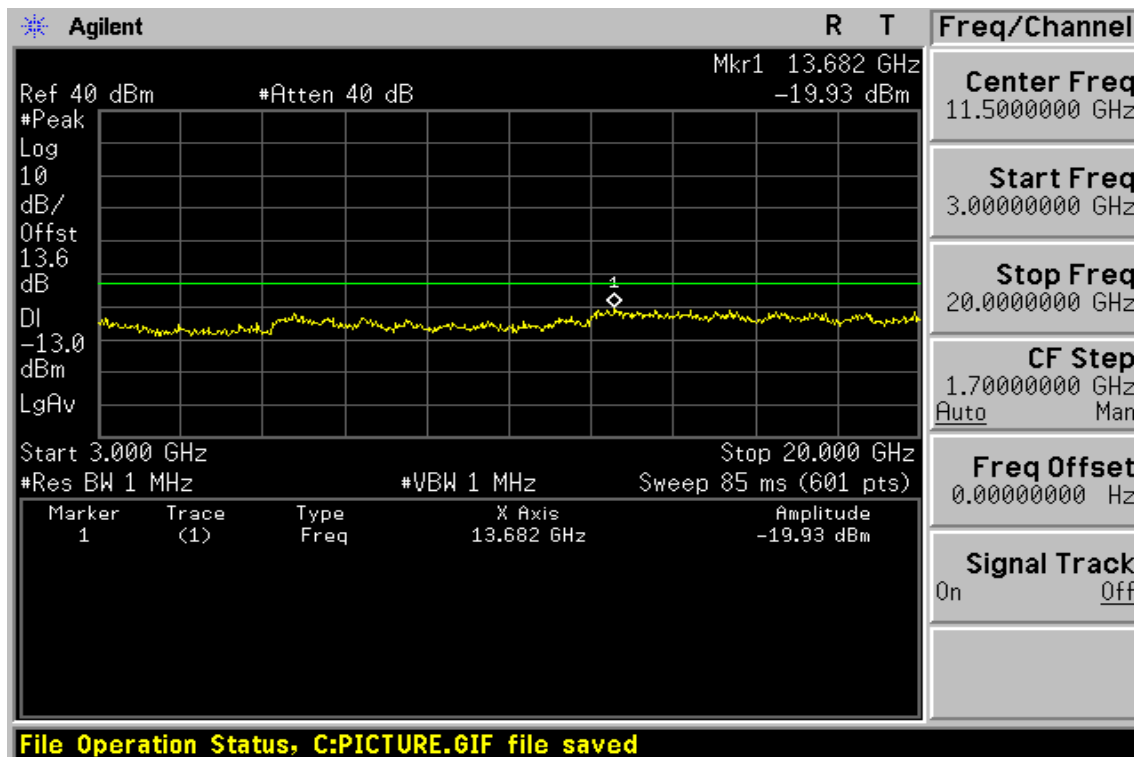
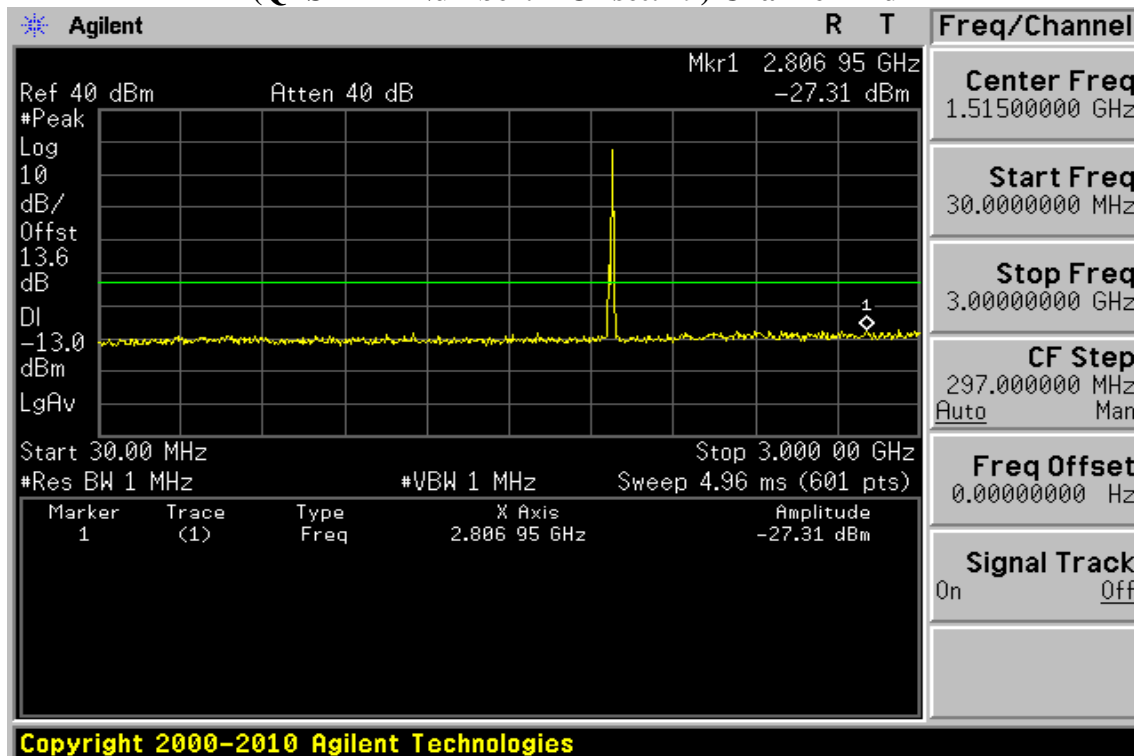
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**Figure 9-67: Out of Band emission at antenna terminals – 10MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 49) Channel Mid**



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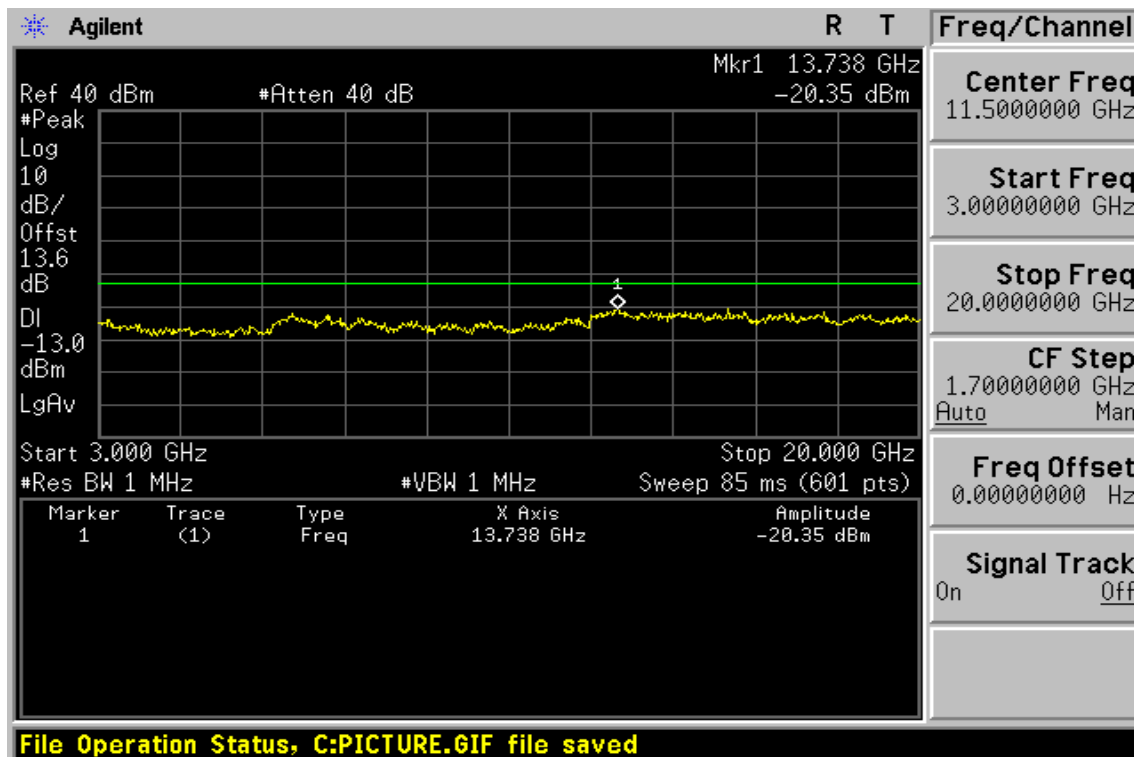
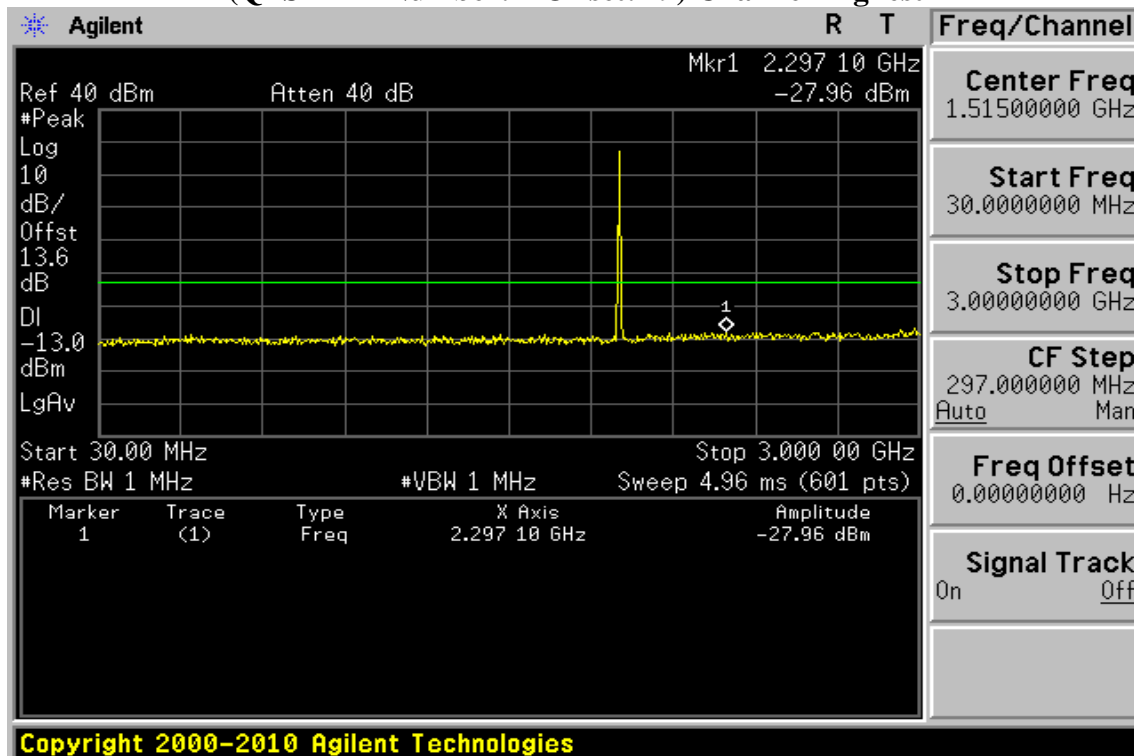
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**Figure 9-68: Out of Band emission at antenna terminals –10MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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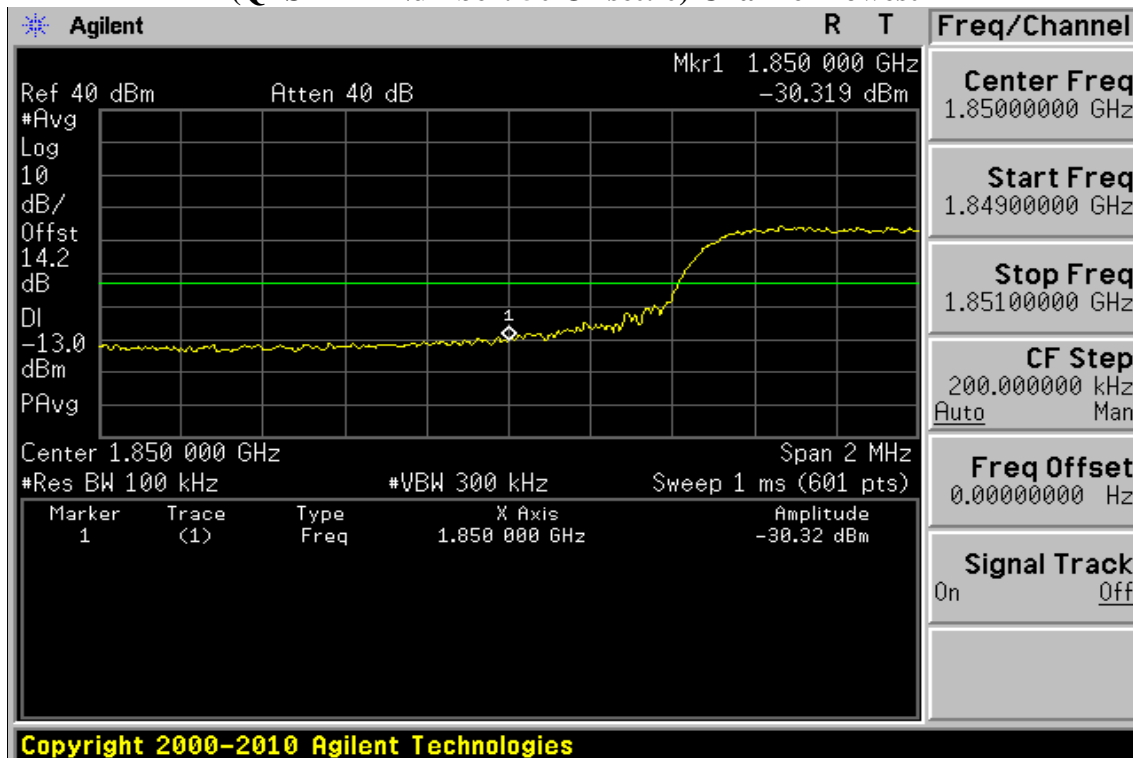
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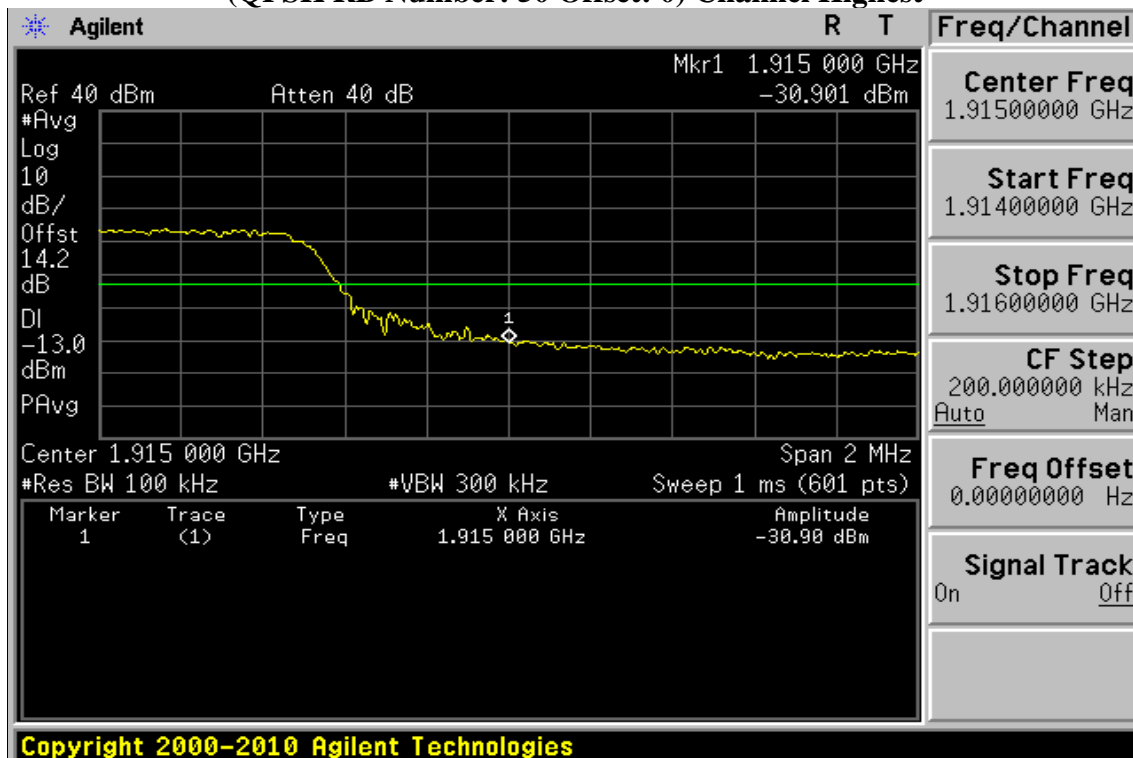
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**Figure 9-69: Band edge emission at antenna terminals –10MHz BW LTE-Band 25  
(QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-70: Band edge emission at antenna terminals –10MHz BW LTE-Band 25  
(QPSK RB Number: 50 Offset: 0) Channel Highest**



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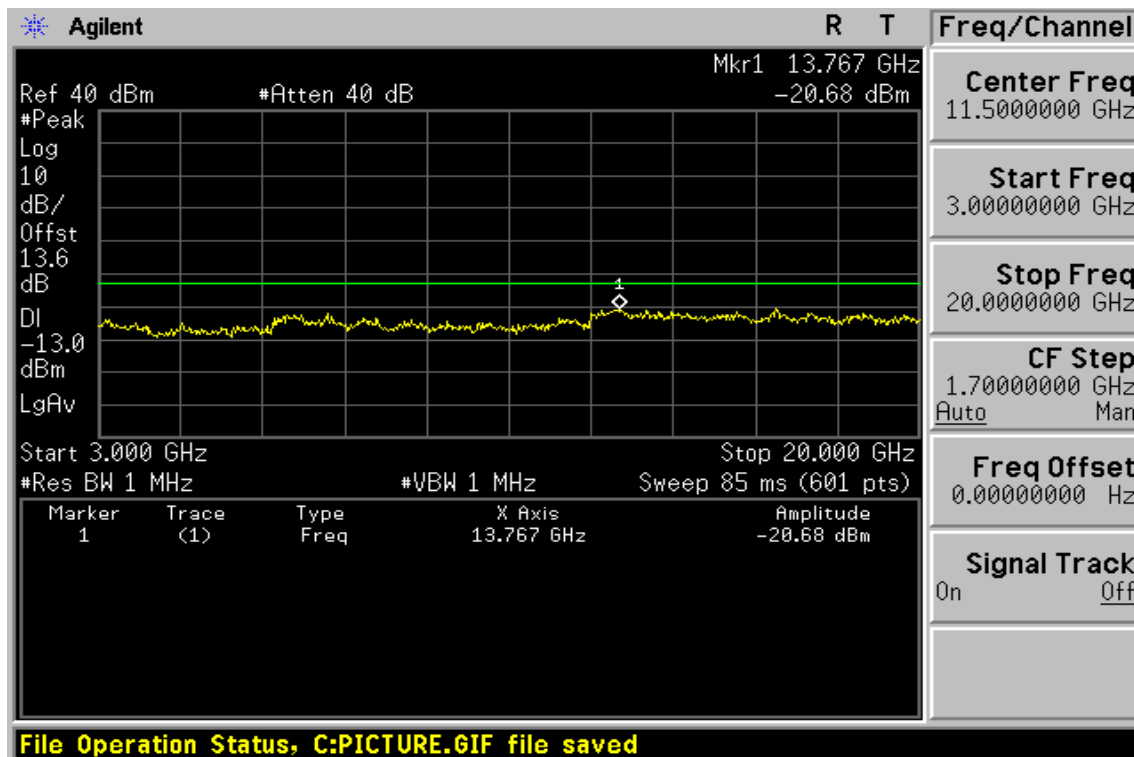
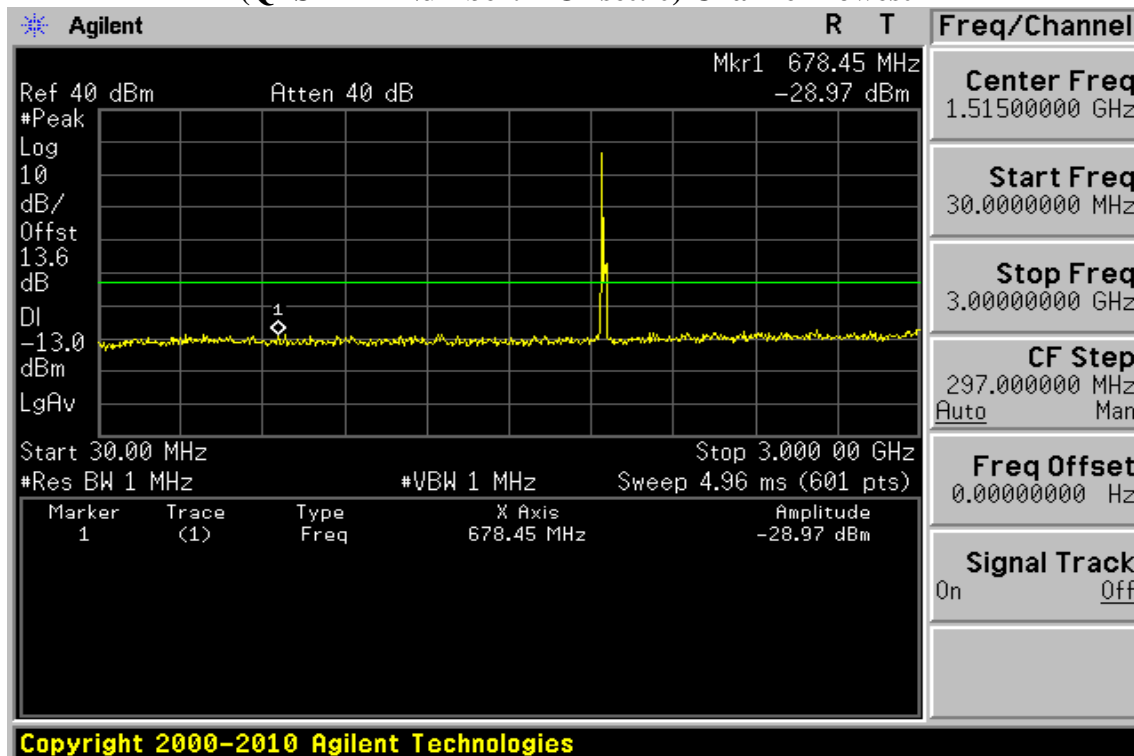
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**Figure 9-71: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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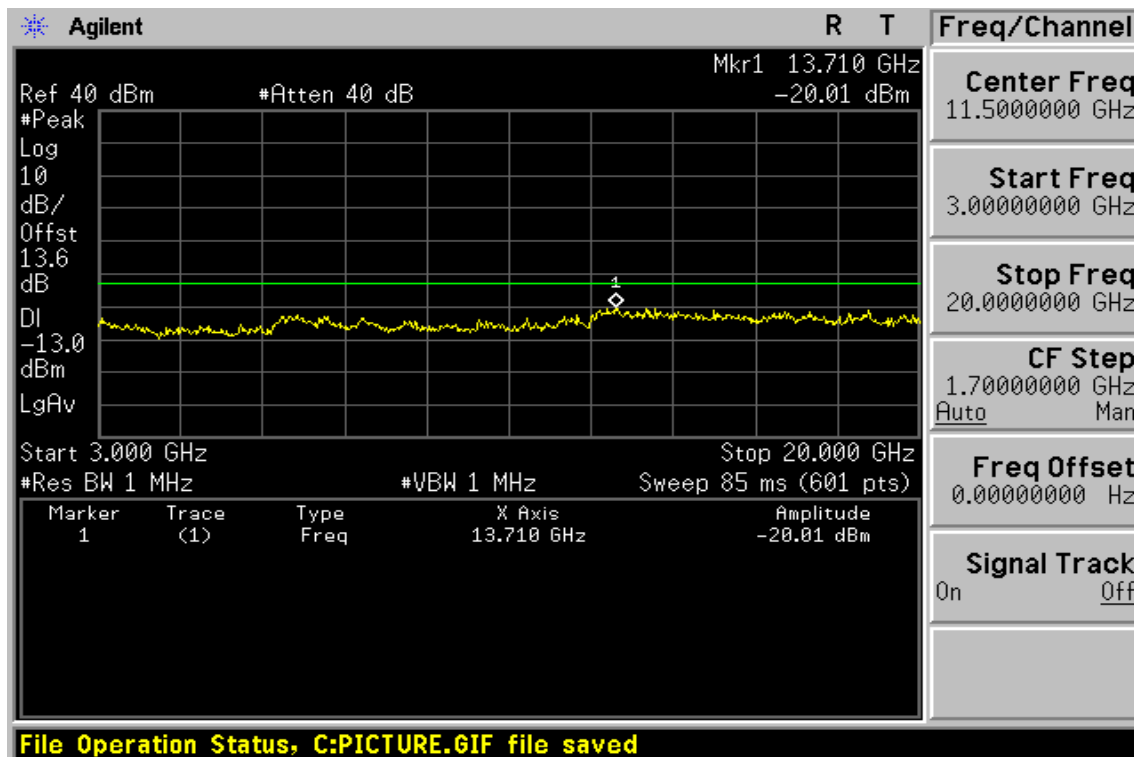
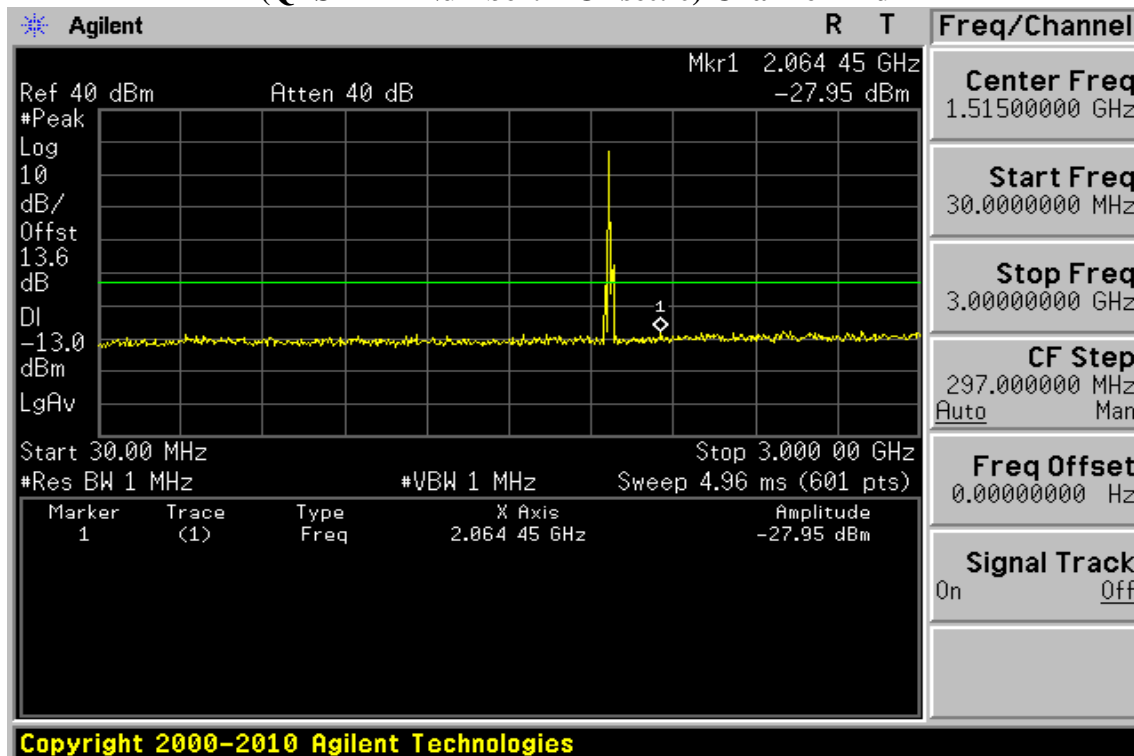
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**Figure 9-72: Out of Band emission at antenna terminals –15MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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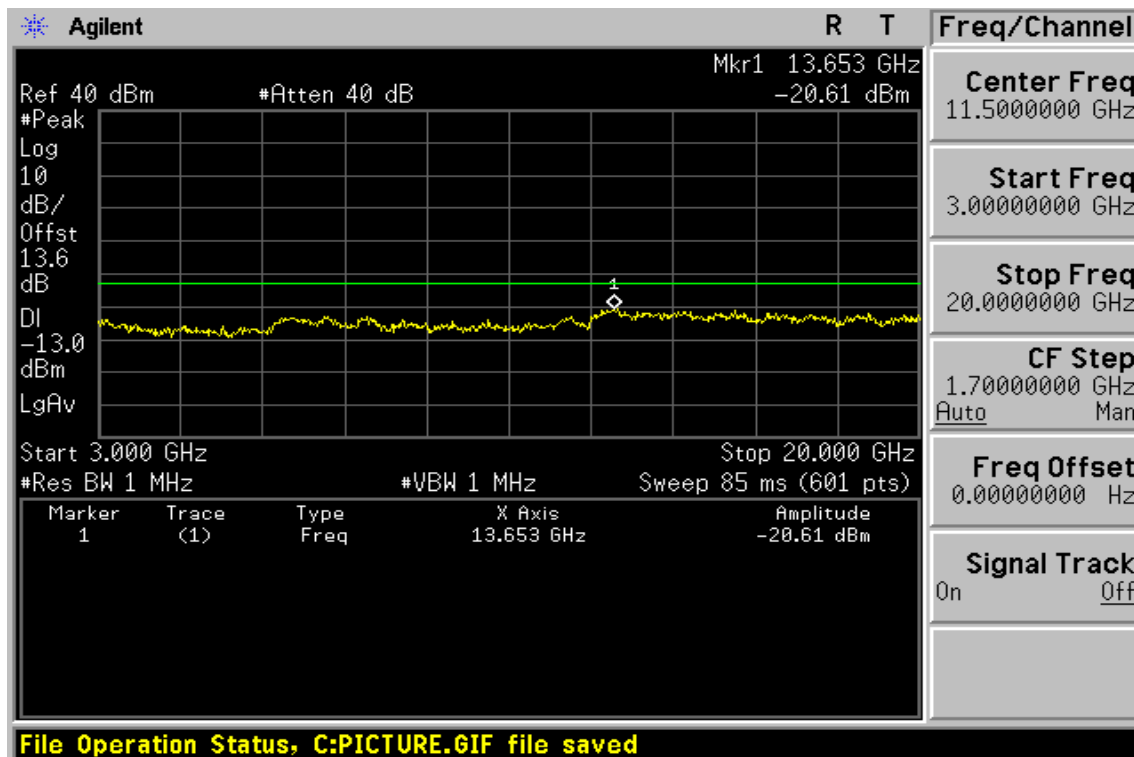
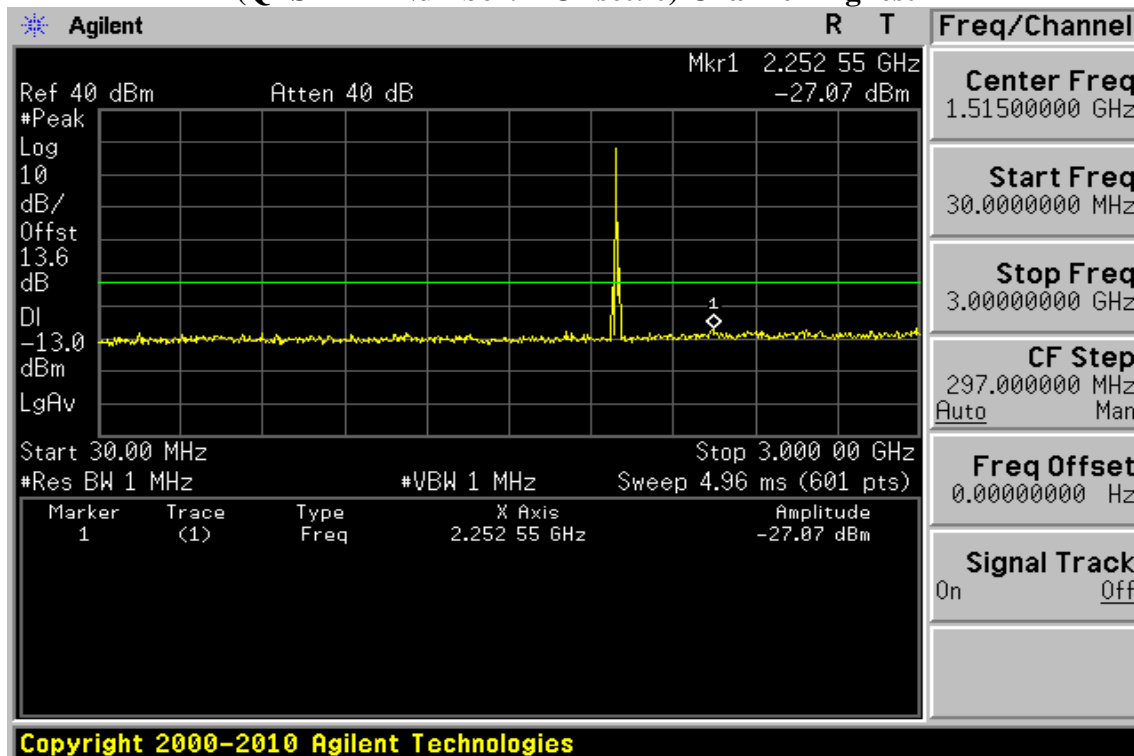
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**Figure 9-73: Out of Band emission at antenna terminals –15MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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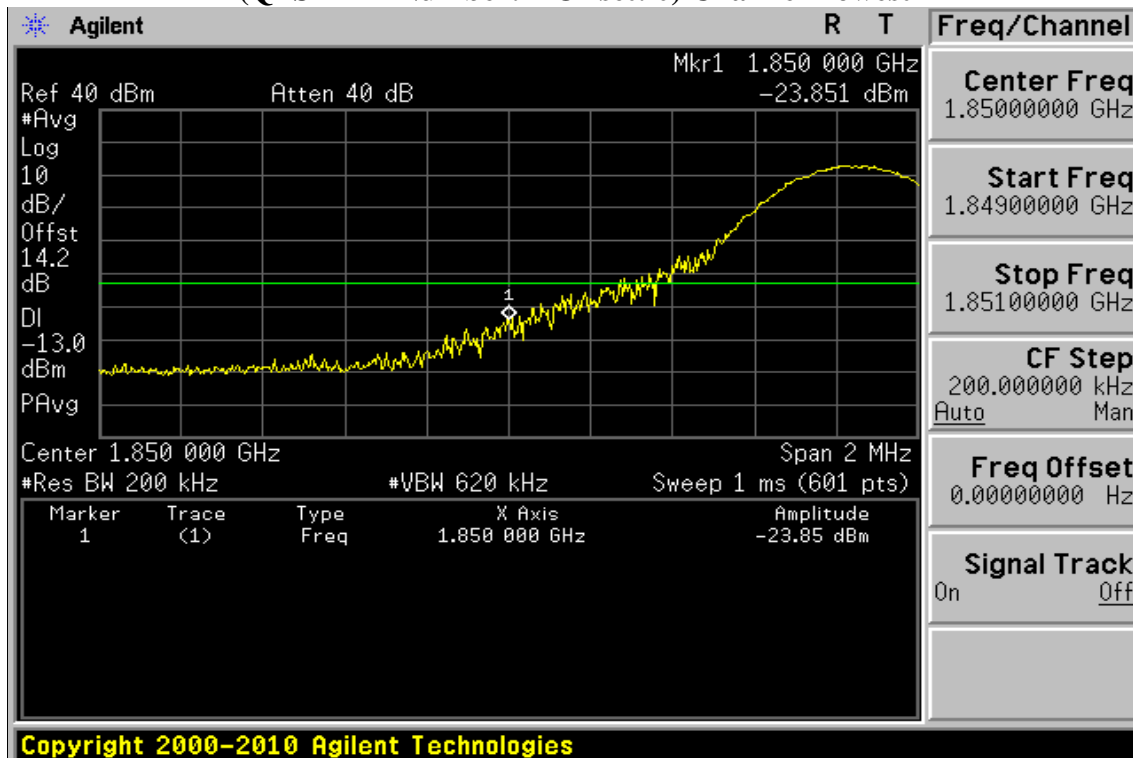
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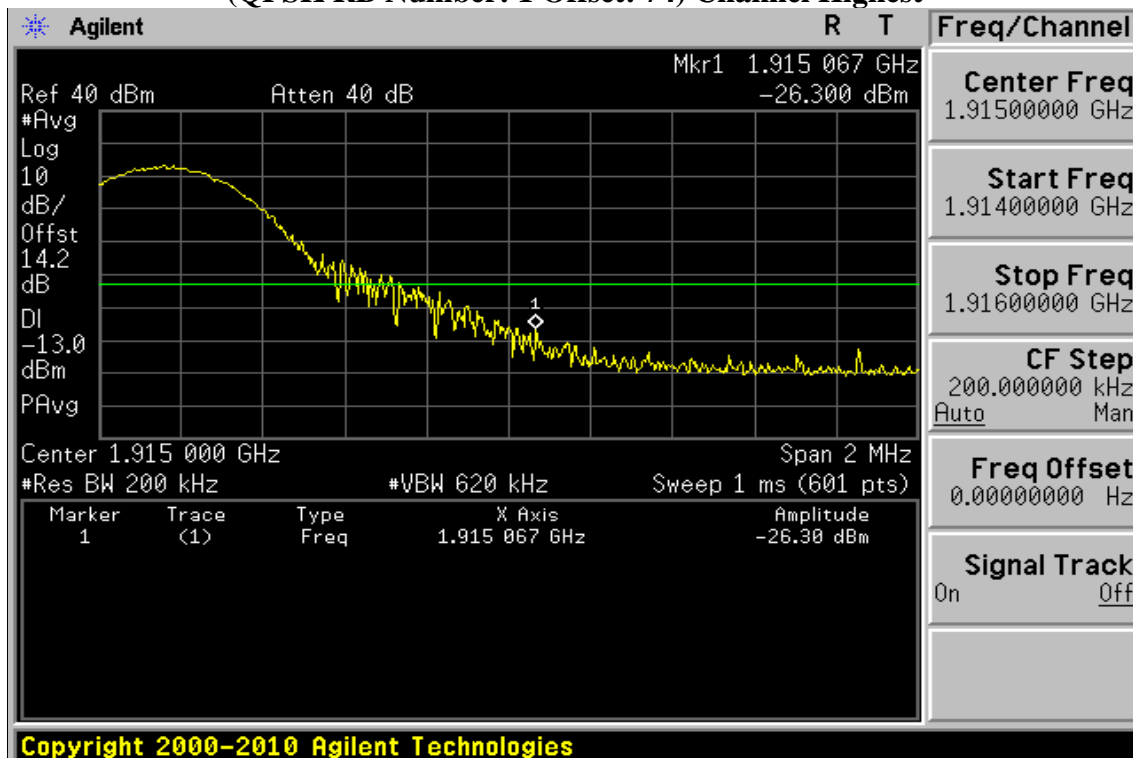
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**Figure 9-74: Band edge emission at antenna terminals – 15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-75: Band edge emission at antenna terminals –15MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 74) Channel Highest**



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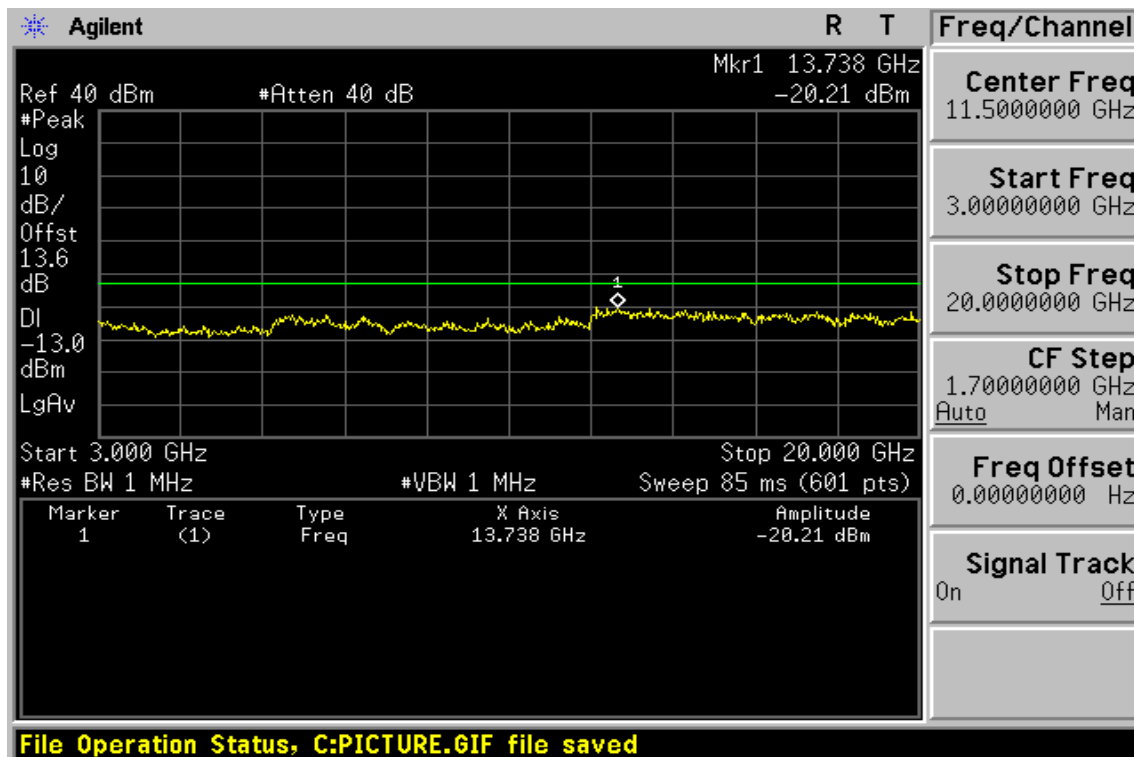
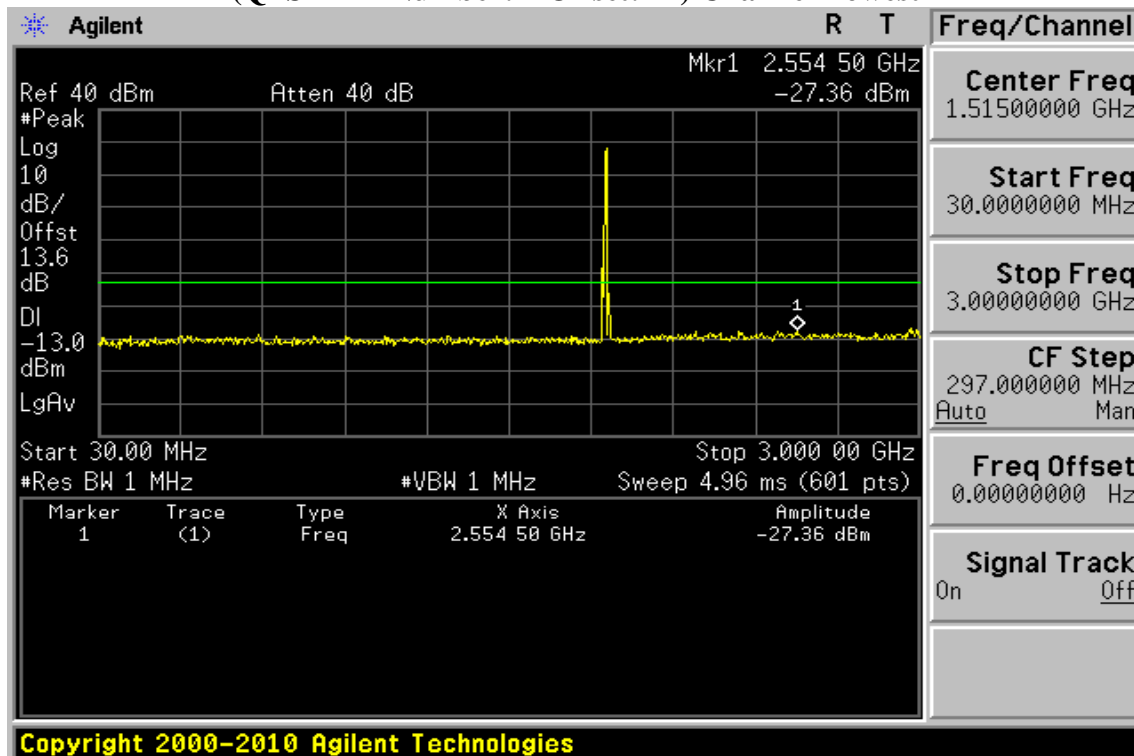
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**Figure 9-76: Out of Band emission at antenna terminals – 15MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 74) Channel Lowest**



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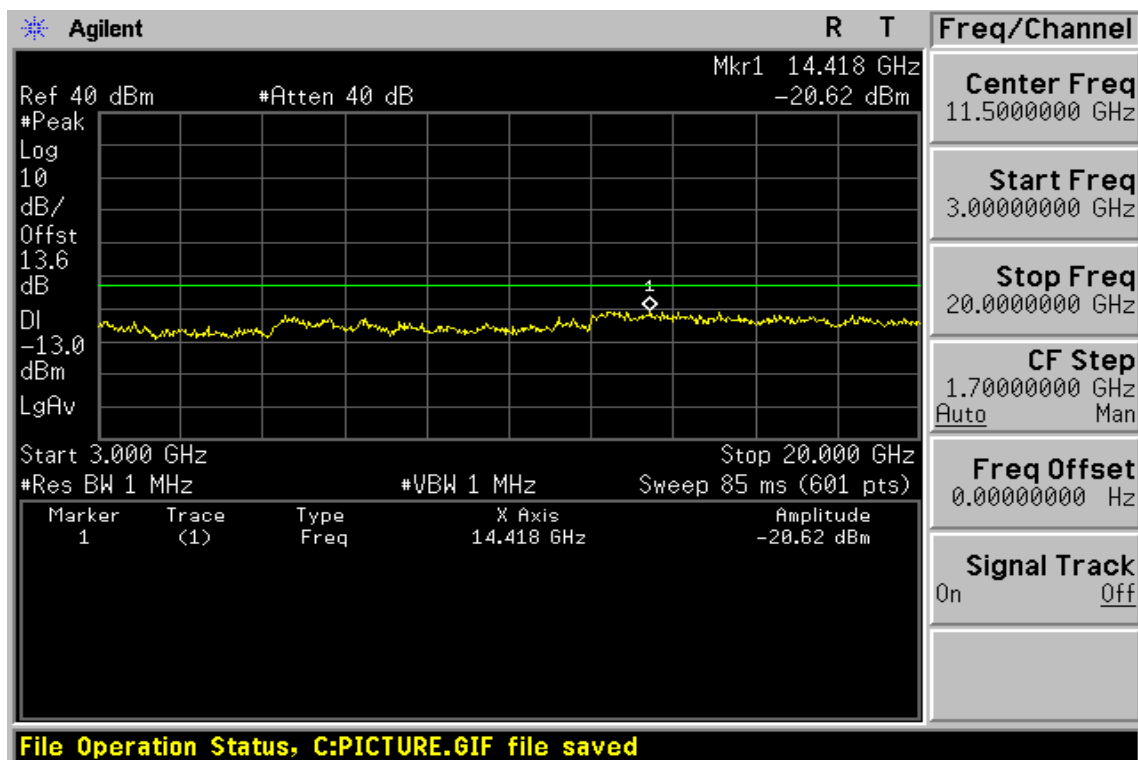
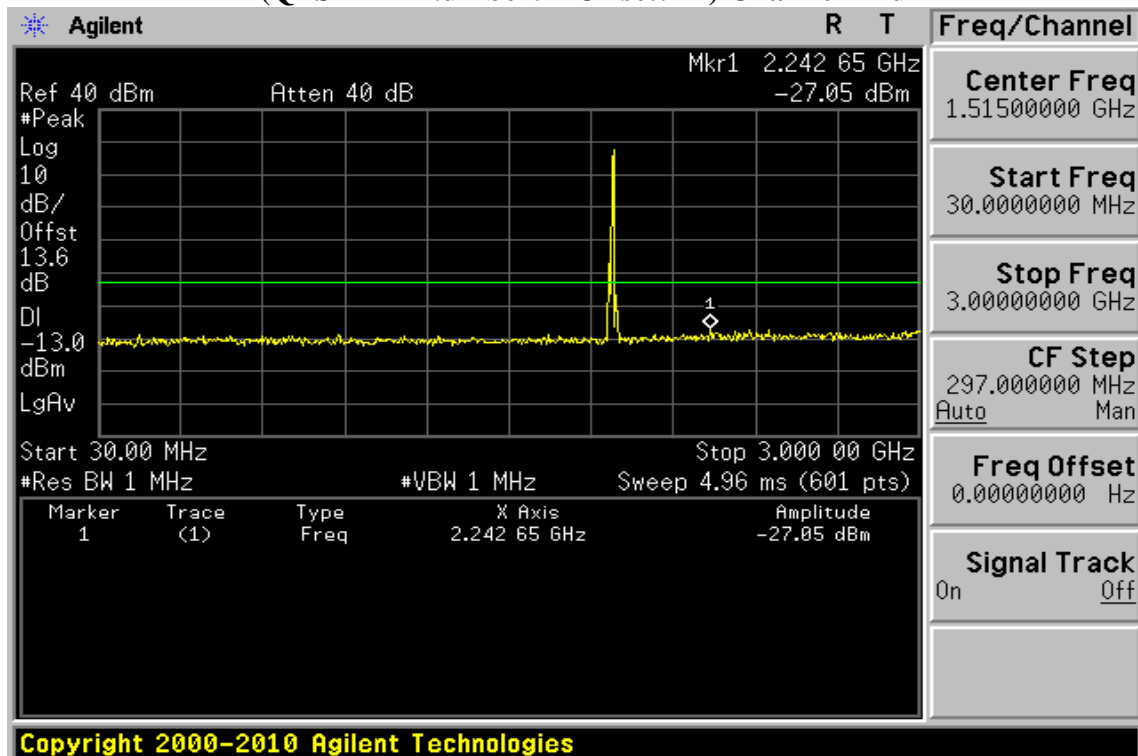
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**Figure 9-77: Out of Band emission at antenna terminals –15MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 74) Channel Mid**



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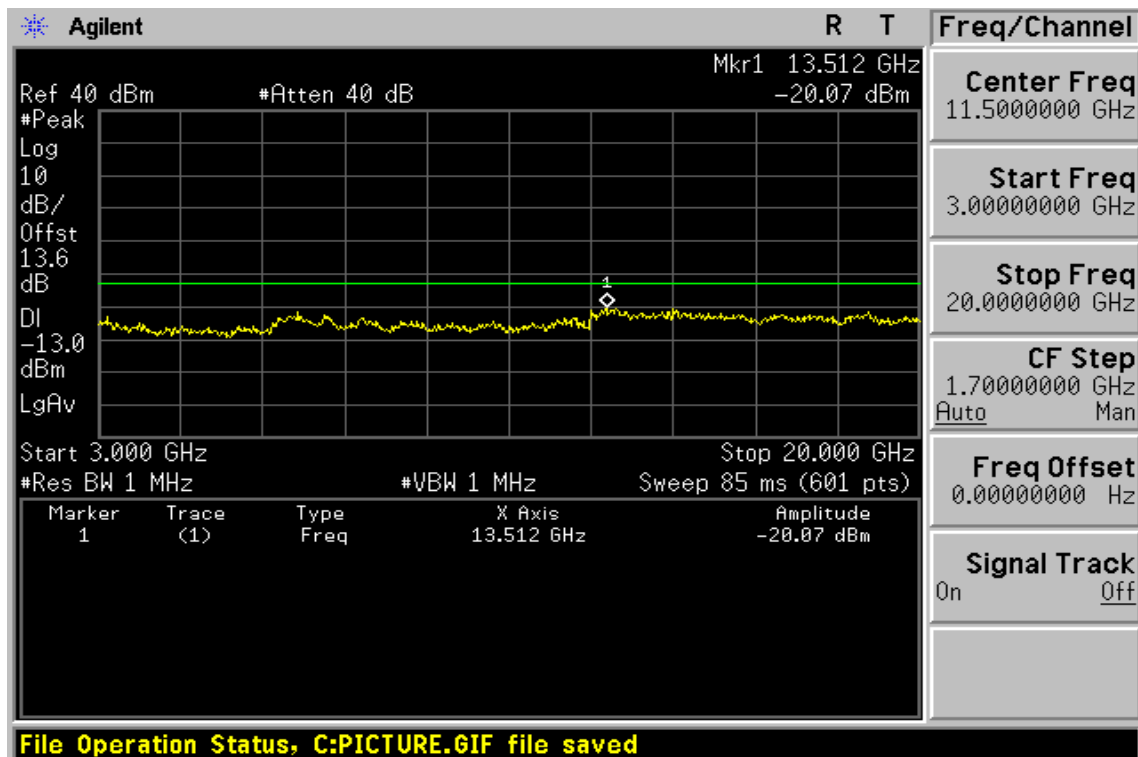
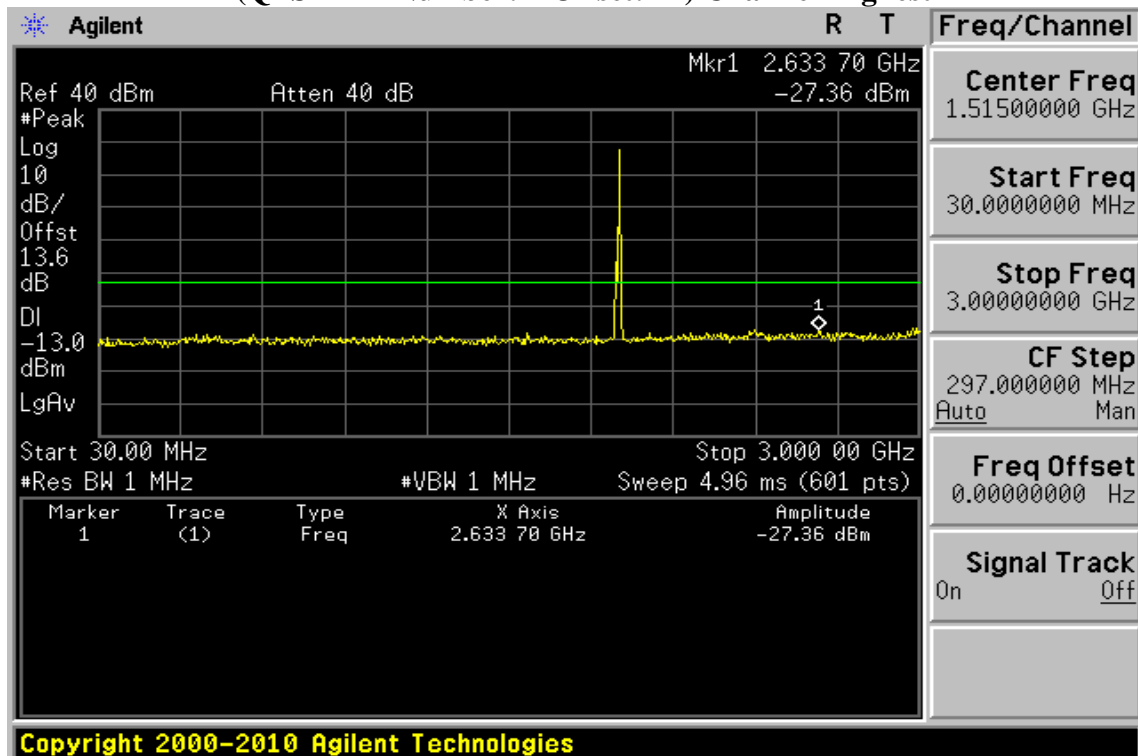
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**Figure 9-78: Out of Band emission at antenna terminals –15MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 74) Channel Highest**



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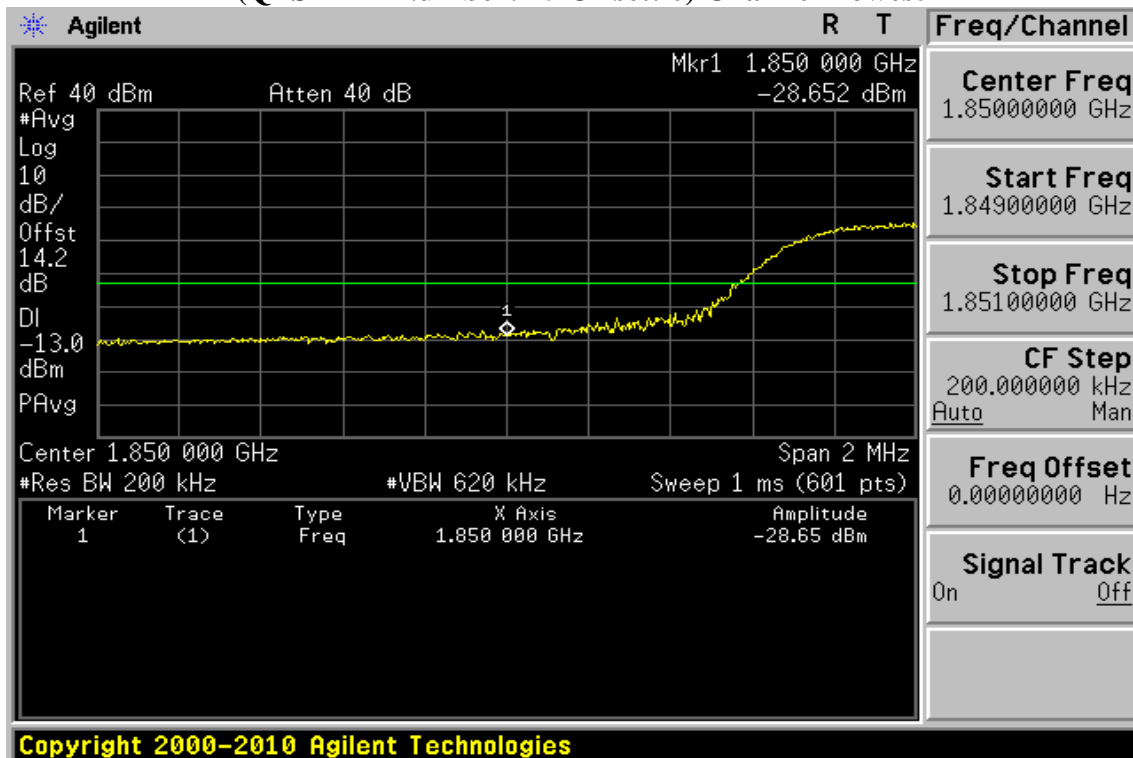
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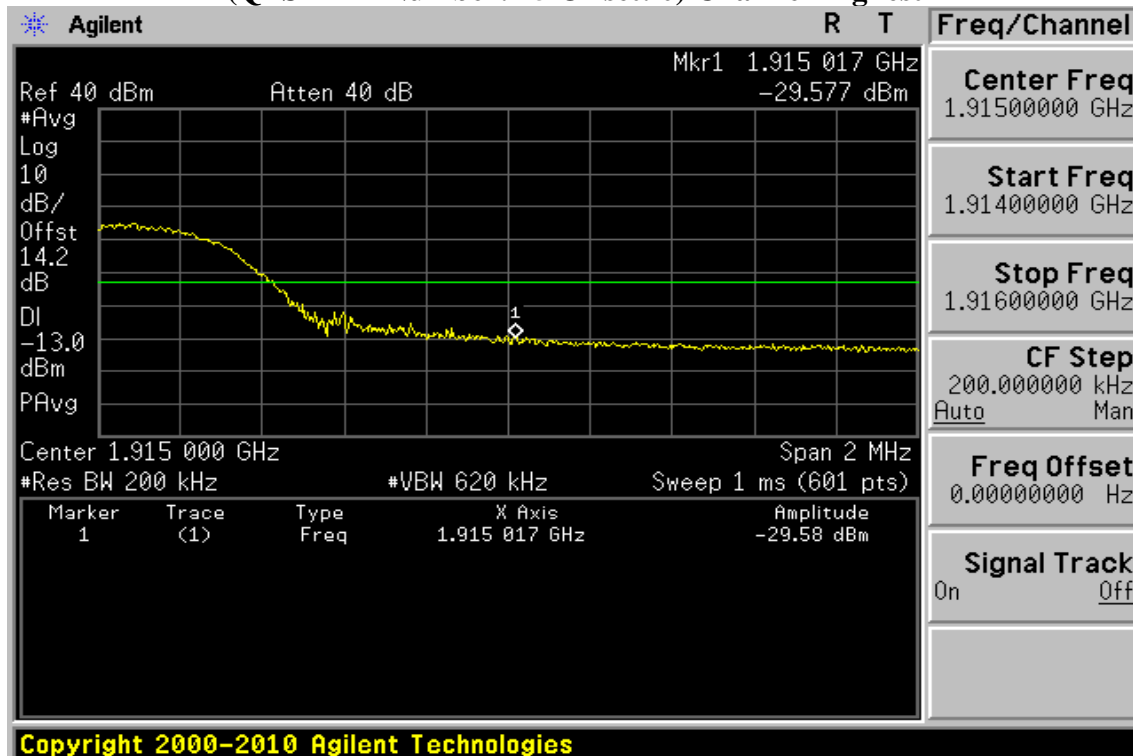
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**Figure 9-79: Band edge emission at antenna terminals – 15MHz BW LTE-Band 25  
(QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Figure 9-80: Band edge emission at antenna terminals –15MHz BW LTE-Band 25  
(QPSK RB Number: 75 Offset: 0) Channel Highest**



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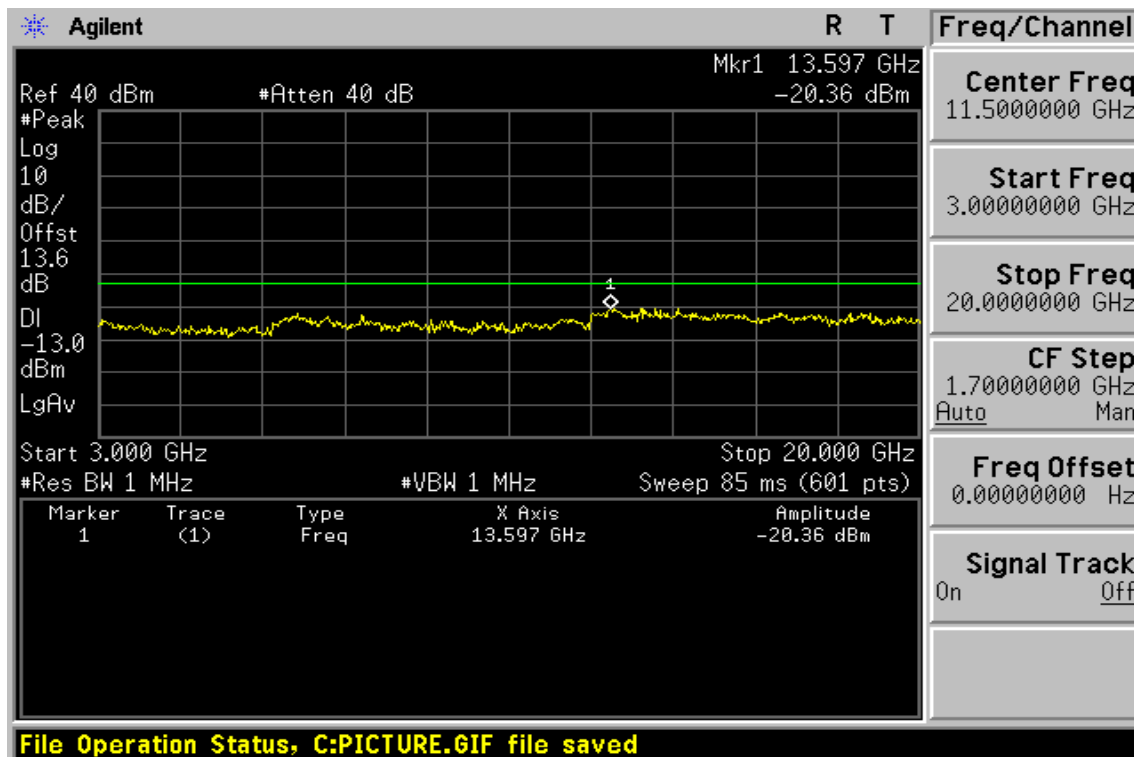
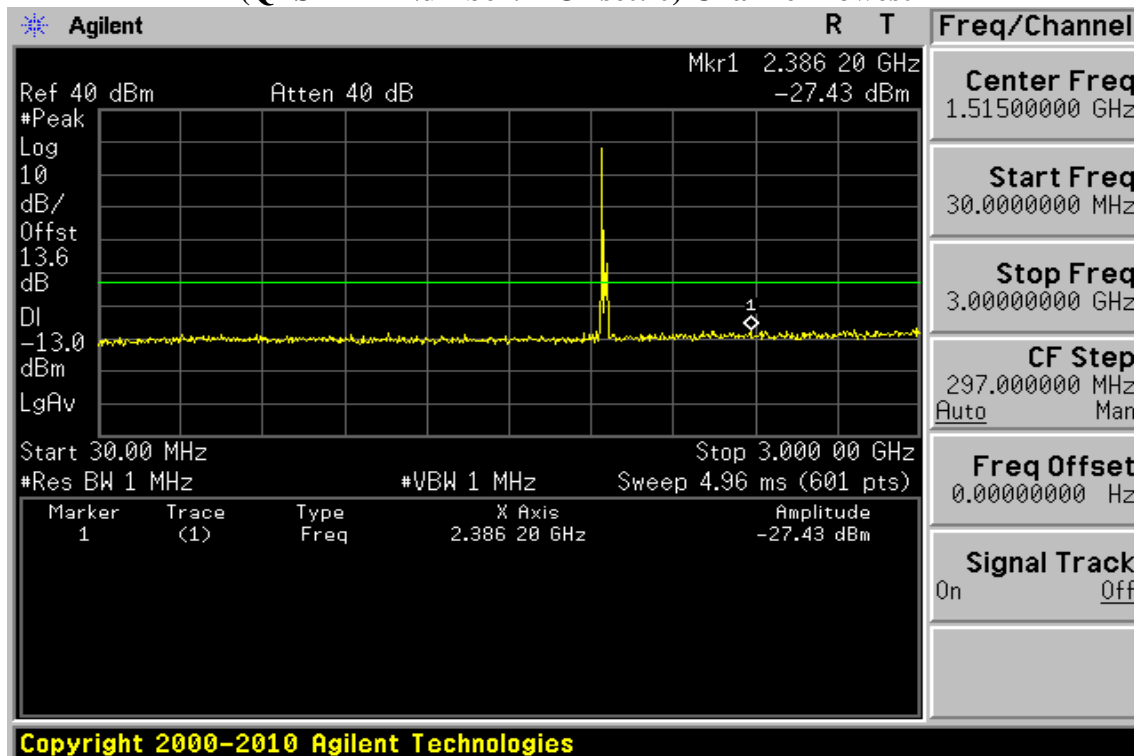
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**Figure 9-81: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



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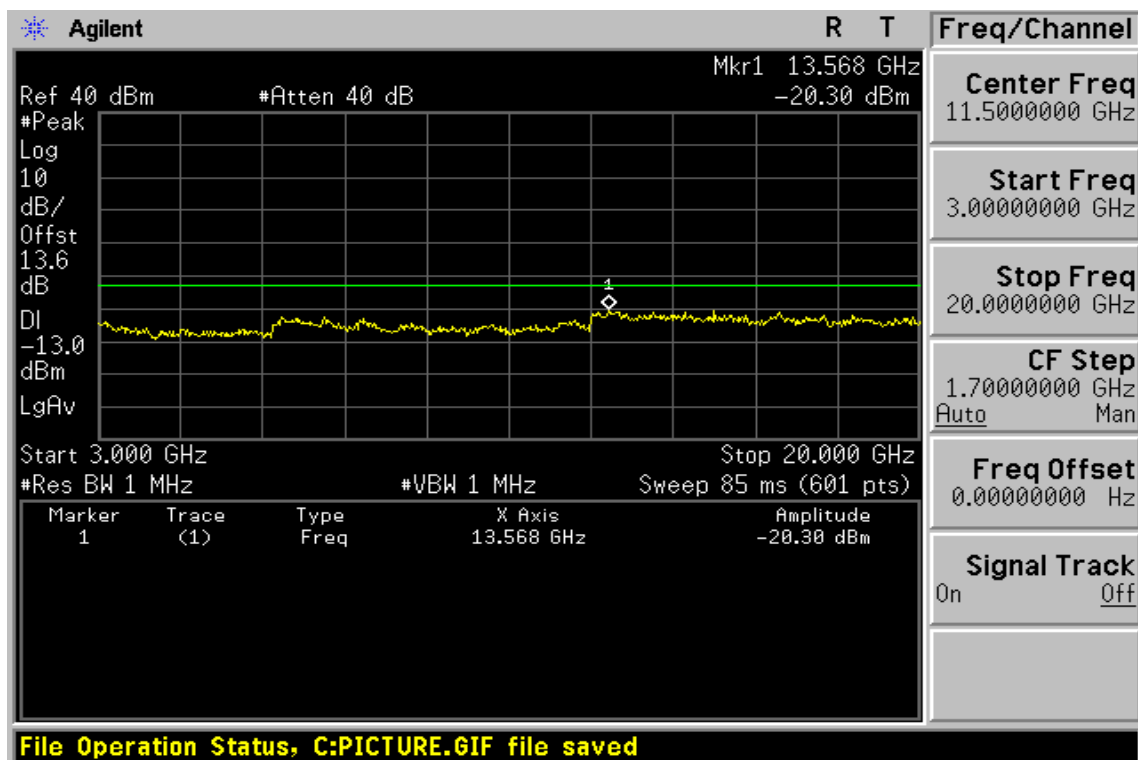
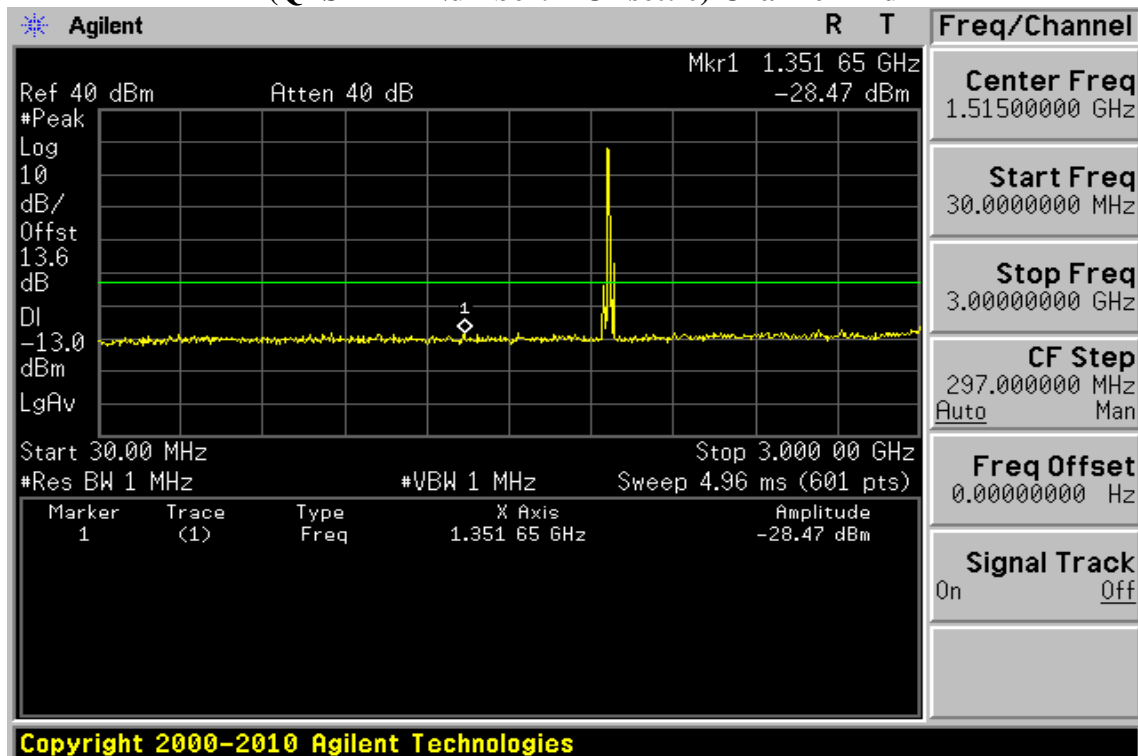
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**Figure 9-82: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Mid**



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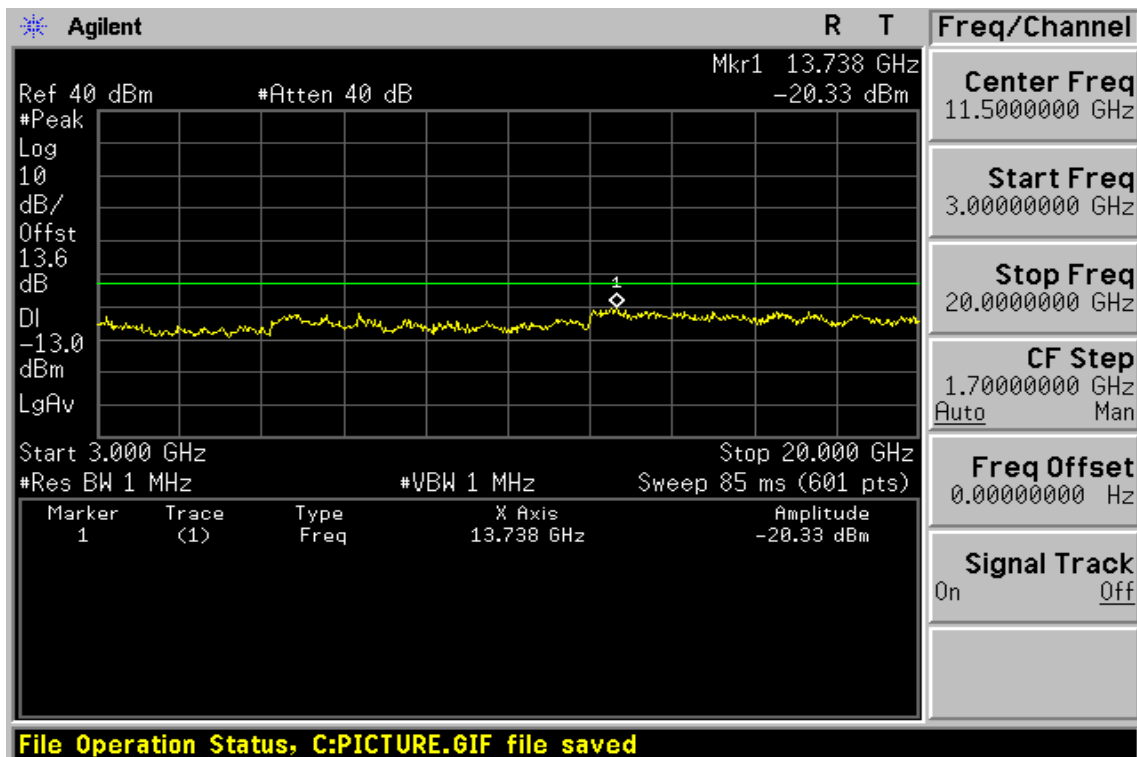
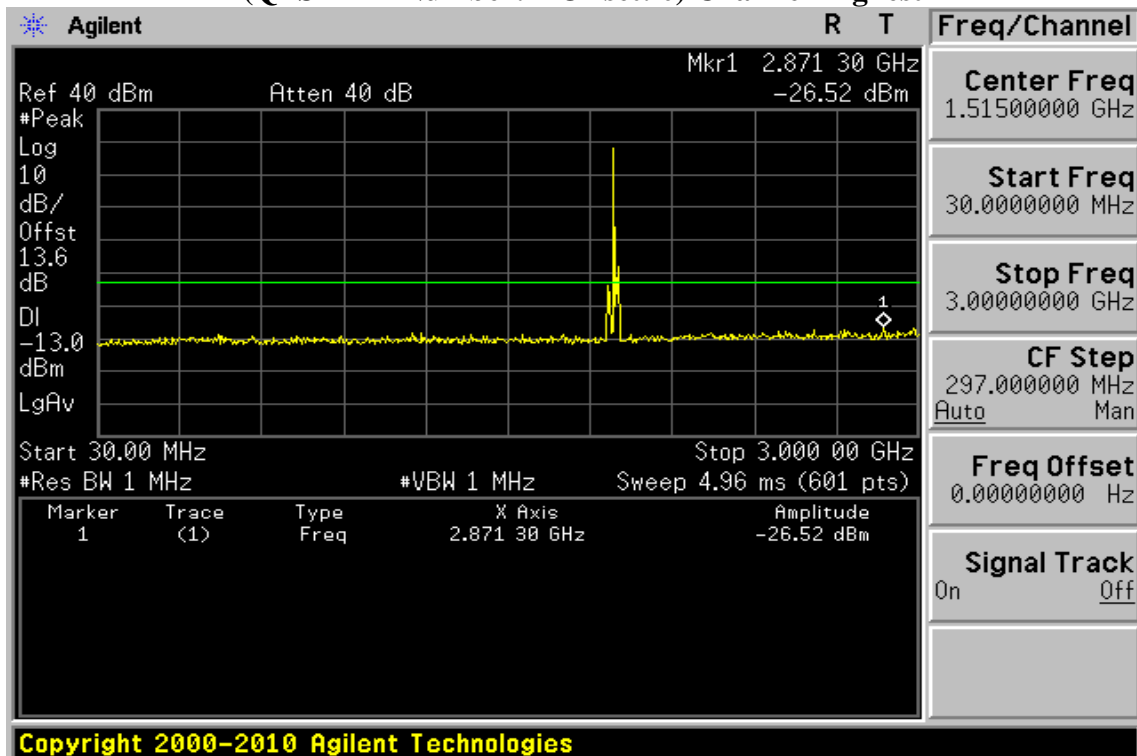
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**Figure 9-83: Out of Band emission at antenna terminals –20MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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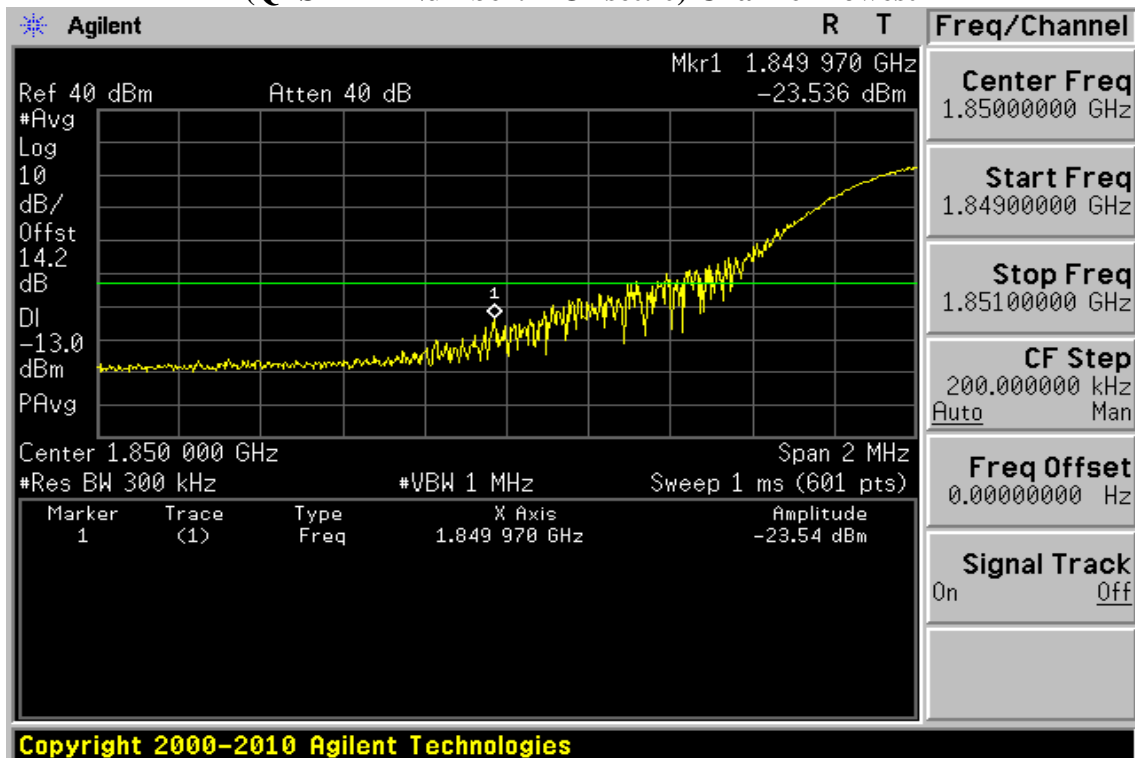
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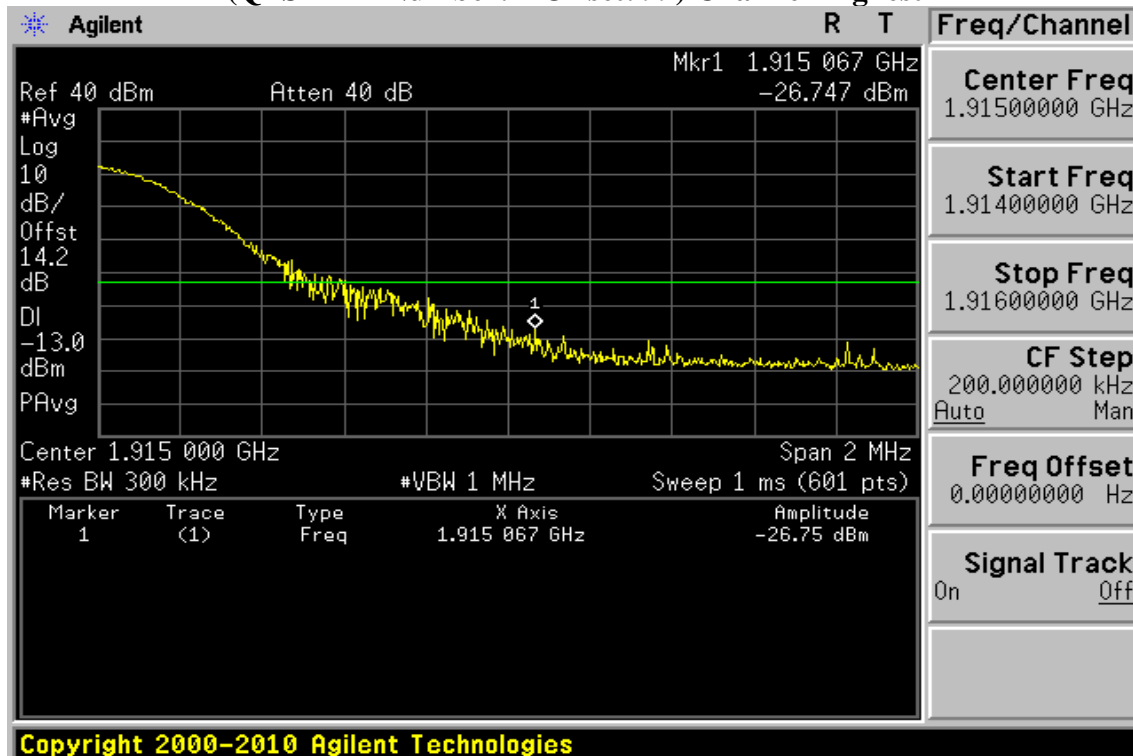
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**Figure 9-84: Band edge emission at antenna terminals – 20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-85: Band edge emission at antenna terminals – 20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 99) Channel Highest**



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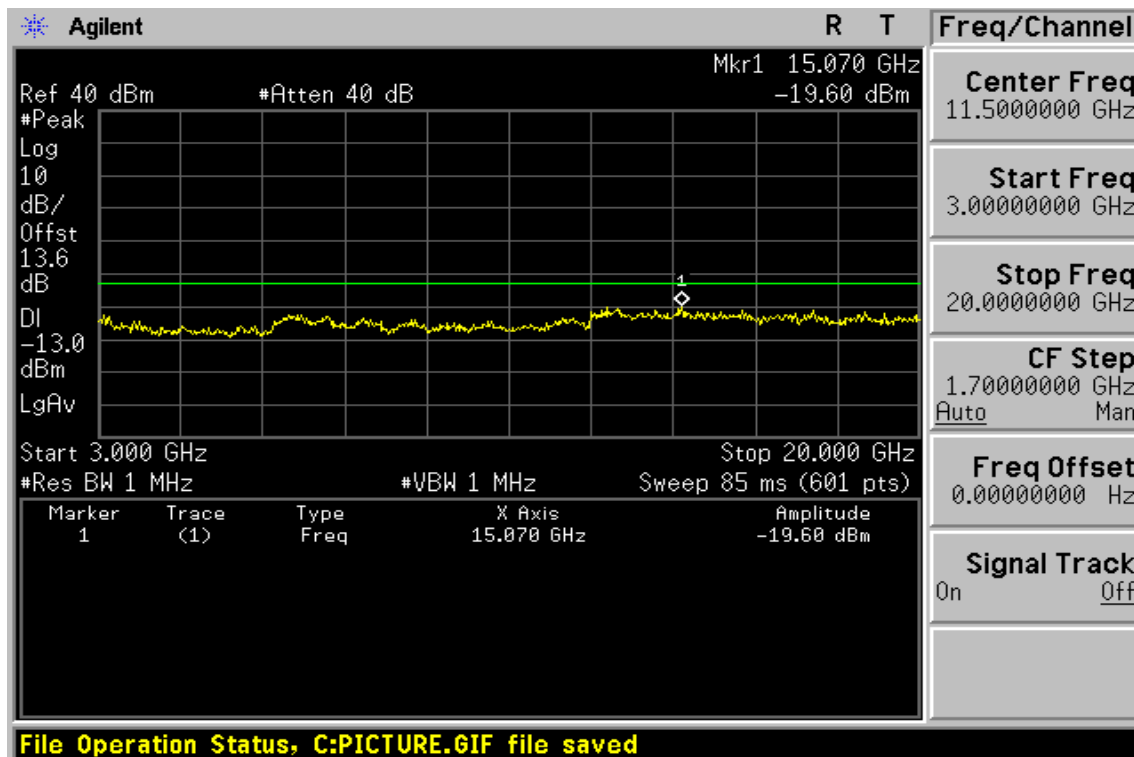
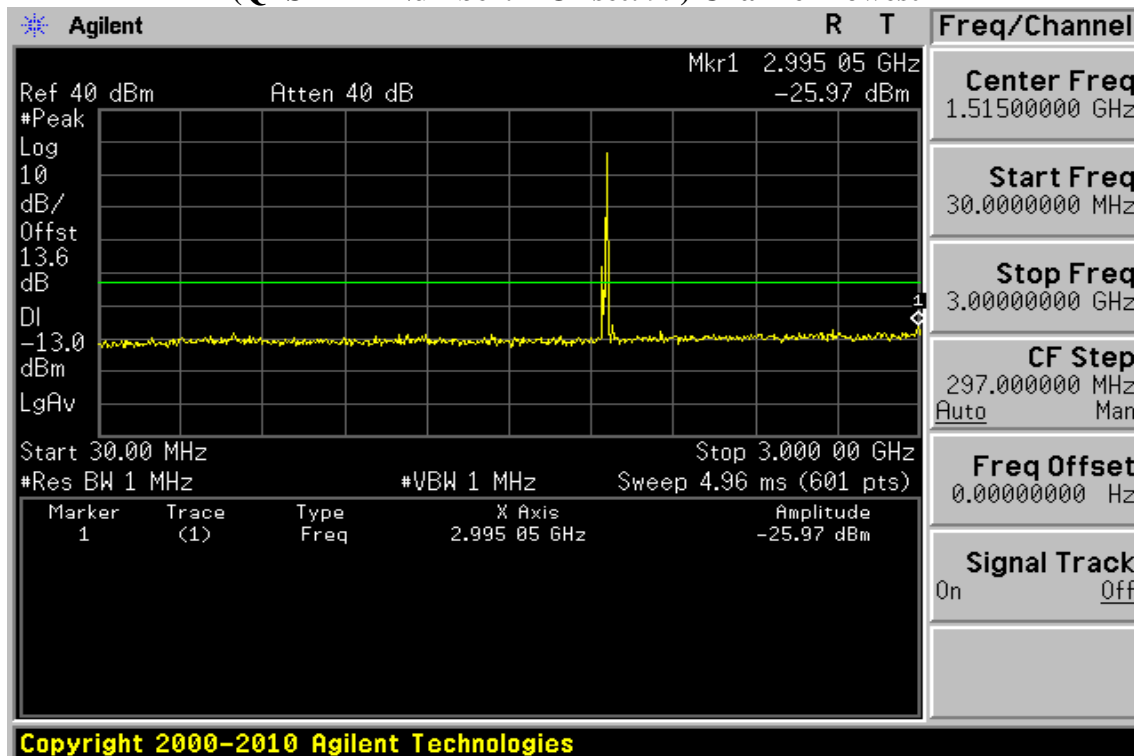
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**Figure 9-86: Out of Band emission at antenna terminals – 20MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 99) Channel Lowest**



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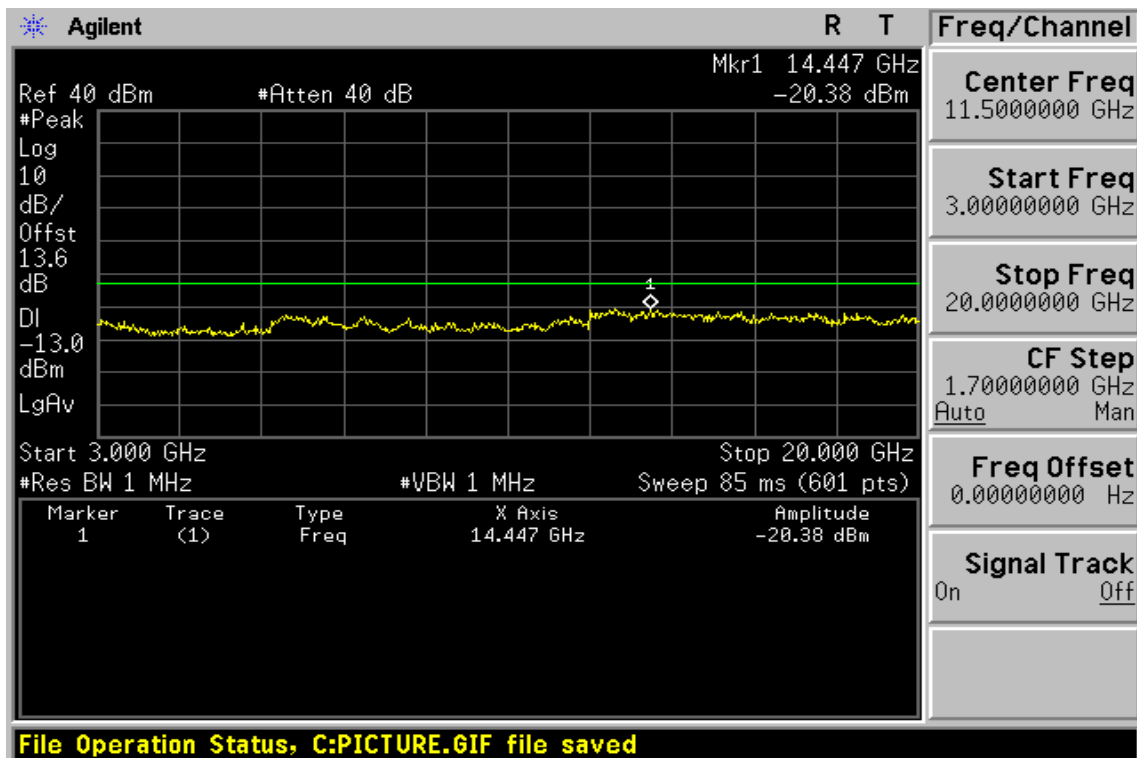
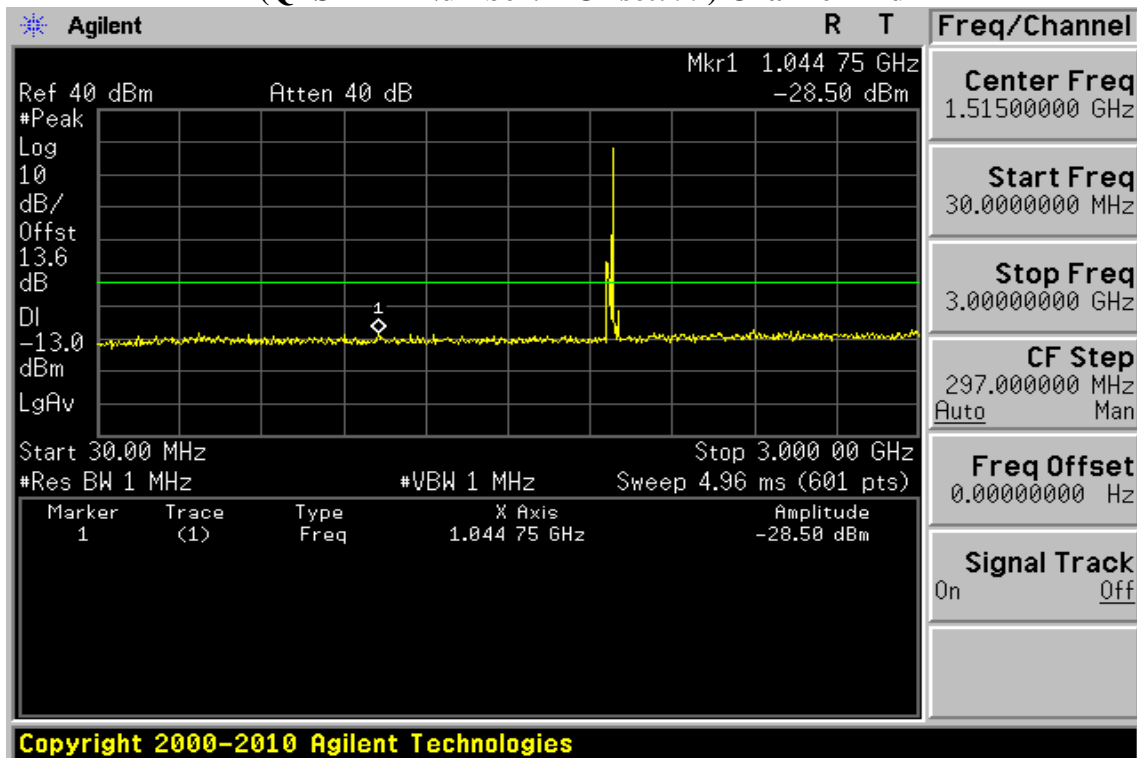
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**Figure 9-87: Out of Band emission at antenna terminals –20MHz BW LTE-Band 25 (QPSK RB Number: 1 Offset: 99) Channel Mid**



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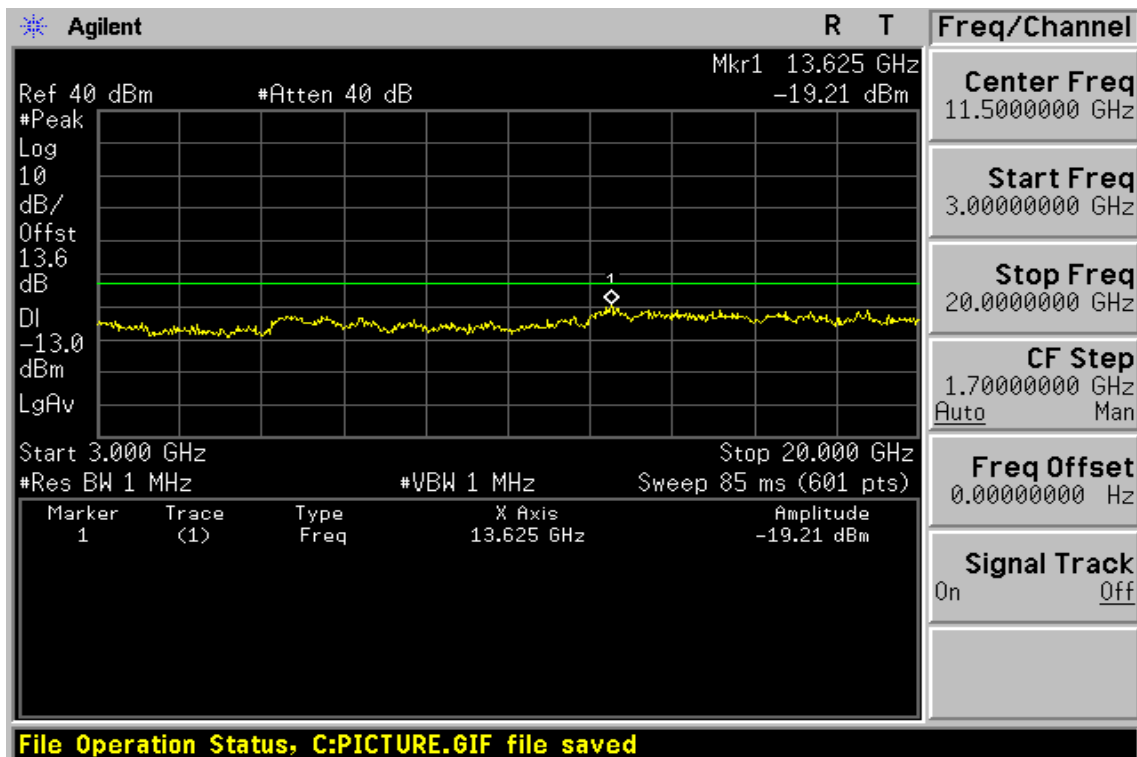
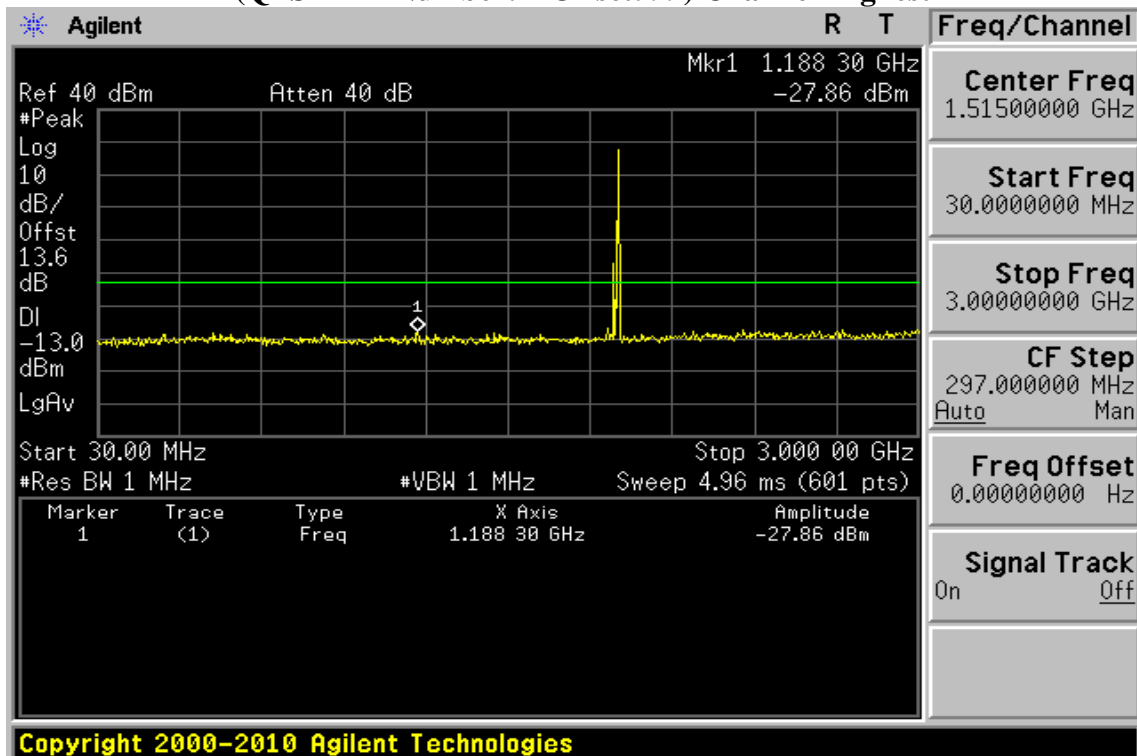
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**Figure 9-88: Out of Band emission at antenna terminals –20MHz BW LTE-Band 25  
(QPSK RB Number: 1 Offset: 99) Channel Highest**



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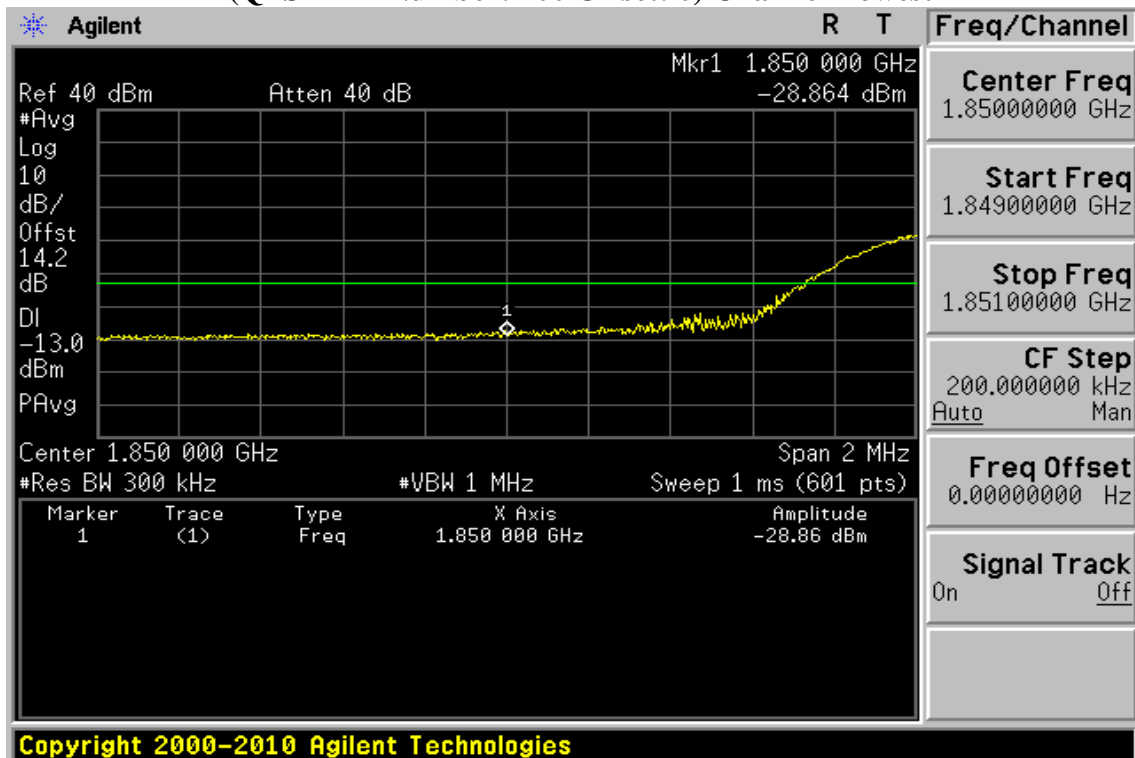
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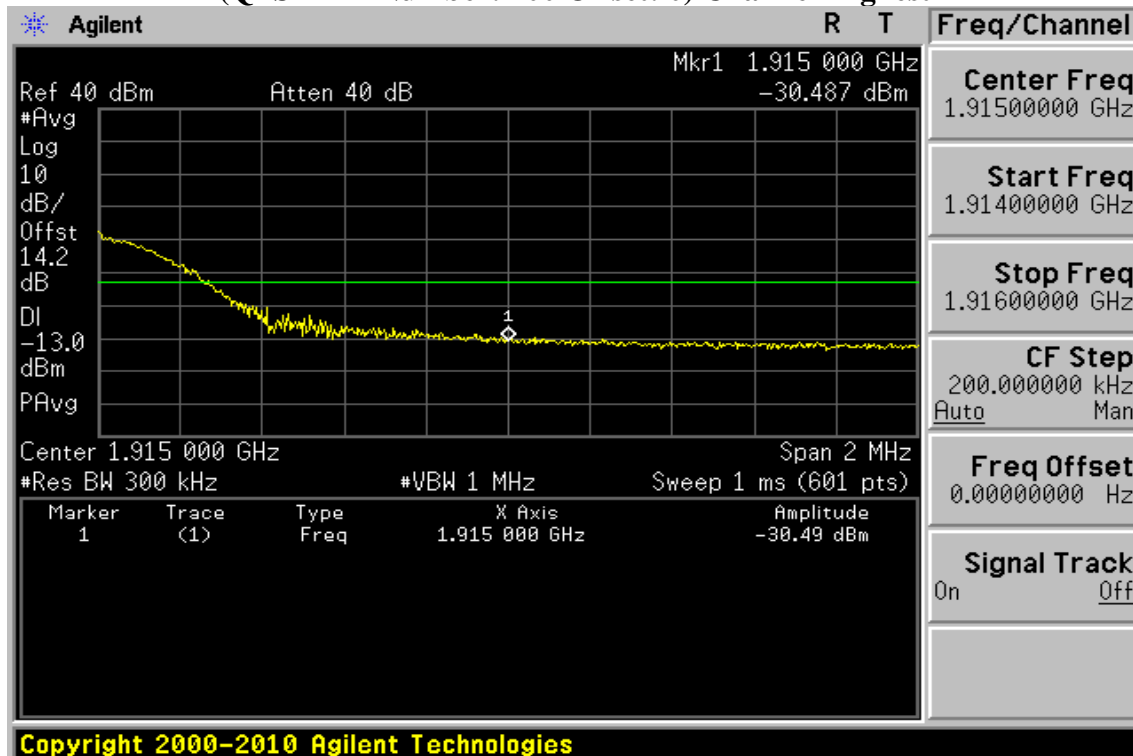
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**Figure 9-89: Band edge emission at antenna terminals – 20MHz BW LTE-Band 25 (QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Figure 9-90: Band edge emission at antenna terminals – 20MHz BW LTE-Band 25 (QPSK RB Number: 100 Offset: 0) Channel Highest**



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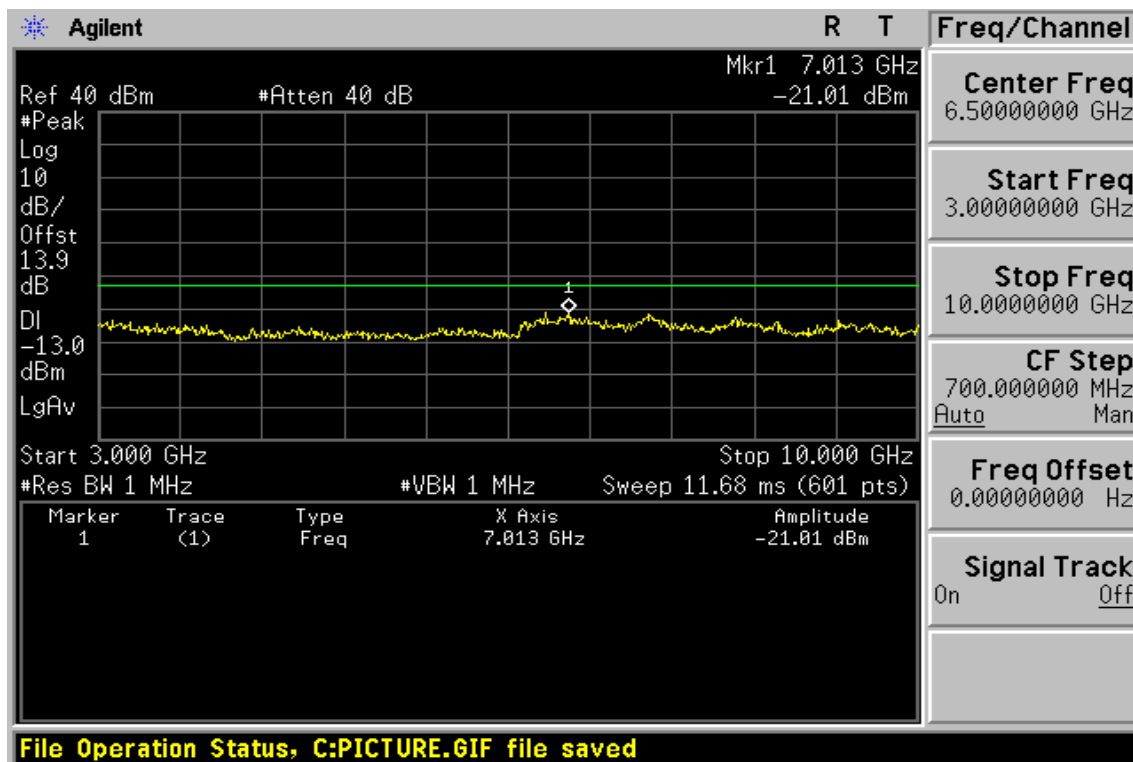
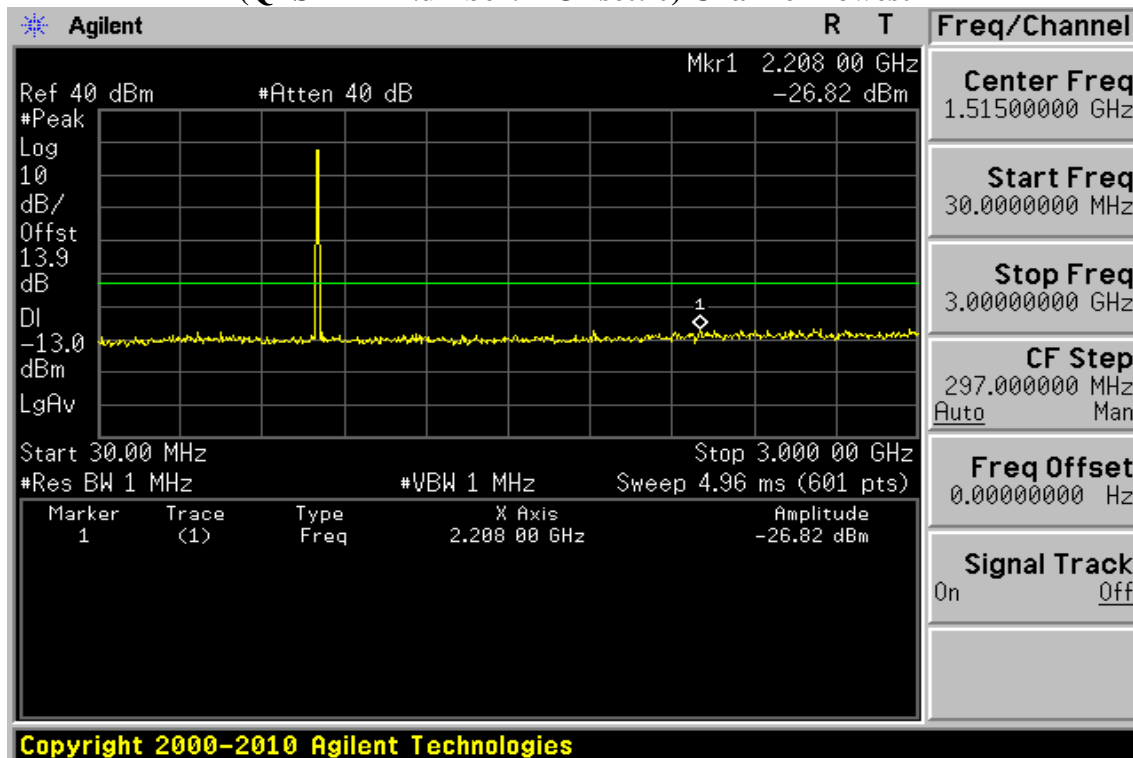
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**Figure 9-91: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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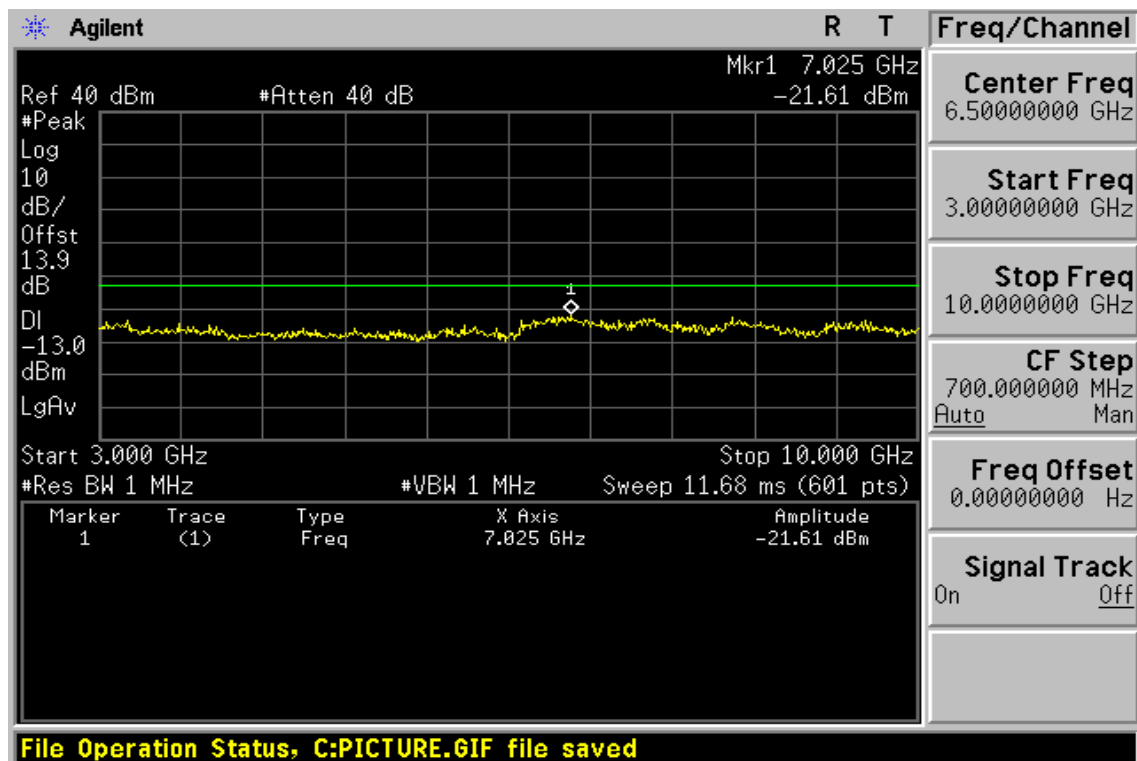
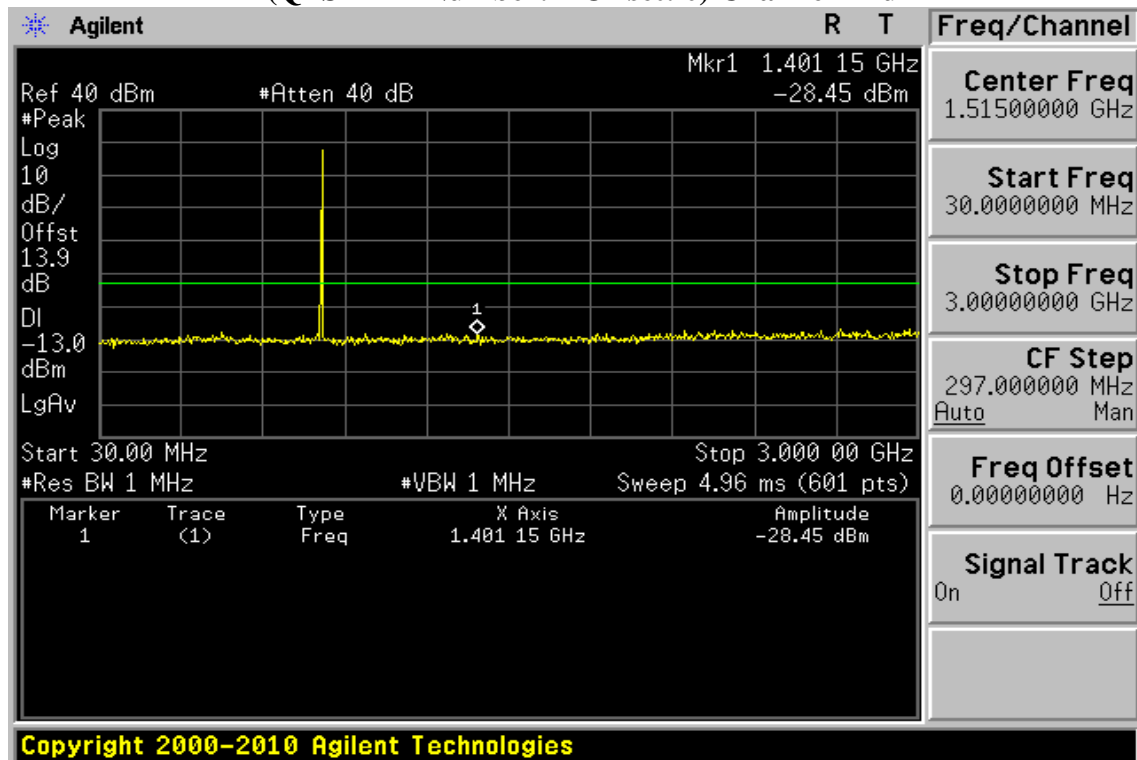
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**Figure 9-92: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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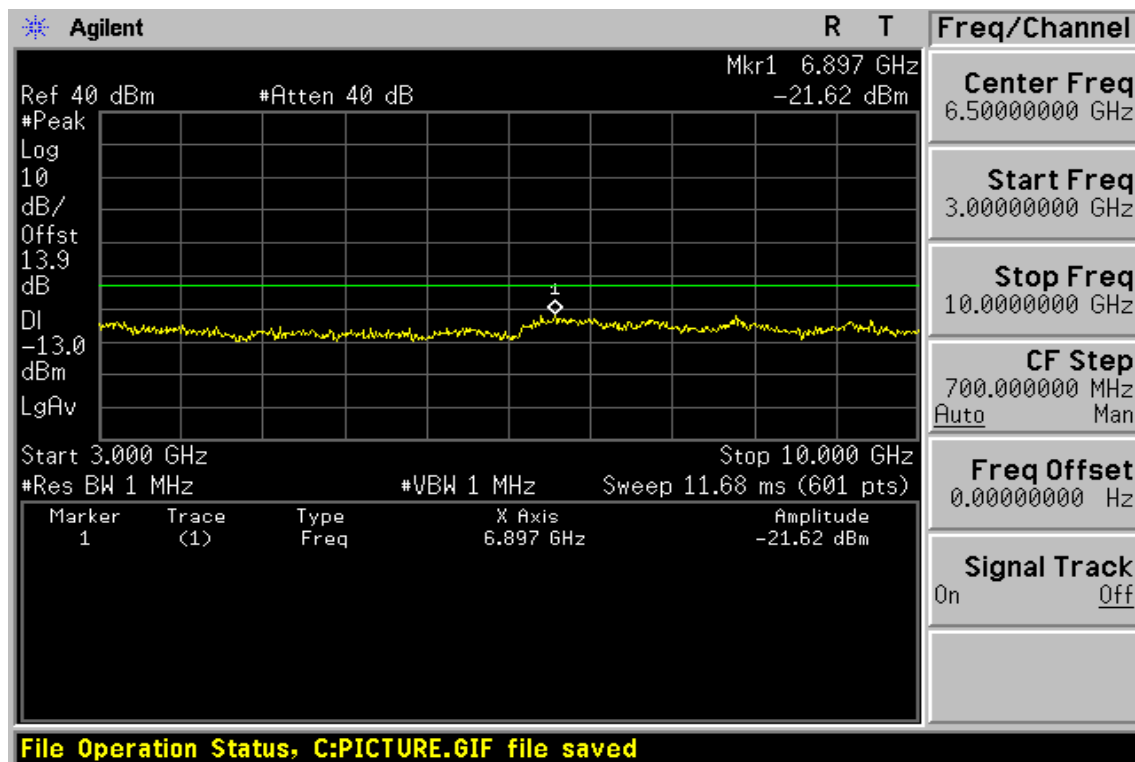
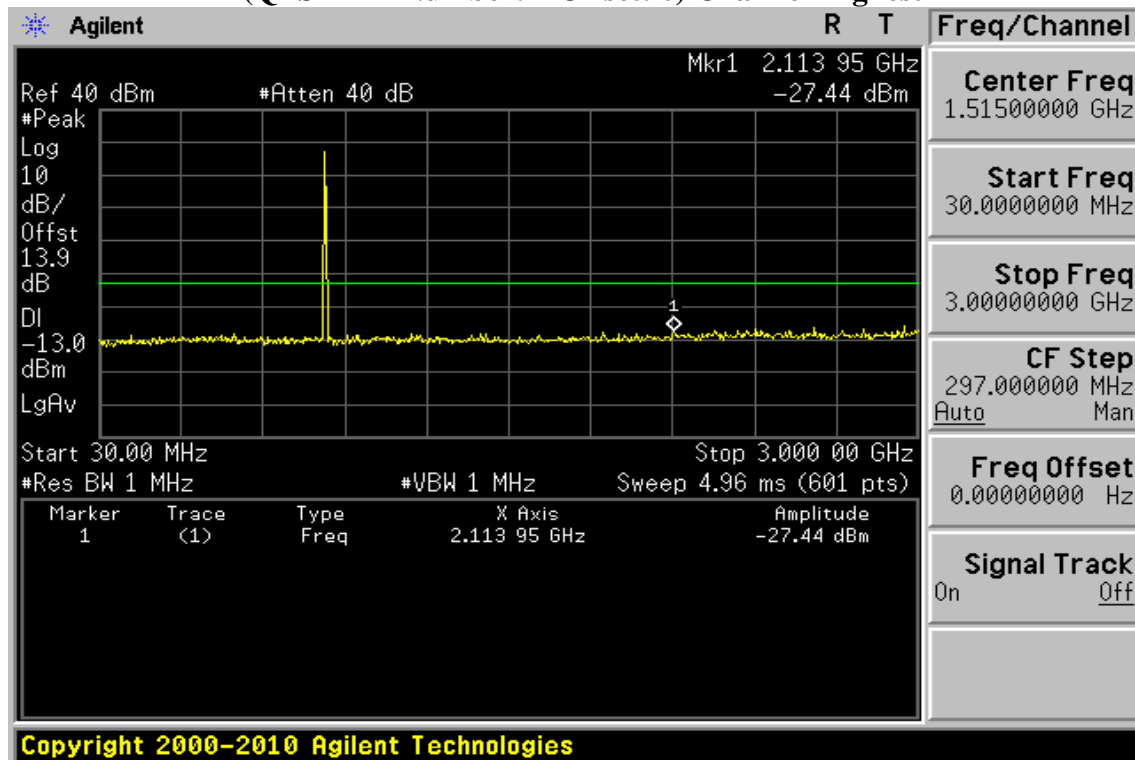
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**Figure 9-93: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26  
(QPSK RB Number: 1 Offset: 0) Channel Highest**



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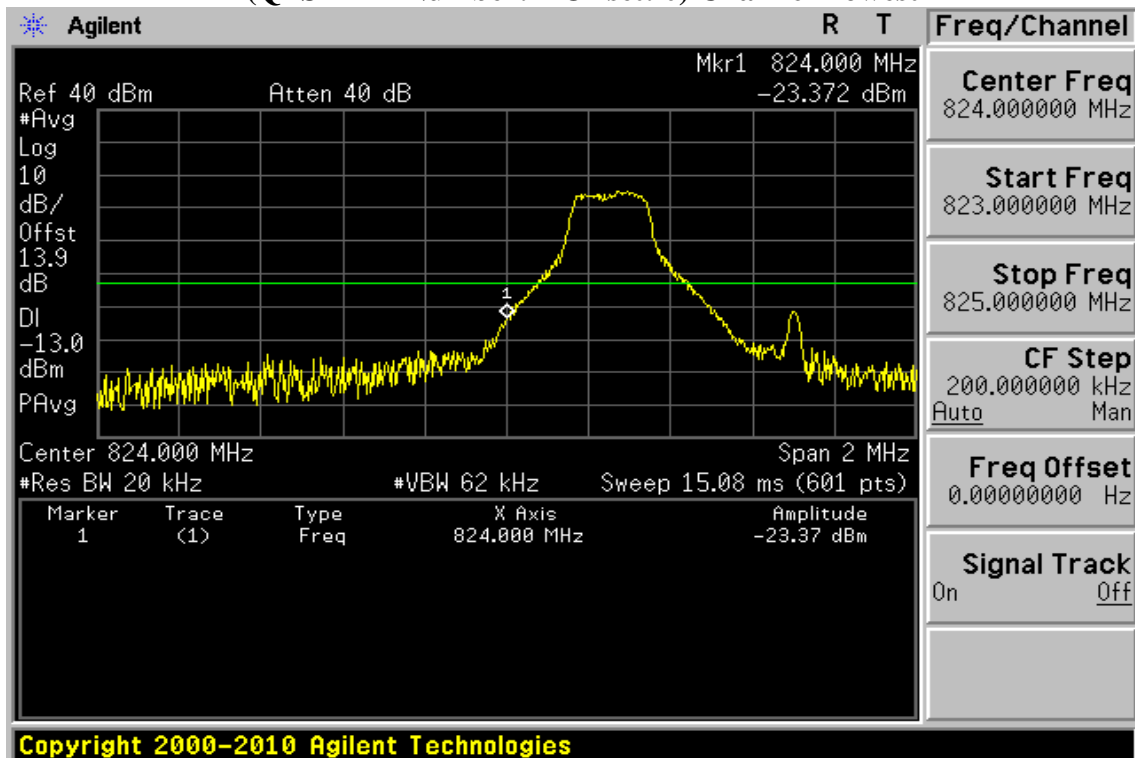
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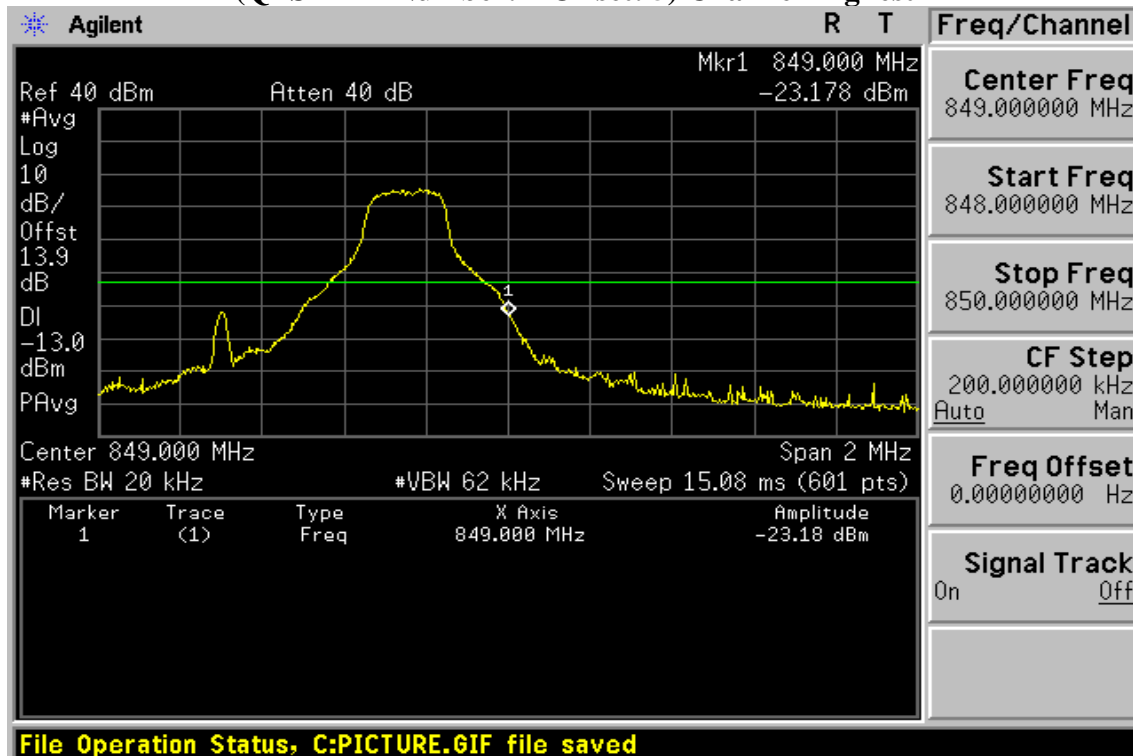
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**Figure 9-94: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-95: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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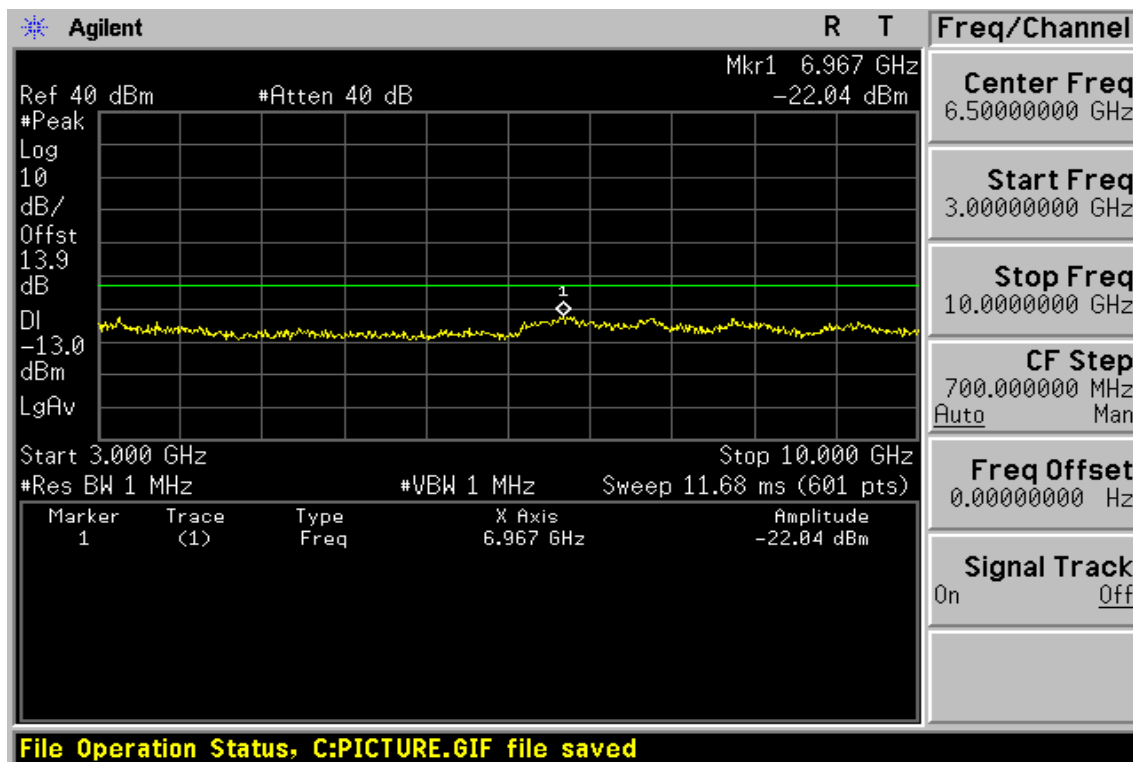
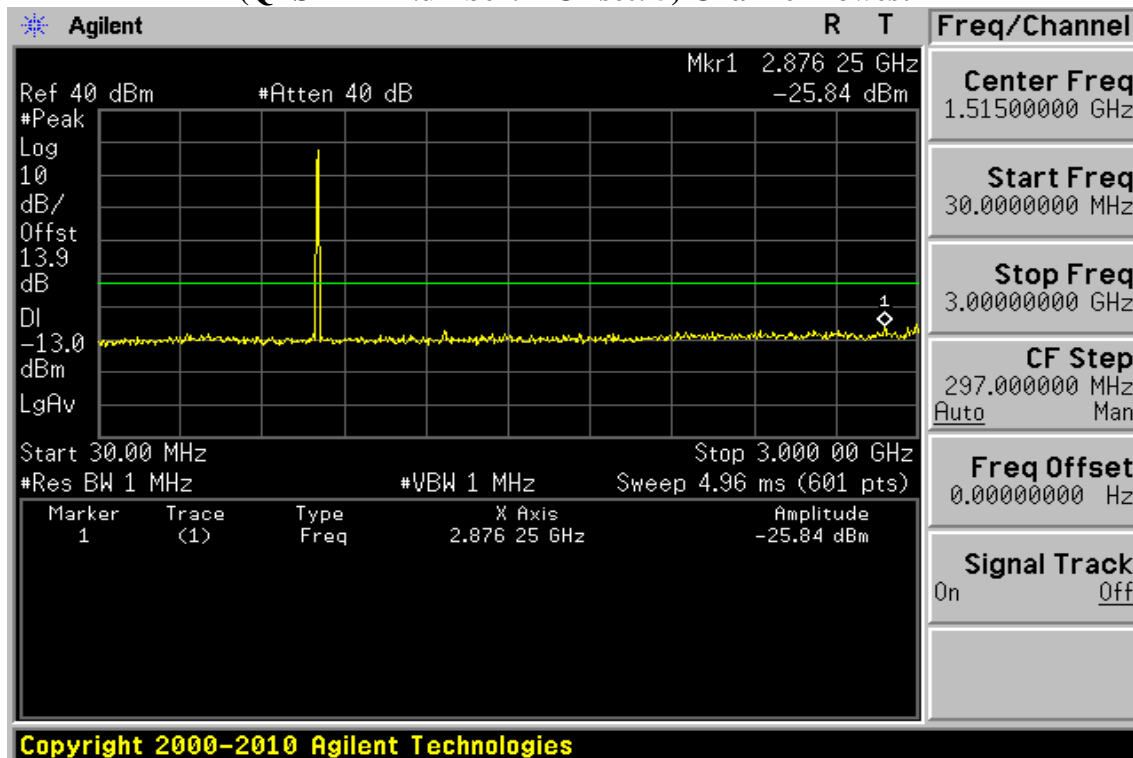
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**Figure 9-96: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Lowest**



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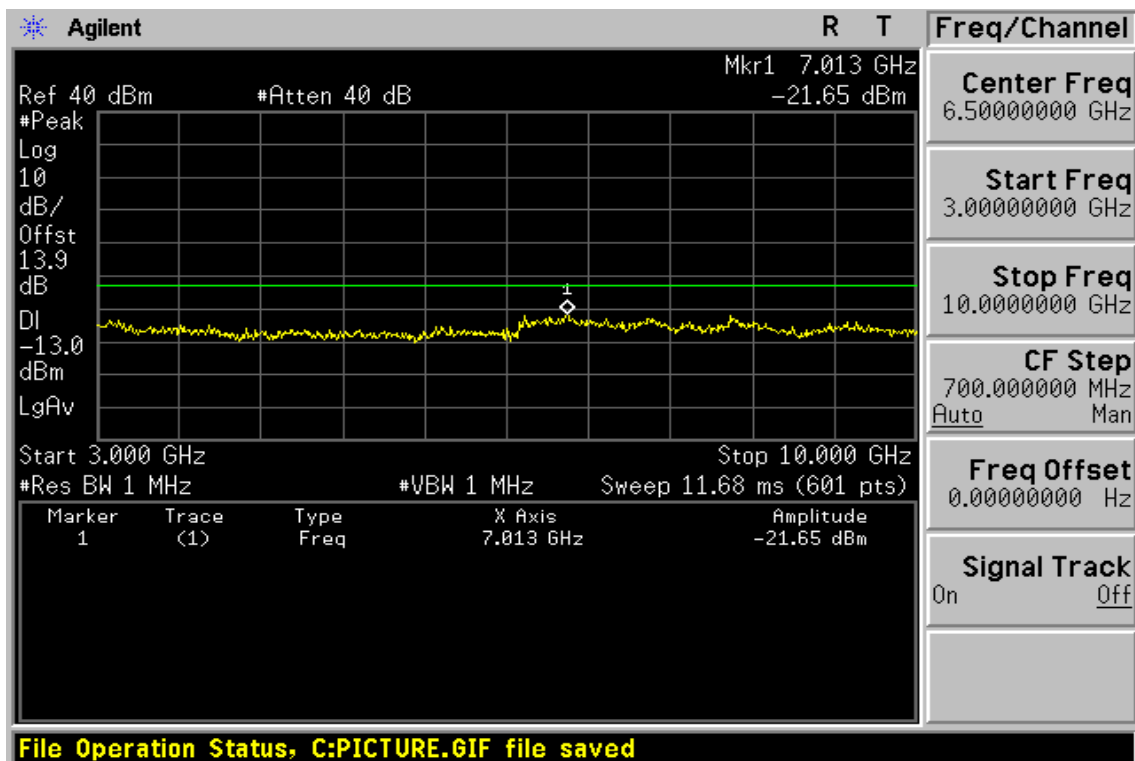
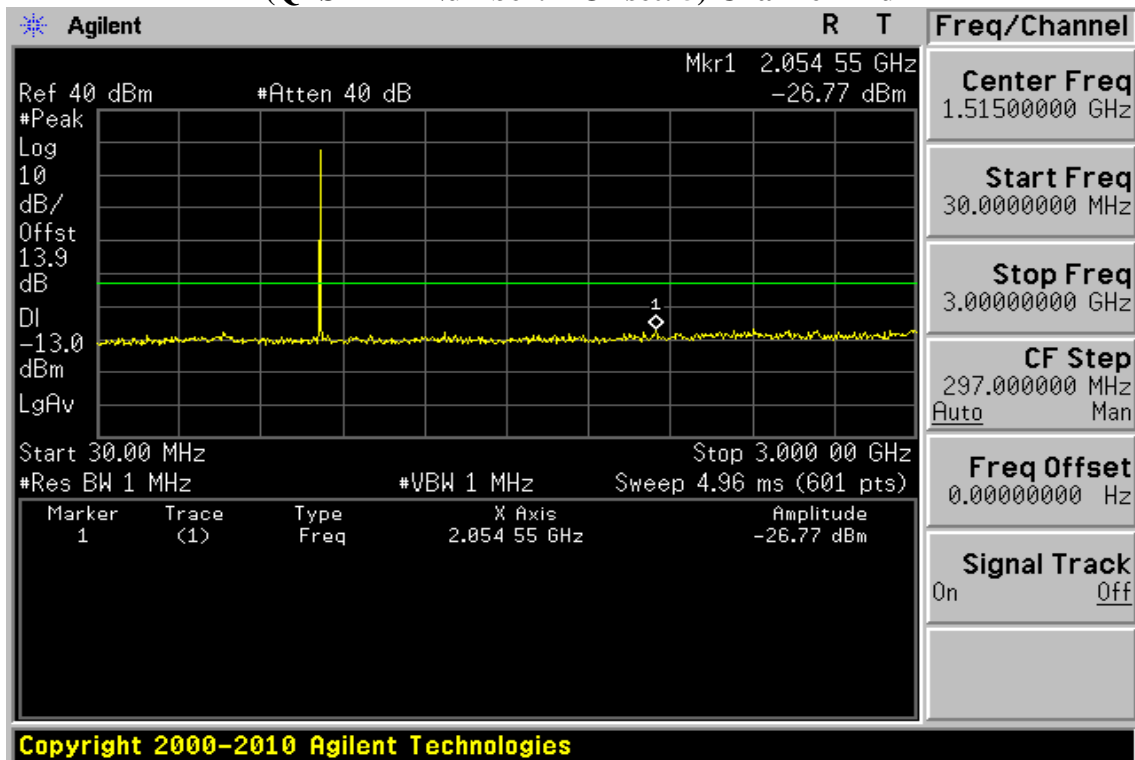
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**Figure 9-97: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 26  
(QPSK RB Number: 1 Offset: 5) Channel Mid**



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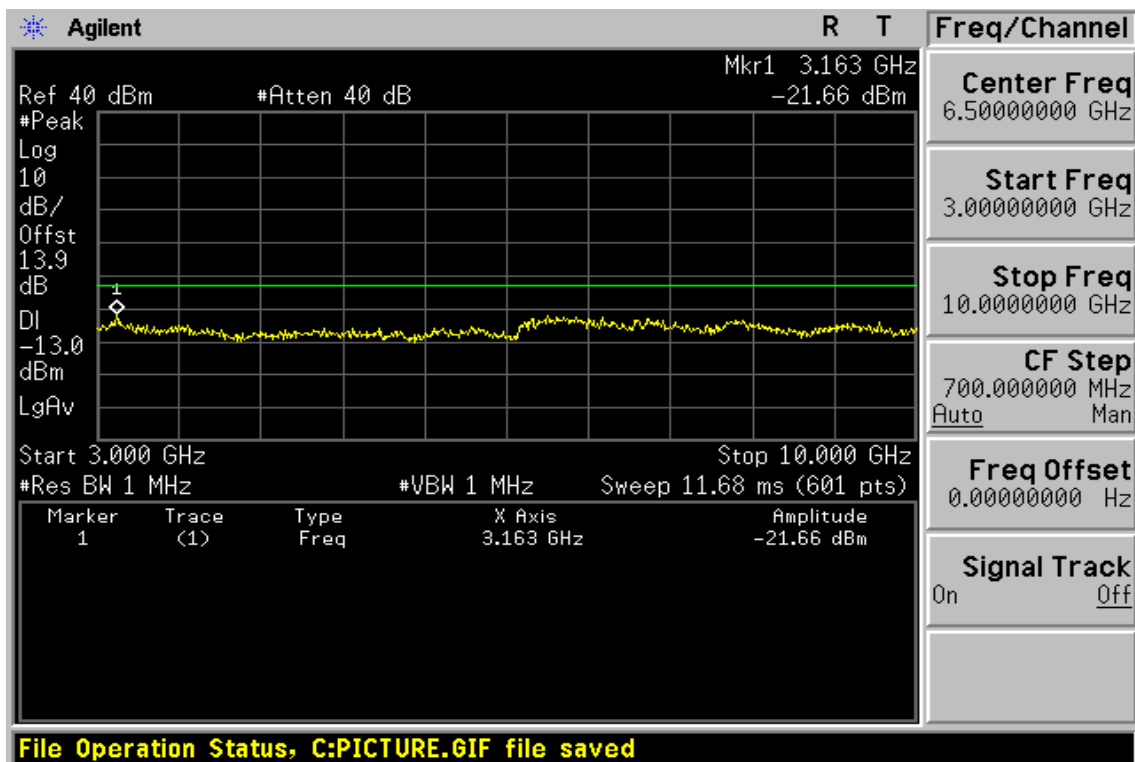
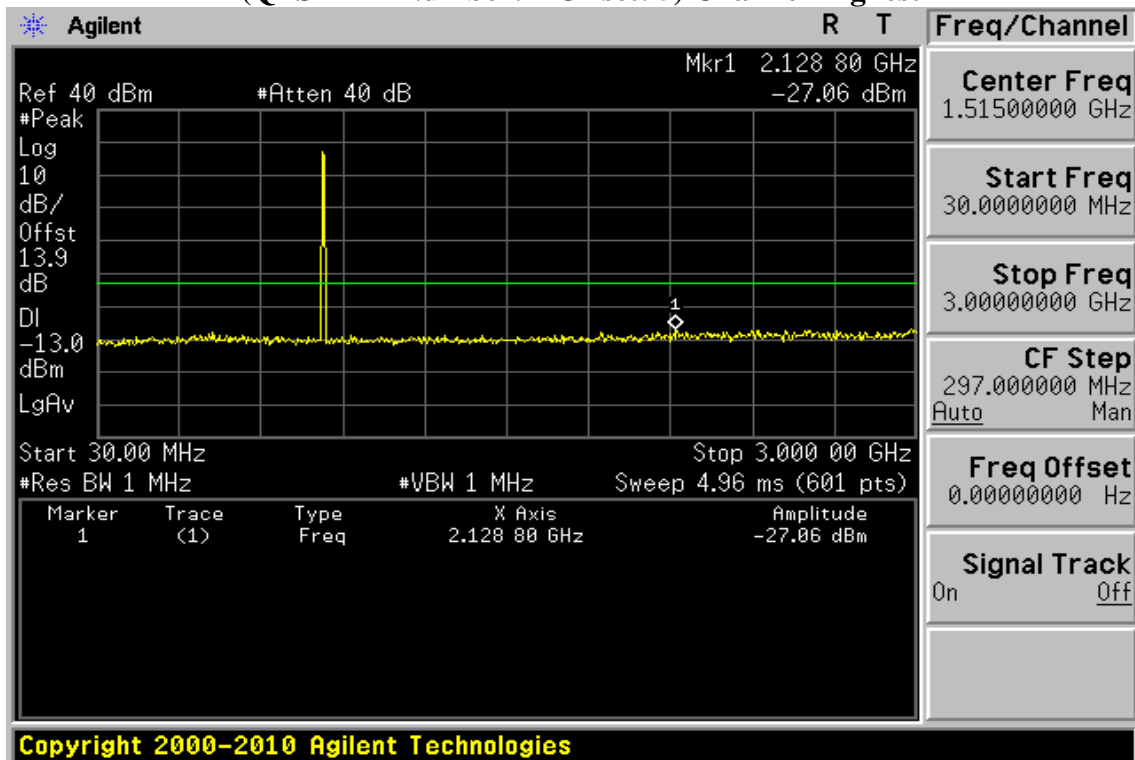
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**Figure 9-98: Out of Band emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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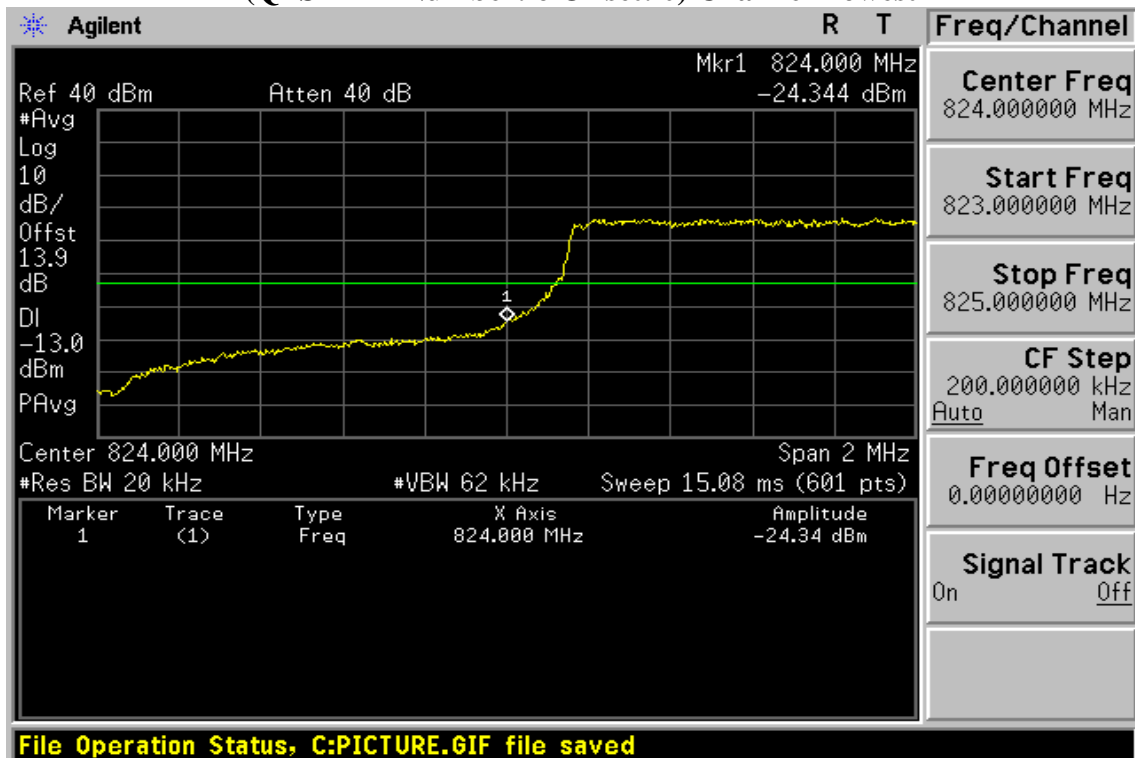
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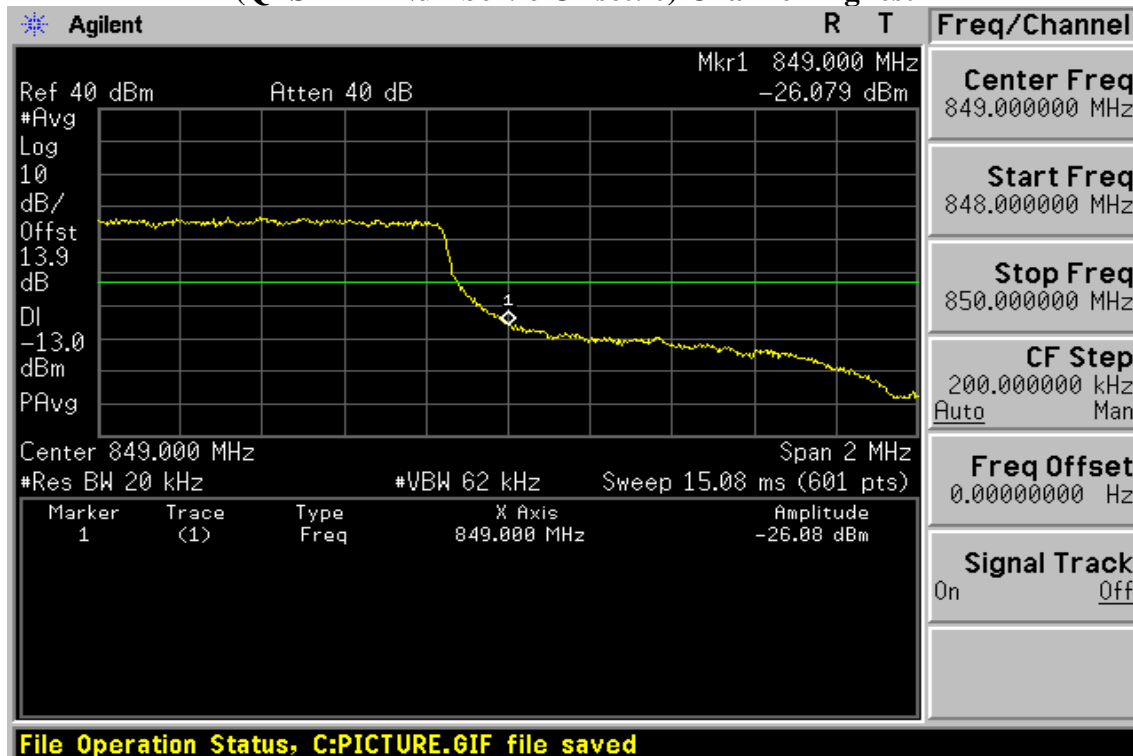
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**Figure 9-99: Band edge emission at antenna terminals – 1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Figure 9-100: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 26 (QPSK RB Number: 6 Offset: 0) Channel Highest**



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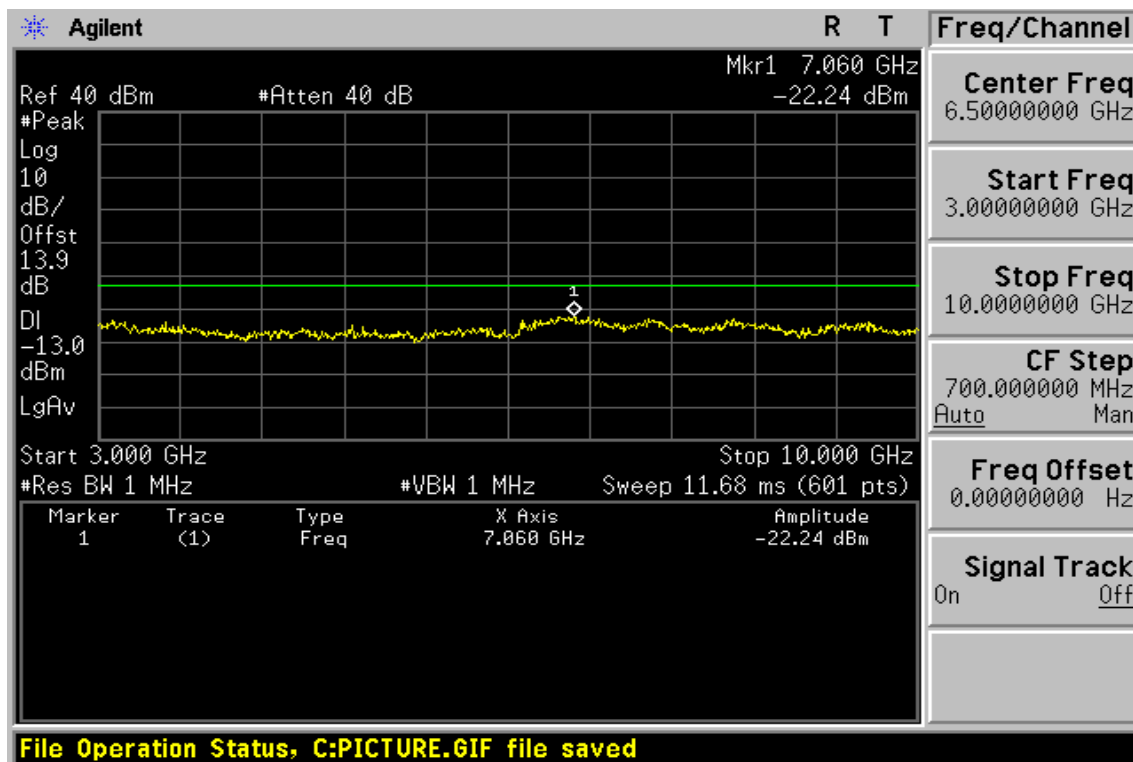
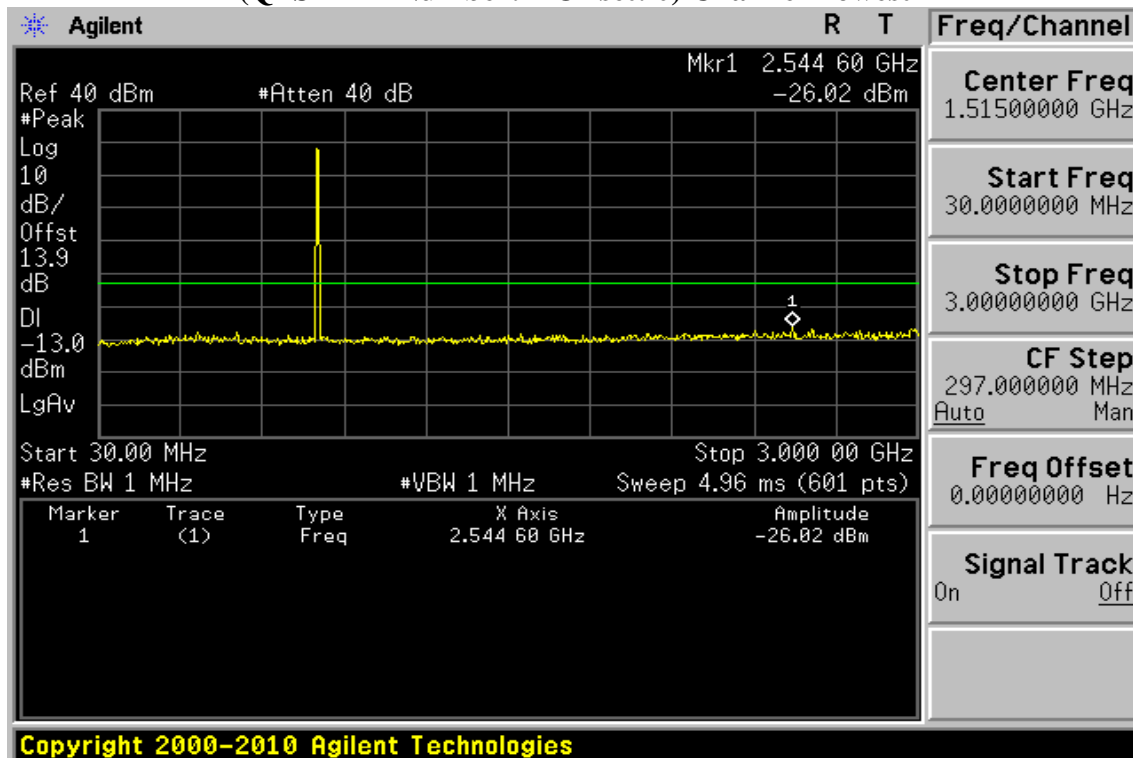
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**Figure 9-101: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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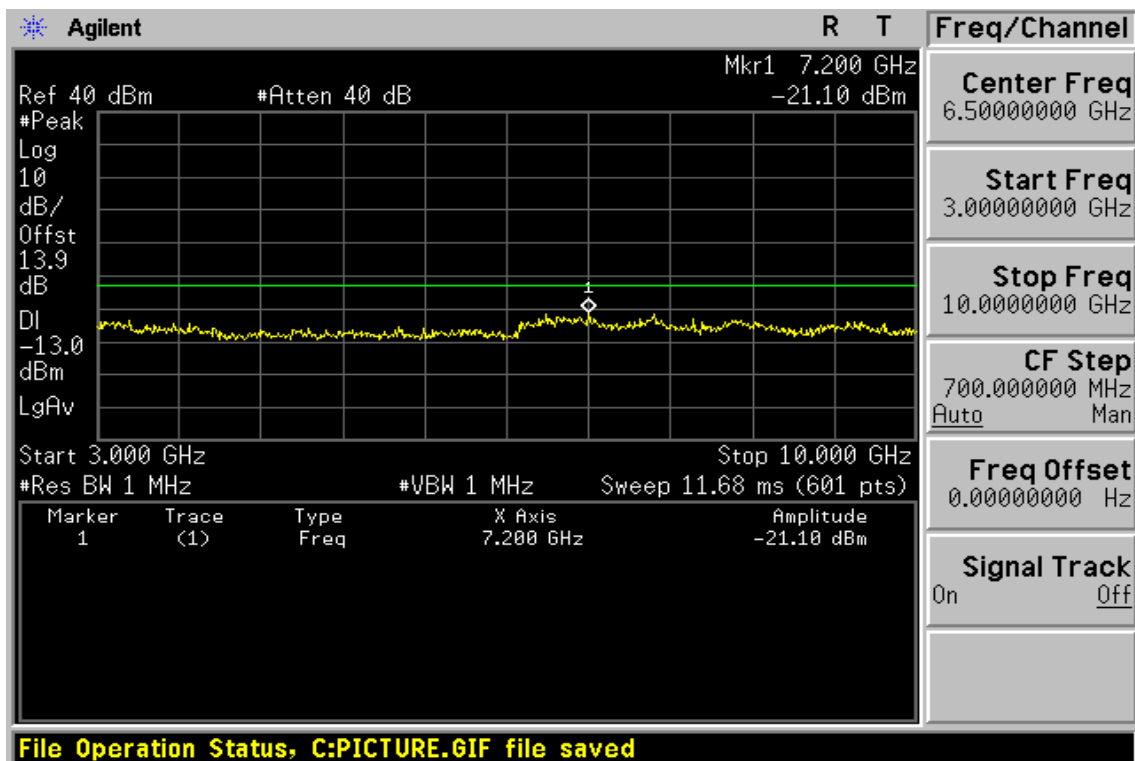
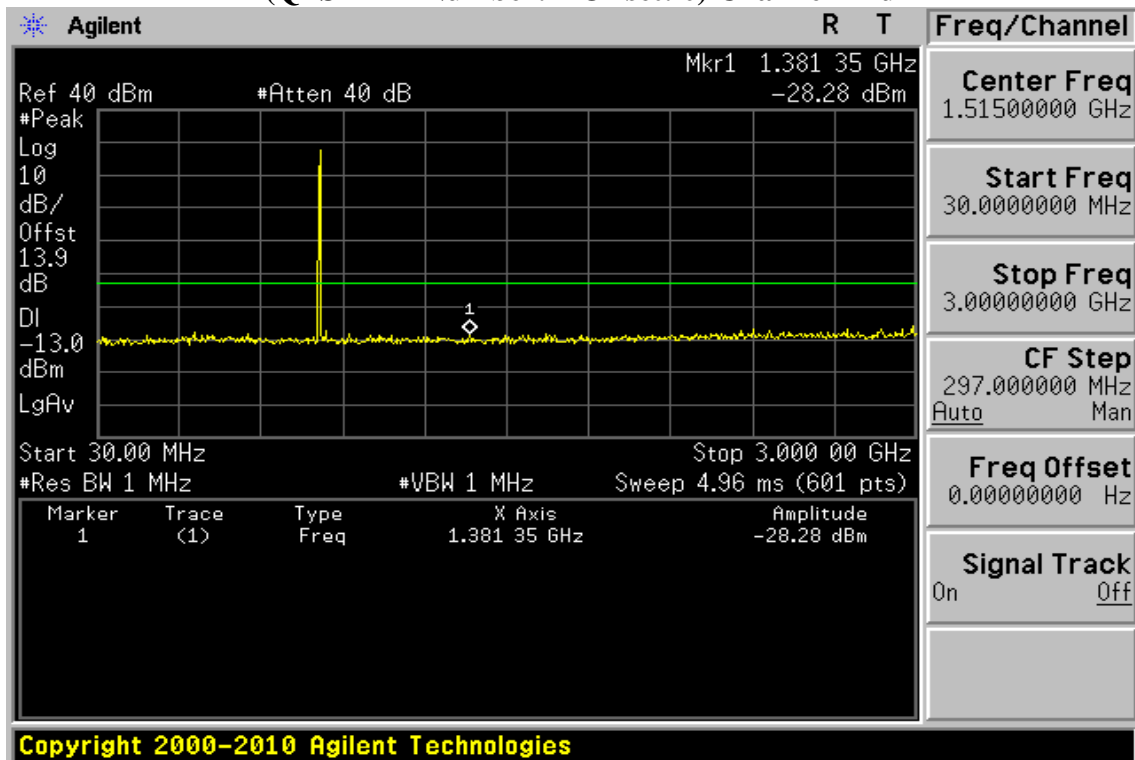
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**Figure 9-102: Out of Band emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Mid**



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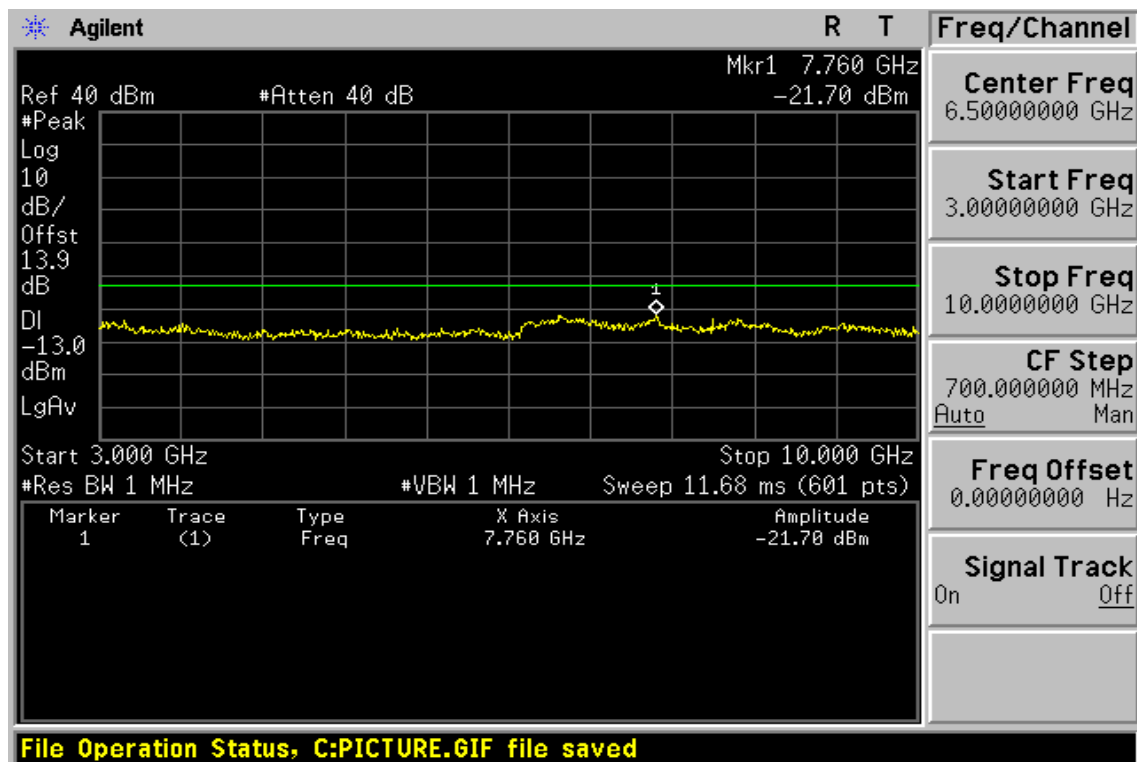
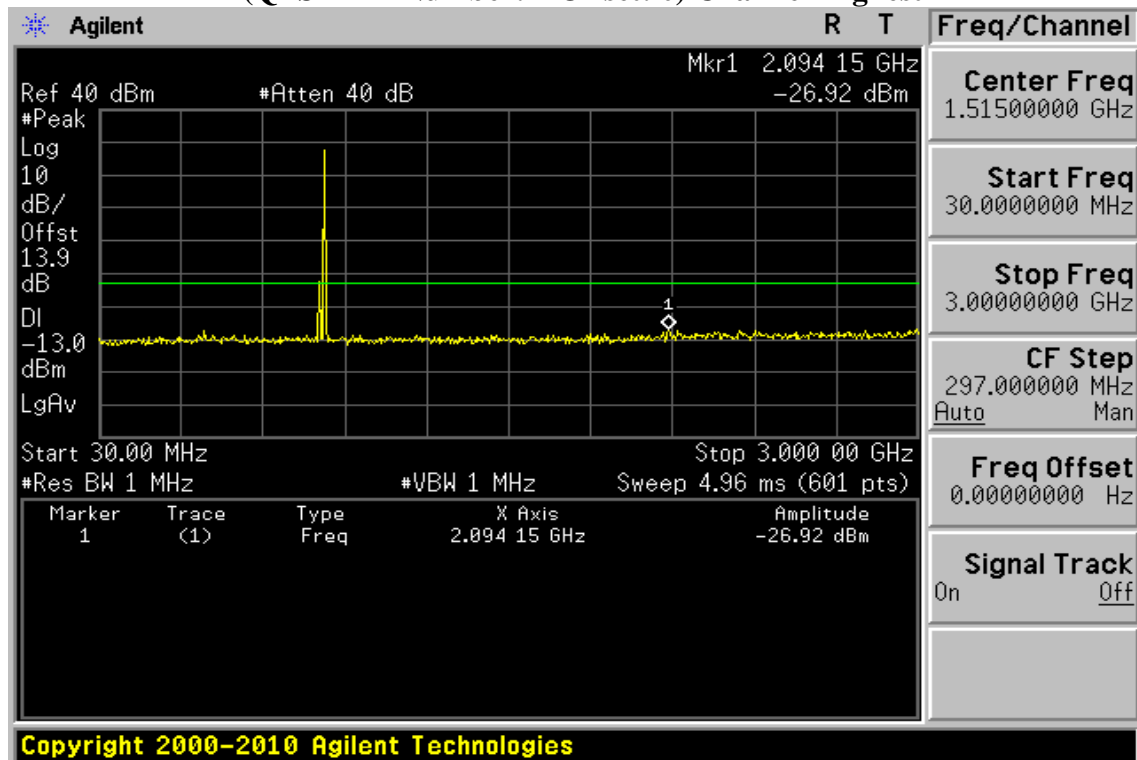
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**Figure 9-103: Out of Band emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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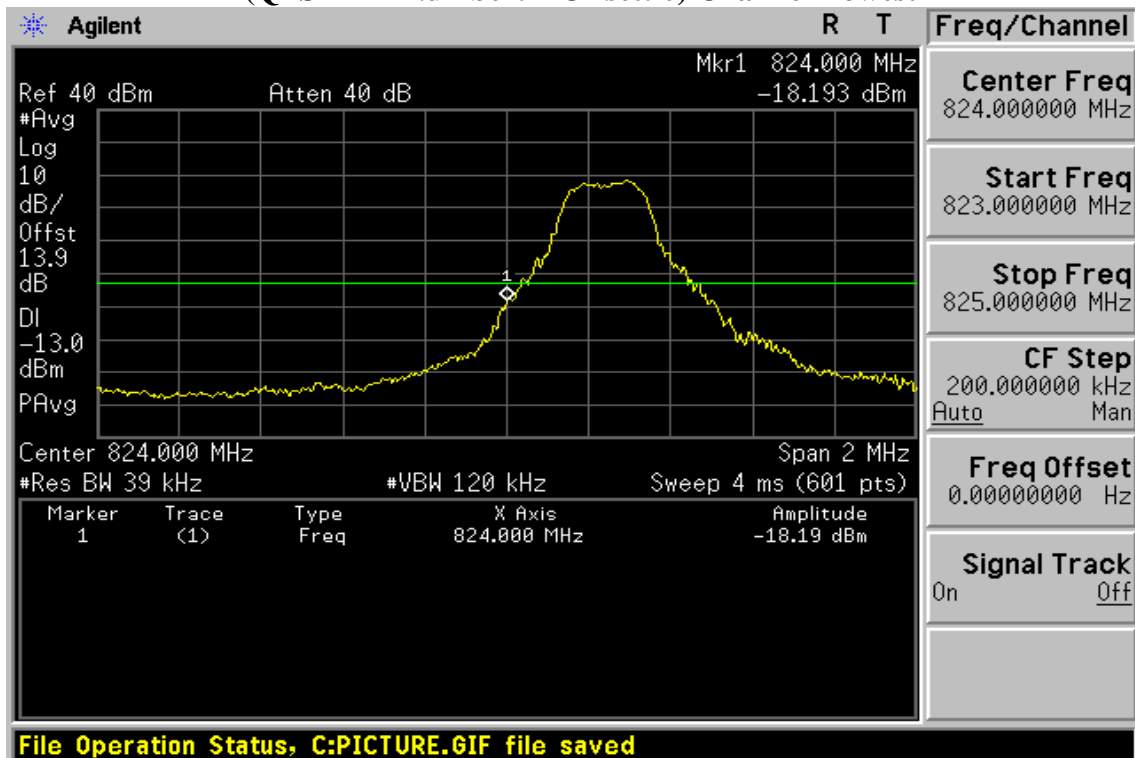
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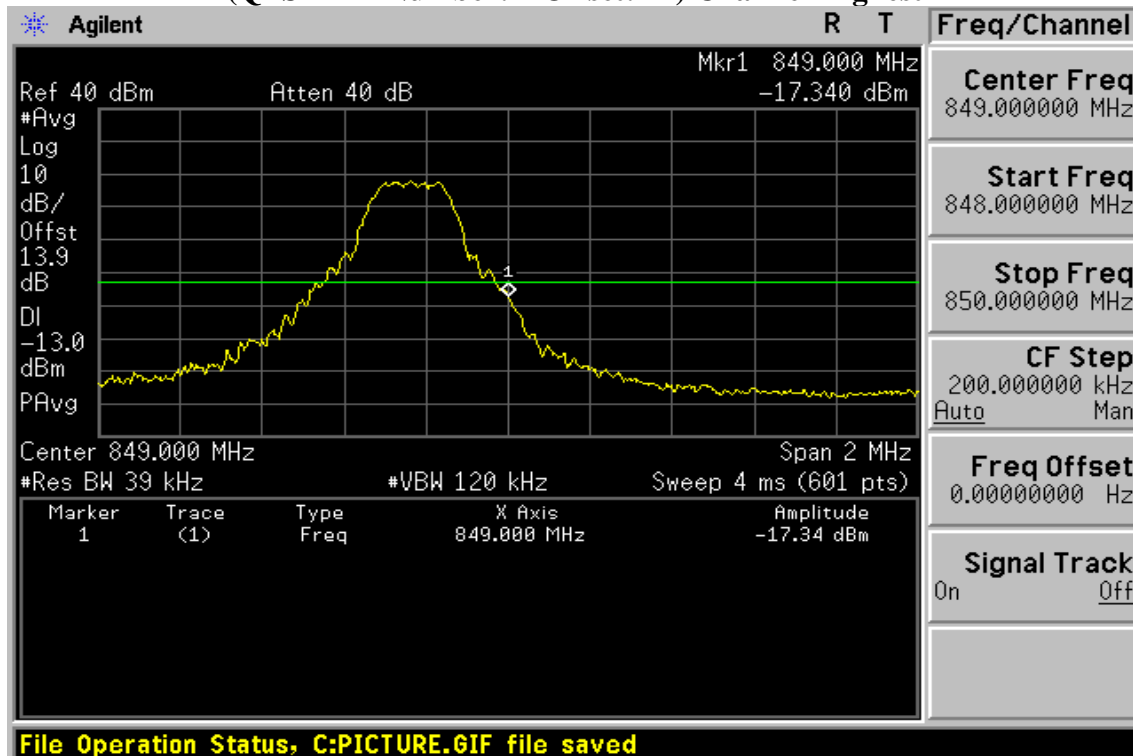
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**Figure 9-104: Band edge emission at antenna terminals – 3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Figure 9-105: Band edge emission at antenna terminals –3MHz BW LTE-Band 26 (QPSK RB Number: 1 Offset: 14) Channel Highest**



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