

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: 1KU3

Brand Name: N/A

Model No.: 1KU3

Model Difference: N/A

FCC ID: HFS1KU3

Report No.: EH/2011/B0022

Issue Date: Dec. 15, 2011

FCC Rule Part: 2 , 22H & 24E & 27

Prepared for: Quanta Computer Inc.
No.211, Wen Hwa 2nd Road , Kuei Shan Hsiang
Tao Yuan Shien, Taiwan

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: Quanta Computer Inc.
 No.211, Wen Hwa 2nd Road , Kuei Shan Hsiang Tao Yuan Shien, Taiwan

Product Name: 1KU3

Brand Name: N/A

Model No.: 1KU3

Model Difference: N/A

FCC ID: HFS1KU3

File Number: EH/2011/B0022

Date of test: Nov. 23, 2011 ~ Dec. 12, 2011

Date of EUT Received: Nov. 23, 2011

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 FCC PART 22 subpart H, PART 24 subpart E and PART 27.

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

Test By: Marcus Tseng **Date:** Dec. 15, 2011

Marcus Tseng / Engineer

Prepared By: Cherry Chen **Date:** Dec. 15, 2011

Cherry Chen / Clerk

Approved By: Jim Chang **Date:** Dec. 15, 2011

Jim Chang / Supervisor

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Version

Version No.	Date	Description
00	Dec. 15, 2011	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	1KU3
Brand Name:	N/A
Model Name:	1KU3
Model Difference:	N/A
Power Supply	3.6 Vdc by DC Power Supply

WCDMA / LTE:

Cellular Phone Standards Frequency Range:	Operating Frequency		Rated Power
		WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz
	WCDMA/HSUPA/HSDPA Band IV	1712.4MHz – 1752.6MHz	23 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz – 846.6MHz	23 dBm
	1.4MHz BW LTE-Band 4	1710.7MHz – 1754.3MHz	22.5 dBm
	3MHz BW LTE-Band 4	1711.5MHz – 1753.5MHz	22.5 dBm
	5MHz BW LTE-Band 4	1712.5MHz – 1752.5MHz	22.5 dBm
	10MHz BW LTE-Band 4	1715MHz – 1750MHz	22.5 dBm
	5MHz BW LTE-Band 17	706.5MHz – 713.5MHz	22.5 dBm
	10MHz BW LTE-Band 17	709MHz – 711MHz	22.5 dBm
Hardware Version:	G2D		
Software Version:	111111_1KU_M0.50		
IMEI:	004400152020000		

This test report applies for WCDMA/HSUPA/HSDPA Band II/IV/V and LTE Band 4/17.

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	3.6 Vdc	650
HSUPA B2	3.6 Vdc	660
HSDPA B2	3.6 Vdc	680
WCDMA B4	3.6 Vdc	670
HSUPA B4	3.6 Vdc	620
HSDPA B4	3.6 Vdc	660
WCDMA B5	3.6 Vdc	620
HSUPA B5	3.6 Vdc	630
HSDPA B5	3.6 Vdc	650
LTE B4 1.4M QPSK	3.6 Vdc	780
LTE B4 1.4M 16QAM	3.6 Vdc	730
LTE B4 3M QPSK	3.6 Vdc	770
LTE B4 3M 16QAM	3.6 Vdc	730
LTE B4 5M QPSK	3.6 Vdc	770
LTE B4 5M 16QAM	3.6 Vdc	740
LTE B4 10M QPSK	3.6 Vdc	800
LTE B4 10M 16QAM	3.6 Vdc	760
LTE B17 5M QPSK	3.6 Vdc	670
LTE B17 5M 16QAM	3.6 Vdc	660
LTE B17 10M QPSK	3.6 Vdc	620
LTE B17 10M 16QAM	3.6 Vdc	650

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1.1. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: HFS1KU3** 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.

1.2. Test Methodology

Both conducted and radiated testing were performed according to the procedures document of TIA/EIA 603C and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

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

1.3. 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: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644.

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

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

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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 engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 AC Power Line Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4: 2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 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.

2.3.3 Radiated Emissions (ERP/EIRP):

The EUT is a placed on as turn table which is 80 cm 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 2 of TIA/EIA 603C.

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2.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR MODEL	NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2010	01/22/2012
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/13/2012
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2011	01/04/2012
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2011	01/04/2012
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2010	04/13/2012
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2010	02/04/2012
DC Block	Agilent	BLK-18	155452	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2011	07/04/2012
Splitter	Agilent	11636B	N/A	07/05/2011	07/04/2012
DC Power Supply	HP	6038A	2929A-07548	06/27/2011	06/26/2012
DC Power Supply	Topward	3303D	981327	10/26/2011	10/25/2012
Power Meter	Anritsu	ML2495A	1005007	02/17/2010	02/16/2012
Power Sensor	Anritsu	MA2411B	917032	01/21/2010	01/20/2012

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR MODEL	NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2012
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2011	11/14/2012
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2010	07/09/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2010	07/09/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	01/22/2010	01/21/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2010	05/08/2012
Signal Generator	R&S	SMR40	100210	01/22/2010	01/21/2012
Signal Generator	Agilent	E4438C	MY45093613	06/11/2011	06/10/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2011	11/29/2012
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2011	07/04/2012
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/12/2012
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	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2011	01/04/2012
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2011	11/09/2012

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2.5. Configuration of Tested System

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

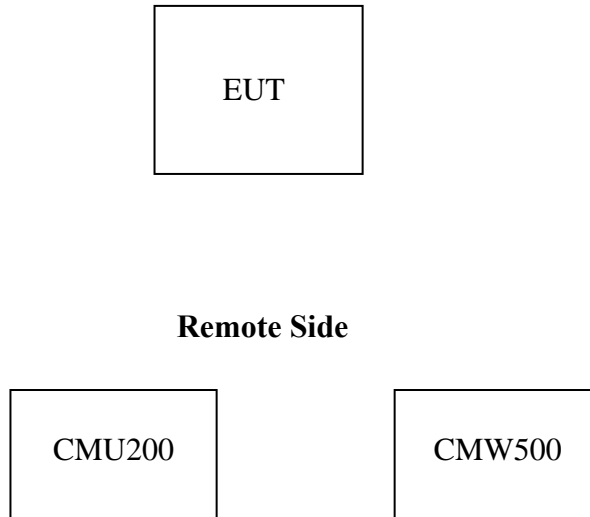


Table 2-1 Equipment Used in Tested System

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.	Wideb Radio Comzn Tester	R&S	CMW500	101582	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(c)(10) §27.50(d)(4)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(c)(10) §27.50(d)(4)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Field Strength of Spurious Radiation	Compliant
§27.50(i)	Peak to Average Ratio	Compliant
§27.53f	Spurious emission in 1559 -1610MHz Band	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355 §24.235 §27.54	Frequency Stability vs. Voltage	Compliant

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Max ERP/EIRP measurement result:

	dBm		W
WCDMA Band II	24.86	EIRP	0.306
HSUPA Band II	25.30	EIRP	0.339
HSDPA Band II	25.29	EIRP	0.338
WCDMA Band IV	25.26	EIRP	0.336
HSUPA Band IV	25.19	EIRP	0.330
HSDPA Band IV	25.01	EIRP	0.317
WCDMA Band V	19.71	ERP	0.094
HSUPA Band V	20.28	ERP	0.107
HSDPA Band V	20.27	ERP	0.106
LTE Band 4/1.4MHz /QPSK RB 1 Offset 5	25.16	EIRP	0.328
LTE Band 4/1.4MHz /16QAM RB 1 Offset 5	24.83	EIRP	0.304
LTE Band 4/1.4MHz /QPSK RB 1 Offset 0	25.11	EIRP	0.324
LTE Band 4/1.4MHz /16QAM RB 1 Offset 0	25.34	EIRP	0.342
LTE Band 4/1.4MHz /QPSK RB 3 Offset 2	22.21	EIRP	0.166
LTE Band 4/1.4MHz /16QAM RB 3 Offset 2	24.26	EIRP	0.267
LTE Band 4/1.4MHz /QPSK RB 6 Offset 0	22.97	EIRP	0.198
LTE Band 4/1.4MHz /16QAM RB 6 Offset 0	24.31	EIRP	0.270
LTE Band 4/3MHz /QPSK RB 1 Offset 14	25.17	EIRP	0.329
LTE Band 4/3MHz /16QAM RB 1 Offset 14	25.31	EIRP	0.340
LTE Band 4/3MHz /QPSK RB 1 Offset 0	24.43	EIRP	0.277
LTE Band 4/3MHz /16QAM RB 1 Offset 0	25.30	EIRP	0.339
LTE Band 4/3MHz /QPSK RB 8 Offset 4	21.11	EIRP	0.129
LTE Band 4/3MHz /16QAM RB 8 Offset 4	22.42	EIRP	0.175
LTE Band 4/3MHz /QPSK RB 15 Offset 0	22.40	EIRP	0.174
LTE Band 4/3MHz /16QAM RB 15 Offset 0	24.38	EIRP	0.274
LTE Band 4/5MHz /QPSK RB 1 Offset 24	24.61	EIRP	0.289
LTE Band 4/5MHz /16QAM RB 1 Offset 24	24.69	EIRP	0.294
LTE Band 4/5MHz /QPSK RB 1 Offset 0	24.80	EIRP	0.302
LTE Band 4/5MHz /16QAM RB 1 Offset 0	24.58	EIRP	0.287
LTE Band 4/5MHz /QPSK RB 12 Offset 6	23.05	EIRP	0.202
LTE Band 4/5MHz /16QAM RB 12 Offset 6	23.51	EIRP	0.224
LTE Band 4/5MHz /QPSK RB 25 Offset 0	24.84	EIRP	0.305
LTE Band 4/5MHz /16QAM RB 25 Offset 0	24.35	EIRP	0.272

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	dBm		W
LTE Band 4/10MHz /QPSK RB 1 Offset 49	24.00	EIRP	0.251
LTE Band 4/10MHz /16QAM RB 1 Offset 49	25.12	EIRP	0.325
LTE Band 4/10MHz /QPSK RB 1 Offset 0	23.28	EIRP	0.213
LTE Band 4/10MHz /16QAM RB 1 Offset 0	24.48	EIRP	0.281
LTE Band 4/10MHz /QPSK RB 25 Offset 12	23.00	EIRP	0.200
LTE Band 4/10MHz /16QAM RB 25 Offset 12	24.39	EIRP	0.275
LTE Band 4/10MHz /QPSK RB 50 Offset 0	22.65	EIRP	0.184
LTE Band 4/10MHz /16QAM RB 50 Offset 0	24.04	EIRP	0.254
LTE Band 17/5MHz /QPSK RB 1 Offset 24	25.17	ERP	0.055
LTE Band 17/5MHz /16QAM RB 1 Offset 24	25.31	ERP	0.070
LTE Band 17/5MHz /QPSK RB 1 Offset 0	24.43	ERP	0.076
LTE Band 17/5MHz /16QAM RB 1 Offset 0	25.30	ERP	0.073
LTE Band 17/5MHz /QPSK RB 12 Offset 6	21.11	ERP	0.069
LTE Band 17/5MHz /16QAM RB 12 Offset 6	22.42	ERP	0.111
LTE Band 17/5MHz /QPSK RB 25 Offset 0	22.40	ERP	0.092
LTE Band 17/5MHz /16QAM RB 25 Offset 0	24.38	ERP	0.094
LTE Band 17/10MHz /QPSK RB 1 Offset 49	17.04	ERP	0.051
LTE Band 17/10MHz /16QAM RB 1 Offset 49	17.85	ERP	0.061
LTE Band 17/10MHz /QPSK RB 1 Offset 0	17.27	ERP	0.053
LTE Band 17/10MHz /16QAM RB 1 Offset 0	18.13	ERP	0.065
LTE Band 17/10MHz /QPSK RB 25 Offset 12	19.31	ERP	0.085
LTE Band 17/10MHz /16QAM RB 25 Offset 12	19.50	ERP	0.089
LTE Band 17/10MHz /QPSK RB 50 Offset 0	19.02	ERP	0.080
LTE Band 17/10MHz /16QAM RB 50 Offset 0	19.73	ERP	0.094

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT lie down position (E2 mode) for WCDMA/HSUPA/HSDPA Band II/IV/V, and LTE Band 4/17 with power supply.

In comparison among the RSE data of the all modulations (WCDMA/HSUPA/HSDPA) we found that while the radiation is in WCDMA mode, the spurious emission is found to be the worst, and therefore documenting the data of radiated spurious emission on HSUPA Band II, WCDMA Band IV and HSUPA Band V would be representative sufficiently.

The RSE Data for all combinations have been measured, and only the results being measured close to the required limit are shown on the report by correlation.

In comparison among all CSE data of the variety of combination on LTE band 4 and 17, respectively, It's found to generate the highest emission at 1.4 MHz, 3MHz, 5MHz and 10 MHz Transmission Bandwidth while RB size = 1 with 0 offset. Be aware of that only CSE data that yields the worst measurement with supported modulation scheme (QPSK, 16QAM) are shown on the corresponding section.

For Peak to Average Ratio test, all combination (RB arrangement with different modulation scheme) has been evaluated, the data with the following setting: RB number = 6; Offset = 0 for Band4 1.4MHz with 16QAM; RB number = 15; Offset = 0 for Band4 3MHz with 16QAM; RB number = 25; Offset = 0 for Band4 5MHz with 16QAM; RB number = 50; Offset = 0 for Band4 10MHz with 16QAM; RB number = 25; Offset = 0 for Band17 5MHz with 16QAM; RB number = 50; Offset = 0 for Band17 10MHz with 16QAM are shown as representative plot on the report.

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For Band edge, all combinations has been assessed and measured, only data output the emission close to limit are presented on the corresponding section of this report. The following lists the combinational setting of measurement representation as documents on the report.

Band 4		
QPSK		
	Low Channel	High Channel
1.4MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 5
3MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 14
5MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 24
10MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 49

Band 4		
16QAM		
	Low Channel	High Channel
1.4MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 5
3MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 14
5MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 24
10MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 49

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Band 17		
QPSK		
	Low Channel	High Channel
5MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 24
10MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 49

Band 17		
16QAM		
	Low Channel	High Channel
5MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 24
10MHz	RB Size = 1 ; Offset = 0	RB Size = 1 ; Offset = 49

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5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

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

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

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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

Part 27, 50(c)(10) Portable stations are limited to 3W

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

FCC 27.50(b)(10) Mobile station are limited to 30W ERP.

According to IC RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W which given in SRSP-510.

According to issue 2 of RSS 132, section 4.4. The transmitter output power shall not exceed the limits given in SRSP-503.

3GPP Power limitation for HSDPA and HSUPA

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Maximum Output Powers for HSDPA

Sub-test in table C.10.1.4	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-3.7	+21	+2.7/-2.7
2	+24	+1.7/-3.7	+21	+2.7/-2.7
3	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7
4	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7

Maximum Output Powers for HSUPA

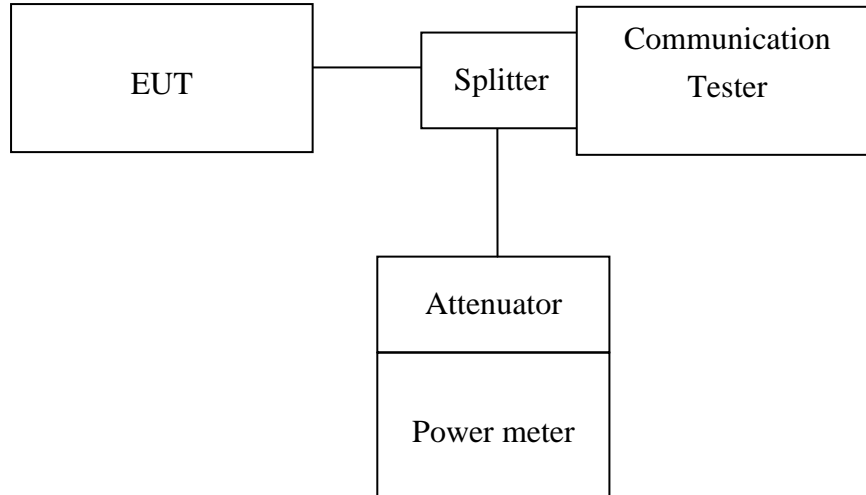
Sub-test in table C.11.1.3	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-6.7	+21	+2.7/-5.7
2	+22	+3.7/-5.2	+19	+4.7/-4.2
3	+23	+2.7/-5.2	+20	+3.7/-4.2
4	+22	+3.7/-5.2	+19	+4.7/-4.2
5	+24	+1.7/-6.7	+21	+2.7/-5.7

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6.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure:

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, WCDMA/HSPA/LTE) was used for EUT and Base station setting. RMC 12.2kps is used for this testing

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.: WCDMA mode

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

Results:

UMTS B2	WCDMA		HSDPA		HSUPA	
	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)
CH 9262	26.38	23.43	26.06	22.48	24.33	20.61
CH 9400	26.49	23.37	25.94	22.18	24.34	20.40
CH 9538	26.30	23.32	25.91	22.34	24.39	20.76

UMTS B4	WCDMA		HSDPA		HSUPA	
	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)
CH 1312	26.89	23.98	26.39	23.20	26.45	22.78
CH 1413	26.93	23.82	26.90	23.35	27.04	22.90
CH 1513	26.74	23.87	26.53	23.21	26.53	23.01

UMTS B5	WCDMA		HSDPA		HSUPA	
	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)	PK(dBm)	AV(dBm)
CH 4132	27.35	24.29	27.09	23.75	26.36	22.91
CH 4183	27.44	24.43	27.22	23.83	26.58	23.08
CH 4233	27.38	24.22	27.48	23.89	26.54	22.98

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

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6.5.1.2: HSDPA Release 6 mode

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

HSDPA SUB-TEST Setting

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

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

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

Result: Please refer to next page for test result.

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Results:

Mode	Sub-test	Transmitter Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.72	23.63	23.59	20.3dBm – 25.7dBm	Pass
	2	23.31	23.23	23.17	20.3dBm – 25.7dBm	Pass
	3	23.24	23.18	23.06	19.8dBm – 25.7dBm	Pass
	4	23.31	23.19	23.18	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Transmitter Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.69	23.92	23.71	20.3dBm – 25.7dBm	Pass
	2	23.86	23.68	23.72	20.3dBm – 25.7dBm	Pass
	3	23.21	23.47	23.18	19.8dBm – 25.7dBm	Pass
	4	23.28	23.48	23.30	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Transmitter Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	24.51	24.68	24.41	20.3dBm – 25.7dBm	Pass
	2	24.22	24.32	24.09	20.3dBm – 25.7dBm	Pass
	3	24.05	24.20	23.92	19.8dBm – 25.7dBm	Pass
	4	24.10	24.24	23.98	19.8dBm – 25.7dBm	Pass

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6.5.1.3: HSPA (HSDPA & HSUPA) Release 6 mode

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

HSPA SUB-TEST Setting

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

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

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

Results: Please refer to next page for test result.

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Result:

Mode	Sub-test	TX Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.35	23.35	23.20	18.8dBm – 25.7dBm	Pass
	2	21.37	21.31	21.24	16.8dBm – 25.7dBm	Pass
	3	22.28	22.23	22.21	17.8dBm – 25.7dBm	Pass
	4	21.49	21.45	21.24	16.8dBm – 25.7dBm	Pass
	5	23.21	23.23	23.11	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	TX Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSUPA(B4)	1	23.90	23.80	23.81	18.8dBm – 25.7dBm	Pass
	2	21.95	21.87	21.85	16.8dBm – 25.7dBm	Pass
	3	22.96	22.82	22.89	17.8dBm – 25.7dBm	Pass
	4	22.08	21.92	21.89	16.8dBm – 25.7dBm	Pass
	5	23.79	23.66	23.72	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	TX Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	24.25	24.36	24.13	18.8dBm – 25.7dBm	Pass
	2	22.31	22.44	22.17	16.8dBm – 25.7dBm	Pass
	3	23.22	23.42	23.16	17.8dBm – 25.7dBm	Pass
	4	22.36	22.50	22.25	16.8dBm – 25.7dBm	Pass
	5	24.11	24.19	24.02	18.8dBm – 25.7dBm	Pass

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6.5.1.4: Minimum Communications Power Measurement:

PCS 1900 band: N/A for this test item.

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

WCDMA/HSDPA/HSUPA band II/IV/V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 22 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. The power variation can be 0.1dB step by setting.

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6.5.1.5.: MPR Table

6.2.3.3 Minimum conformance requirements

For UE Power Class 3, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2.3-1 due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3.3-1.

Table 6.2.3.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth configuration [RB]						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5.3 apply.

The normative reference for this requirement is TS 36.101 clause 6.2.3.

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LTE Band 4 1.4 MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power(dBm)	Target Power(dBm)	MPR Target(dB)
1.4	QPSK	19957	1710.7	1	5	23.67	24	0
				1	0	23.70	24	0
				3	2	22.78	24	1
				6	0	22.74	24	1
		20175	1732.5	1	5	23.69	24	0
				1	0	23.65	24	0
				3	2	22.63	24	1
				6	0	22.80	24	1
		20393	1754.3	1	5	23.65	24	0
				1	0	23.72	24	0
				3	2	22.95	24	1
				6	0	22.75	24	1
1.4	16 QAM	19957	1710.7	1	5	23.05	24	1
				1	0	23.03	24	1
				3	2	22.67	24	2
				6	0	22.52	24	2
		20175	1732.5	1	5	23.10	24	1
				1	0	23.15	24	1
				3	2	22.70	24	2
				6	0	22.49	24	2
		20393	1754.3	1	5	23.09	24	1
				1	0	23.15	24	1
				3	2	22.98	24	2
				6	0	22.41	24	2

Cable loss: 0.84 dB

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LTE Band 4_3 MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power(dBm)	Target Power(dBm)	MPR Target(dB)
3	QPSK	19965	1711.5	1	14	23.60	24	0
				1	0	23.57	24	0
				8	4	22.77	24	1
				15	0	22.79	24	1
		20175	1732.5	1	14	23.65	24	0
				1	0	23.53	24	0
				8	4	22.71	24	1
				15	0	22.88	24	1
		20385	1753.5	1	14	23.65	24	0
				1	0	23.63	24	0
				8	4	22.85	24	1
				15	0	22.80	24	1
3	16 QAM	19965	1711.5	1	14	23.08	24	1
				1	0	23.10	24	1
				8	4	22.75	24	2
				15	0	22.72	24	2
		20175	1732.5	1	14	23.25	24	1
				1	0	23.03	24	1
				8	4	22.05	24	2
				15	0	22.08	24	2
		20385	1753.5	1	14	22.75	24	1
				1	0	22.98	24	1
				8	4	22.12	24	2
				15	0	21.85	24	2

Cable loss: 0.84 dB

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LTE Band 4_5 MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power(dBm)	Target Power(dBm)	MPR Target(dB)
5	QPSK	19975	1712.5	1	24	23.50	24	0
				1	0	23.60	24	0
				12	6	22.85	24	1
				25	0	22.97	24	1
		20175	1732.5	1	24	23.75	24	0
				1	0	23.78	24	0
				12	6	22.75	24	1
				25	0	22.64	24	1
		20375	1752.5	1	24	23.65	24	0
				1	0	23.60	24	0
				12	6	22.70	24	1
				25	0	22.93	24	1
5	16 QAM	19975	1712.5	1	24	22.63	24	1
				1	0	22.90	24	1
				12	6	22.32	24	2
				25	0	22.79	24	2
		20175	1732.5	1	24	22.87	24	1
				1	0	22.99	24	1
				12	6	21.63	24	2
				25	0	22.07	24	2
		20375	1752.5	1	24	22.50	24	1
				1	0	22.59	24	1
				12	6	22.23	24	2
				25	0	22.46	24	2

Cable loss: 0.84 dB

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LTE Band 4_10 MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power(dBm)	Target Power(dBm)	MPR Target(dB)
10	QPSK	20000	1715	1	49	23.58	24	0
				1	0	23.65	24	0
				25	12	23.54	24	1
				50	0	23.38	24	1
		20175	1732.5	1	49	23.78	24	0
				1	0	23.56	24	0
				25	12	23.44	24	1
				50	0	23.35	24	1
		20350	1750	1	49	23.51	24	0
				1	0	23.60	24	0
				25	12	23.23	24	1
				50	0	23.21	24	1
10	16 QAM	20000	1715	1	49	23.10	24	1
				1	0	23.15	24	1
				25	12	22.70	24	2
				50	0	22.77	24	2
		20175	1732.5	1	49	23.01	24	1
				1	0	23.14	24	1
				25	12	22.88	24	2
				50	0	23.03	24	2
		20350	1750	1	49	23.20	24	1
				1	0	23.05	24	1
				25	12	22.31	24	2
				50	0	22.50	24	2

Cable loss: 0.84 dB

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LTE Band 17_5 MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power(dBm)	Target Power(dBm)	MPR Target(dB)
5	QPSK	23755	706.5	1	24	22.77	23	0
				1	0	23.34	23	0
				12	6	22.40	23	1
				25	0	22.54	23	1
		23790	710	1	24	22.77	23	0
				1	0	22.70	23	0
				12	6	22.65	23	1
				25	0	22.64	23	1
		23825	713.5	1	24	22.89	23	0
				1	0	22.80	23	0
				12	6	22.66	23	1
				25	0	22.65	23	1
5	16 QAM	23755	706.5	1	24	22.24	23	1
				1	0	22.28	23	1
				12	6	21.41	23	2
				25	0	22.20	23	2
		23790	710	1	24	22.71	23	1
				1	0	22.38	23	1
				12	6	21.34	23	2
				25	0	21.97	23	2
		23825	713.5	1	24	21.83	23	1
				1	0	22.39	23	1
				12	6	21.90	23	2
				25	0	21.49	23	2

Cable loss: 0.52 dB

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LTE Band 17_10 MHz

BW (MHz)	Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Conducted power(dBm)	Target Power(dBm)	MPR Target(dB)
10	QPSK	23780	709	1	49	22.93	23	0
				1	0	23.14	23	0
				25	12	22.51	23	1
				50	0	22.48	23	1
		23790	710	1	49	22.90	23	0
				1	0	23.35	23	0
				25	12	22.62	23	1
				50	0	22.59	23	1
		23800	711	1	49	22.92	23	0
				1	0	22.66	23	0
				25	12	22.59	23	1
				50	0	22.43	23	1
10	16 QAM	23780	709	1	49	23.10	23	1
				1	0	22.75	23	1
				25	12	21.70	23	2
				50	0	21.80	23	2
		23790	710	1	49	22.65	23	1
				1	0	22.53	23	1
				25	12	21.81	23	2
				50	0	21.77	23	2
		23800	711	1	49	22.02	23	1
				1	0	22.25	23	1
				25	12	21.85	23	2
				50	0	21.62	23	2

Cable loss: 0.52 dB

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7. PEAK TO AVERAGE RATIO

7.1. Standard Applicable:

FCC 27.50(i)

Peak transmit power shall be measured over any interval of continuous transmission using instrumentation calibrated in terms of rms-equivalent voltage.

The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

To measure transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission shall not exceed 13 dB

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

Refer to section 2.4 in this report

7.3. Measurement Procedure:

Set resolution/measurement bandwidth \geq signal's occupied bandwidth;

Set the number of counts to a value that stabilizes the measured CCDF curve;

7.4. Measurement Result:

Refer to next page for plot.

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Figure 7-1: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Low

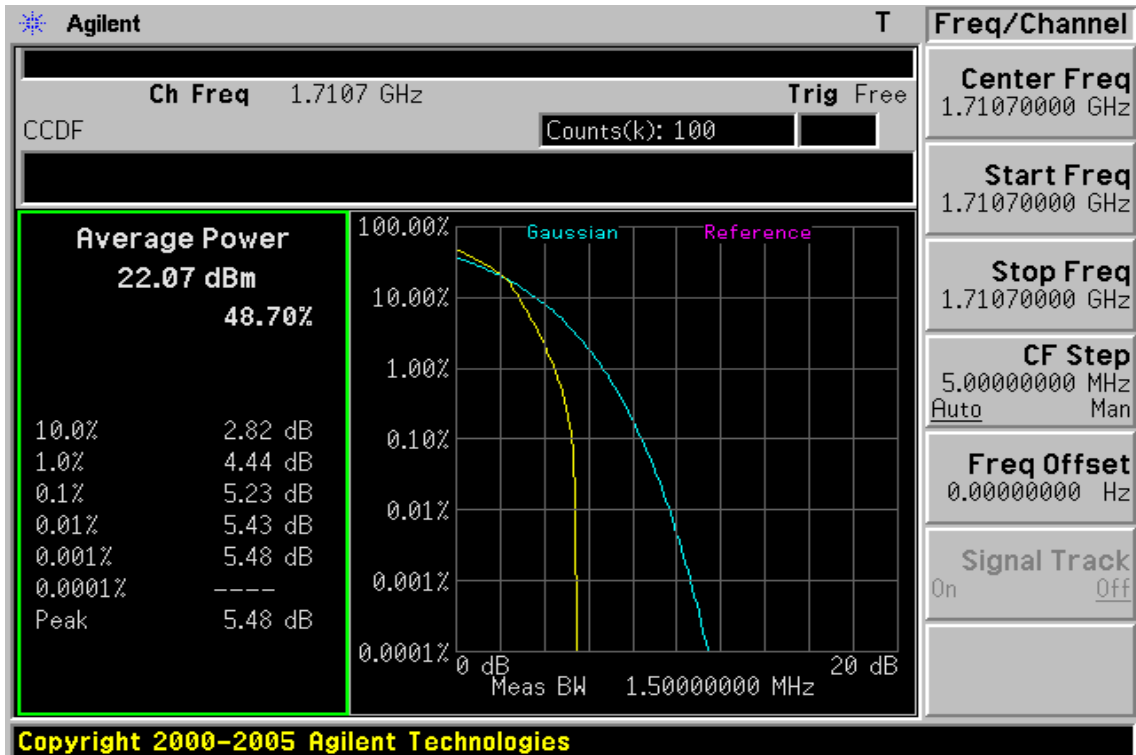
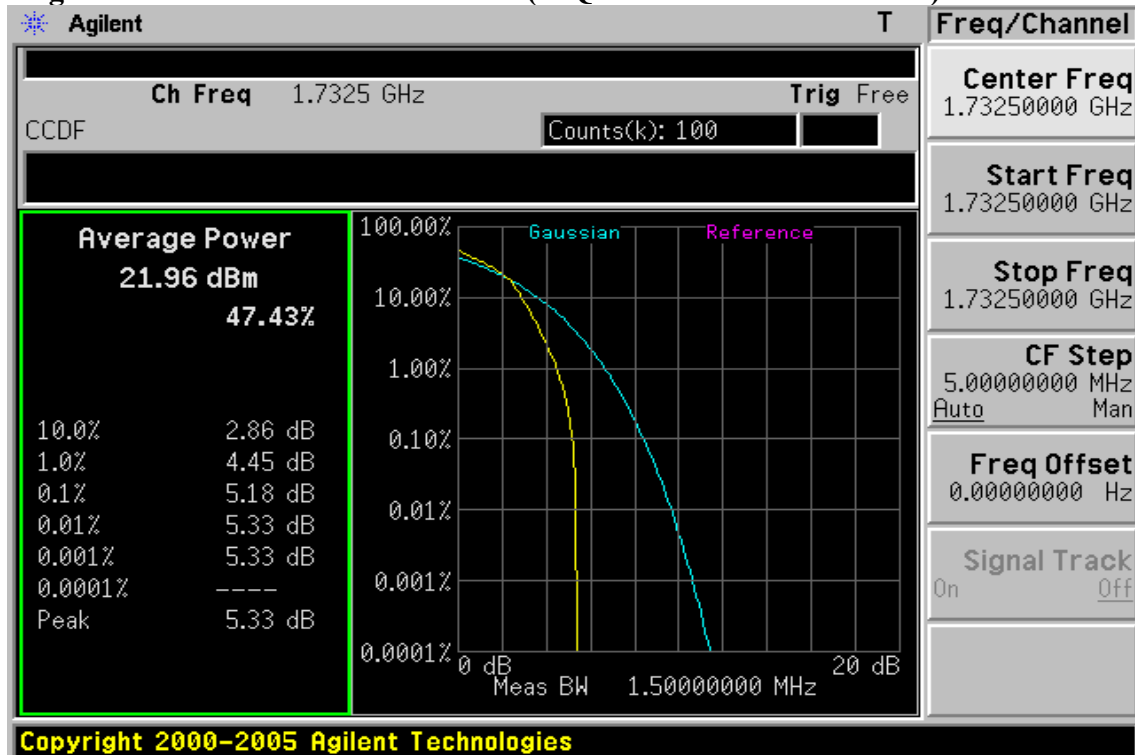


Figure 7-2: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel Mid



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Figure 7-3: 1.4MHz BW LTE-Band 4(16QAM Number: 6 Offset: 0) Channel High

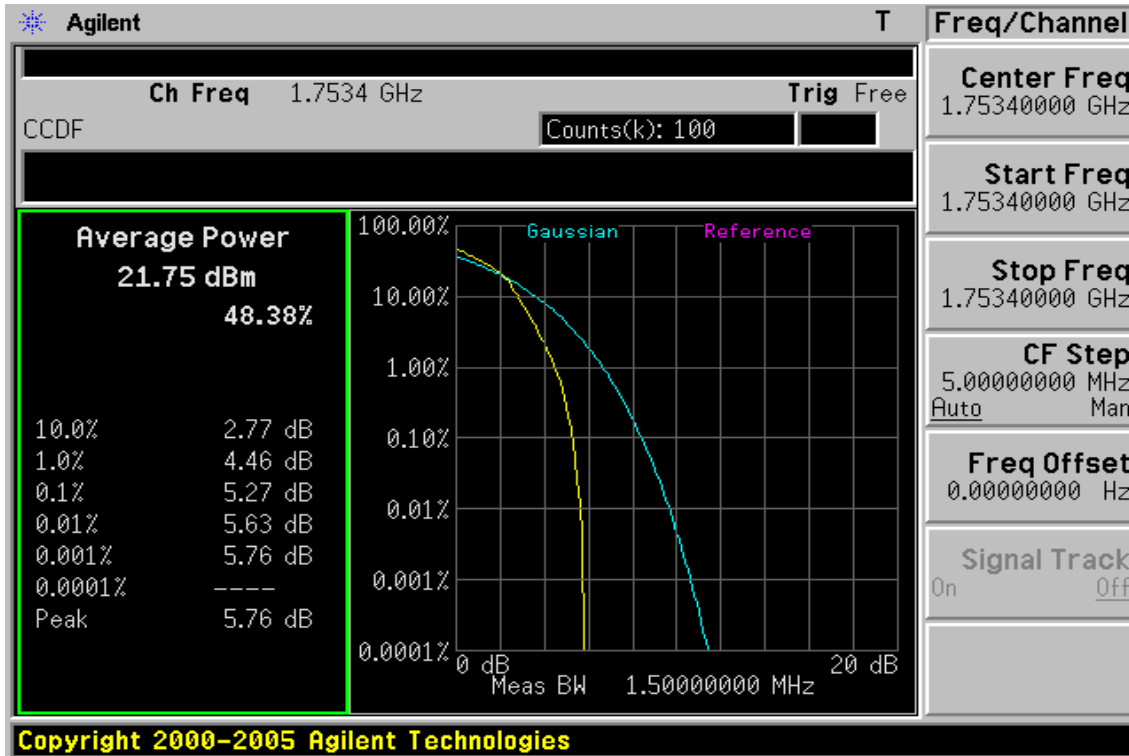
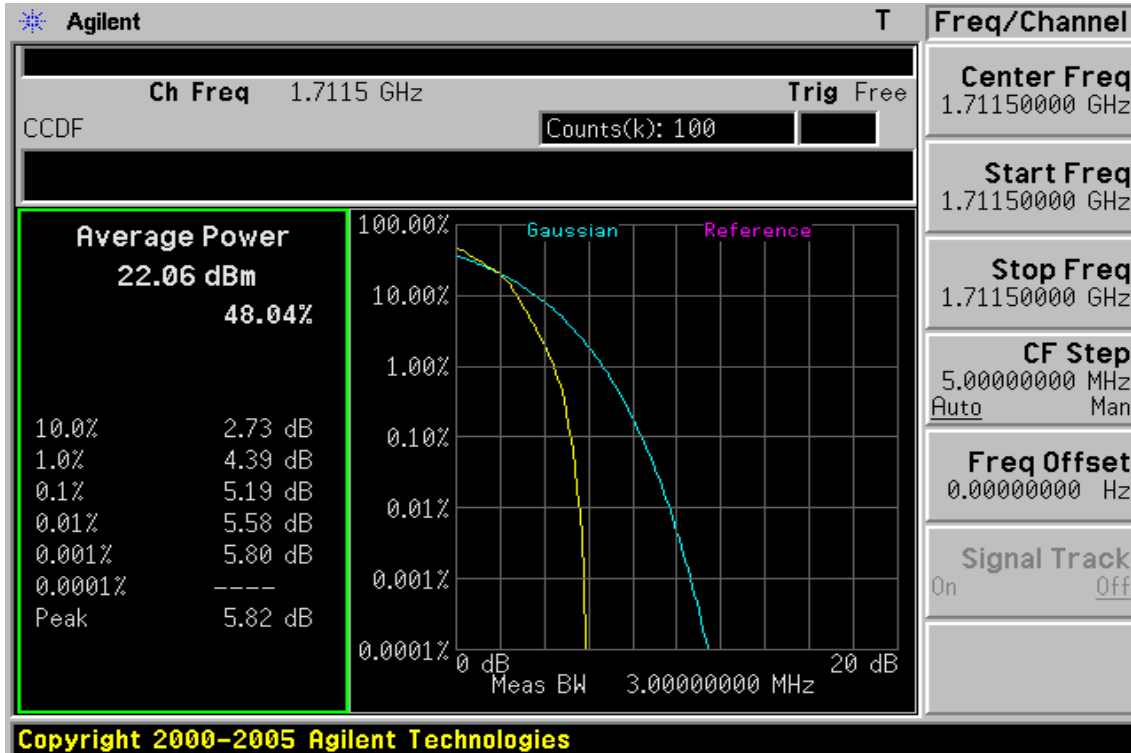


Figure 7-4: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Low



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Figure 7-5: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel Mid

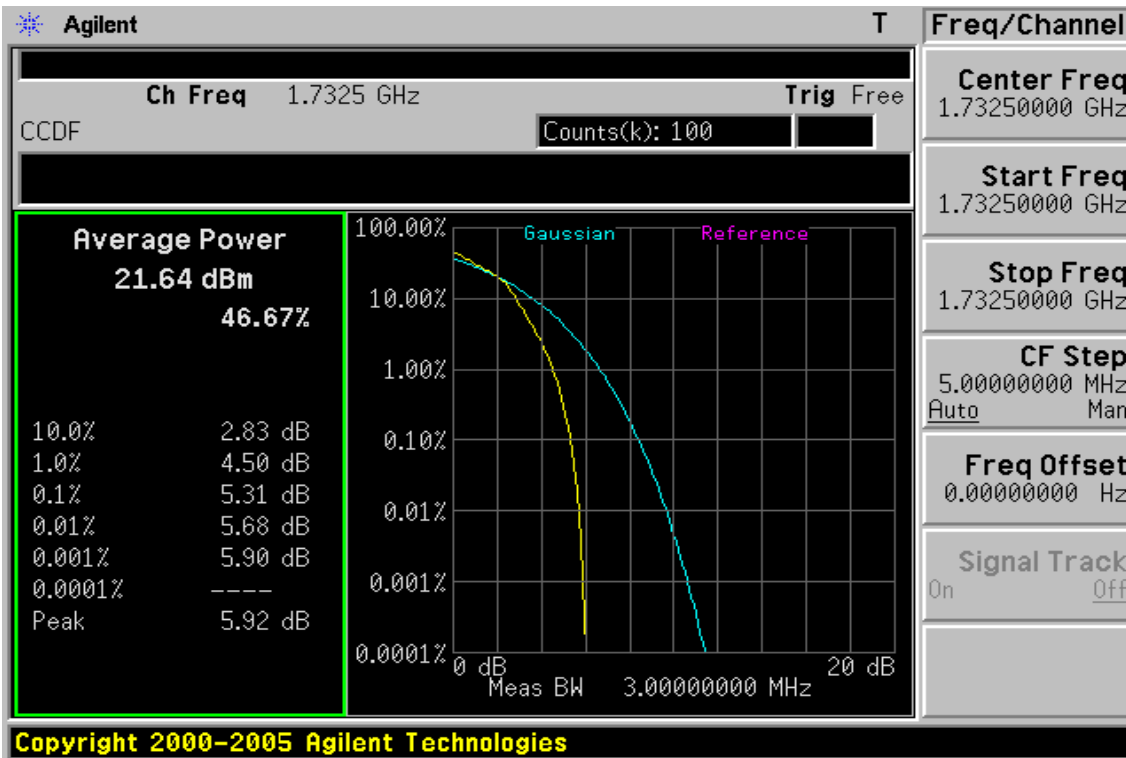
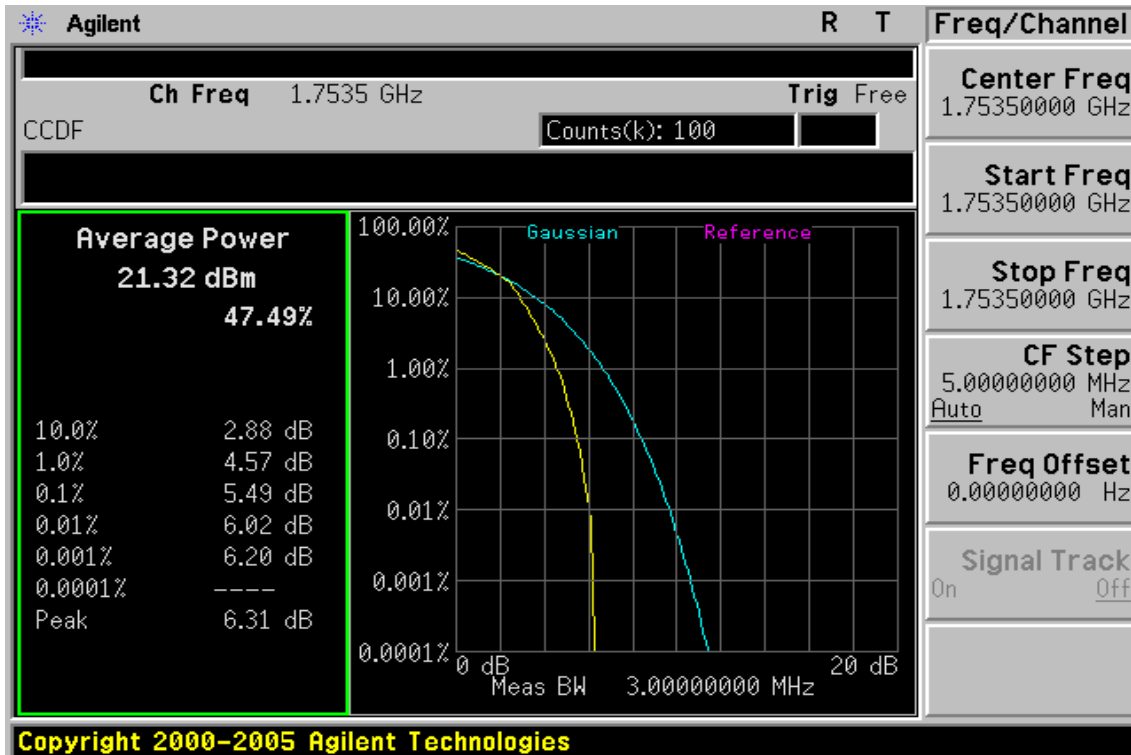


Figure 7-6: 3MHz BW LTE-Band 4(16QAM Number: 15 Offset: 0) Channel High



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Figure 7-7: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Low

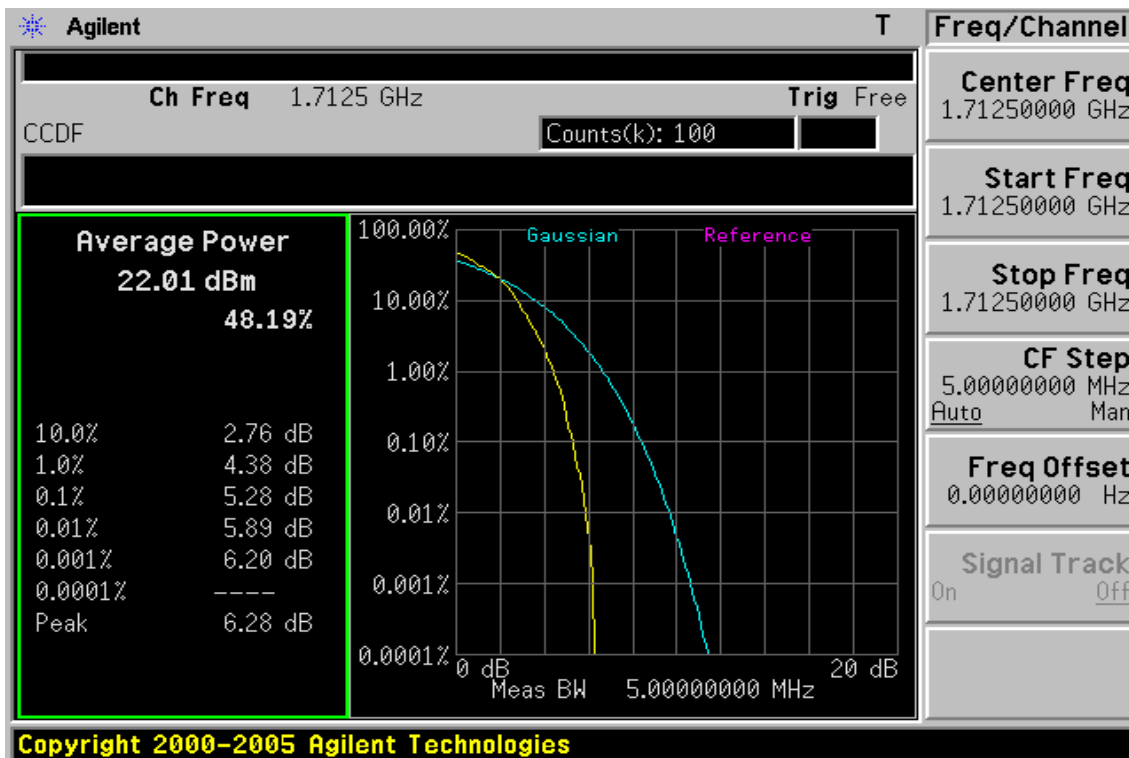
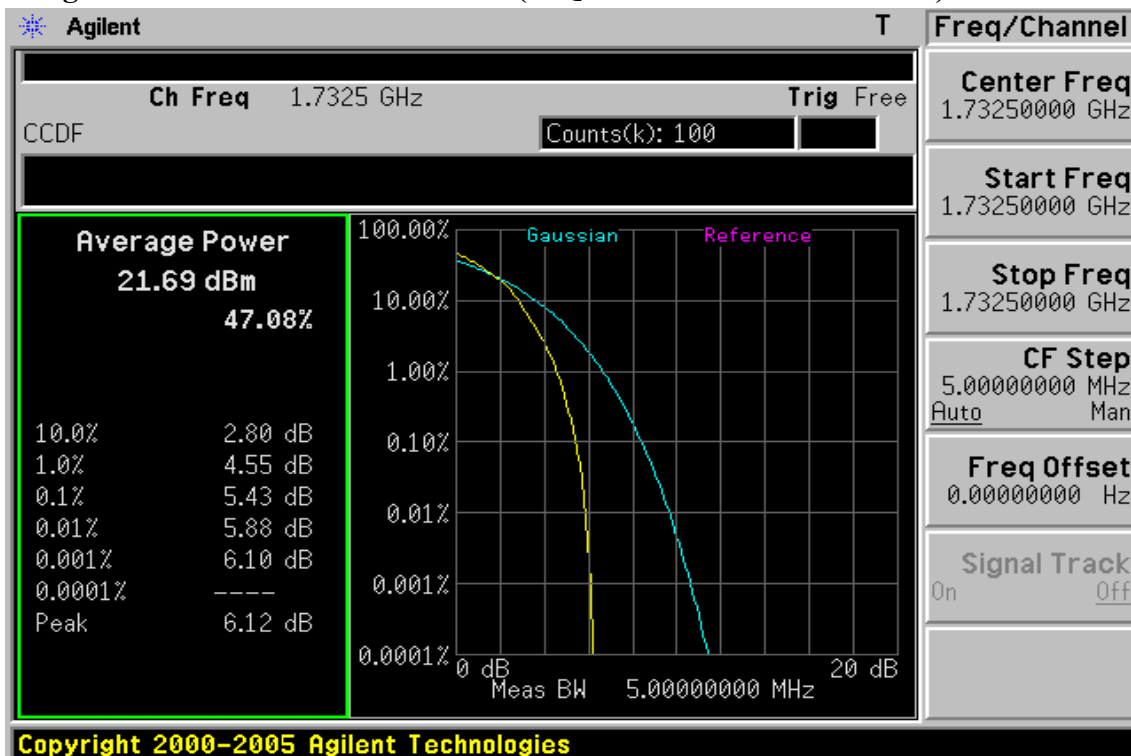


Figure 7-8: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 7-9: 5MHz BW LTE-Band 4(16QAM Number: 25 Offset: 0) Channel High

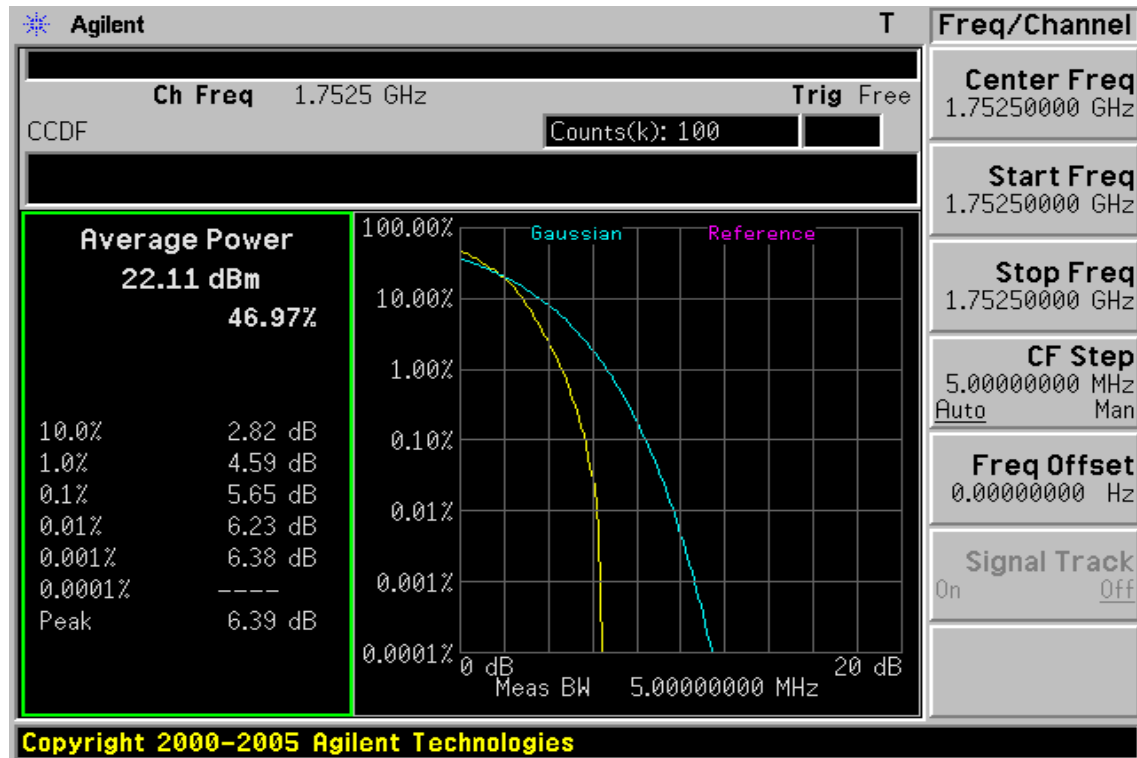
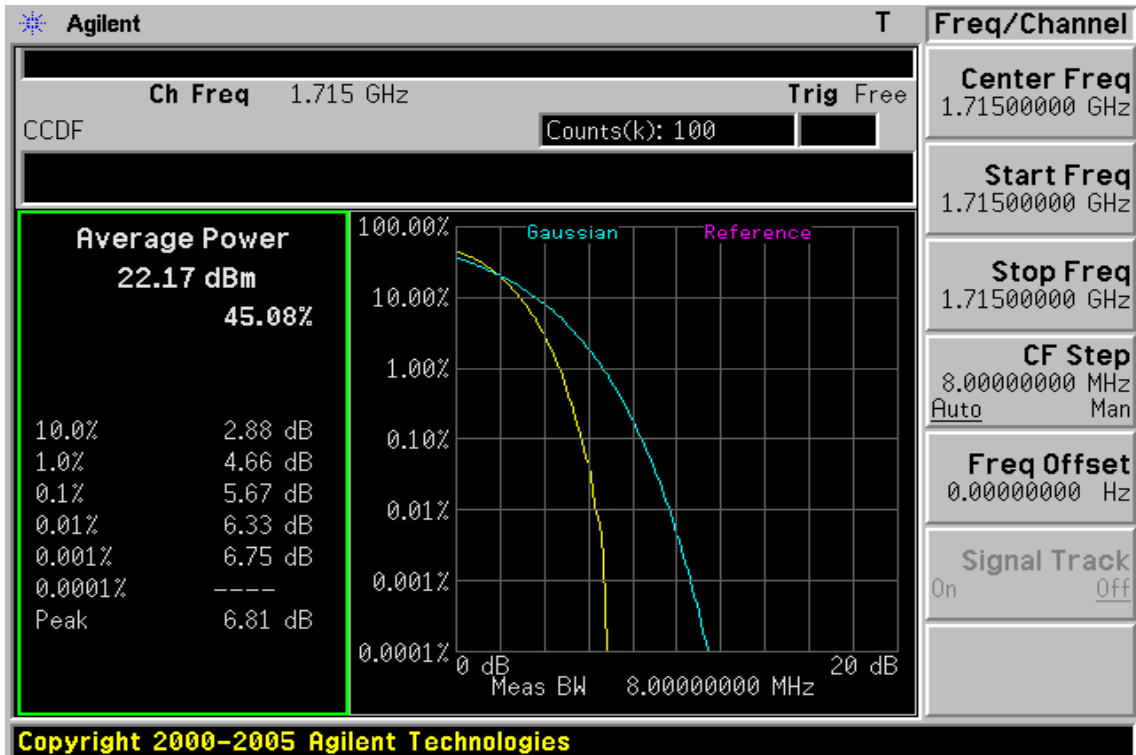


Figure 7-10: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Low



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Figure 7-11: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel Mid

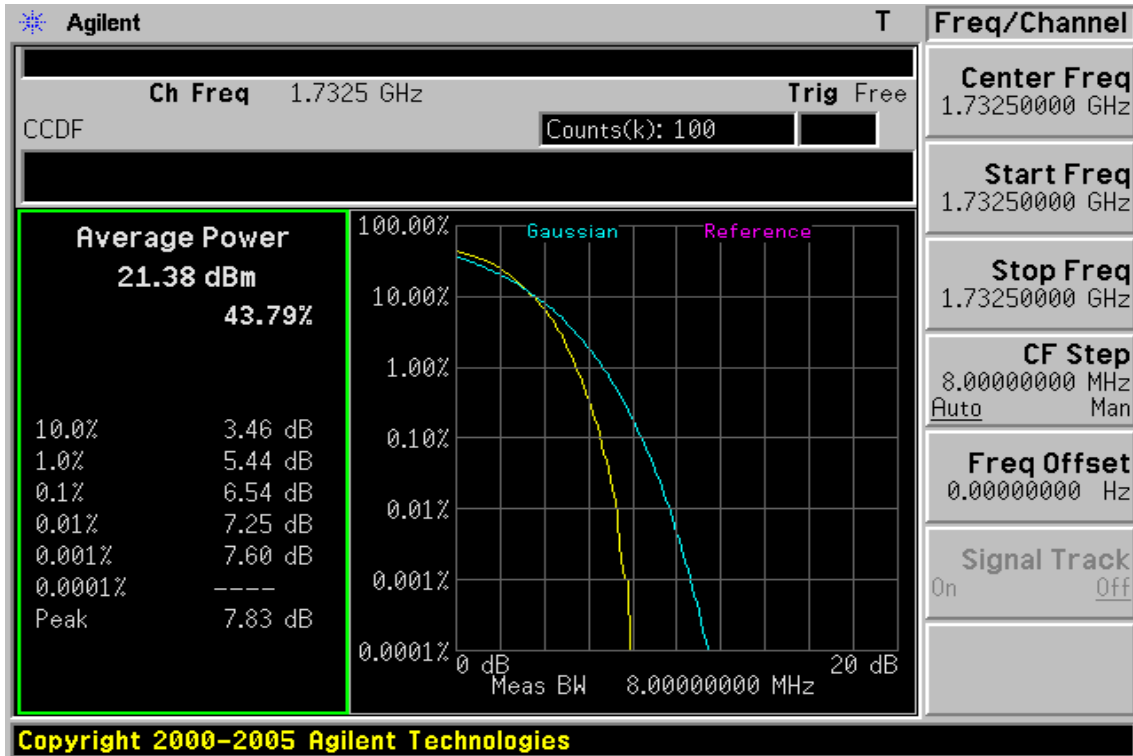
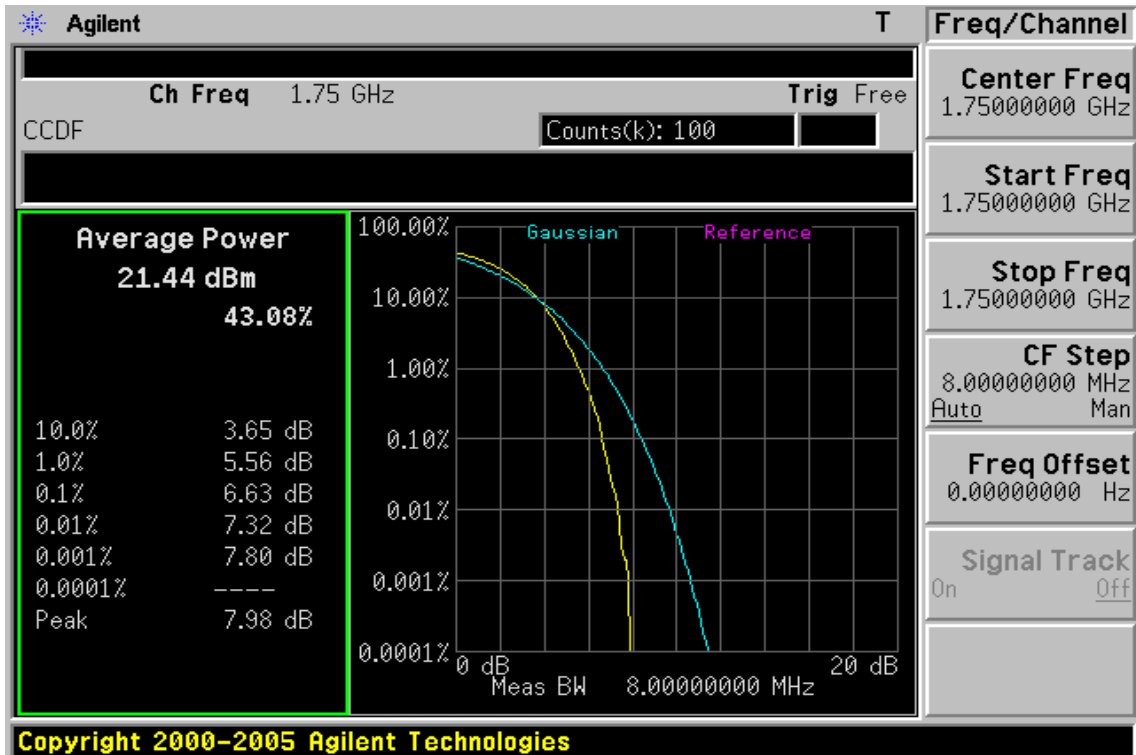


Figure 7-12: 10MHz BW LTE-Band 4(16QAM Number: 50 Offset: 0) Channel High



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Figure 7-13: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Low

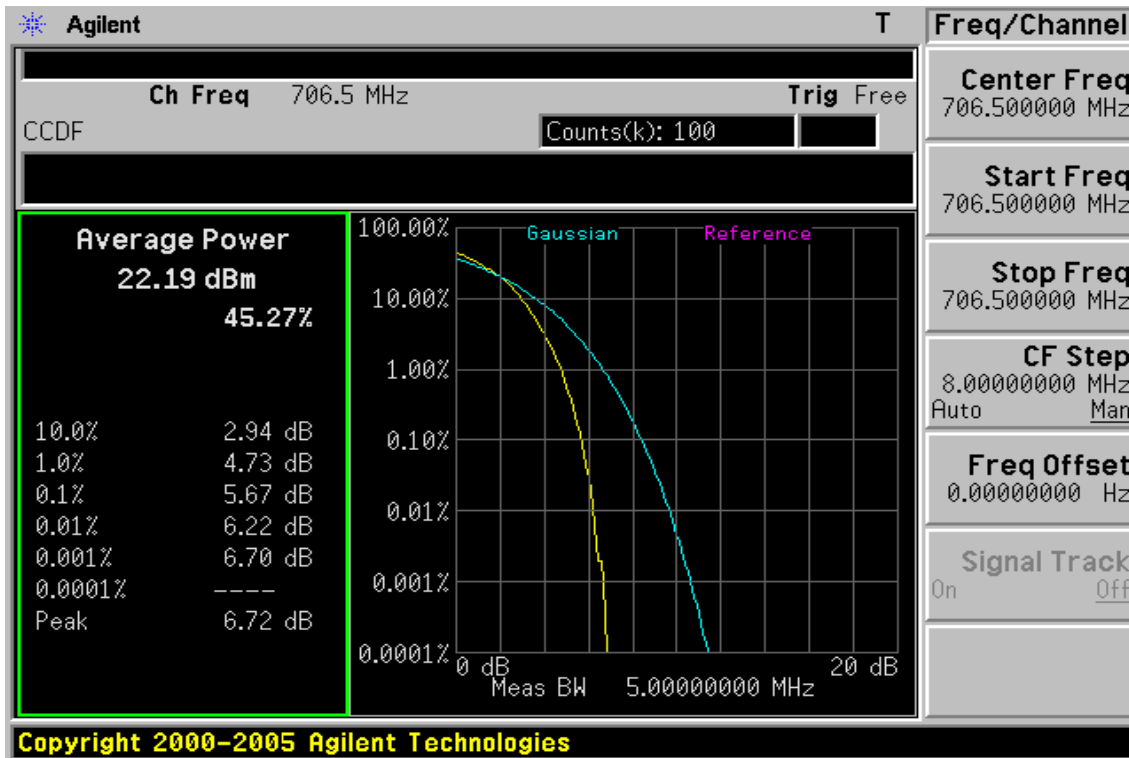
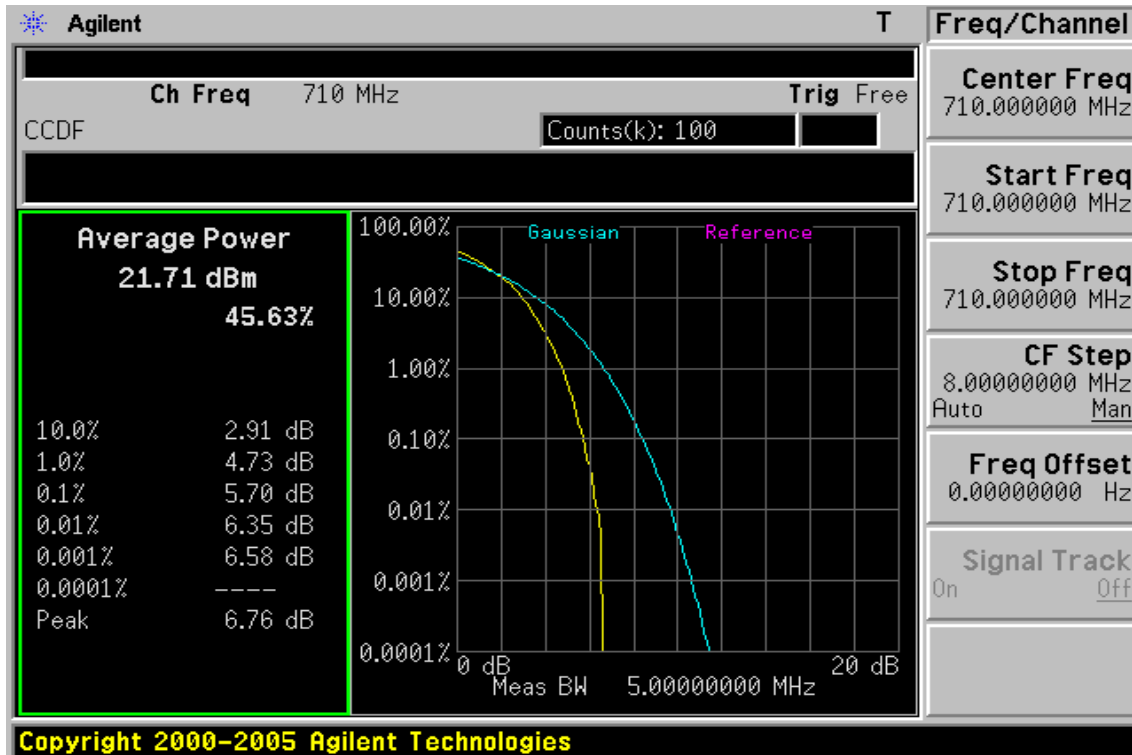


Figure 7-14: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel Mid



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Figure 7-15: 5MHz BW LTE-Band 17(16QAM Number: 25 Offset: 0) Channel High

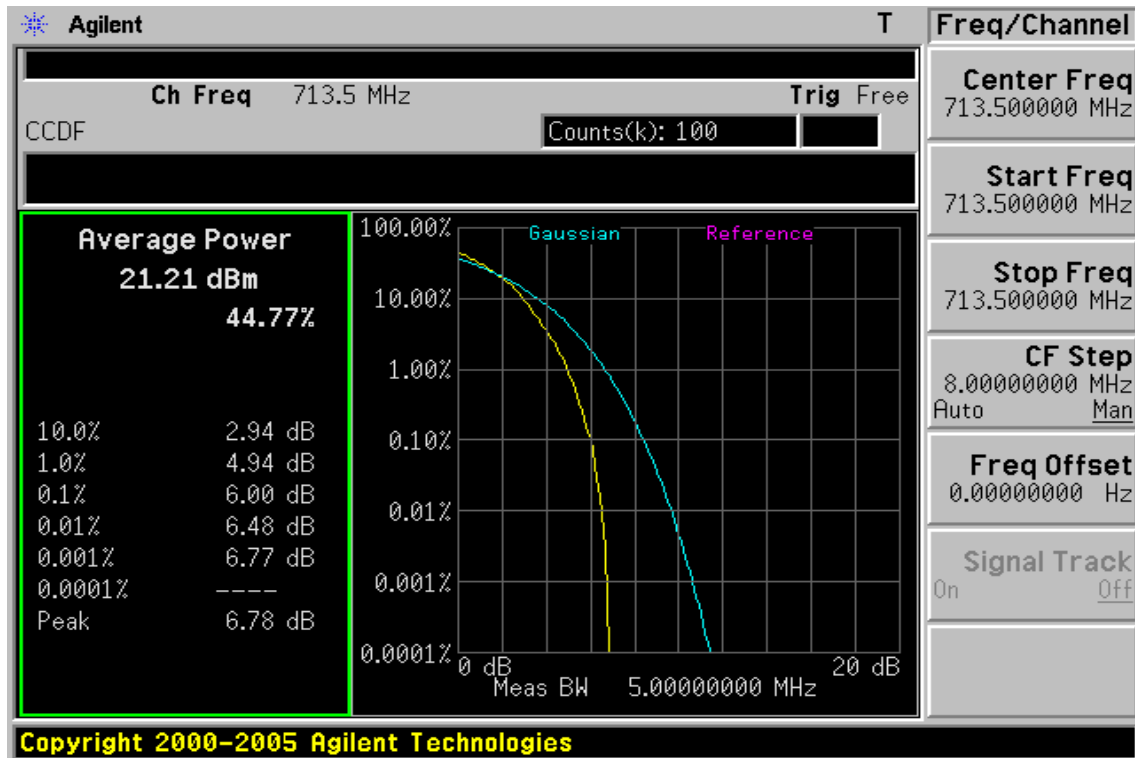
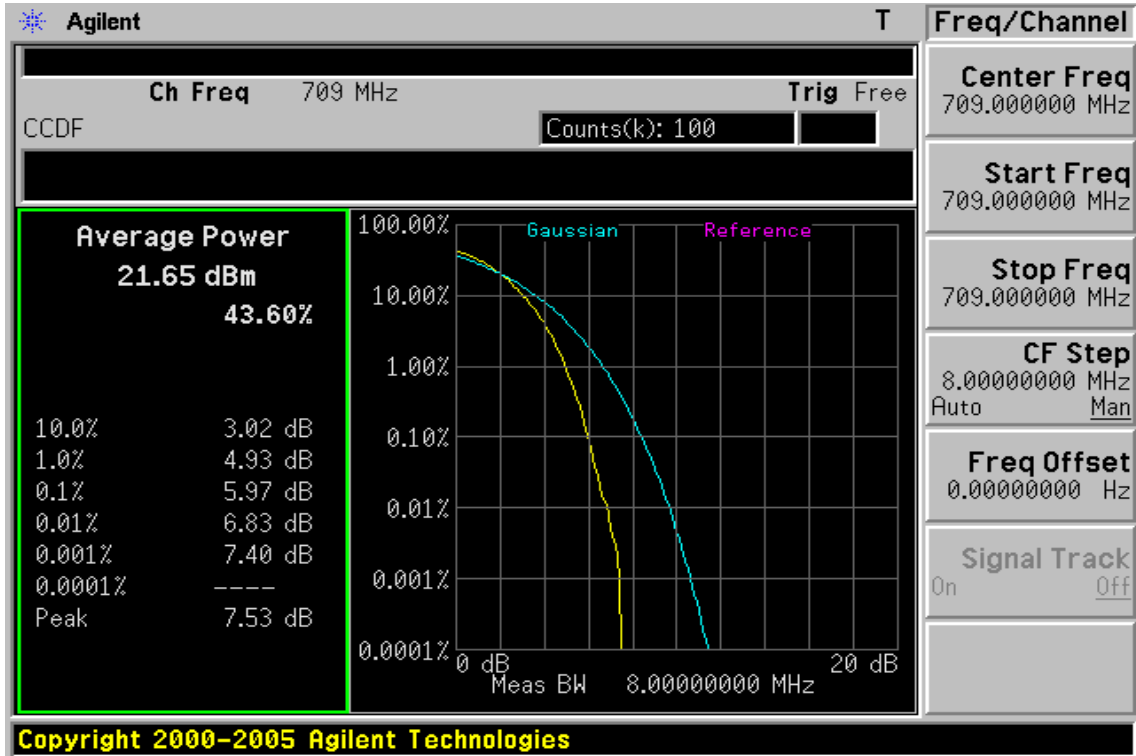


Figure 7-16: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel Low



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Figure 7-17: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel Mid

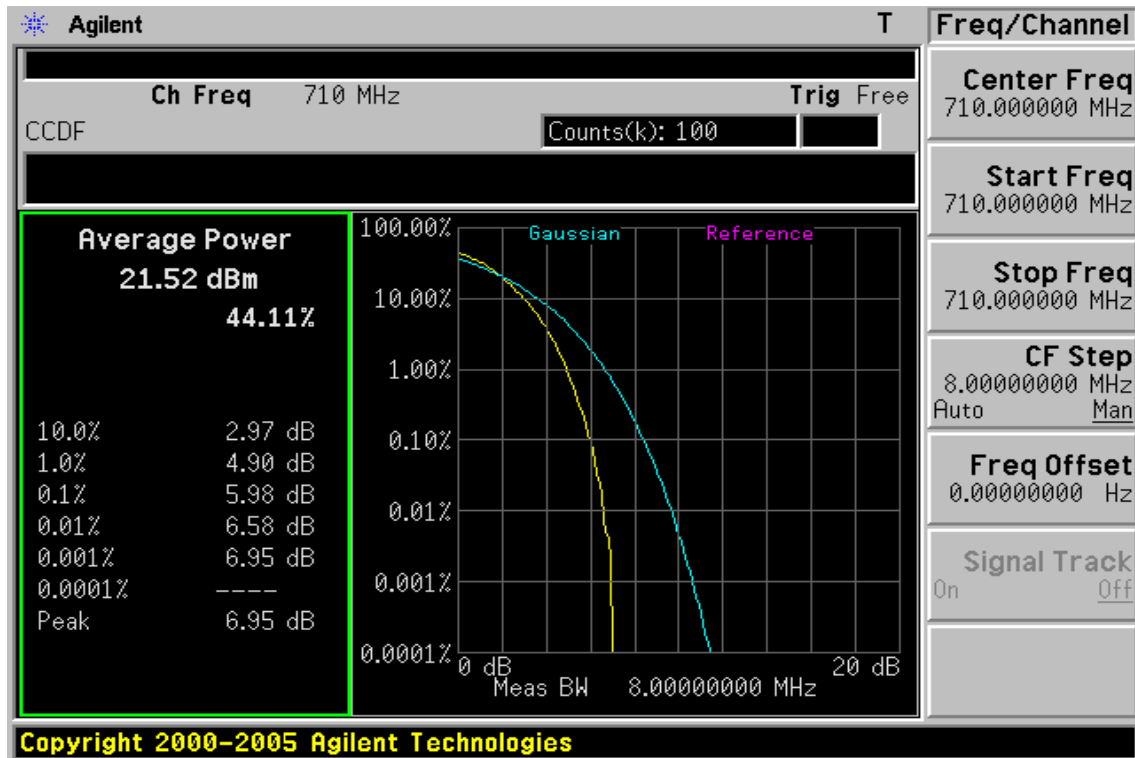
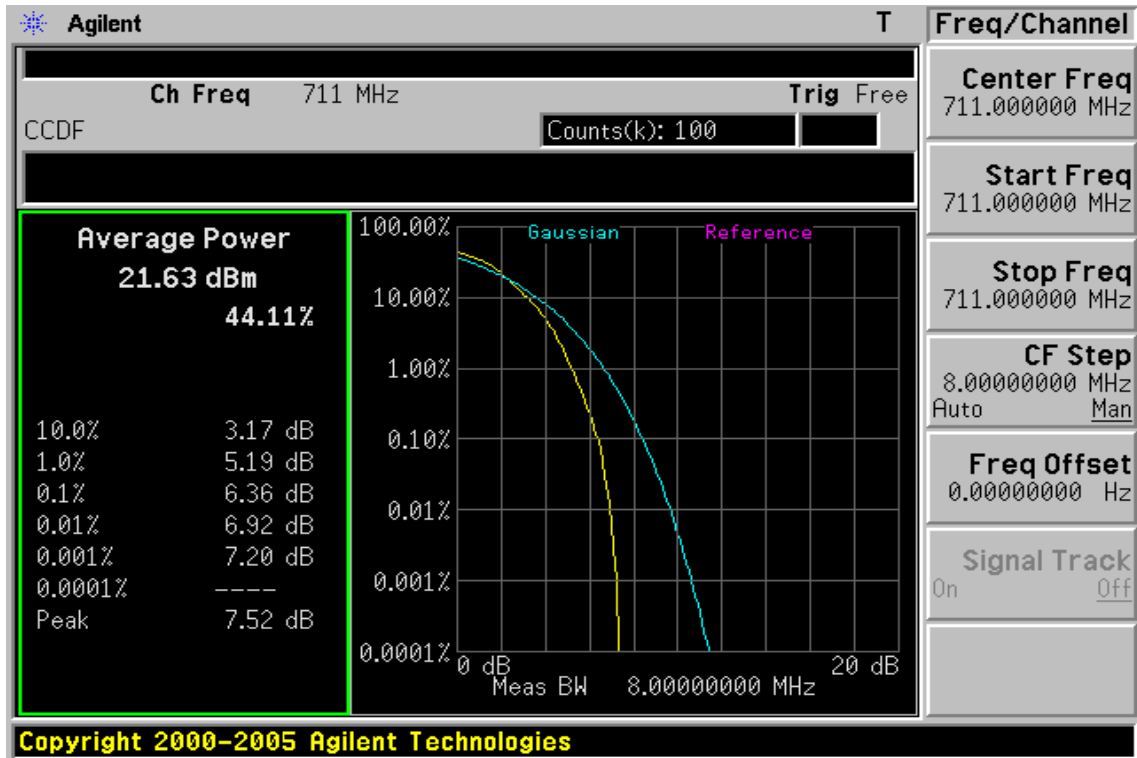


Figure 7-18: 10MHz BW LTE-Band 17(16QAM Number: 50 Offset: 0) Channel High



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8. ERP, EIRP MEASUREMENT

8.1. Standard Applicable:

According to FCC §2.1046

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

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

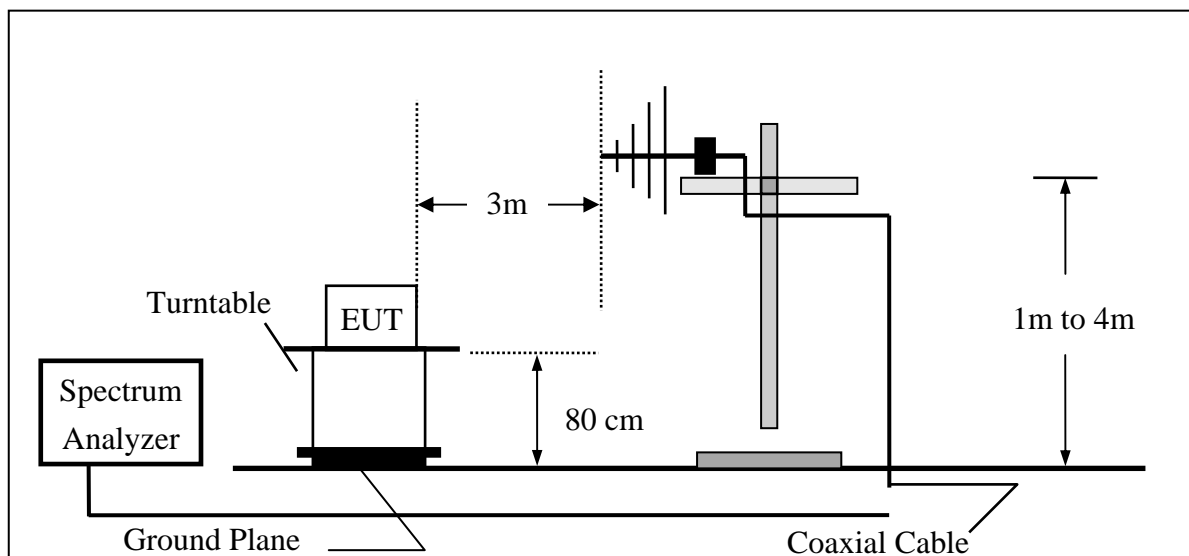
FCC 27.50(d)(2) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27.50(c)(10) Portable station are limited to 3W ERP.

FCC 27.50(b)(10) Mobile station are limited to 30W ERP.

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

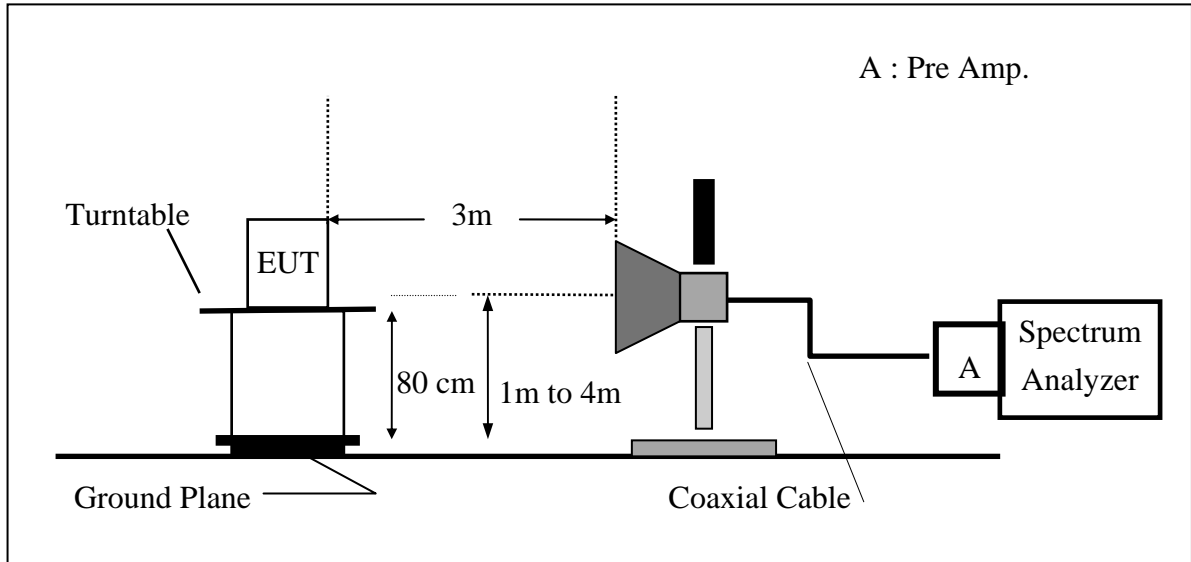
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



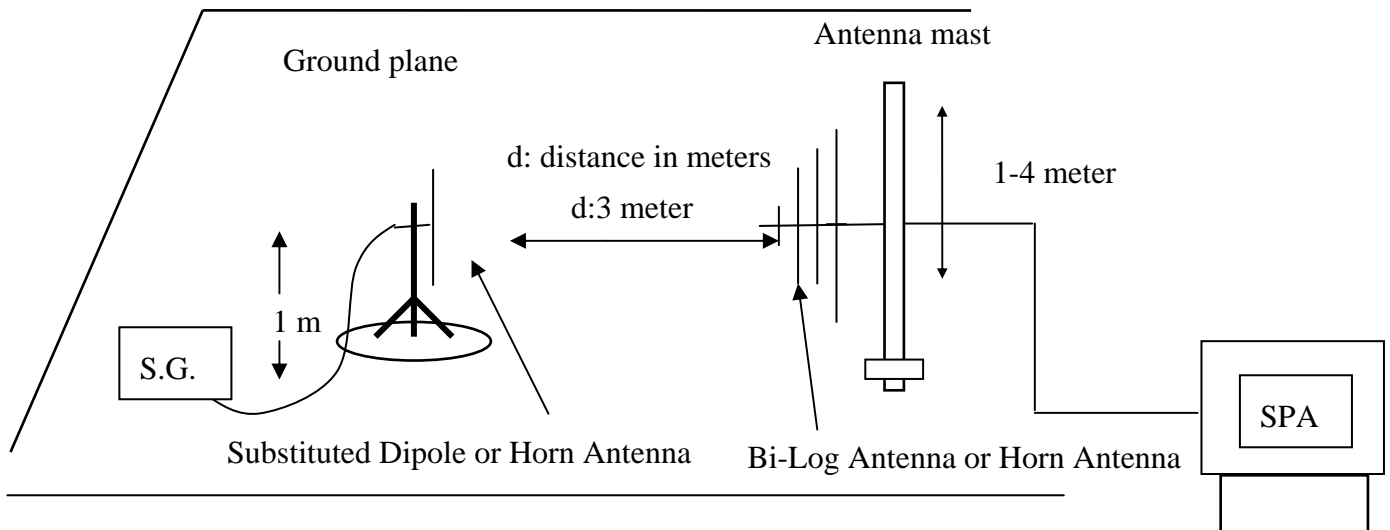
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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8.3. 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 779.5MHz, - 784.56MHz, 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 1851.25 –1908.75MHz 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:

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

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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8.5. Measurement Result:

WCDM A/HSUPA/HSDPA Band II

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz	V/H		dBm	dBd	dB	dBm	dBm
WCDMA Band II	1852.40	9262	V	24.73	4.17	-5.49	23.41	33.00
			H	25.83	4.51	-5.49	24.85	33.00
	1880.00	9400	V	24.62	4.14	-5.56	23.19	33.00
			H	24.82	4.44	-5.56	23.70	33.00
	1907.60	9538	V	26.32	4.10	-5.56	24.86	33.00
			H	20.43	4.37	-5.56	19.24	33.00
HSUPA Band II	1852.40	9262	V	23.88	4.17	-5.49	22.57	33.00
			H	23.82	4.51	-5.49	22.84	33.00
	1880.00	9400	V	22.67	4.14	-5.56	21.25	33.00
			H	23.13	4.44	-5.56	22.00	33.00
	1907.60	9538	V	26.83	4.10	-5.62	25.30	33.00
			H	22.88	4.37	-5.56	21.69	33.00
HSDPA Band II	1852.40	9262	V	23.87	4.17	-5.49	22.55	33.00
			H	24.15	4.51	-5.49	23.17	33.00
	1880.00	9400	V	23.41	4.14	-5.56	21.98	33.00
			H	23.54	4.44	-5.56	22.42	33.00
	1907.60	9538	V	26.82	4.10	-5.62	25.29	33.00
			H	22.88	4.37	-5.56	21.69	33.00

Remark :

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

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WCDMA/HSUPA/HSDPA Band IV

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz	V/H		dBm	dBd	dB	dBm	dBm
WCDMA Band IV	1712.40	1312	V	24.69	4.40	-5.40	23.69	33.00
			H	21.96	4.79	-5.40	21.35	33.00
	1732.60	1413	V	23.57	4.78	-5.42	22.92	33.00
			H	26.34	4.35	-5.42	25.26	33.00
	1752.60	1513	V	23.10	4.31	-5.44	21.97	33.00
			H	22.01	4.77	-5.44	21.34	33.00
HSUPA Band IV	1712.40	1312	V	24.76	4.40	-5.40	23.75	33.00
			H	22.21	4.79	-5.40	21.60	33.00
	1732.60	1413	V	26.26	4.35	-5.42	25.19	33.00
			H	23.95	4.78	-5.42	23.31	33.00
	1752.60	1513	V	23.19	4.31	-5.44	22.06	33.00
			H	21.95	4.77	-5.44	21.27	33.00
HSDPA Band IV	1712.40	1312	V	24.88	4.40	-5.40	23.88	33.00
			H	22.25	4.79	-5.40	21.64	33.00
	1732.60	1413	V	26.08	4.35	-5.42	25.01	33.00
			H	23.98	4.78	-5.42	23.33	33.00
	1752.60	1513	V	23.24	4.31	-5.44	22.12	33.00
			H	21.88	4.77	-5.44	21.20	33.00

Remark :

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

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WCDMA/HSUPA/HSDPA Band V

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP Limit	
	MHz	V/H		dBm	dBd	dB	dBm	dBm
WCDMA Band V	826.40	4132	V	19.34	3.97	-4.22	19.09	38.45
			H	19.20	3.97	-4.22	18.94	38.45
	836.60	4183	V	14.44	3.99	-4.24	14.20	38.45
			H	19.24	3.99	-4.24	18.99	38.45
	846.60	4233	V	13.01	4.02	-4.24	12.79	38.45
			H	19.93	4.02	-4.24	19.71	38.45
HSUPA Band V	826.40	4132	V	19.77	3.97	-4.22	19.52	38.45
			H	19.57	3.97	-4.22	19.32	38.45
	836.60	4183	V	15.96	3.99	-4.24	15.72	38.45
			H	19.54	3.99	-4.24	19.30	38.45
	846.60	4233	V	17.42	4.02	-4.24	17.21	38.45
			H	20.50	4.02	-4.24	20.28	38.45
HSDPA Band V	826.40	4132	V	19.78	3.97	-4.22	19.53	38.45
			H	19.55	3.97	-4.22	19.30	38.45
	836.60	4183	V	16.16	3.99	-4.24	15.92	38.45
			H	19.36	3.99	-4.24	19.12	38.45
	846.60	4233	V	17.13	4.02	-4.24	16.92	38.45
			H	20.48	4.02	-4.24	20.27	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 2MHz , VBW= 6MHz

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LTE 1.4MHz/QPSK Band 4

EUT				Measurement					
Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
			V/H		dBm	dBi	dB	dBm	dBm
19957	1710.7	1	5	V	26.15	4.40	-5.40	25.16	33.00
				H	18.12	4.79	-5.40	17.51	33.00
		1	0	V	26.11	4.40	-5.40	25.11	33.00
				H	18.22	4.79	-5.40	17.61	33.00
		3	2	V	21.40	4.40	-5.40	20.40	33.00
				H	15.40	4.79	-5.40	14.79	33.00
		6	0	V	21.36	4.40	-5.40	20.36	33.00
				H	15.37	4.79	-5.40	14.77	33.00
20175	1732.5	1	5	V	26.13	4.35	-5.42	25.05	33.00
				H	23.81	4.78	-5.42	23.17	33.00
		1	0	V	25.96	4.35	-5.42	24.89	33.00
				H	24.07	4.78	-5.42	23.42	33.00
		3	2	V	23.28	4.35	-5.42	22.21	33.00
				H	16.77	4.78	-5.42	16.13	33.00
		6	0	V	24.04	4.35	-5.42	22.97	33.00
				H	17.60	4.78	-5.42	16.96	33.00
20393	1754.3	1	5	V	24.74	4.31	-5.44	23.62	33.00
				H	22.29	4.76	-5.44	21.62	33.00
		1	0	V	25.38	4.31	-5.44	24.25	33.00
				H	22.07	4.76	-5.44	21.39	33.00
		3	2	V	20.06	4.31	-5.44	18.93	33.00
				H	14.13	4.76	-5.44	13.45	33.00
		6	0	V	20.04	4.31	-5.44	18.91	33.00
				H	14.09	4.76	-5.44	13.41	33.00

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 1.4MHz , VBW= 4.2MHz

Detector = Peak

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LTE 1.4MHz/16QAM Band 4

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
			V/H		dBm	dBi	dB	dBm	dBm
19957	1710.7	1	5	V	25.83	4.40	-5.40	24.83	33.00
				H	20.21	4.79	-5.40	19.60	33.00
		1	0	V	26.34	4.40	-5.40	25.34	33.00
				H	20.11	4.79	-5.40	19.50	33.00
		3	2	V	22.40	4.40	-5.40	21.40	33.00
				H	18.78	4.79	-5.40	18.17	33.00
		6	0	V	24.38	4.40	-5.40	23.38	33.00
				H	18.63	4.79	-5.40	18.02	33.00
20175	1732.5	1	5	V	25.59	4.35	-5.42	24.52	33.00
				H	21.06	4.78	-5.42	20.42	33.00
		1	0	V	25.40	4.35	-5.42	24.33	33.00
				H	21.16	4.78	-5.42	20.51	33.00
		3	2	V	21.49	4.31	-5.44	20.36	33.00
				H	15.6	4.76	-5.44	14.92	33.00
		6	0	V	23.02	4.31	-5.44	21.89	33.00
				H	17.23	4.76	-5.44	16.55	33.00
20393	1754.3	1	5	V	25.71	4.31	-5.44	24.58	33.00
				H	18.50	4.76	-5.44	17.82	33.00
		1	0	V	25.84	4.31	-5.44	24.71	33.00
				H	18.69	4.76	-5.44	18.01	33.00
		3	2	V	25.33	4.35	-5.42	24.26	33.00
				H	19.43	4.78	-5.42	18.79	33.00
		6	0	V	25.38	4.35	-5.42	24.31	33.00
				H	19.36	4.78	-5.42	18.72	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 1.4MHz , VBW= 4.2MHz
Detector = Peak

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LTE 3MHz/QPSK Band 4

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
			V/H		dBm	dBi	dB	dBm	dBm
19965	1711.5	1	14	V	26.06	4.40	-5.40	25.05	33.00
				H	19.18	4.79	-5.40	18.57	33.00
		1	0	V	25.43	4.40	-5.40	24.43	33.00
				H	19.02	4.79	-5.40	18.41	33.00
		8	4	V	22.11	4.40	-5.40	21.11	33.00
				H	16.20	4.79	-5.40	15.59	33.00
		15	0	V	21.62	4.40	-5.40	20.62	33.00
				H	15.77	4.79	-5.40	15.16	33.00
20175	1732.5	1	14	V	26.25	4.35	-5.42	25.17	33.00
				H	21.47	4.78	-5.42	20.82	33.00
		1	0	V	25.47	4.36	-5.42	24.41	33.00
				H	21.82	4.78	-5.42	21.18	33.00
		8	4	V	21.16	4.35	-5.42	20.09	33.00
				H	17.82	4.78	-5.42	17.18	33.00
		15	0	V	23.47	4.35	-5.42	22.40	33.00
				H	17.68	4.78	-5.42	17.04	33.00
20385	1753.5	1	14	V	25.40	4.31	-5.44	24.27	33.00
				H	18.41	4.76	-5.44	17.74	33.00
		1	0	V	24.76	4.31	-5.44	23.63	33.00
				H	18.91	4.77	-5.44	18.24	33.00
		8	4	V	20.35	4.31	-5.44	19.22	33.00
				H	15.49	4.76	-5.44	14.82	33.00
		15	0	V	17.50	4.31	-5.44	16.38	33.00
				H	14.97	4.76	-5.44	14.29	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 3MHz , VBW= 8MHz

Detector = Peak

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LTE 3MHz/16QAM Band 4

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
			V/H		dBm	dBi	dB	dBm	dBm
19965	1711.5	1	14	V	26.44	4.31	-5.44	25.31	33.00
				H	24.81	4.76	-5.44	24.13	33.00
		1	0	V	25.42	4.31	-5.44	24.29	33.00
				H	24.57	4.77	-5.44	23.91	33.00
		8	4	V	23.42	4.40	-5.40	22.42	33.00
				H	17.62	4.79	-5.40	17.02	33.00
		15	0	V	23.61	4.40	-5.40	22.61	33.00
				H	17.86	4.79	-5.40	17.25	33.00
20175	1732.5	1	14	V	25.62	4.35	-5.42	24.55	33.00
				H	21.90	4.78	-5.42	21.25	33.00
		1	0	V	25.83	4.36	-5.42	24.77	33.00
				H	22.05	4.78	-5.42	21.41	33.00
		8	4	V	24.72	4.35	-5.42	23.65	33.00
				H	18.83	4.78	-5.42	18.18	33.00
		15	0	V	25.45	4.35	-5.42	24.38	33.00
				H	24.71	4.78	-5.42	24.06	33.00
20385	1753.5	1	14	V	25.99	4.40	-5.40	24.99	33.00
				H	18.44	4.79	-5.40	17.83	33.00
		1	0	V	26.30	4.40	-5.40	25.30	33.00
				H	19.50	4.79	-5.40	18.89	33.00
		8	4	V	21.85	4.31	-5.44	20.73	33.00
				H	16.95	4.76	-5.44	16.27	33.00
		15	0	V	22.24	4.31	-5.44	21.12	33.00
				H	17.15	4.76	-5.44	16.47	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 3MHz , VBW= 8MHz

Detector = Peak

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LTE 5MHz/QPSK Band 4

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
			V/H		dBm	dBi	dB	dBm	dBm
19975	1712.5	1	24	V	23.98	4.39	-5.40	22.97	33.00
				H	21.08	4.79	-5.40	20.47	33.00
		1	0	V	24.68	4.40	-5.40	23.69	33.00
				H	19.88	4.79	-5.40	19.27	33.00
		12	6	V	21.46	4.40	-5.40	20.45	33.00
				H	15.71	4.79	-5.40	15.10	33.00
		25	0	V	25.49	4.40	-5.40	24.49	33.00
				H	18.08	4.79	-5.40	17.47	33.00
20175	1732.5	1	24	V	21.36	4.35	-5.42	20.28	33.00
				H	19.19	4.78	-5.42	18.54	33.00
		1	0	V	20.59	4.36	-5.42	19.52	33.00
				H	18.98	4.78	-5.42	18.34	33.00
		12	6	V	24.12	4.35	-5.42	23.05	33.00
				H	18.24	4.78	-5.42	17.60	33.00
		25	0	V	24.54	4.35	-5.42	23.47	33.00
				H	18.66	4.78	-5.42	18.02	33.00
20375	1752.5	1	24	V	25.74	4.31	-5.44	24.61	33.00
				H	18.14	4.76	-5.44	17.47	33.00
		1	0	V	25.92	4.32	-5.44	24.80	33.00
				H	18.85	4.77	-5.44	18.18	33.00
		12	6	V	19.90	4.31	-5.44	18.77	33.00
				H	14.88	4.76	-5.44	14.21	33.00
		25	0	V	25.97	4.31	-5.44	24.84	33.00
				H	23.03	4.76	-5.44	22.35	33.00

Remark :

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

Detector = Peak

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LTE 5MHz/16QAM Band 4

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
			V/H		dBm	dBi	dB	dBm	dBm
19975	1712.5	1	24	V	22.69	4.39	-5.40	21.68	33.00
				H	21.13	4.79	-5.40	20.52	33.00
		1	0	V	23.32	4.40	-5.40	22.32	33.00
				H	20.83	4.79	-5.40	20.22	33.00
		12	6	V	23.38	4.40	-5.40	22.38	33.00
				H	17.51	4.79	-5.40	16.91	33.00
		25	0	V	24.32	4.40	-5.40	23.32	33.00
				H	20.01	4.79	-5.40	19.40	33.00
20175	1732.5	1	24	V	23.14	4.35	-5.42	22.07	33.00
				H	20.93	4.78	-5.42	20.29	33.00
		1	0	V	23.08	4.36	-5.42	22.02	33.00
				H	20.68	4.78	-5.42	20.04	33.00
		12	6	V	24.58	4.35	-5.42	23.51	33.00
				H	18.62	4.78	-5.42	17.97	33.00
		25	0	V	25.42	4.35	-5.42	24.35	33.00
				H	19.35	4.78	-5.42	18.71	33.00
20375	1752.5	1	24	V	25.82	4.31	-5.44	24.69	33.00
				H	19.51	4.76	-5.44	18.83	33.00
		1	0	V	25.70	4.31	-5.44	24.58	33.00
				H	20.49	4.77	-5.44	19.82	33.00
		12	6	V	22.75	4.31	-5.44	21.62	33.00
				H	17.70	4.77	-5.44	17.03	33.00
		25	0	V	22.69	4.31	-5.44	21.56	33.00
				H	17.47	4.76	-5.44	16.80	33.00

Remark :

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

Detector = Peak

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LTE 10MHz/QPSK Band 4

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
			V/H		dBm	dBi	dB	dBm	dBm
20000	1715	1	49	V	22.25	4.38	-5.40	21.23	33.00
				H	20.57	4.79	-5.40	19.96	33.00
		1	0	V	23.54	4.40	-5.40	22.54	33.00
				H	19.22	4.79	-5.40	18.61	33.00
		25	12	V	23.61	4.39	-5.40	22.60	33.00
				H	17.81	4.79	-5.40	17.20	33.00
		50	0	V	22.48	4.39	-5.40	21.48	33.00
				H	22.46	4.79	-5.40	21.85	33.00
20175	1732.5	1	49	V	22.90	4.34	-5.42	21.82	33.00
				H	19.59	4.78	-5.42	18.94	33.00
		1	0	V	22.05	4.36	-5.40	21.01	33.00
				H	18.79	4.78	-5.40	18.17	33.00
		25	12	V	24.07	4.35	-5.42	23.00	33.00
				H	18.58	4.78	-5.42	17.94	33.00
		50	0	V	23.72	4.35	-5.42	22.65	33.00
				H	17.26	4.78	-5.42	16.61	33.00
20350	1750	1	49	V	25.13	4.31	-5.44	24.00	33.00
				H	17.86	4.76	-5.44	17.19	33.00
		1	0	V	24.38	4.32	-5.42	23.28	33.00
				H	19.34	4.77	-5.42	18.69	33.00
		25	12	V	22.15	4.31	-5.44	21.03	33.00
				H	16.46	4.77	-5.44	15.80	33.00
		50	0	V	20.85	4.31	-5.44	19.73	33.00
				H	22.17	4.77	-5.44	21.50	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 10MHz , VBW= 8MHz

Detector = Peak

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LTE 10MHz/16QAM Band 4

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
			V/H		dBm	dBi	dB	dBm	dBm
20000	1715	1	49	V	23.52	4.38	-5.40	22.51	33.00
				H	20.76	4.79	-5.40	20.15	33.00
		1	0	V	25.44	4.40	-5.40	24.44	33.00
				H	20.68	4.79	-5.40	20.08	33.00
		25	12	V	24.96	4.39	-5.40	23.95	33.00
				H	19.01	4.79	-5.40	18.40	33.00
		50	0	V	24.32	4.39	-5.40	23.31	33.00
				H	17.90	4.79	-5.40	17.29	33.00
20175	1732.5	1	49	V	23.49	4.35	-5.42	22.41	33.00
				H	20.94	4.78	-5.42	20.30	33.00
		1	0	V	22.81	4.36	-5.40	21.77	33.00
				H	19.92	4.78	-5.40	19.30	33.00
		25	12	V	25.46	4.35	-5.42	24.39	33.00
				H	19.52	4.78	-5.42	18.88	33.00
		50	0	V	24.91	4.35	-5.42	23.84	33.00
				H	24.69	4.78	-5.42	24.04	33.00
20350	1750	1	49	V	26.24	4.31	-5.44	25.12	33.00
				H	19.21	4.76	-5.44	18.53	33.00
		1	0	V	25.58	4.32	-5.42	24.48	33.00
				H	20.51	4.77	-5.42	19.86	33.00
		25	12	V	23.69	4.31	-5.44	22.56	33.00
				H	17.67	4.77	-5.44	17.01	33.00
		50	0	V	22.39	4.32	-5.44	21.27	33.00
				H	16.67	4.77	-5.44	16.01	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 10MHz , VBW= 8MHz

Detector = Peak

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LTE 5MHz/QPSK Band 17

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
			V/H		dBm	dBd	dB	dBm	dBm
23755	706.5	1	24	V	14.40	4.05	-3.98	14.46	38.45
				H	15.77	4.05	-3.98	15.84	38.45
		1	0	V	14.53	4.10	-4.07	14.56	38.45
				H	15.12	4.10	-4.07	15.16	38.45
		12	6	V	14.80	4.08	-3.98	14.89	38.45
				H	15.88	4.07	-3.98	15.97	38.45
		25	0	V	16.99	4.07	-3.98	17.08	38.45
				H	16.98	4.07	-3.98	17.06	38.45
23790	710	1	24	V	13.95	4.01	-3.98	13.97	38.45
				H	16.07	4.01	-3.98	16.09	38.45
		1	0	V	14.44	4.06	-3.98	14.52	38.45
				H	15.68	4.06	-3.98	15.76	38.45
		12	6	V	15.14	4.03	-3.98	15.19	38.45
				H	16.99	4.03	-3.98	17.03	38.45
		25	0	V	17.90	4.01	-3.98	17.93	38.45
				H	19.06	4.03	-3.98	19.11	38.45
23825	713.5	1	24	V	16.64	3.97	-3.98	16.63	38.45
				H	17.40	3.96	-3.98	17.38	38.45
		1	0	V	15.36	4.02	-3.98	15.39	38.45
				H	18.78	4.02	-3.98	18.81	38.45
		12	6	V	18.40	3.99	-3.98	18.40	38.45
				H	16.54	3.99	-3.98	16.54	38.45
		25	0	V	18.36	3.98	-3.98	18.35	38.45
				H	19.62	3.98	-3.98	19.62	38.45

Remark :

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

Detector = Peak

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LTE 5MHz/16 QAM Band 17

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
			V/H		dBm	dBd	dB	dBm	dBm
23755	706.5	1	24	V	17.30	4.05	-3.98	17.36	38.45
				H	18.40	4.05	-3.98	18.46	38.45
		1	0	V	17.22	4.10	-4.07	17.26	38.45
				H	18.48	4.11	-4.07	18.52	38.45
		12	6	V	18.64	4.08	-3.98	18.73	38.45
				H	20.37	4.08	-3.98	20.46	38.45
		25	0	V	17.69	4.07	-3.98	17.78	38.45
				H	18.84	4.07	-3.98	18.92	38.45
23790	710	1	24	V	17.09	4.00	-3.98	17.11	38.45
				H	18.43	4.01	-3.98	18.45	38.45
		1	0	V	16.90	4.06	-3.98	16.98	38.45
				H	17.80	4.06	-3.98	17.88	38.45
		12	6	V	17.32	4.03	-3.98	17.37	38.45
				H	19.11	4.03	-3.98	19.15	38.45
		25	0	V	17.18	4.03	-3.98	17.23	38.45
				H	19.66	4.03	-3.98	19.71	38.45
23825	713.5	1	24	V	17.12	3.97	-3.98	17.11	38.45
				H	18.08	3.96	-3.98	18.06	38.45
		1	0	V	17.33	4.02	-3.98	17.37	38.45
				H	18.57	4.02	-3.98	18.61	38.45
		12	6	V	17.96	3.98	-3.98	17.96	38.45
				H	19.08	3.99	-3.98	19.08	38.45
		25	0	V	18.28	3.98	-3.98	18.27	38.45
				H	19.35	3.98	-3.98	19.35	38.45

Remark :

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

Detector = Peak

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LTE 10MHz/QPSK Band 17

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
			V/H		dBm	dBd	dB	dBm	dBm
23780	709	1	49	V	15.22	3.99	-3.98	15.23	38.45
				H	16.84	3.99	-3.98	16.85	38.45
		1	0	V	16.35	4.10	-3.98	16.46	38.45
				H	17.13	4.10	-3.98	17.24	38.45
		25	12	V	16.70	4.04	-3.98	16.76	38.45
				H	19.27	4.02	-3.98	19.31	38.45
		50	0	V	16.51	4.04	-3.98	16.57	38.45
				H	17.98	4.03	-3.98	18.02	38.45
23790	710	1	49	V	15.65	3.98	-3.98	15.65	38.45
				H	17.05	3.98	-3.98	17.04	38.45
		1	0	V	15.87	4.09	-3.98	15.97	38.45
				H	17.06	4.09	-3.98	17.17	38.45
		25	12	V	17.14	4.02	-3.98	17.18	38.45
				H	18.89	4.03	-3.98	18.93	38.45
		50	0	V	18.38	4.02	-3.98	18.42	38.45
				H	18.98	4.02	-3.98	19.02	38.45
23800	711	1	49	V	15.42	3.97	-3.98	15.40	38.45
				H	16.72	3.97	-3.98	16.70	38.45
		1	0	V	15.92	4.07	-3.98	16.01	38.45
				H	17.18	4.07	-3.98	17.27	38.45
		25	12	V	16.40	4.01	-3.98	16.43	38.45
				H	18.93	4.02	-3.98	18.96	38.45
		50	0	V	16.31	4.01	-3.98	16.34	38.45
				H	17.78	4.01	-3.98	17.80	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 10MHz , VBW= 8MHz

Detector = Peak

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LTE 10MHz/16 QAM Band 17

Channel	Frequency (MHz)	RB Size	RB Offset	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
			V/H		dBm	dBd	dB	dBm	dBm
23780	709	1	49	V	16.33	3.99	-3.98	16.34	38.45
				H	17.68	3.99	-3.98	17.68	38.45
		1	0	V	16.79	4.10	-4.07	16.83	38.45
				H	17.84	4.10	-4.07	17.88	38.45
		25	12	V	18.06	4.04	-3.98	18.11	38.45
				H	19.35	4.04	-3.98	19.40	38.45
		50	0	V	19.05	4.03	-3.98	19.10	38.45
				H	18.93	4.03	-3.98	18.98	38.45
23790	710	1	49	V	16.64	3.98	-3.98	16.64	38.45
				H	17.80	3.98	-3.98	17.80	38.45
		1	0	V	17.61	4.09	-3.98	17.71	38.45
				H	17.57	4.08	-3.98	17.67	38.45
		25	12	V	18.36	4.02	-3.98	18.40	38.45
				H	19.46	4.02	-3.98	19.50	38.45
		50	0	V	17.44	4.02	-3.98	17.48	38.45
				H	19.32	4.03	-3.98	19.36	38.45
23800	711	1	49	V	16.70	3.96	-3.98	16.68	38.45
				H	17.87	3.97	-3.98	17.85	38.45
		1	0	V	16.95	4.07	-3.98	17.04	38.45
				H	18.04	4.08	-3.98	18.13	38.45
		25	12	V	18.98	4.00	-3.98	19.00	38.45
				H	19.10	4.01	-3.98	19.12	38.45
		50	0	V	19.71	4.01	-3.98	19.73	38.45
				H	18.88	4.00	-3.98	18.90	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 10MHz , VBW= 8MHz
 Detector = Peak

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9. 99% OCCUPIED BANDWIDTH MEASUREMENT

9.1. Standard Applicable:

According to §FCC 2.1049.

9.2. Test Set-up:

Refer to section 5.2 in this report

9.3. Measurement Procedure:

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10/30KHz) was set to about 1% of emission BW, VBW= 3 times RBW(30/100KHz), -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA II	1852.40	9262	4.1490
	1880.00	9400	4.1422
	1907.60	9538	4.1503

EUT Mode	Frequency (MHz)	CH	99 % Bandwidth (MHz)
HSUPA II	1852.40	9262	4.1457
	1880.00	9400	4.1496
	1907.60	9538	4.1570

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA II	1852.40	9262	4.1419
	1880.00	9400	4.1295
	1907.60	9538	4.1584

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.1447
	1732.60	1413	4.1498
	1752.60	1513	4.1315

EUT Mode	Frequency (MHz)	CH	99 % Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.1457
	1732.60	1413	4.1311
	1752.60	1513	4.1370

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA IV	1712.40	1312	4.1331
	1732.60	1413	4.1620
	1752.60	1513	4.1292

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA V	826.40	4132	4.1229
	836.60	4183	4.1337
	846.60	4233	4.1332

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA V	826.40	4132	4.1375
	836.60	4183	4.1431
	846.60	4233	4.1450

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA V	826.40	4132	4.1511
	836.60	4183	4.1373
	846.60	4233	4.1374

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 4 (QPSK RB 6 Offset 0)	1710.7	19957	1.3289
	1732.5	20175	1.3142
	1754.3	20393	1.3195

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
1.4MHz BW LTE-Band 4 (16QAM RB 6 Offset 0)	1710.7	19957	1.3207
	1732.5	20175	1.3008
	1754.3	20393	1.3135

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 4 (QPSK RB 15 Offset 0)	1711.5	19965	2.8598
	1732.5	20175	2.8528
	1753.5	20385	2.8454

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
3MHz BW LTE-Band 4 (16QAM RB 15 Offset 0)	1711.5	19965	2.8457
	1732.5	20175	2.8410
	1753.5	20385	2.8298

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 4 (QPSK RB 25 Offset 0)	1712.5	19975	4.5054
	1732.5	20175	4.5090
	1752.5	20375	4.5073

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 4 (16QAM RB 25 Offset 0)	1712.5	19975	4.5151
	1732.5	20175	4.5205
	1752.5	20375	4.5090

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 4 (QPSK RB 50 Offset 0)	1715	20000	8.9985
	1732.5	20175	8.9528
	1750	20350	8.9475

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 4 (16QAM RB 50 Offset 0)	1715	20000	8.9470
	1732.5	20175	8.9468
	1750	20350	8.9455

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 17 (QPSK RB 25 Offset 0)	706.5	23755	4.5048
	710	23790	4.5006
	713.5	23825	4.5069

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
5MHz BW LTE-Band 17 (16QAM RB 25 Offset 0)	706.5	23755	4.5057
	710	23790	4.5103
	713.5	23825	4.5085

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 17 (QPSK RB 50 Offset 0)	709	23780	8.9046
	710	23790	8.8939
	711	23800	8.9677

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
10MHz BW LTE-Band 17 (16QAM RB 50 Offset 0)	709	23780	8.9435
	710	23790	8.8858
	711	23800	8.8665

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Figure 9-1: WCDMA Band II Channel Low

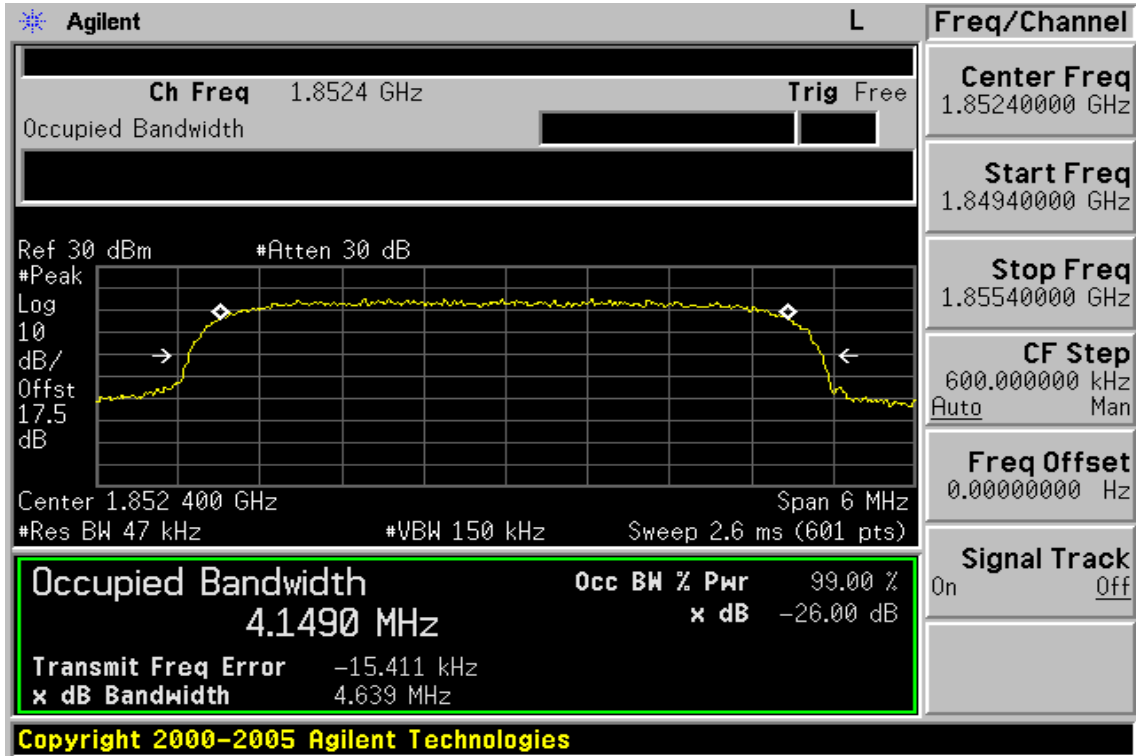
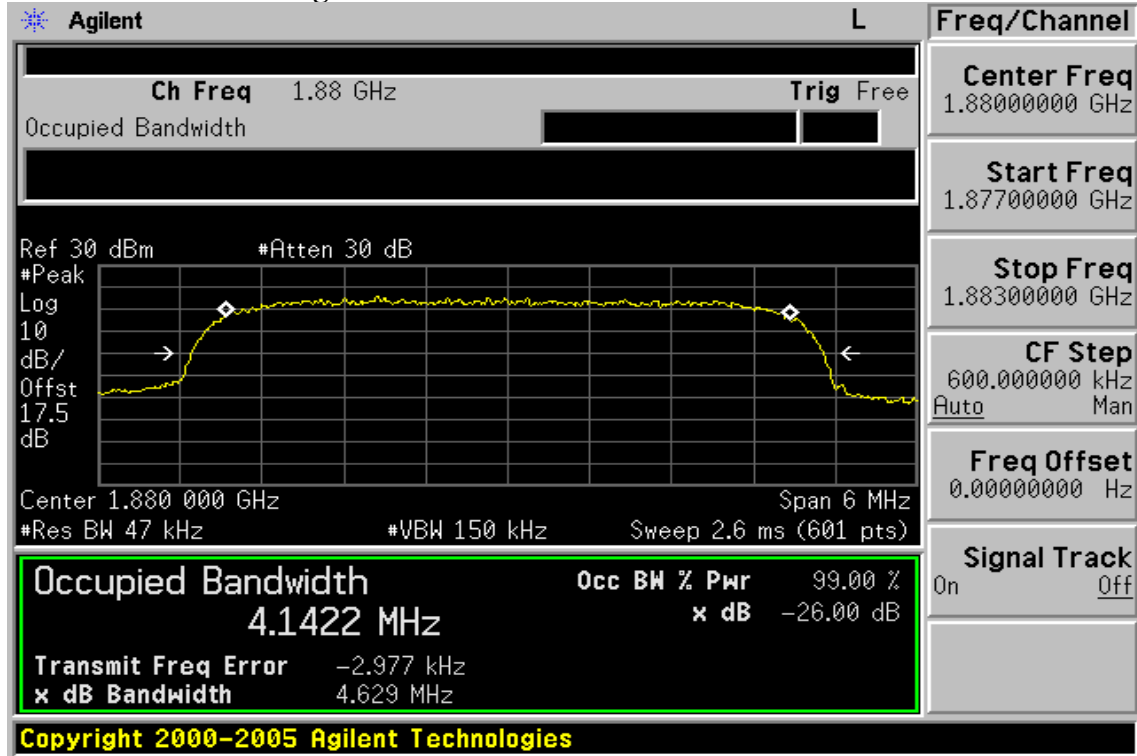


Figure 9-2 WCDMA Band II Channel Mid



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Figure 9-3: WCDMA Band II Channel High

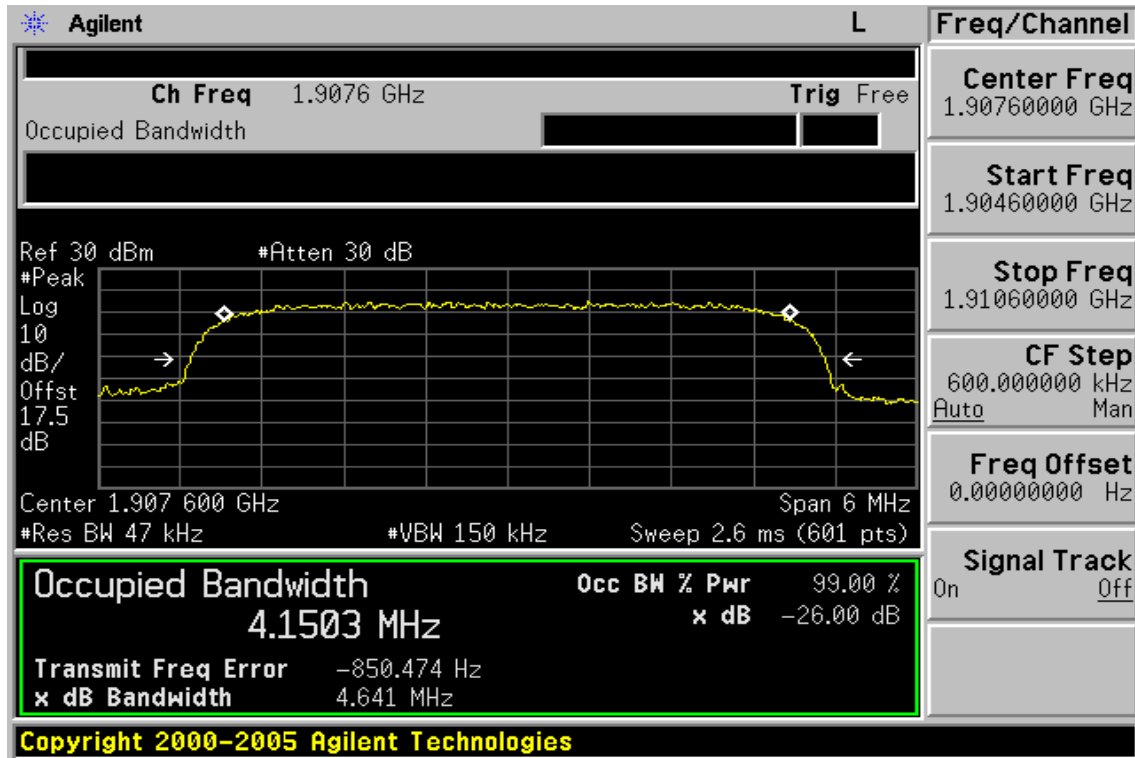
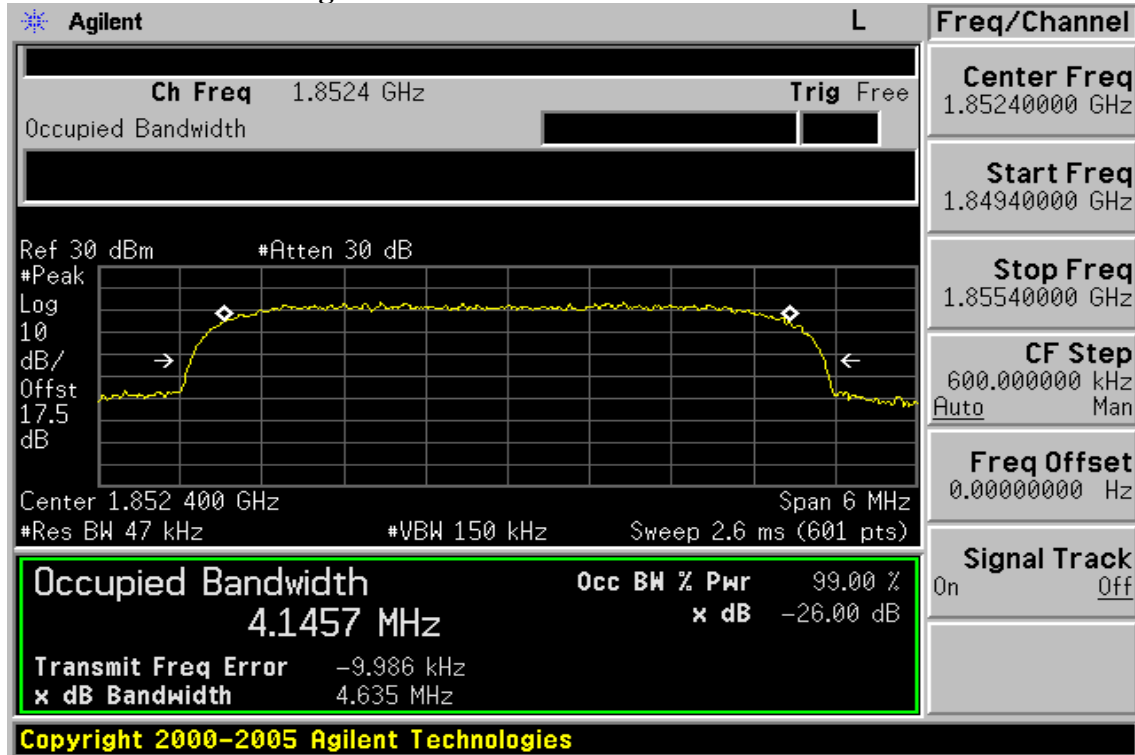


Figure 9-4: HSUPA Band II Channel Low



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Figure 9-5 HSUPA Band II Channel Mid

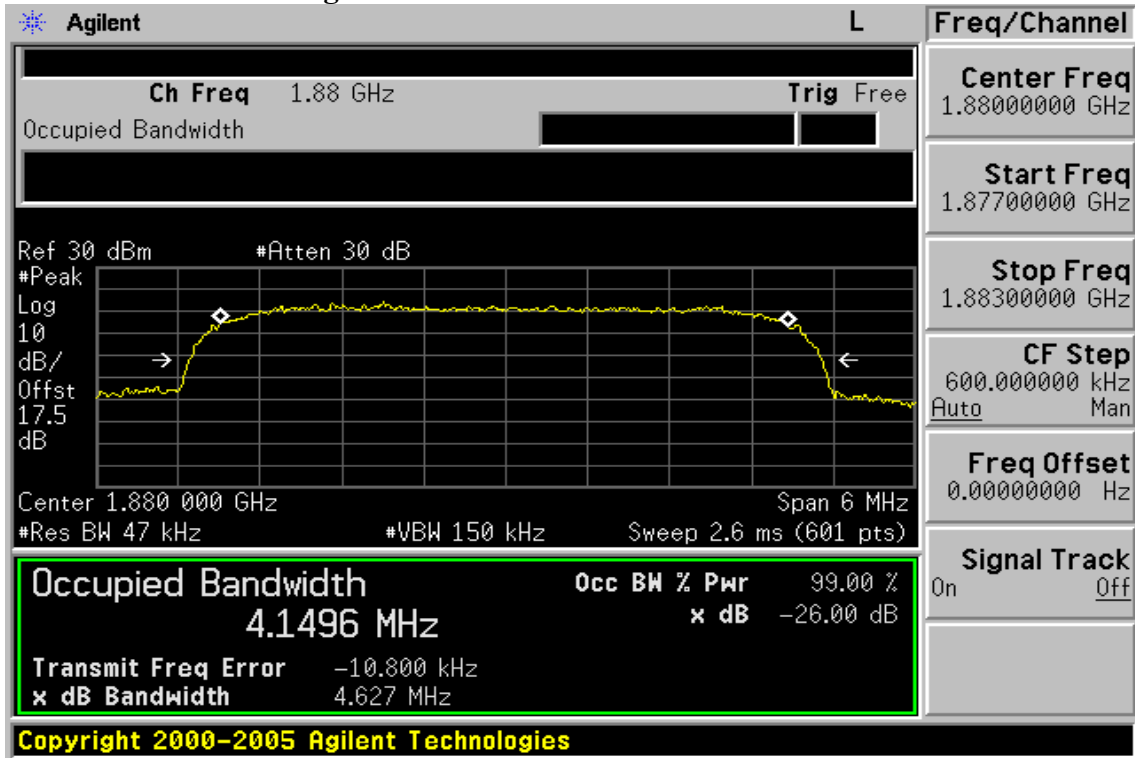
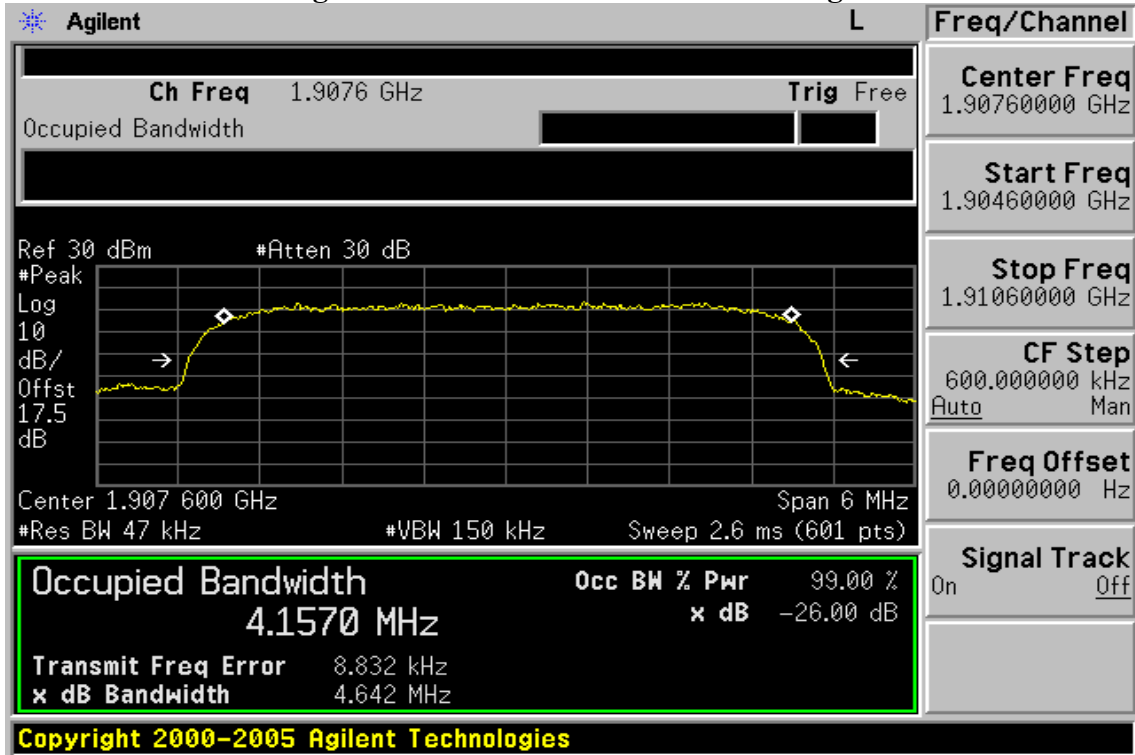


Figure 9-6: HSUPA Band II Channel High



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Figure 9-7: HSDPA Band II Channel Low

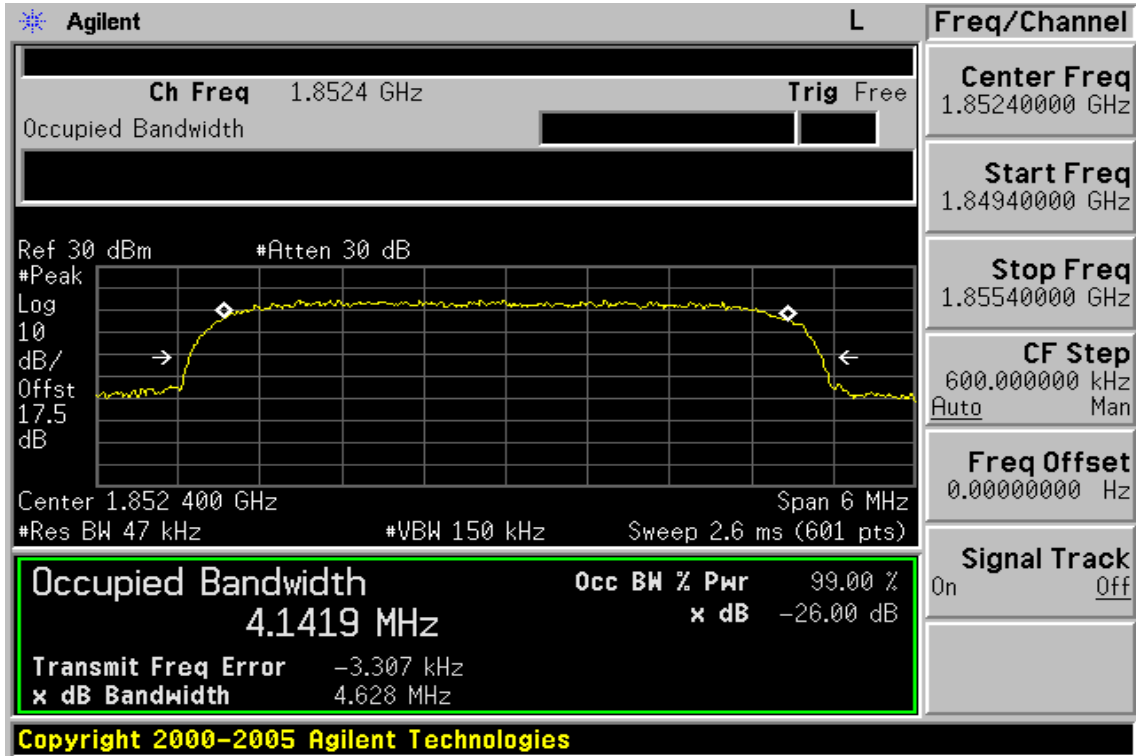
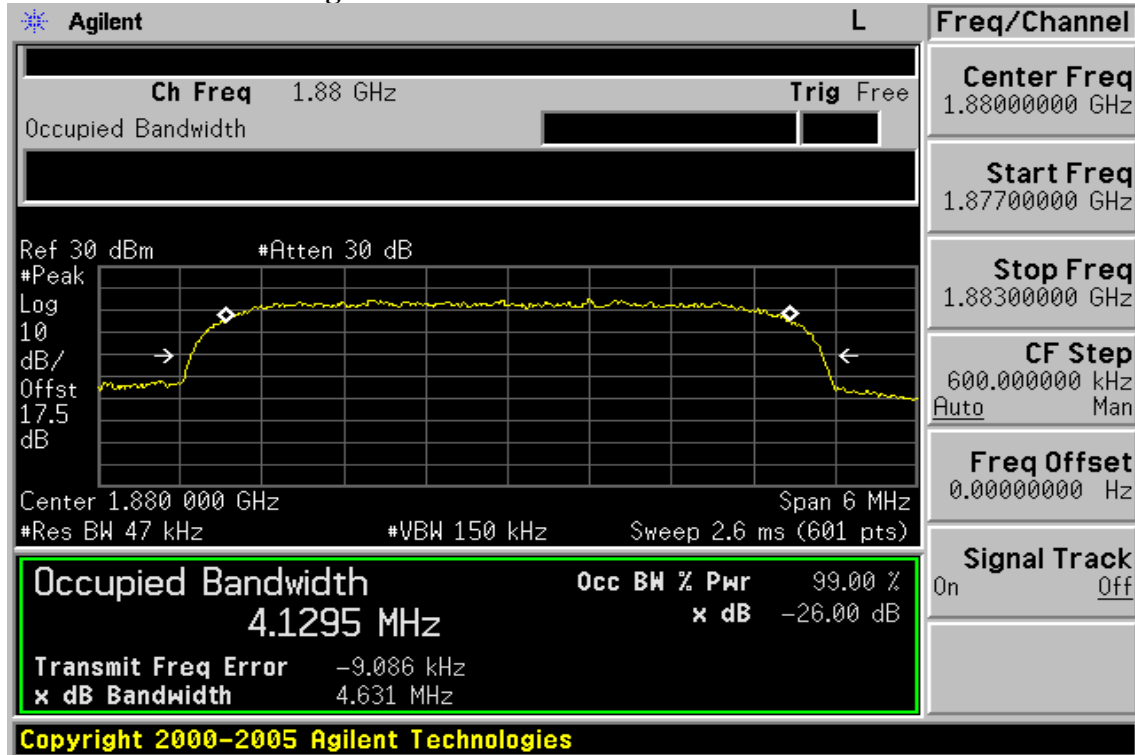


Figure 9-8 HSDPA Band II Channel Mid



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Figure 9-9: HSDPA Band II Channel High

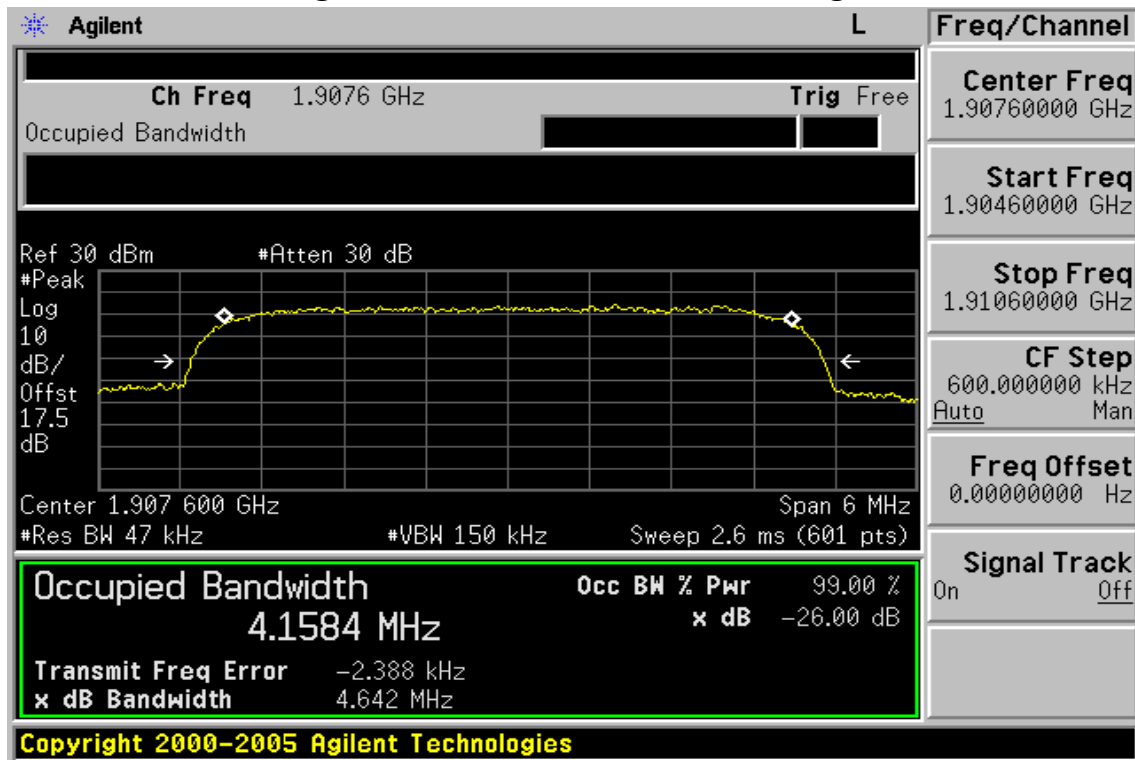
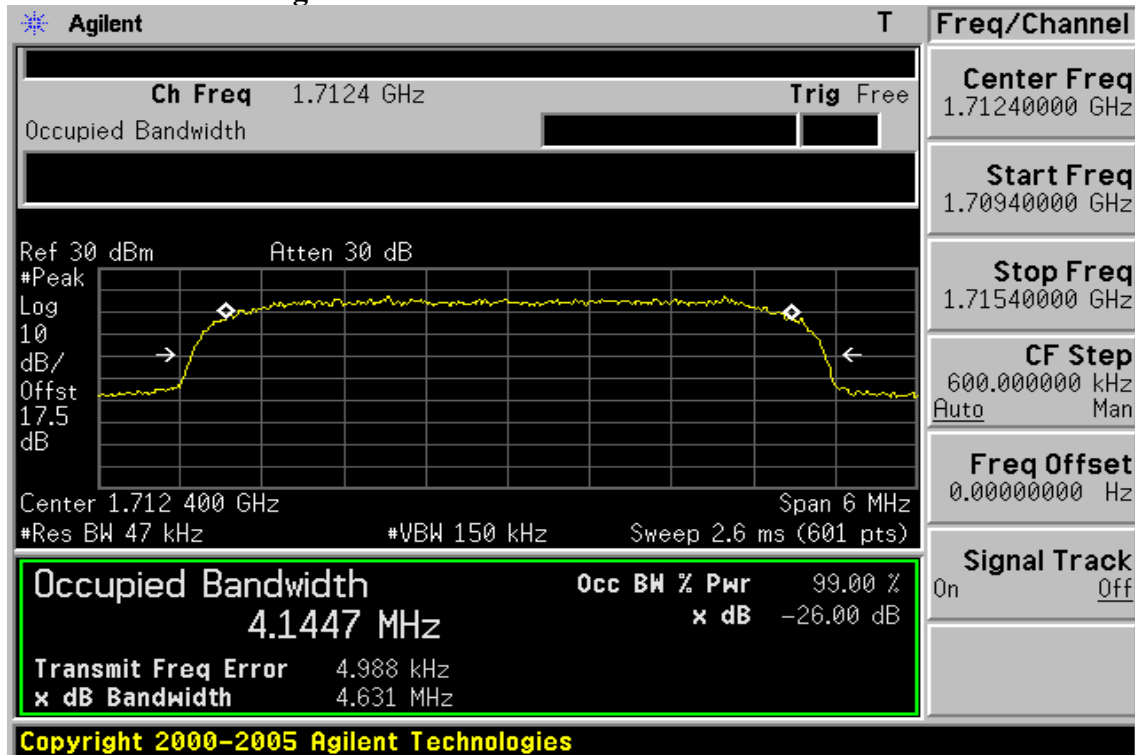


Figure 9-10: WCDMA Band IV Channel Low



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Figure 9-11 WCDMA Band IV Channel Mid

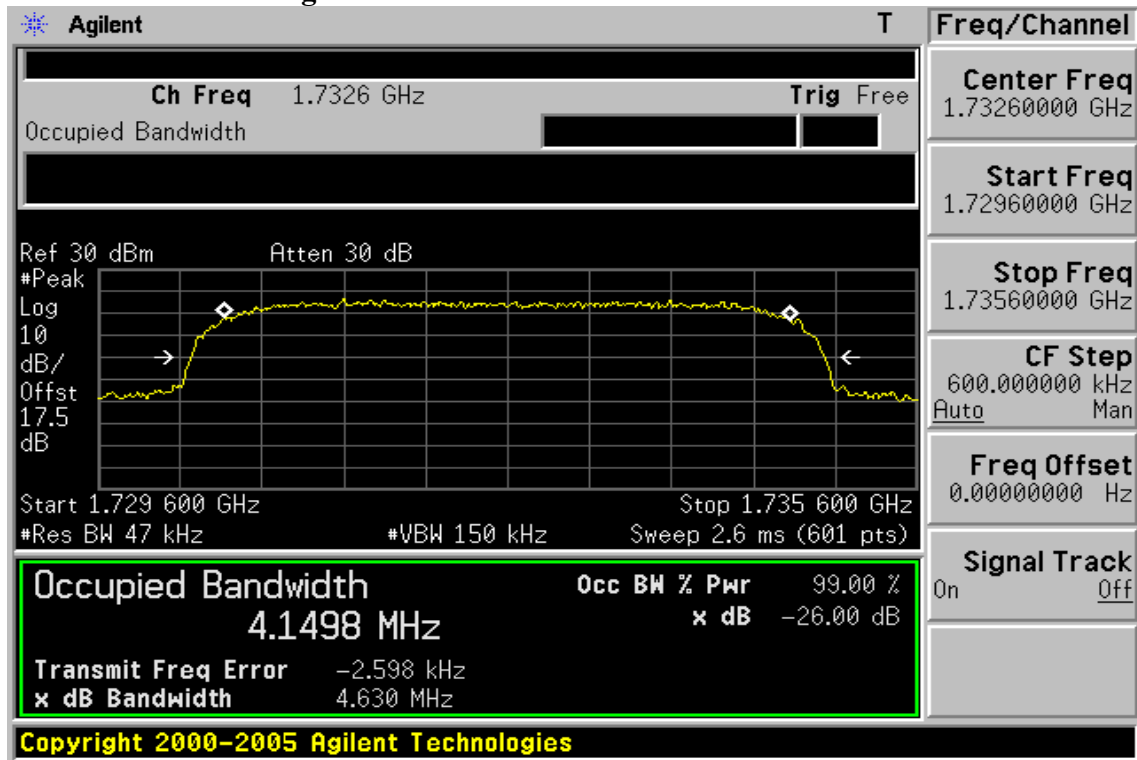
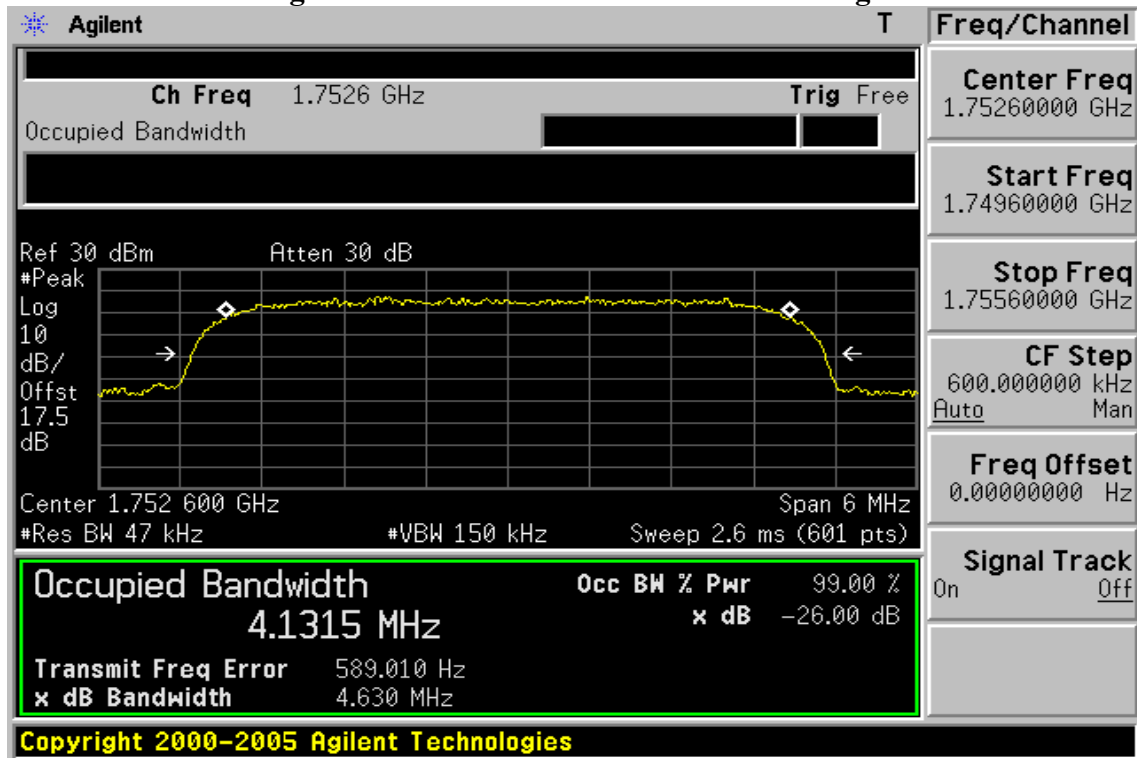


Figure 9-12: WCDMA Band IV Channel High



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Figure 9-13: HSUPA Band IV Channel Low

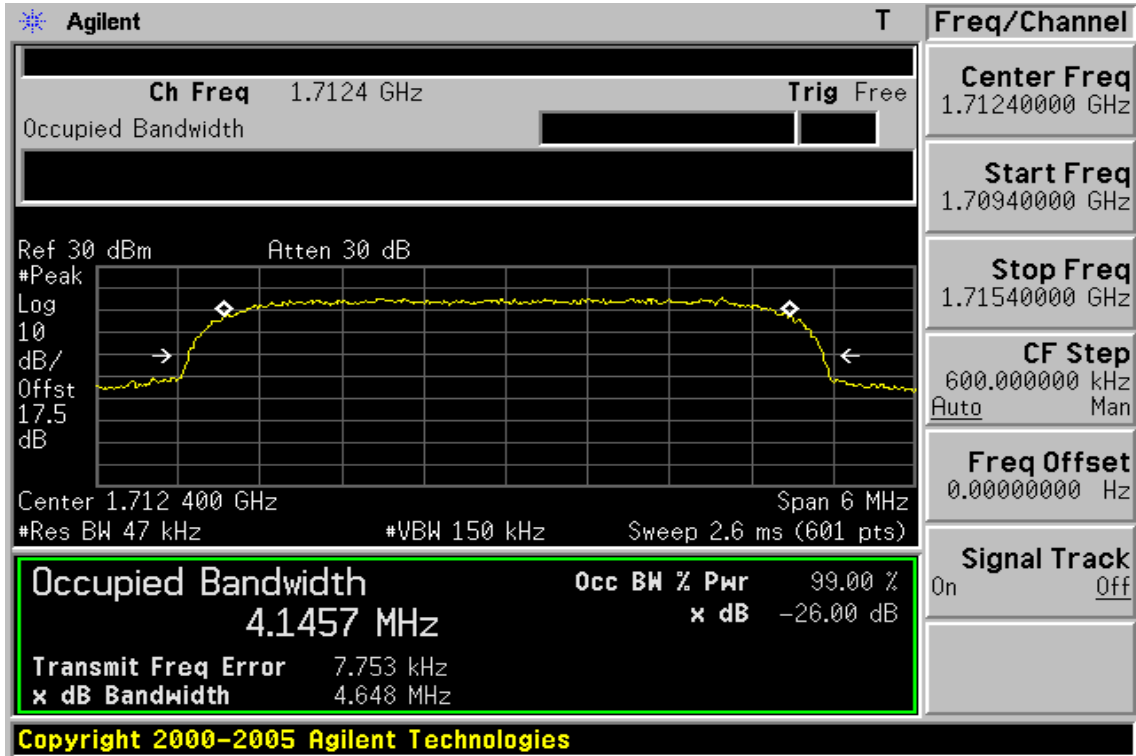
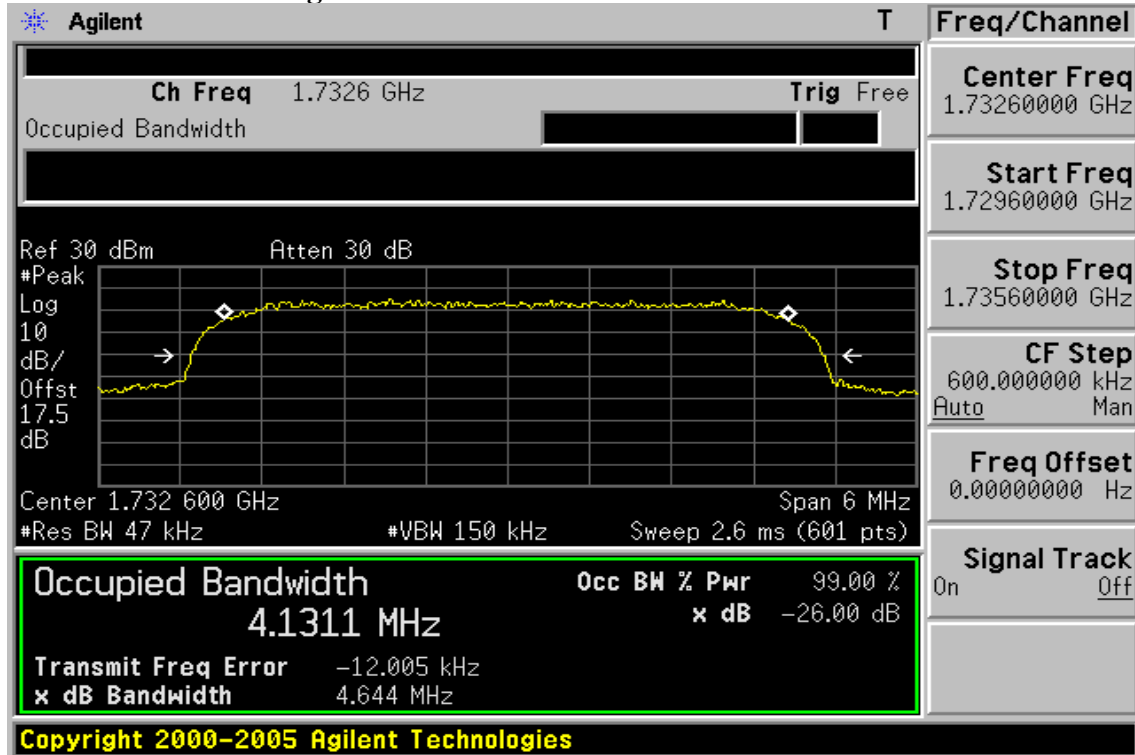


Figure 9-14: HSUPA Band IV Channel Mid



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Figure 9-15: HSUPA Band IV Channel High

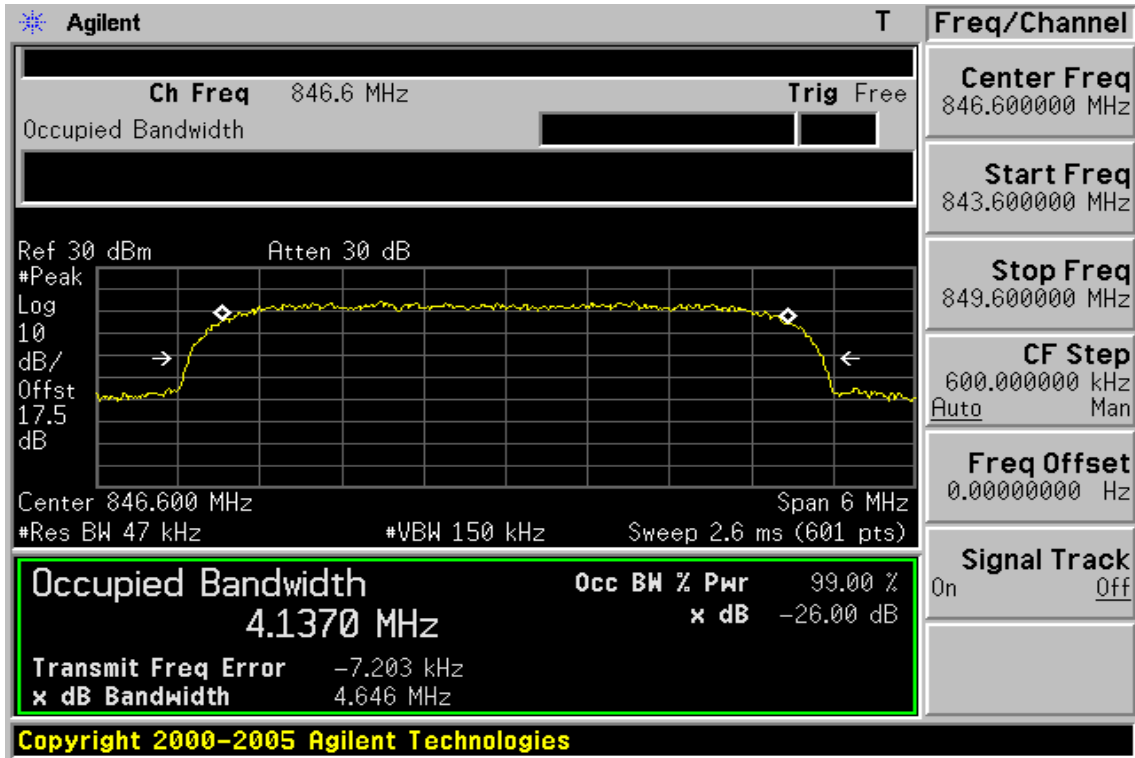
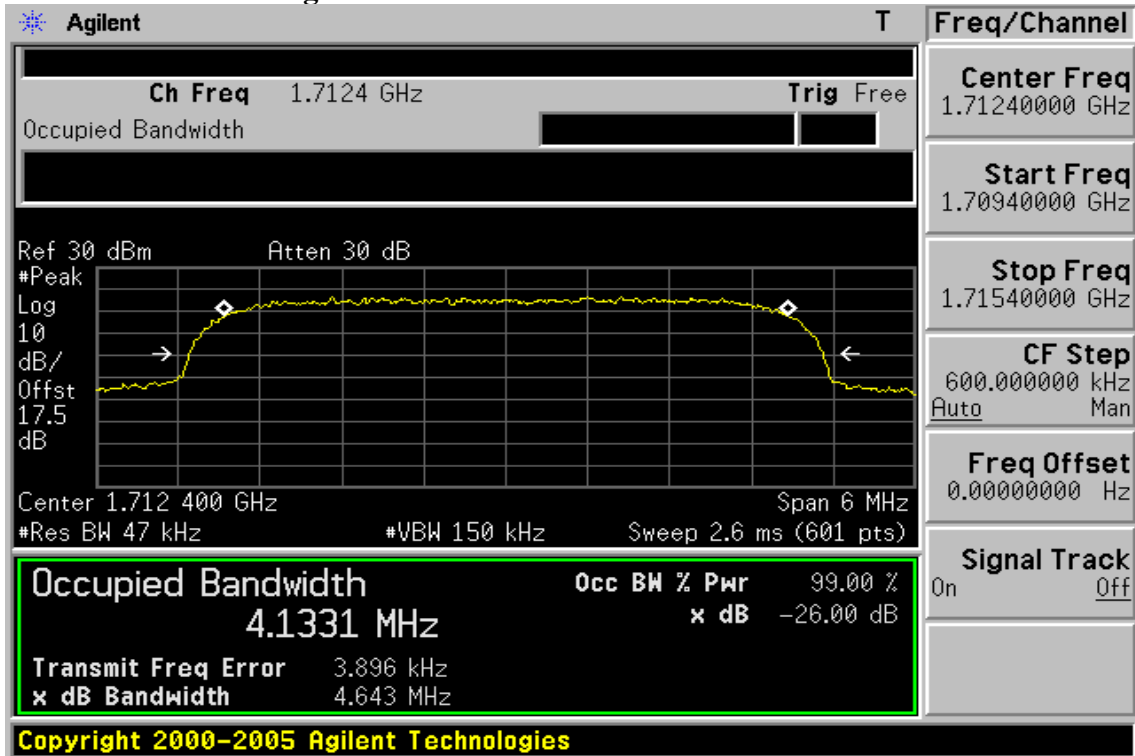


Figure 9-16: HSDPA Band IV Channel Low



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Figure 9-17: HSDPA Band IV Channel Mid

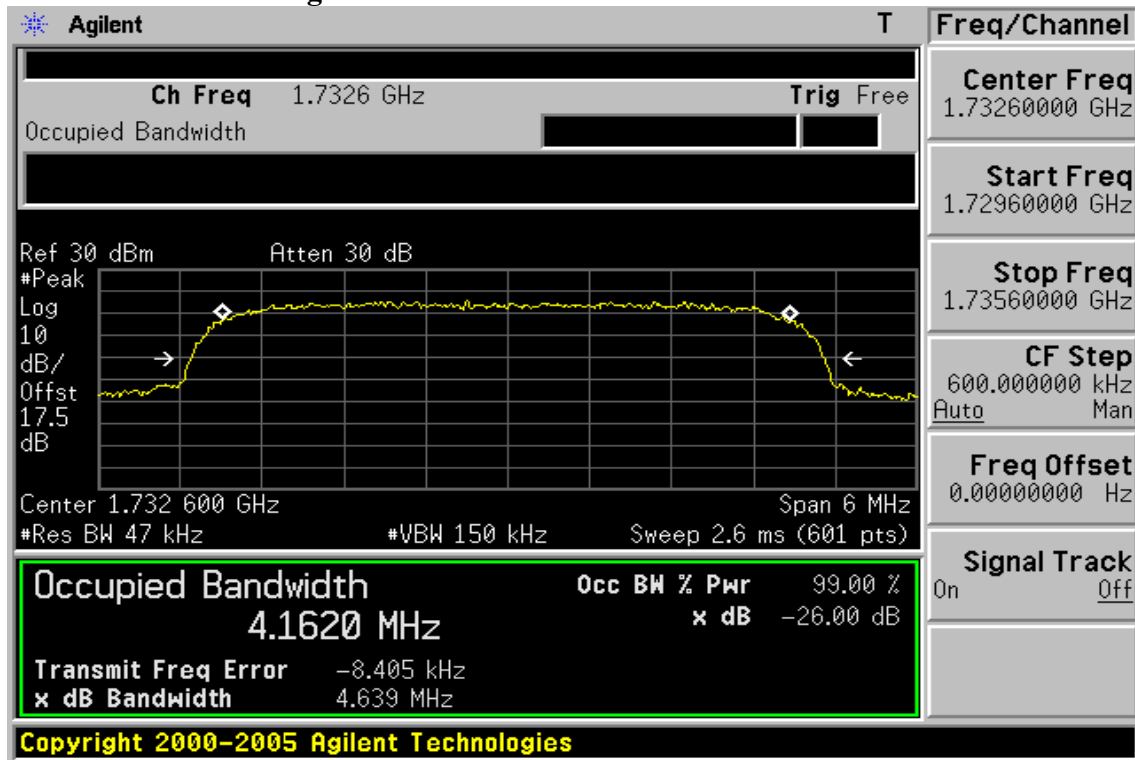
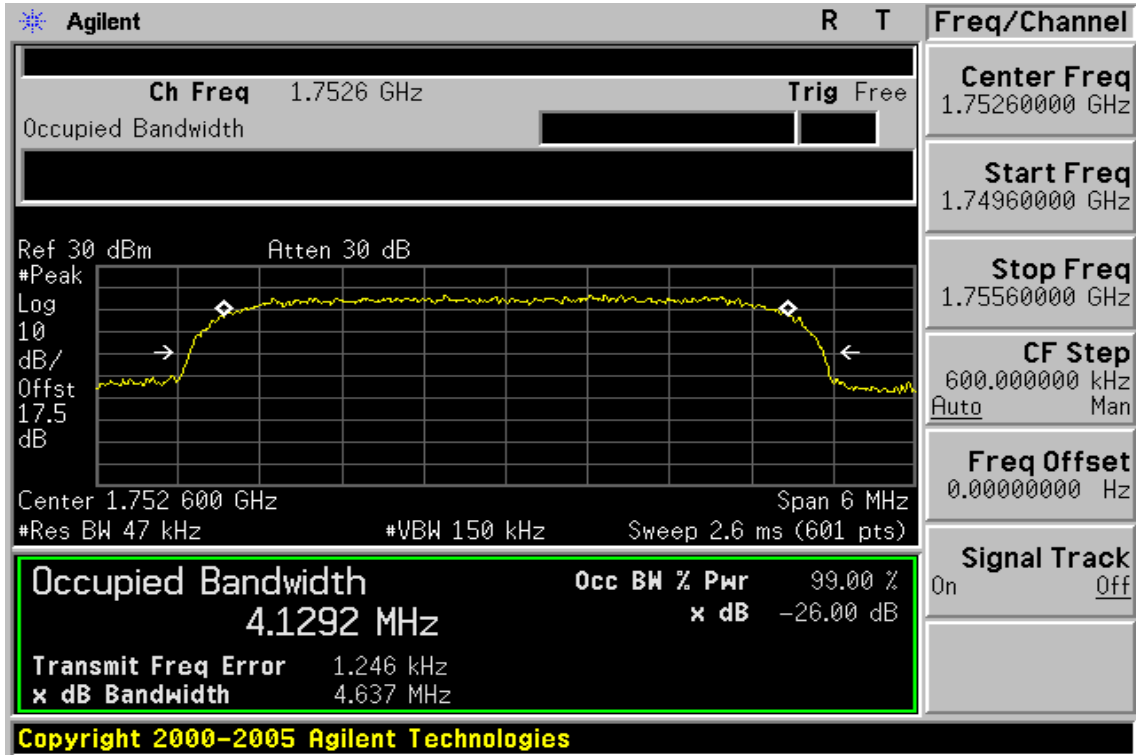


Figure 9-18: HSDPA Band IV Channel High



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Figure 9-19: WCDMA Band V Channel Low

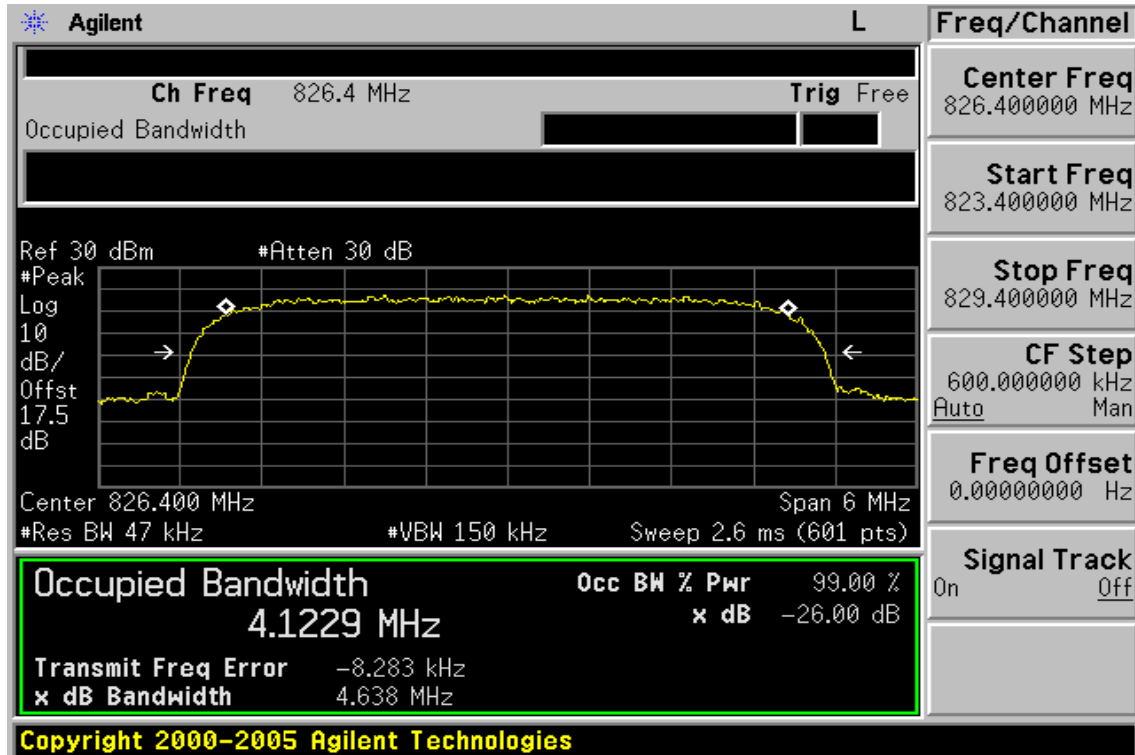
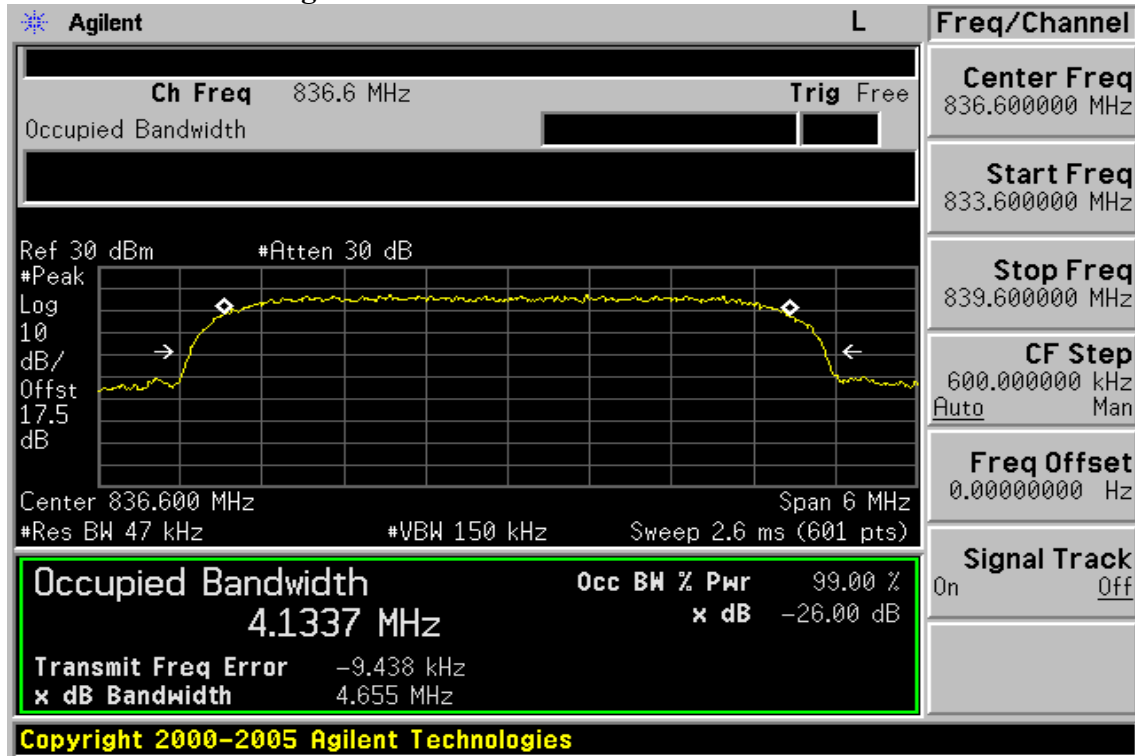


Figure 9-20: WCDMA Band V Channel Mid



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Figure 9-21: WCDMA Band V Channel High

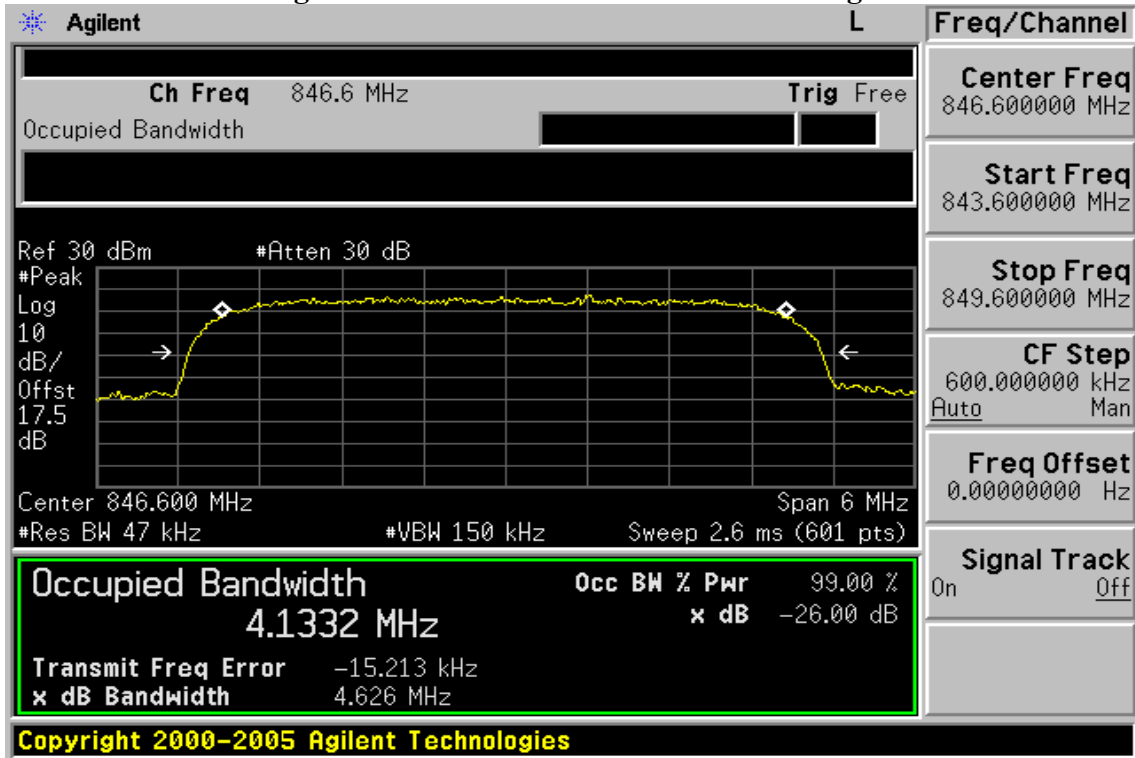
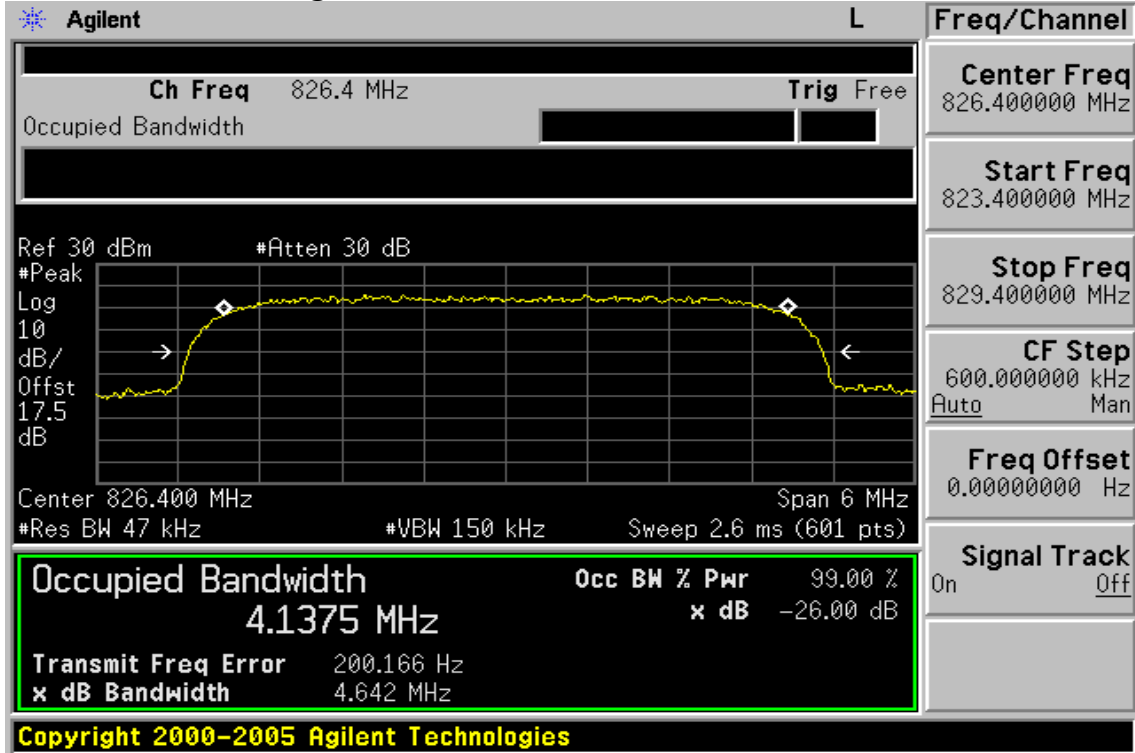


Figure 9-22: HSUPA Band V Channel Low



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Figure 9-23 HSUPA Band V Channel Mid

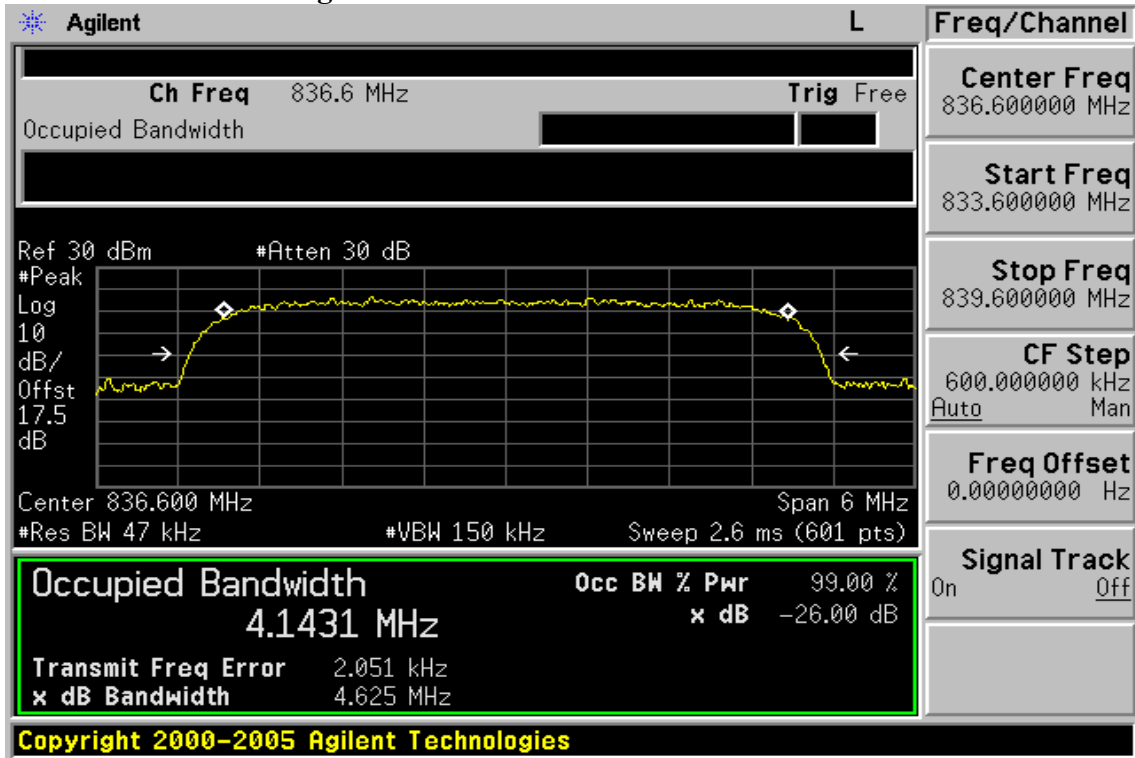
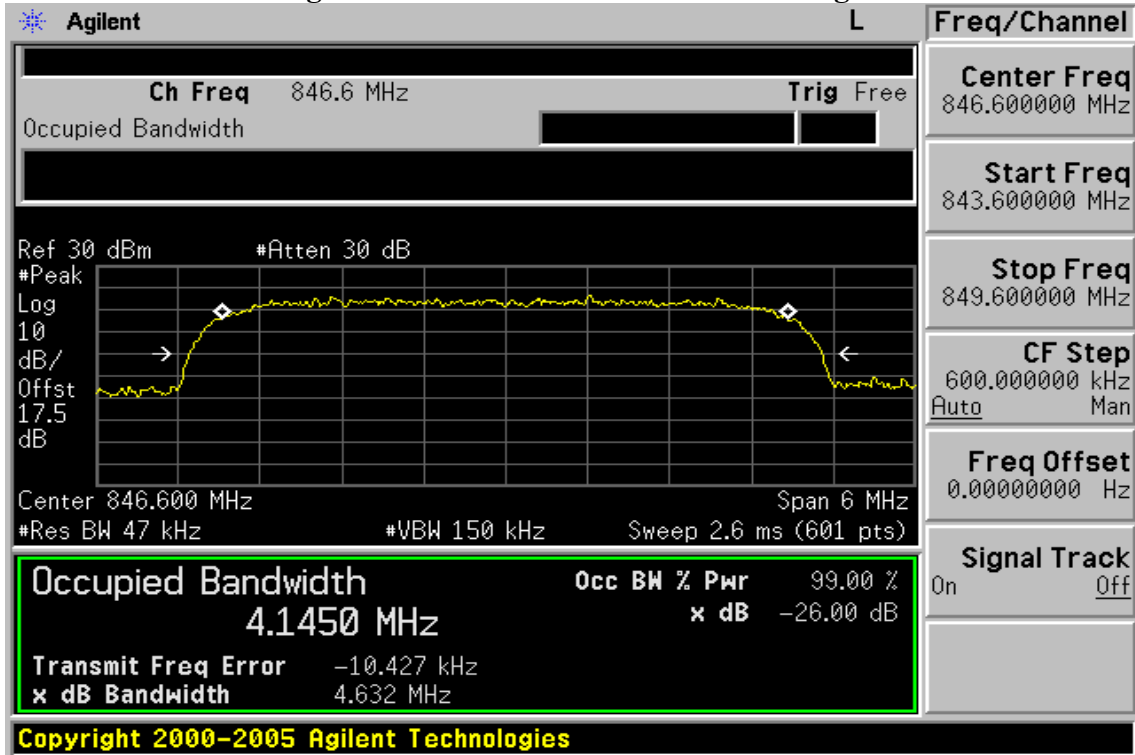


Figure 9-24: HSUPA Band V Channel High



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Figure 9-25: HSDPA Band V Channel Low

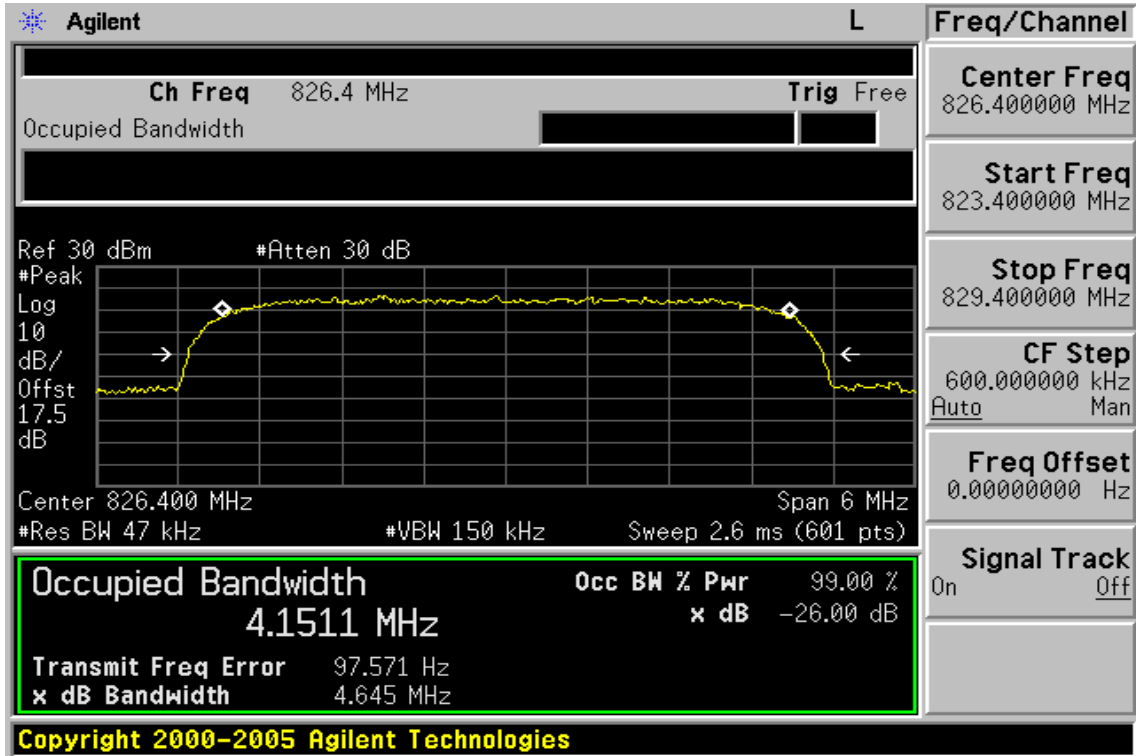
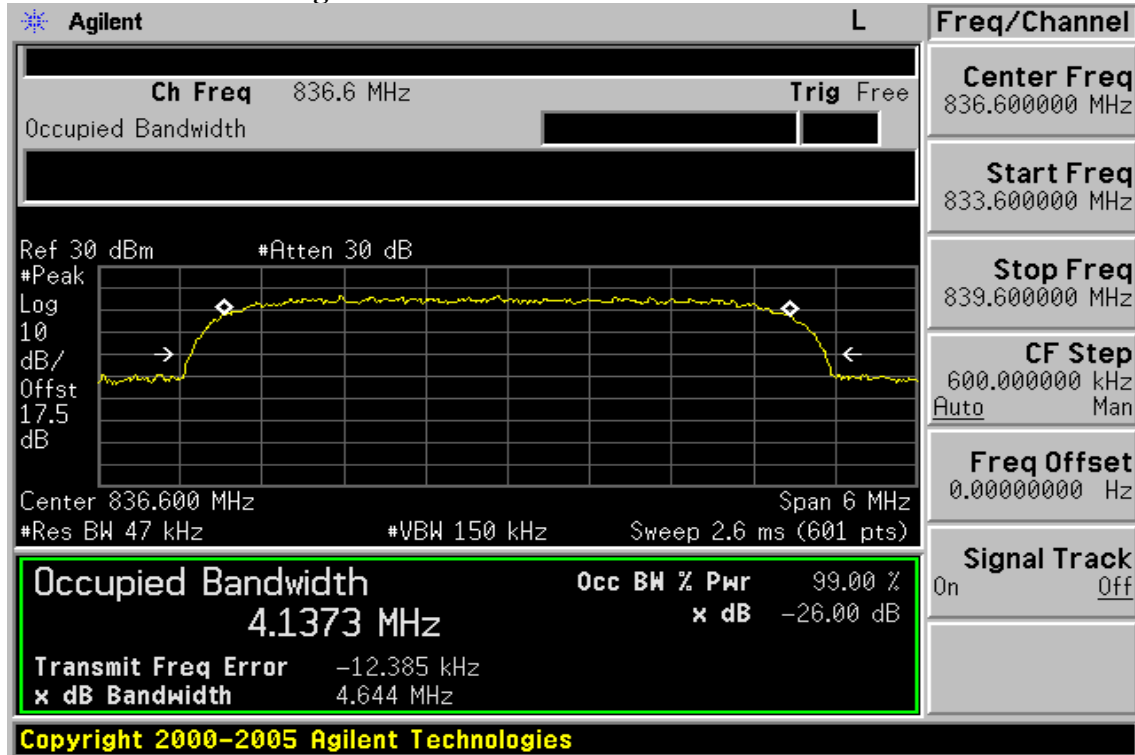


Figure 9-26: HSDPA Band V Channel Mid



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Figure 9-27: HSDPA Band V Channel High

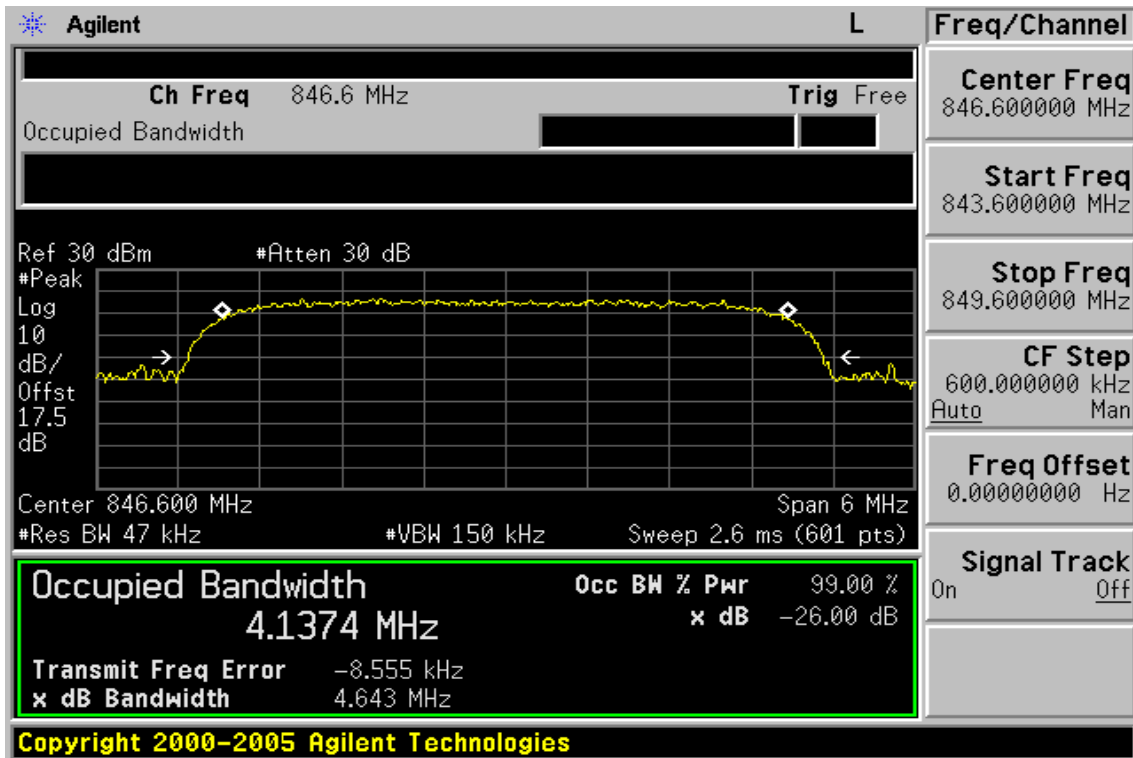
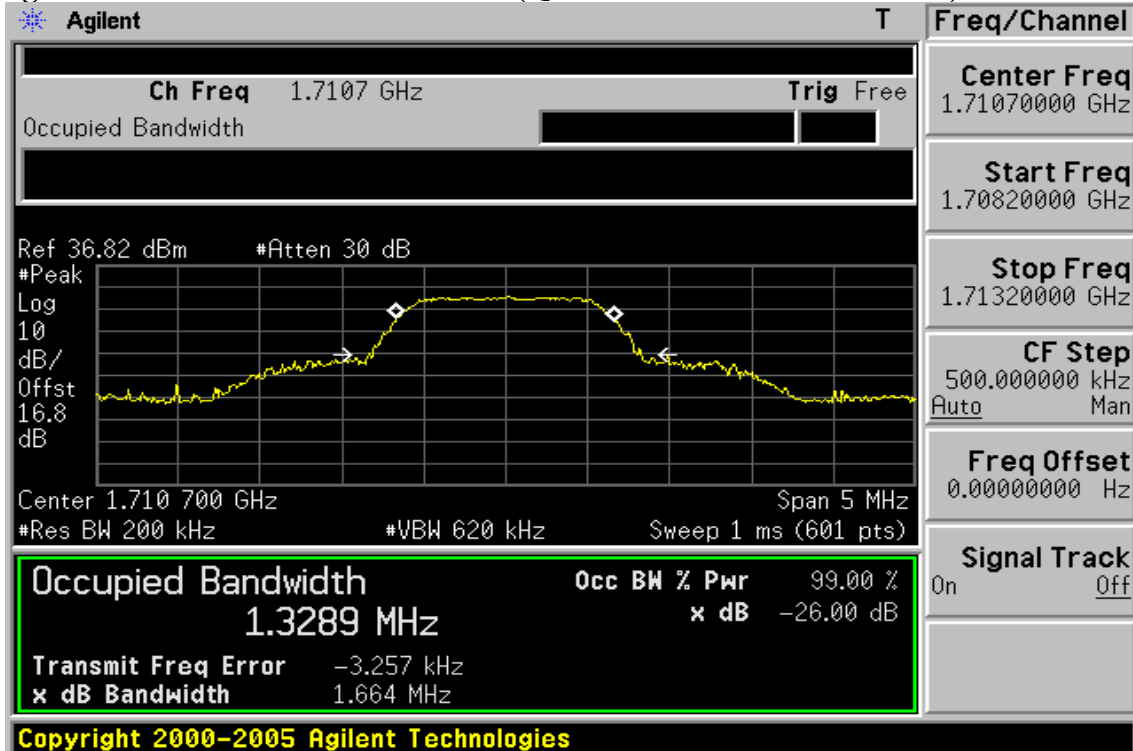


Figure 9-28: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Low



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Figure 9-29: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Mid

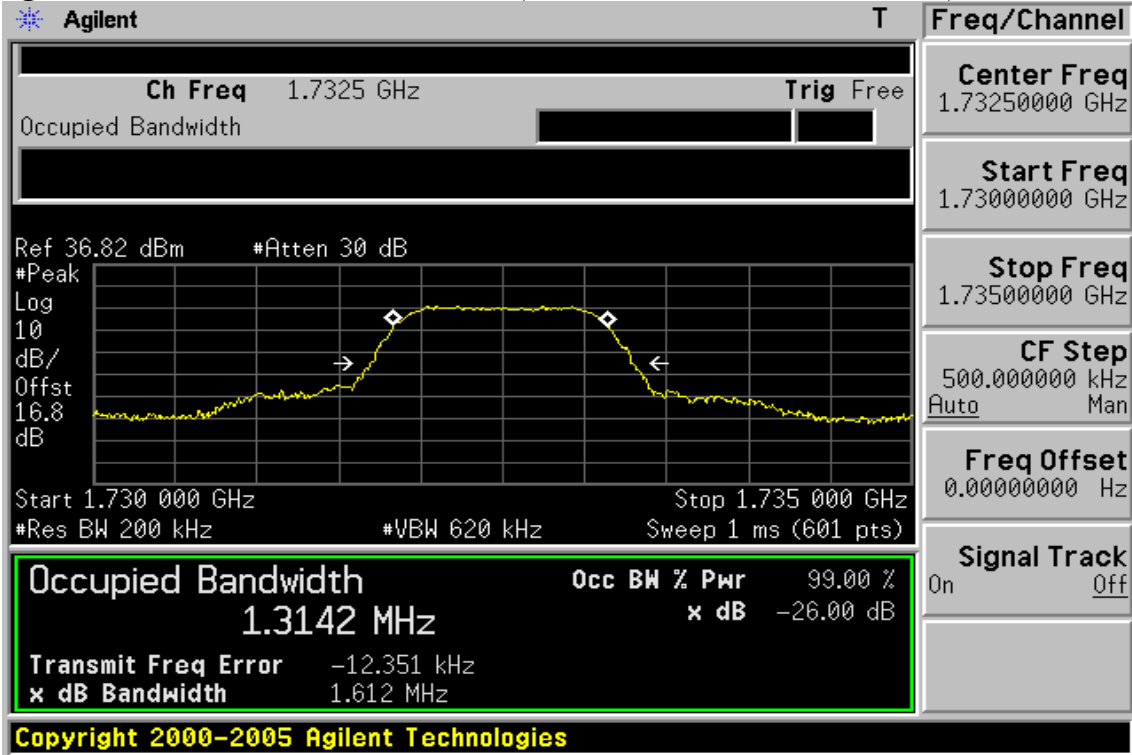
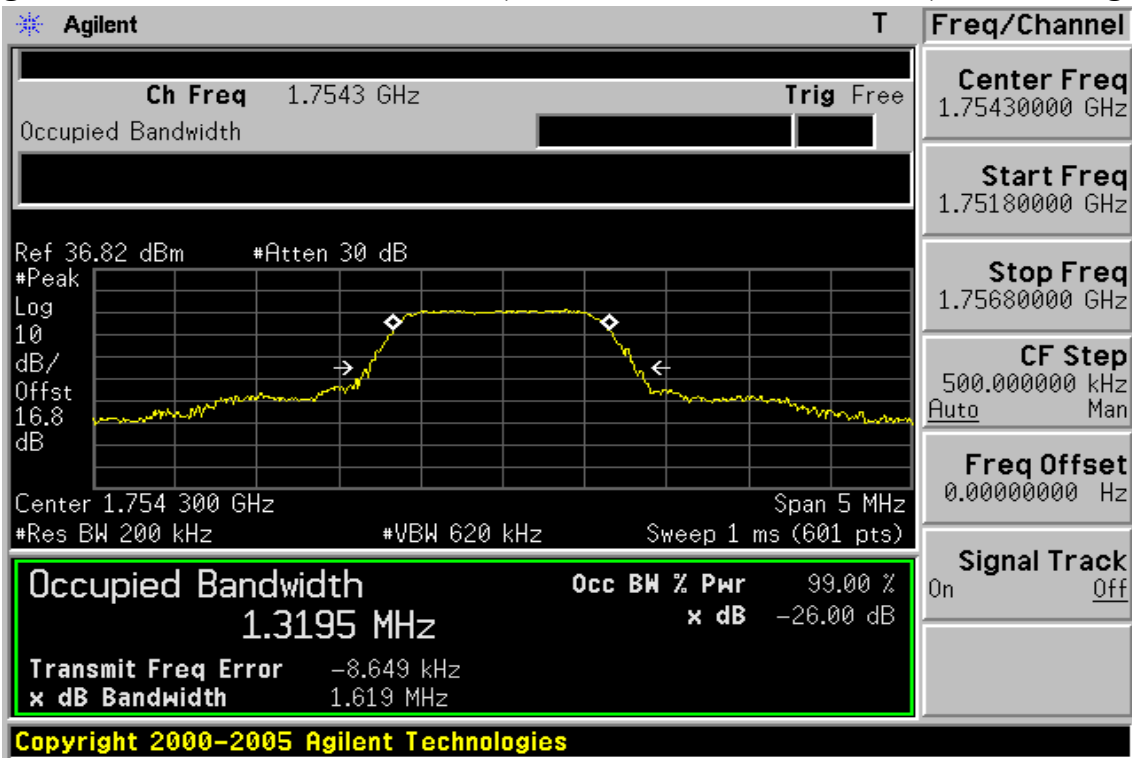


Figure 9-30: 1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel High



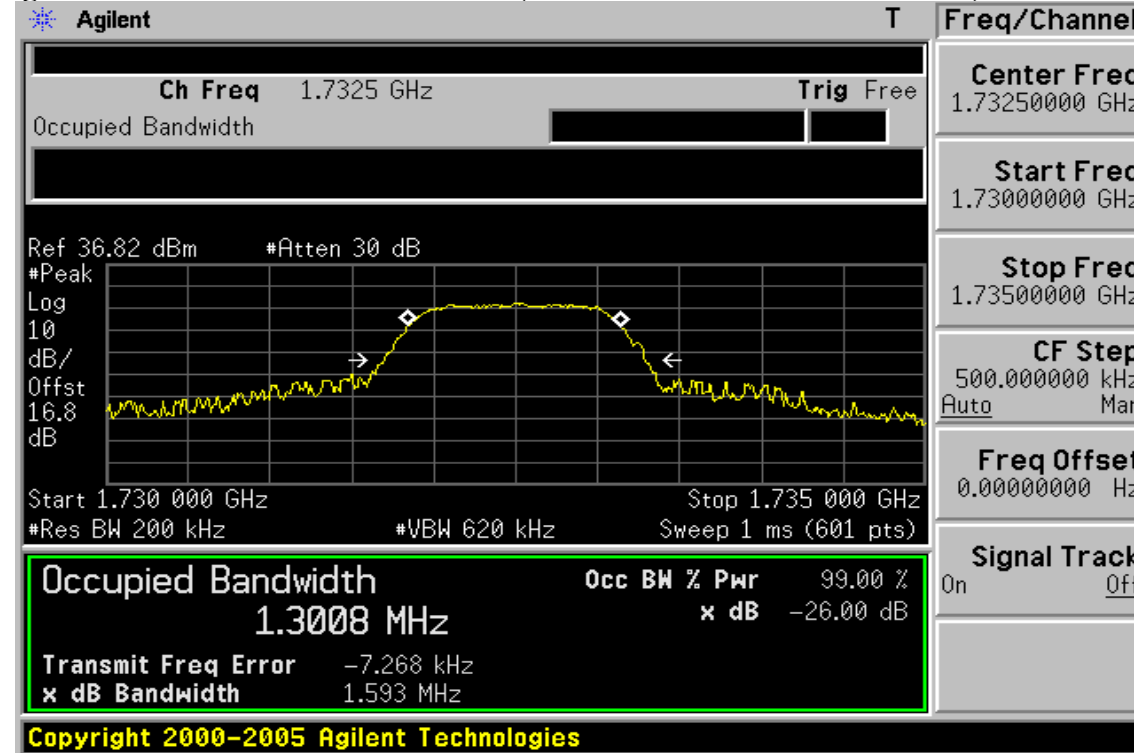
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Figure 9-31: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Low



Figure 9-32: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Mid



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Figure 9-33: 1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel High

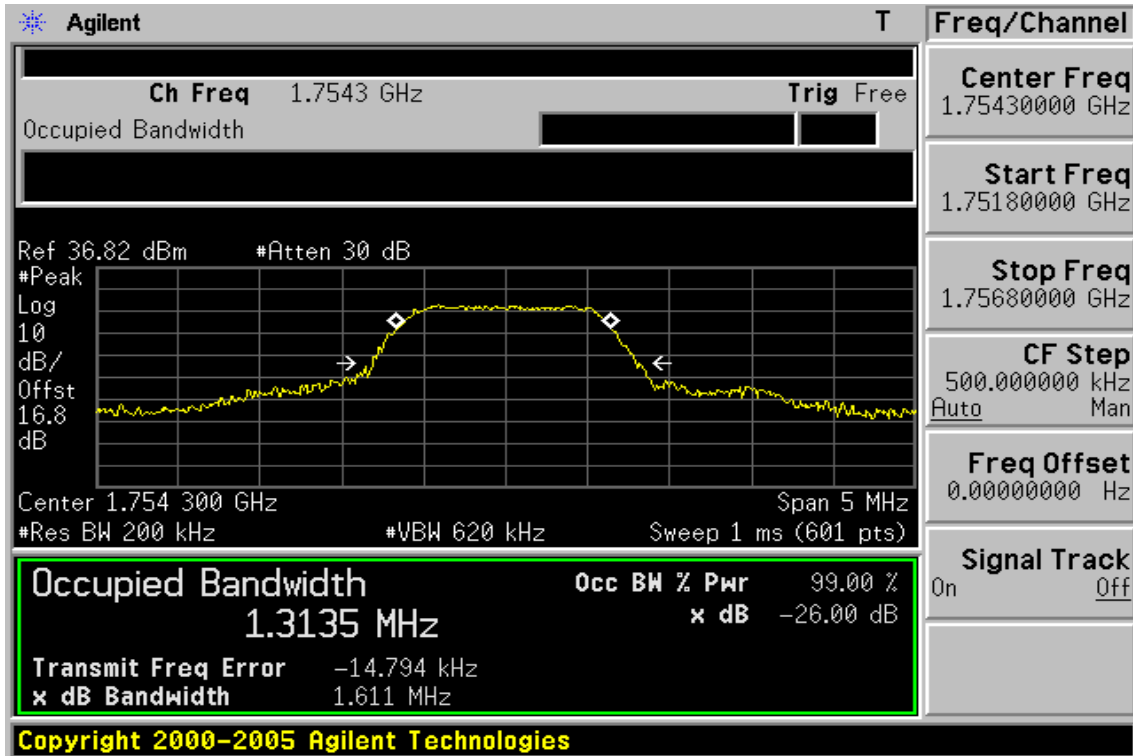
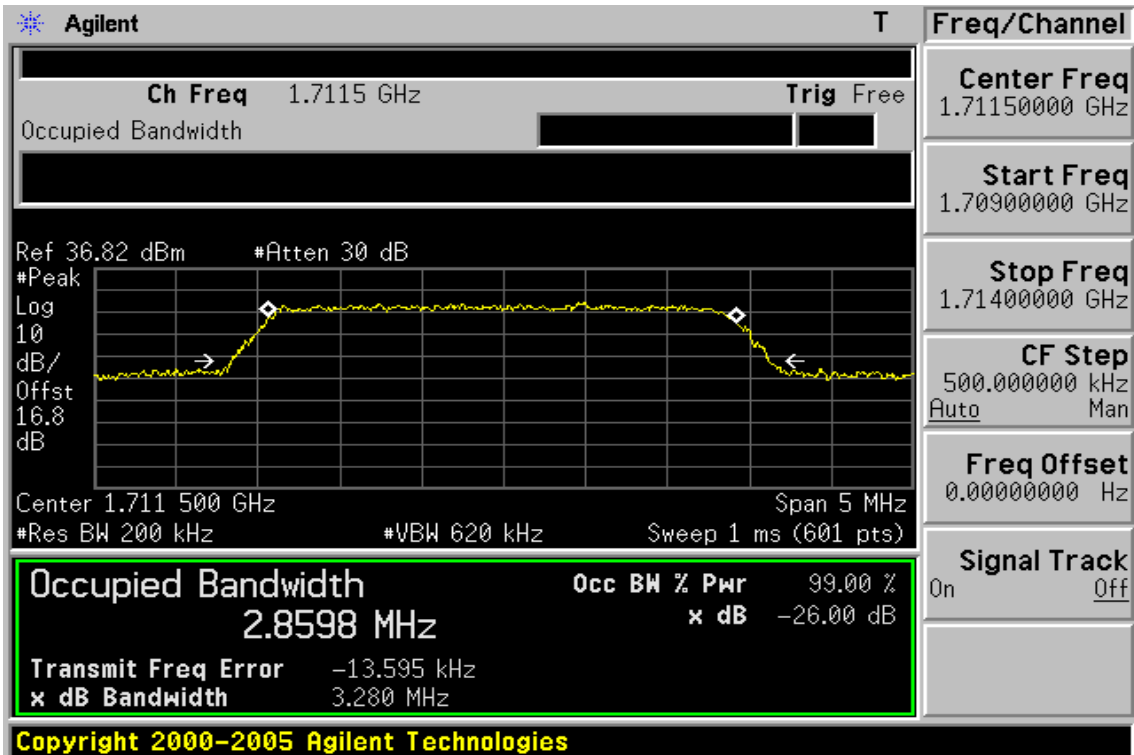


Figure 9-34: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Low



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Figure 9-35: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Mid

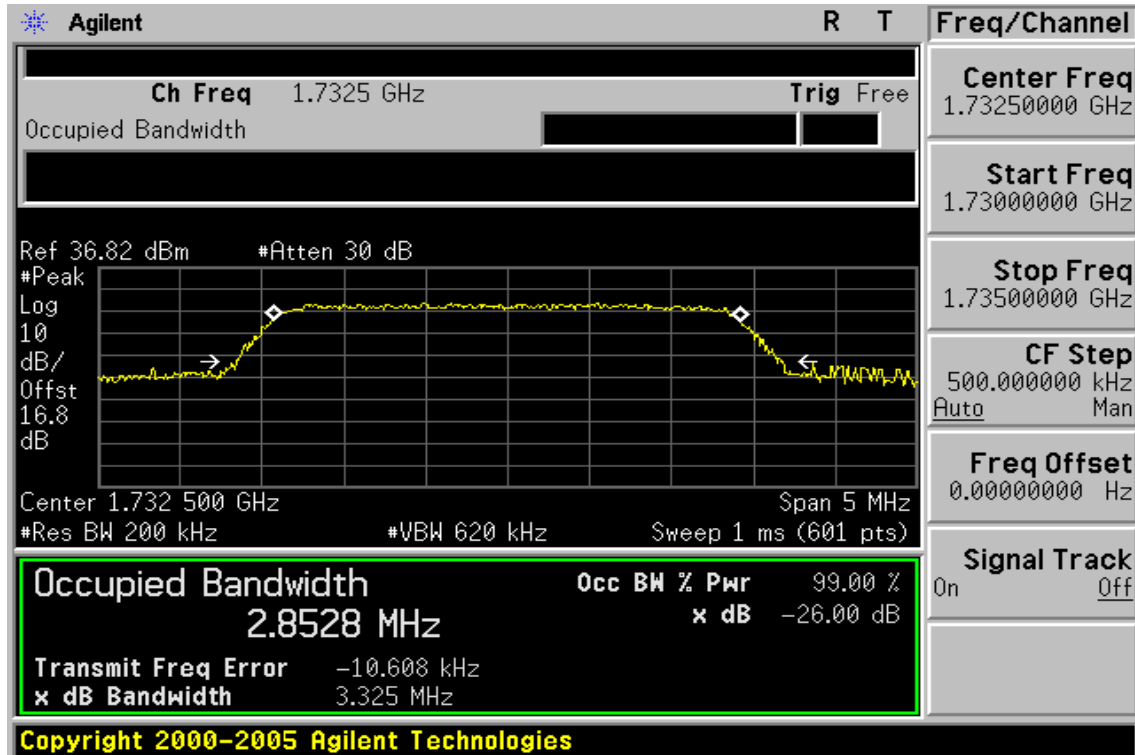
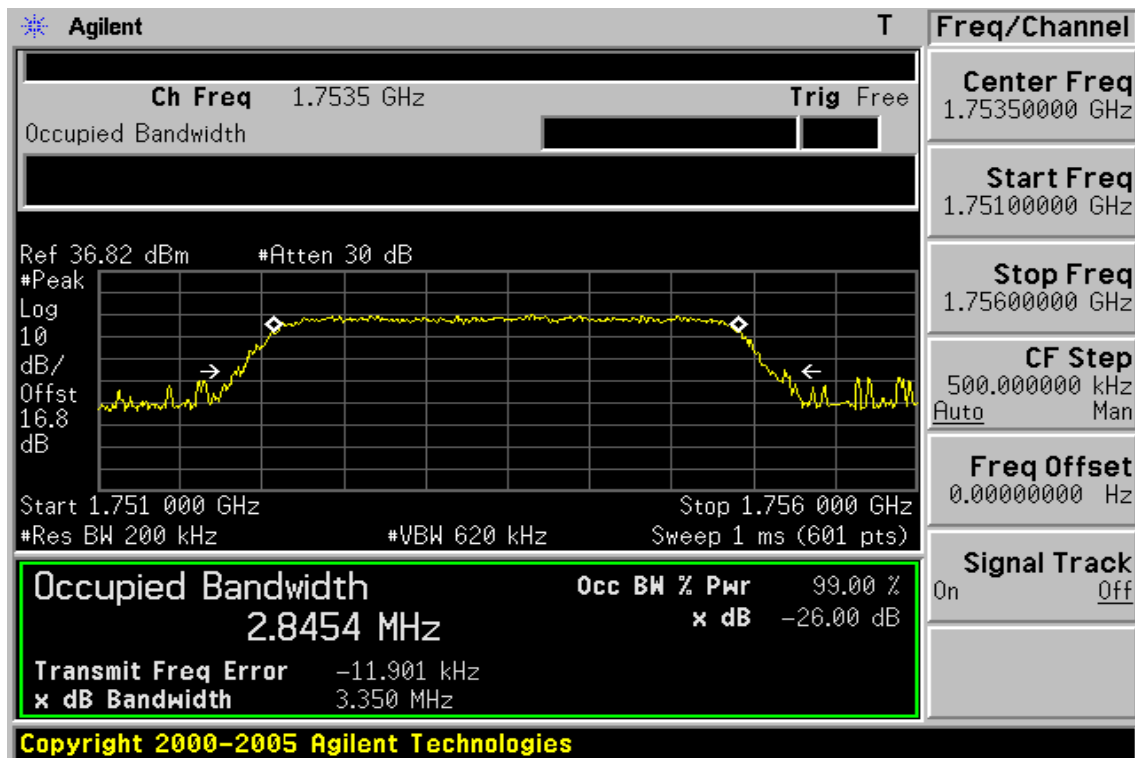


Figure 9-36: 3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel High



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Figure 9-37: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Low

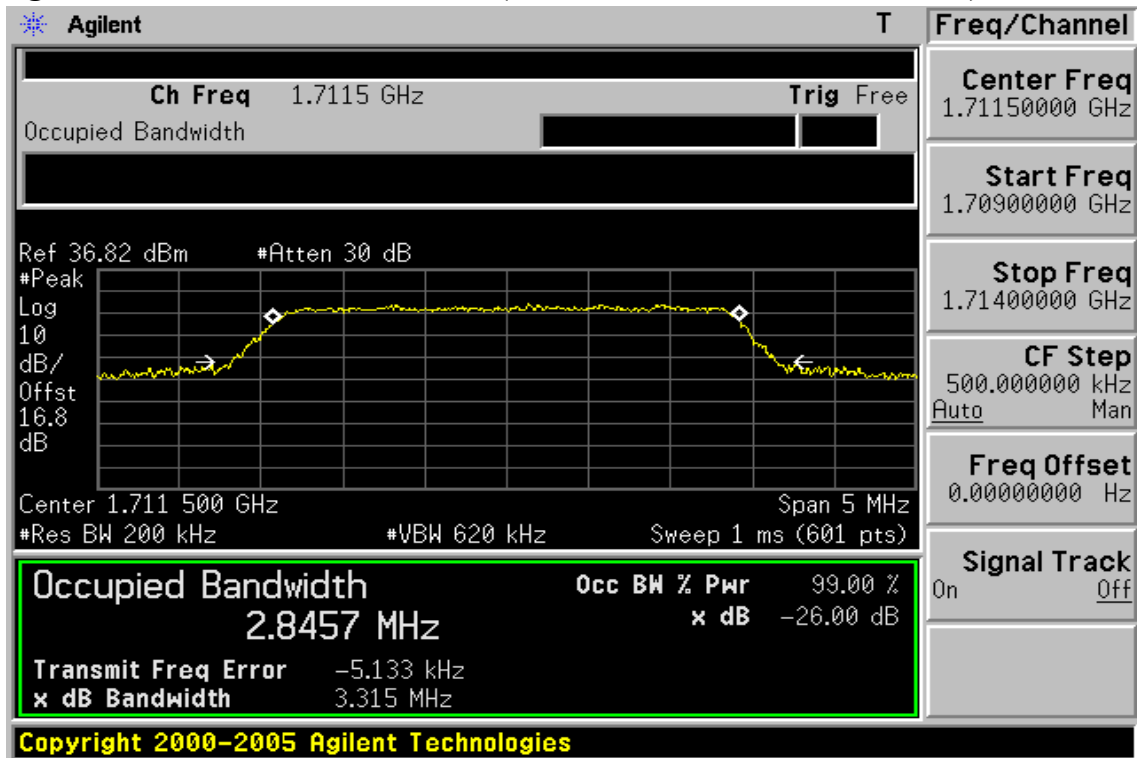
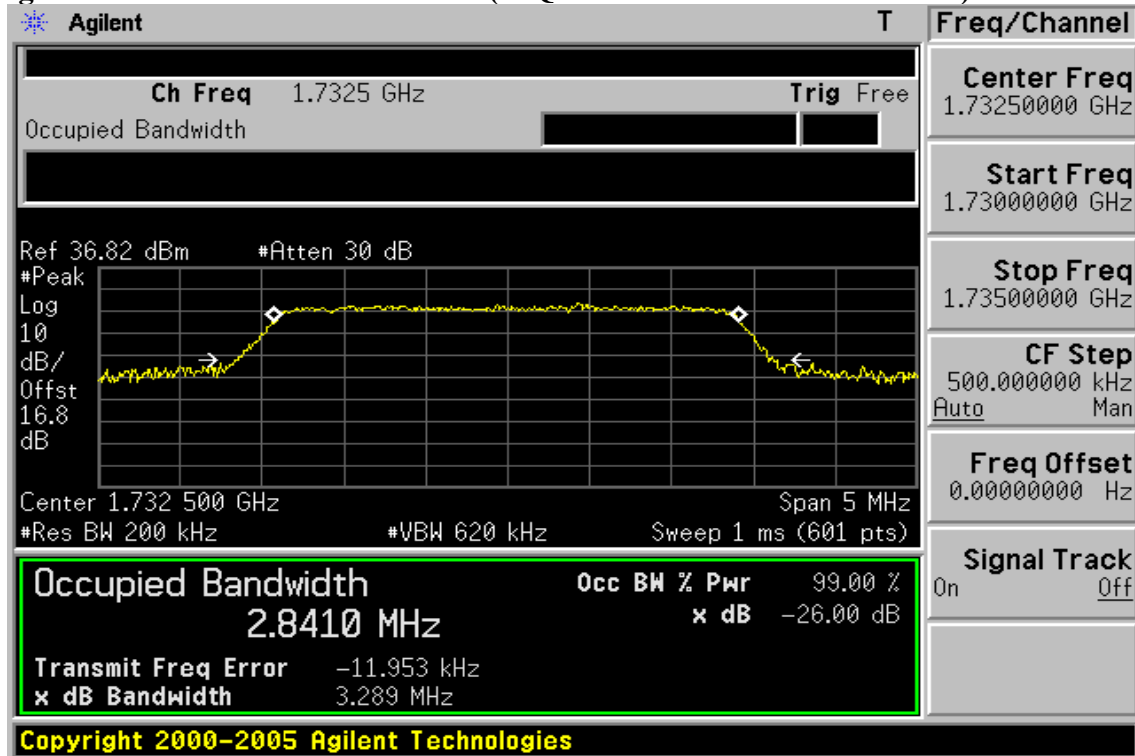


Figure 9-38: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Mid



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Figure 9-39: 3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel High

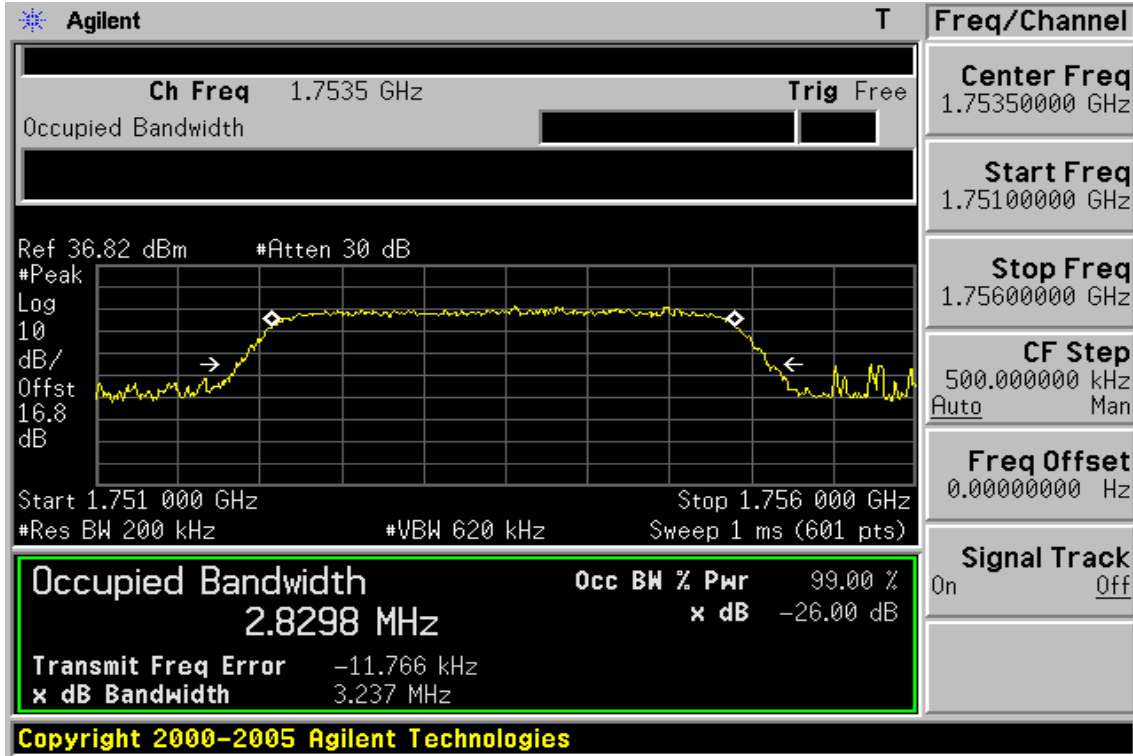
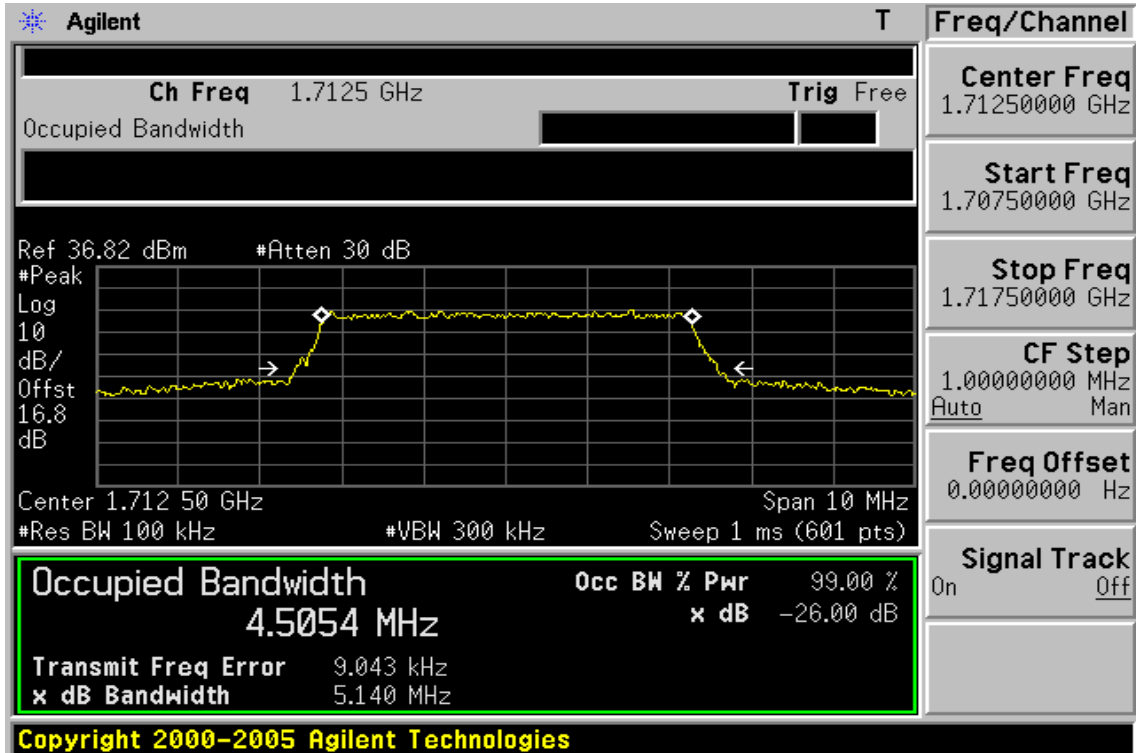


Figure 9-40: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Low



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Figure 9-41: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Mid

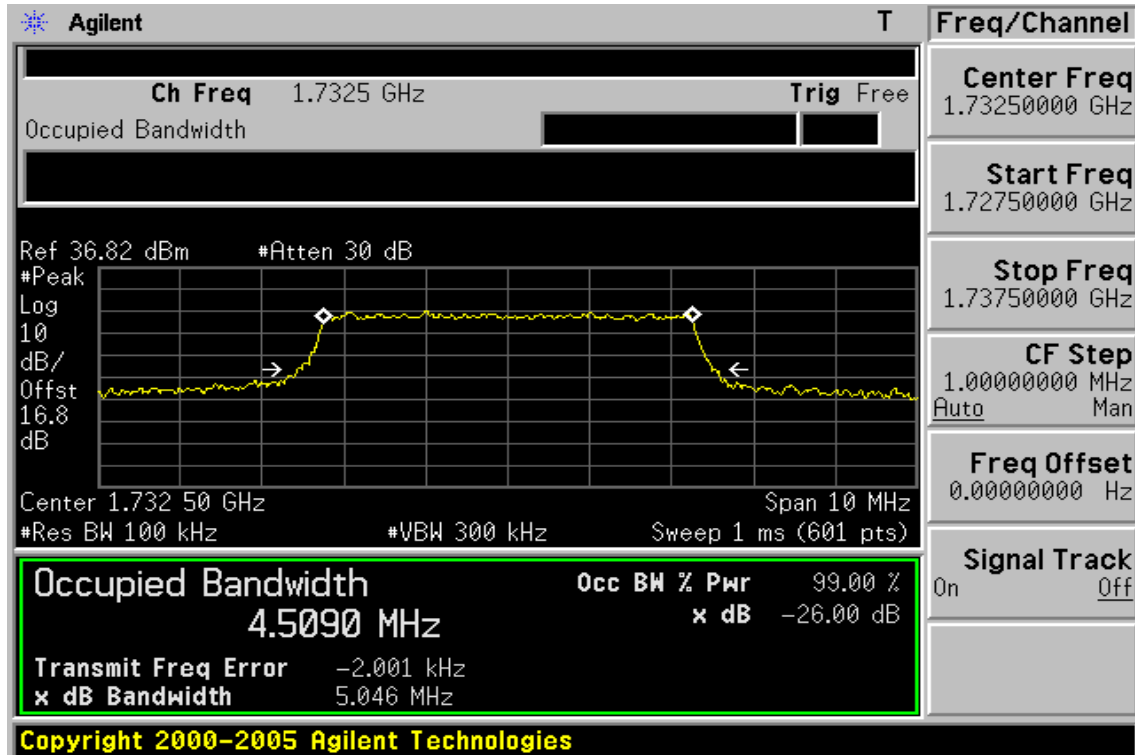
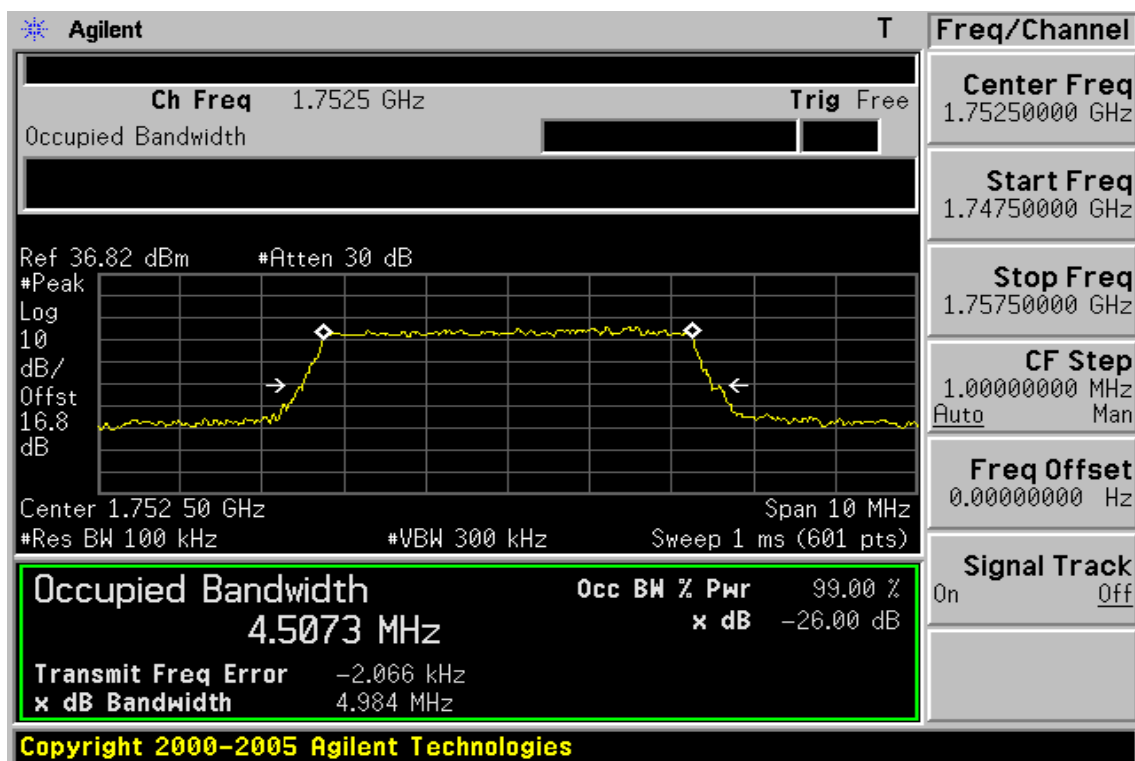


Figure 9-42: 5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel High



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Figure 9-43: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Low

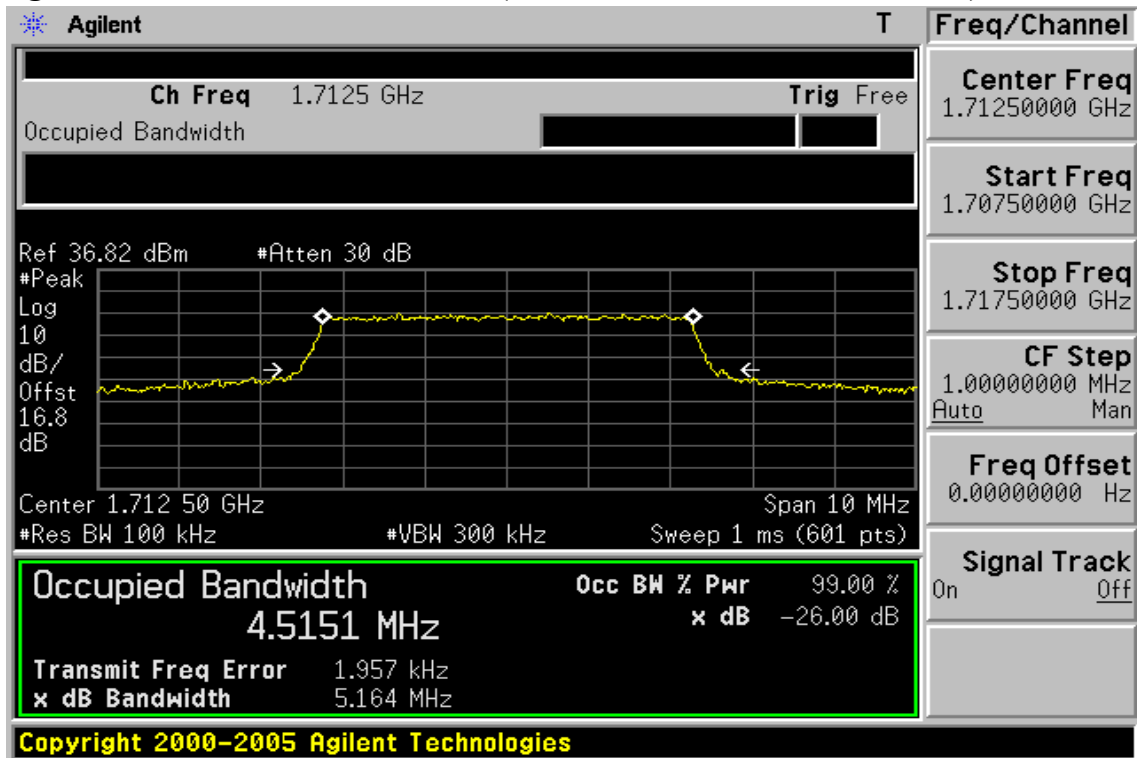
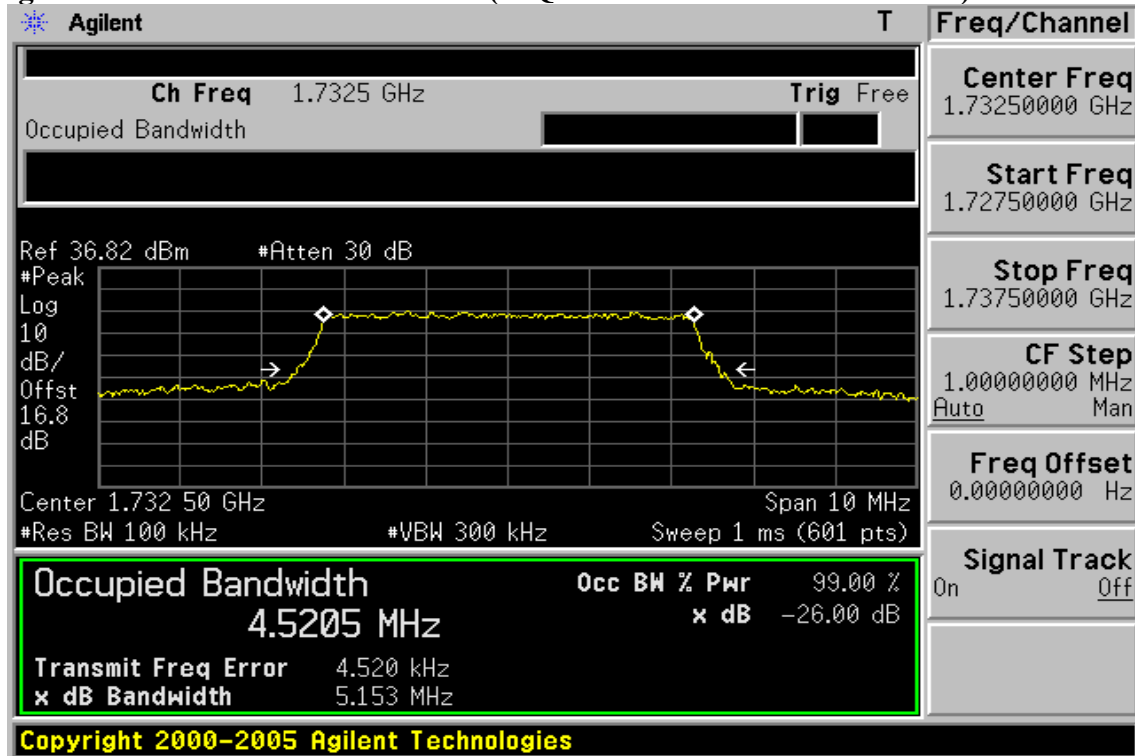


Figure 9-44: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Mid



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Figure 9-45: 5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel High

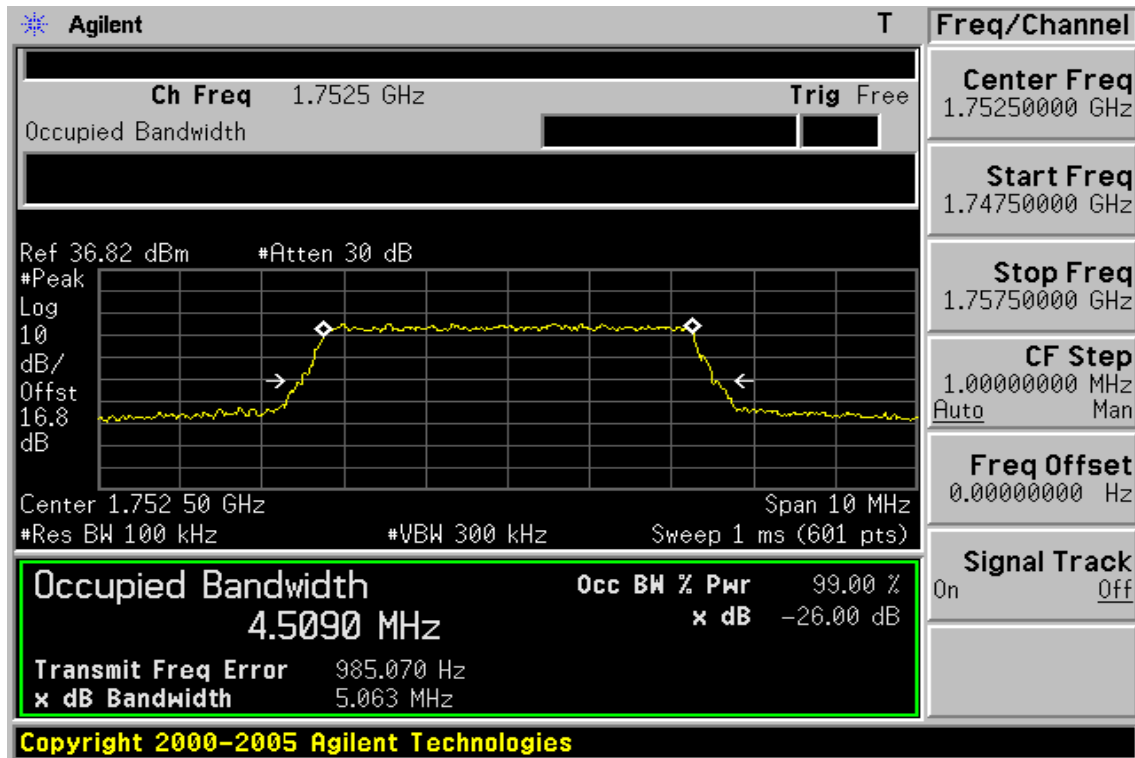
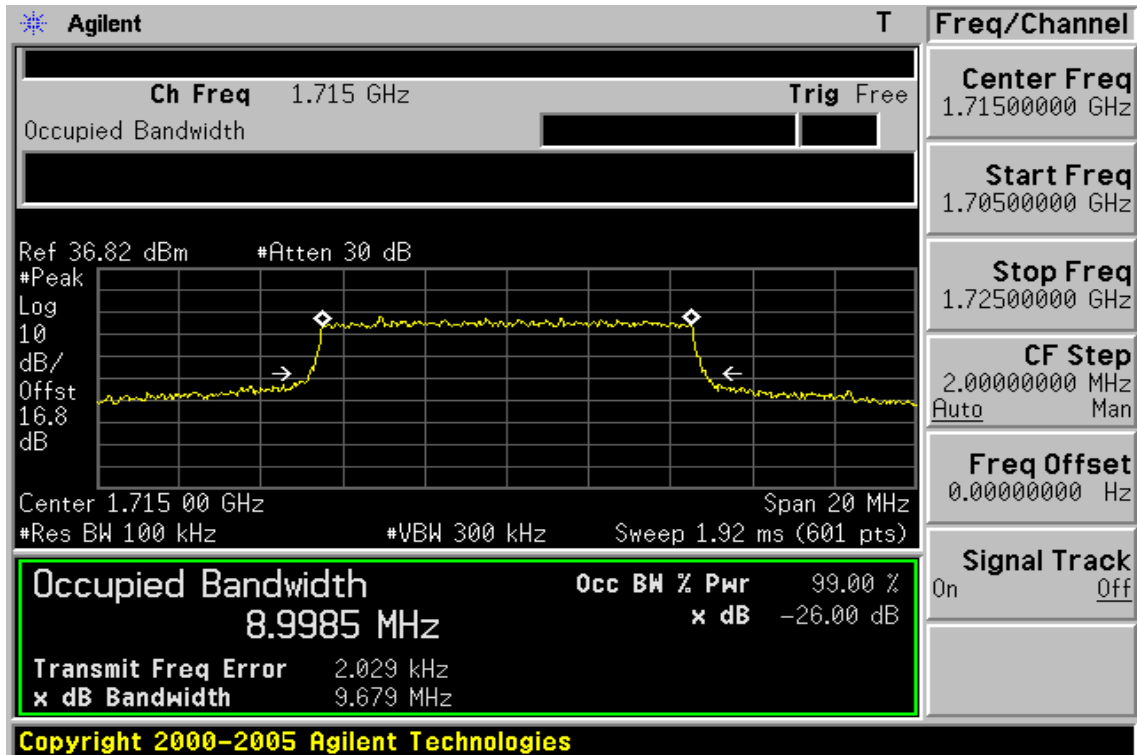


Figure 9-46: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Low



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Figure 9-47: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Mid

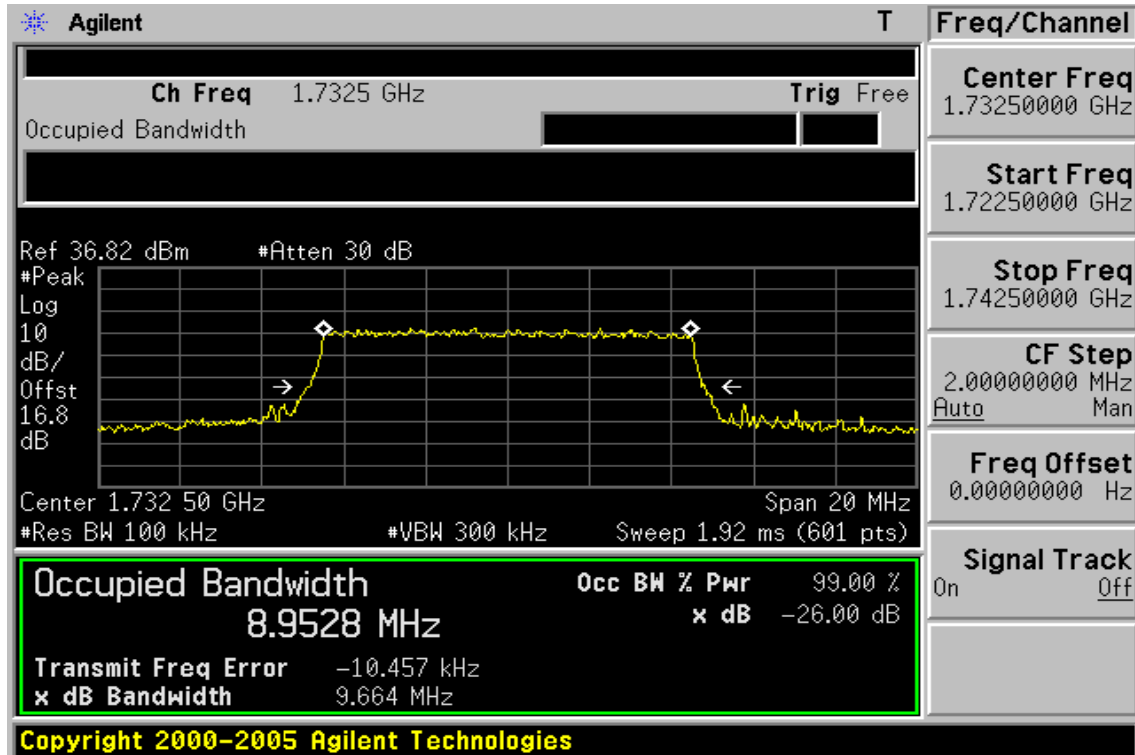
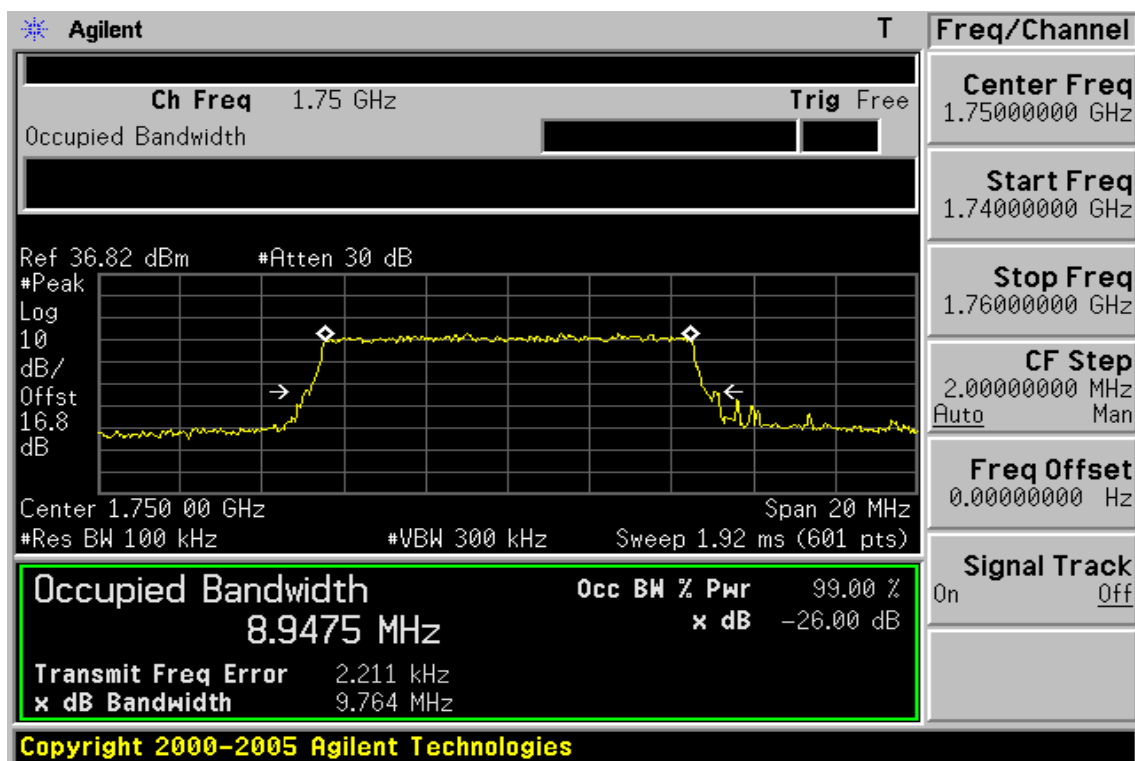


Figure 9-48: 10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel High



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Figure 9-49: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Low

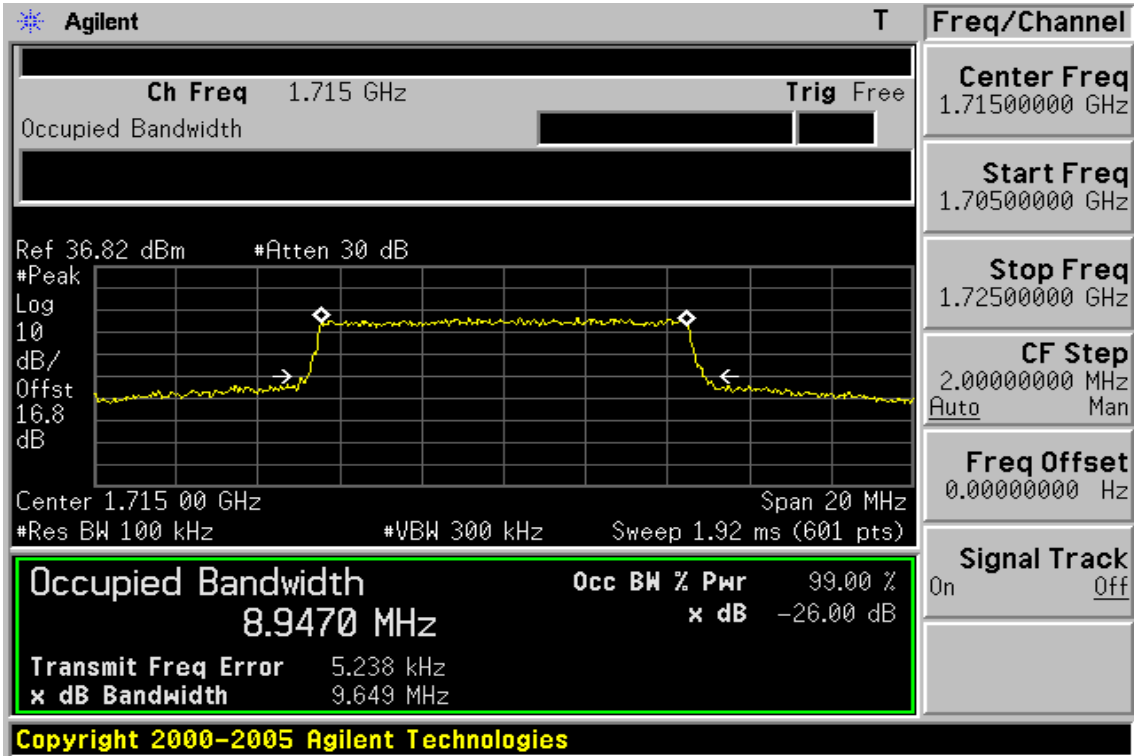
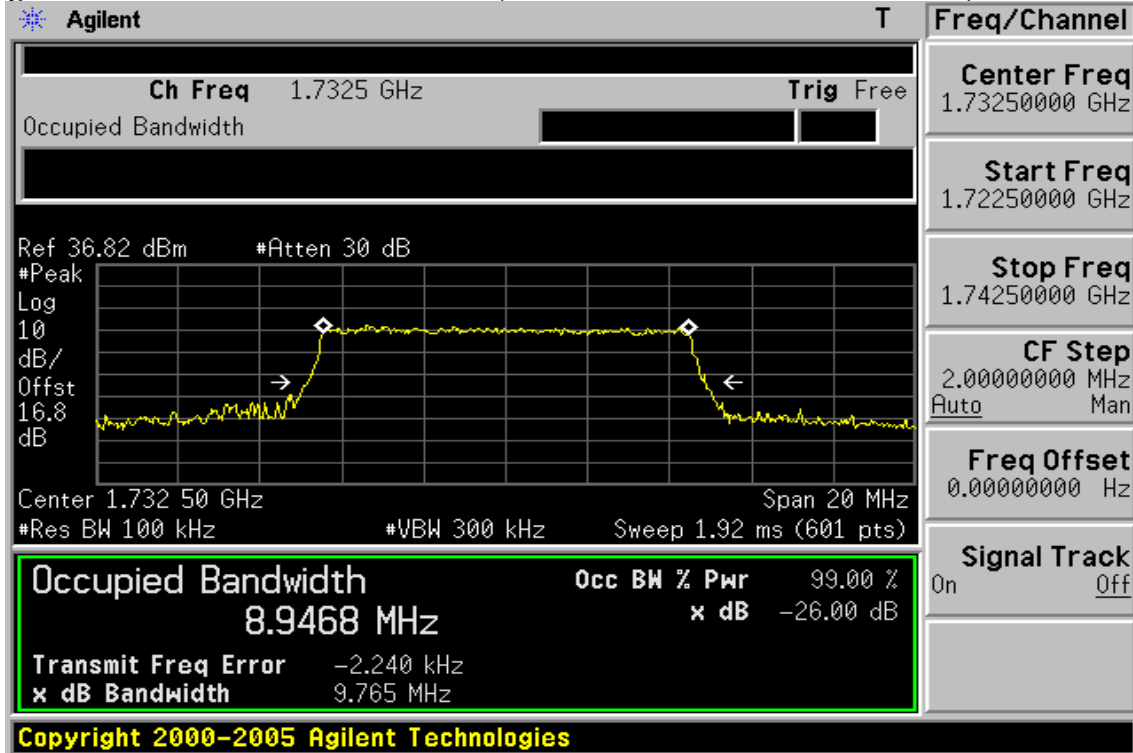


Figure 9-50: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Mid



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Figure 9-51: 10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel High

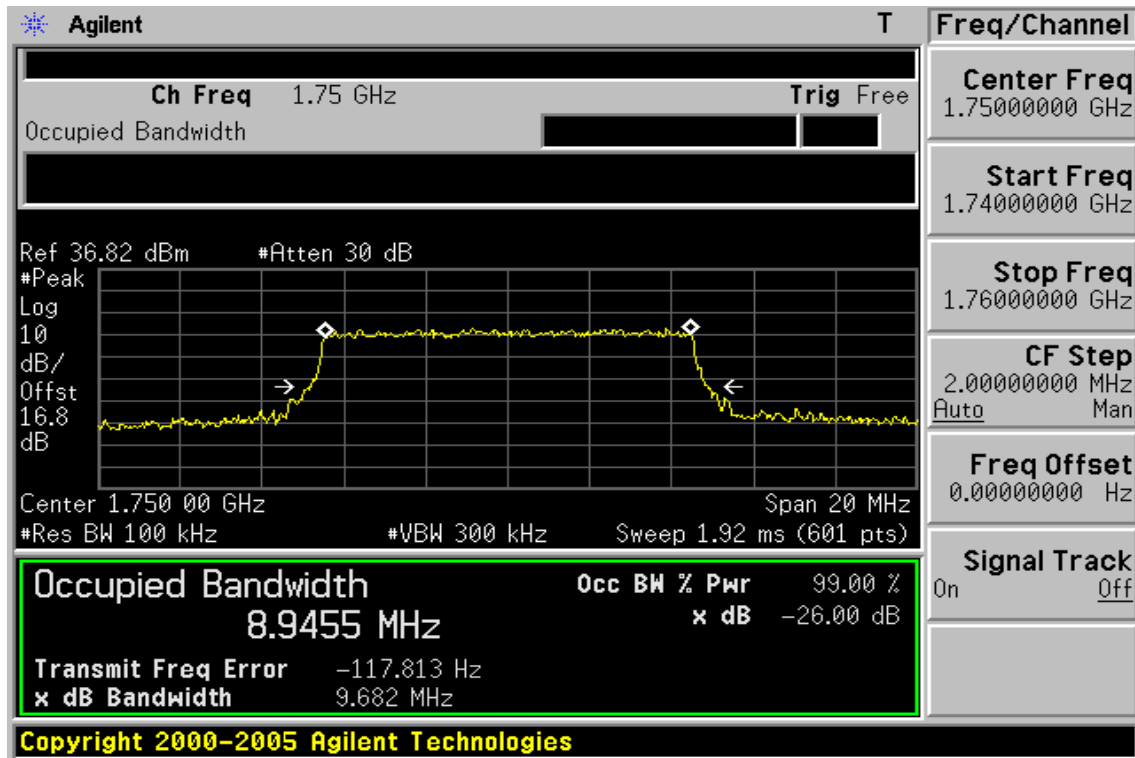
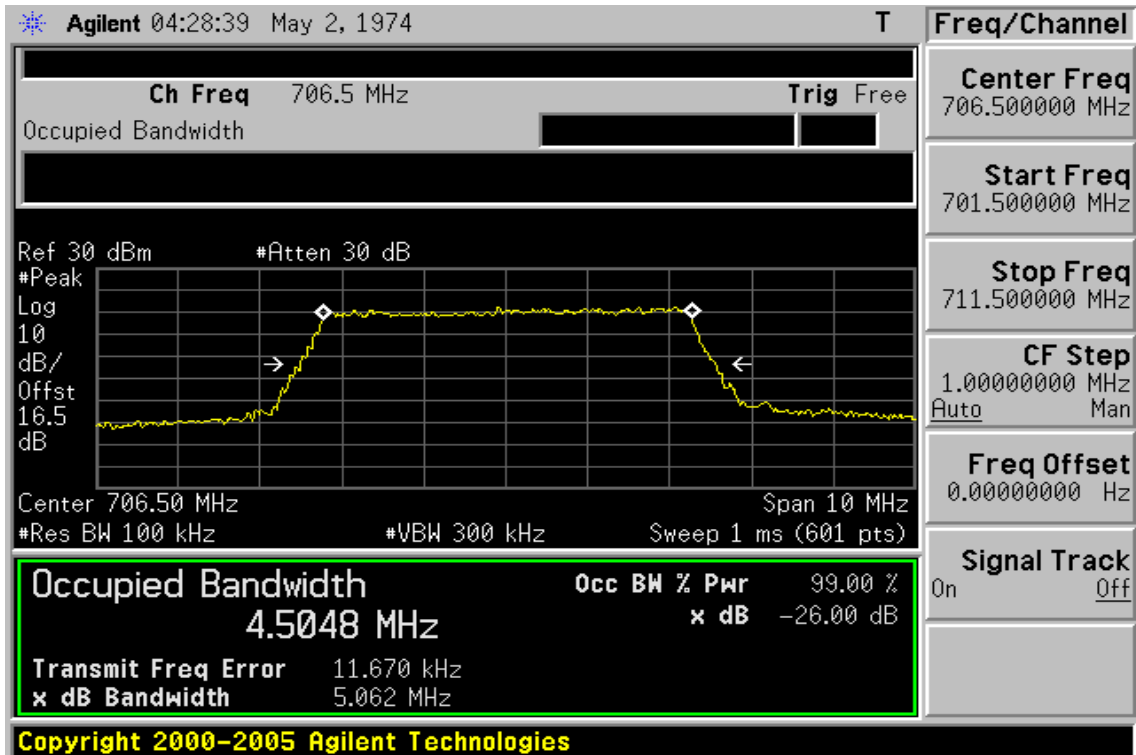


Figure 9-52: 5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel Low



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Figure 9-53: 5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel Mid

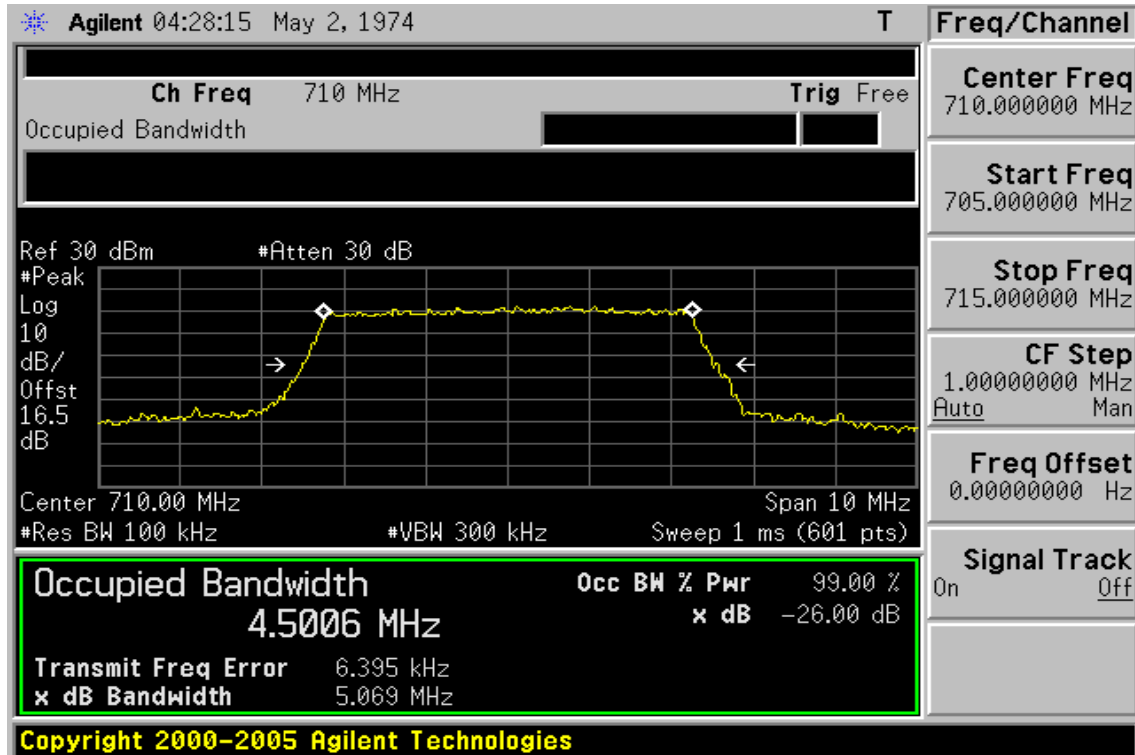
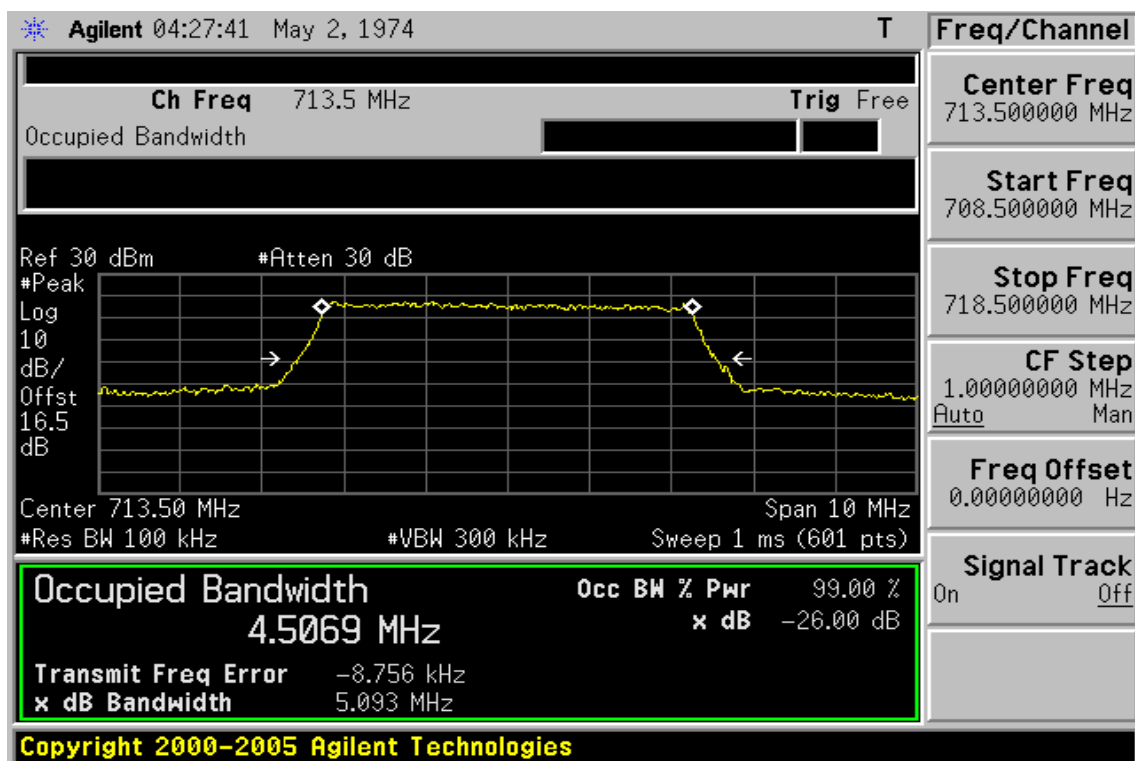


Figure 9-54: 5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel High



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Figure 9-55: 5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel Low

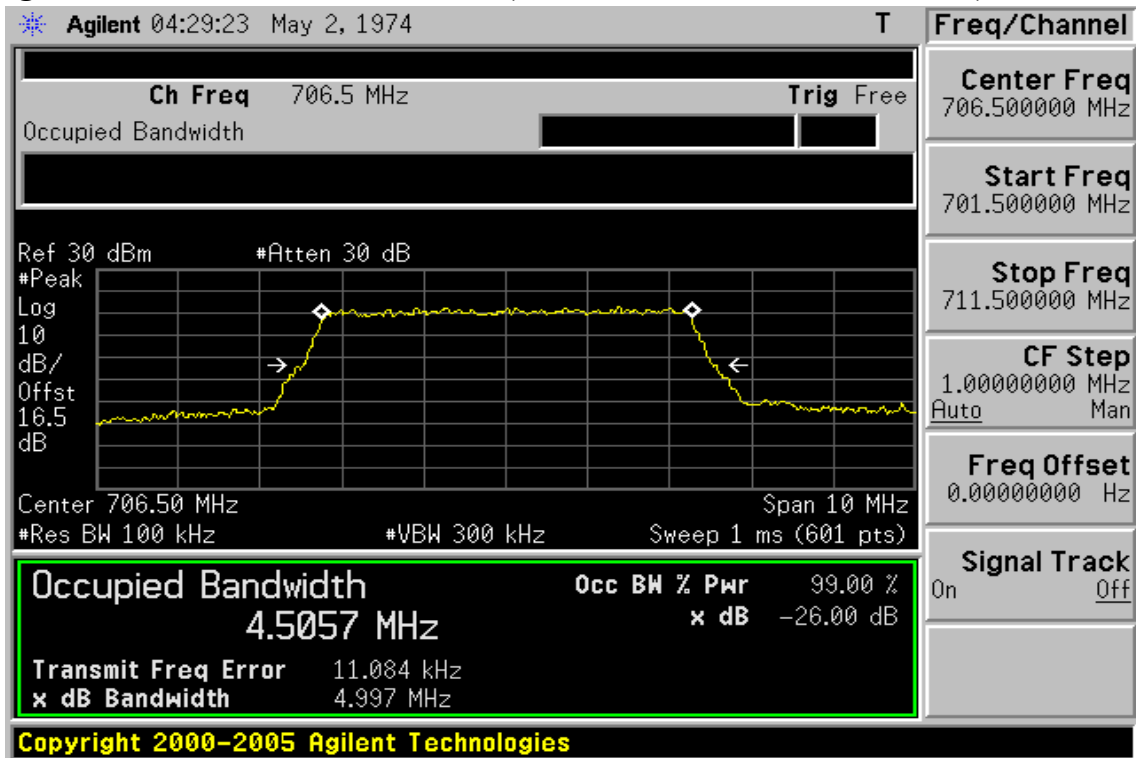
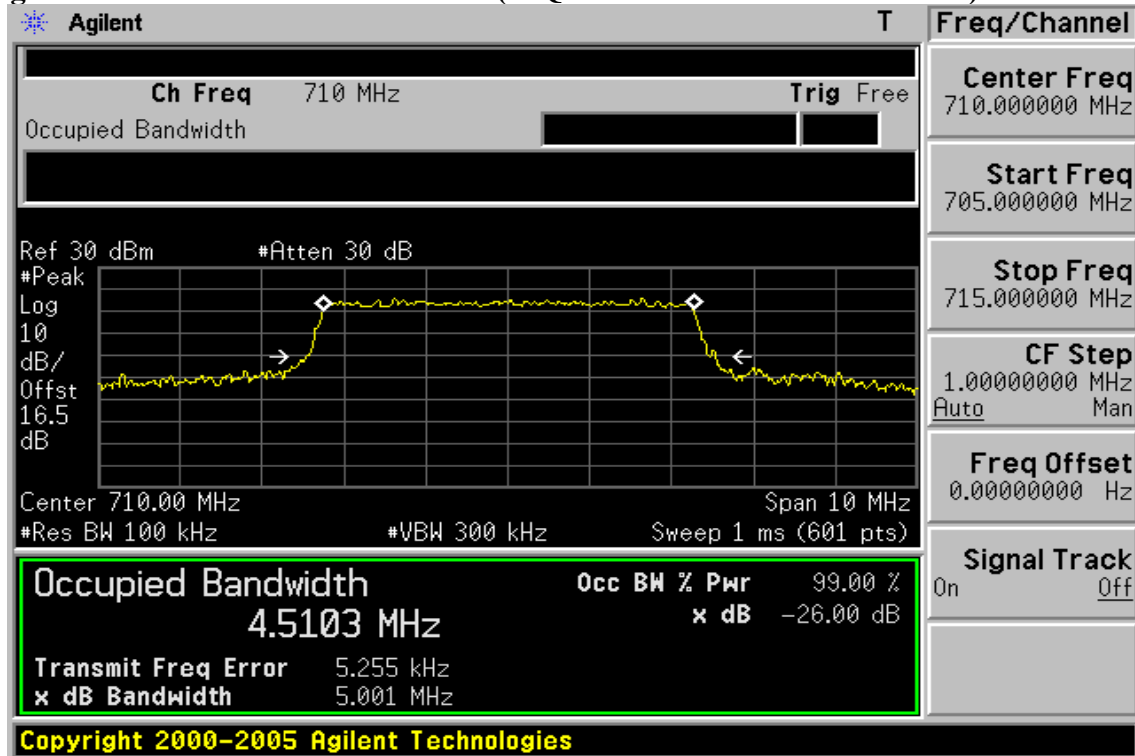


Figure 9-56: 5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel Mid



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Figure 9-57: 5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel High

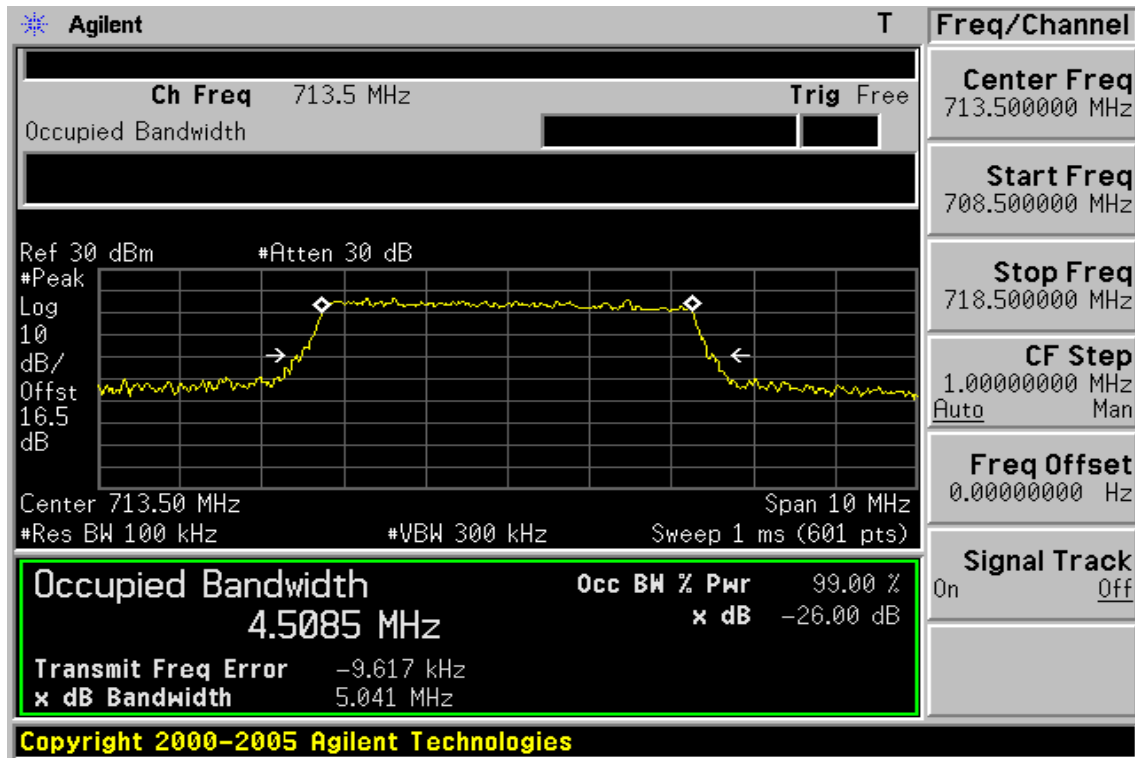
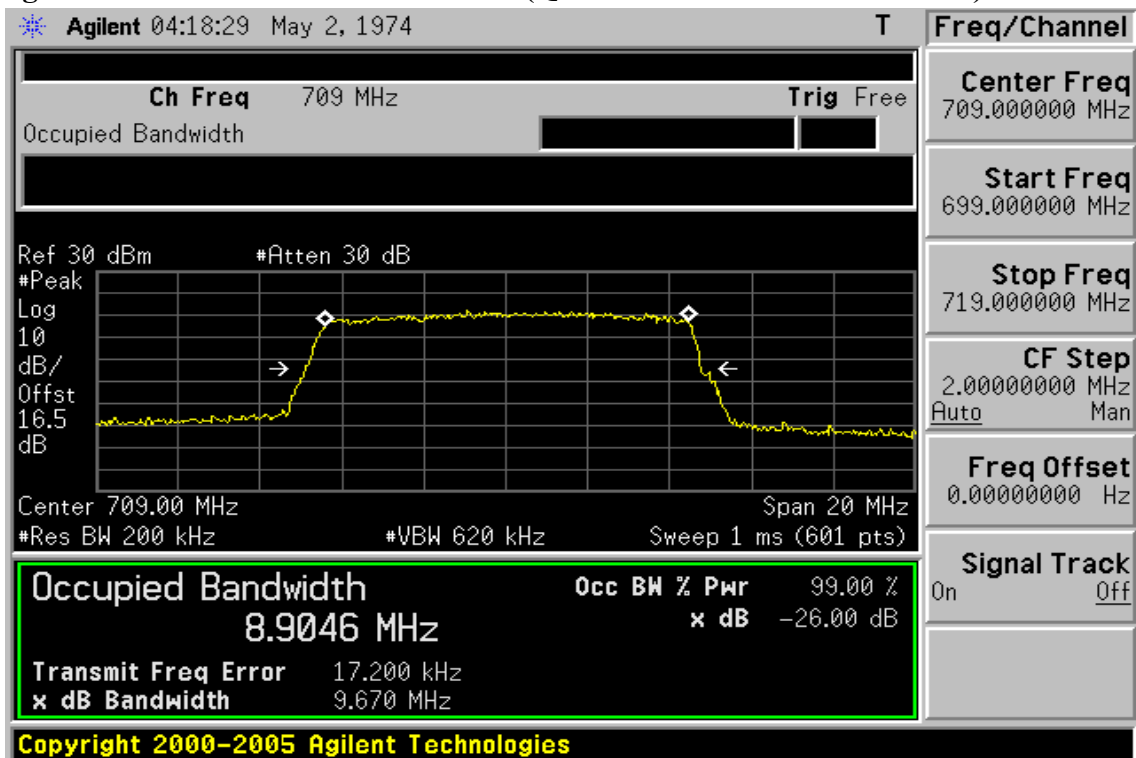


Figure 9-58: 10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel Low



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Figure 9-59: 10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel Mid

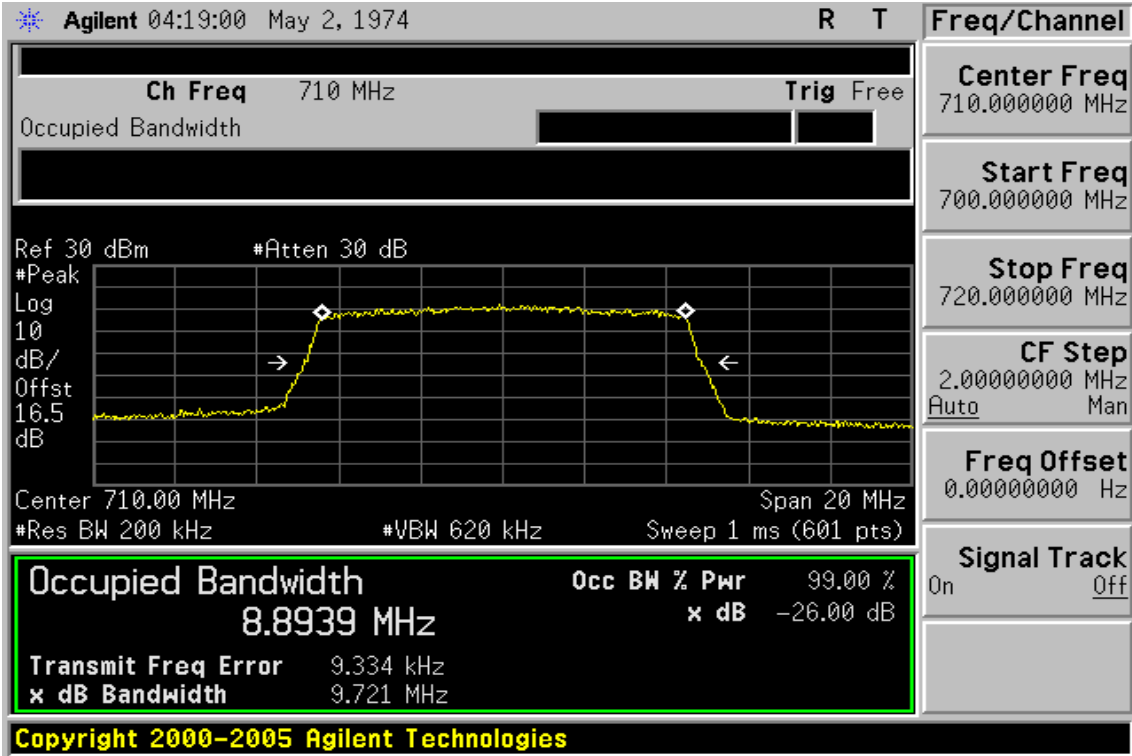
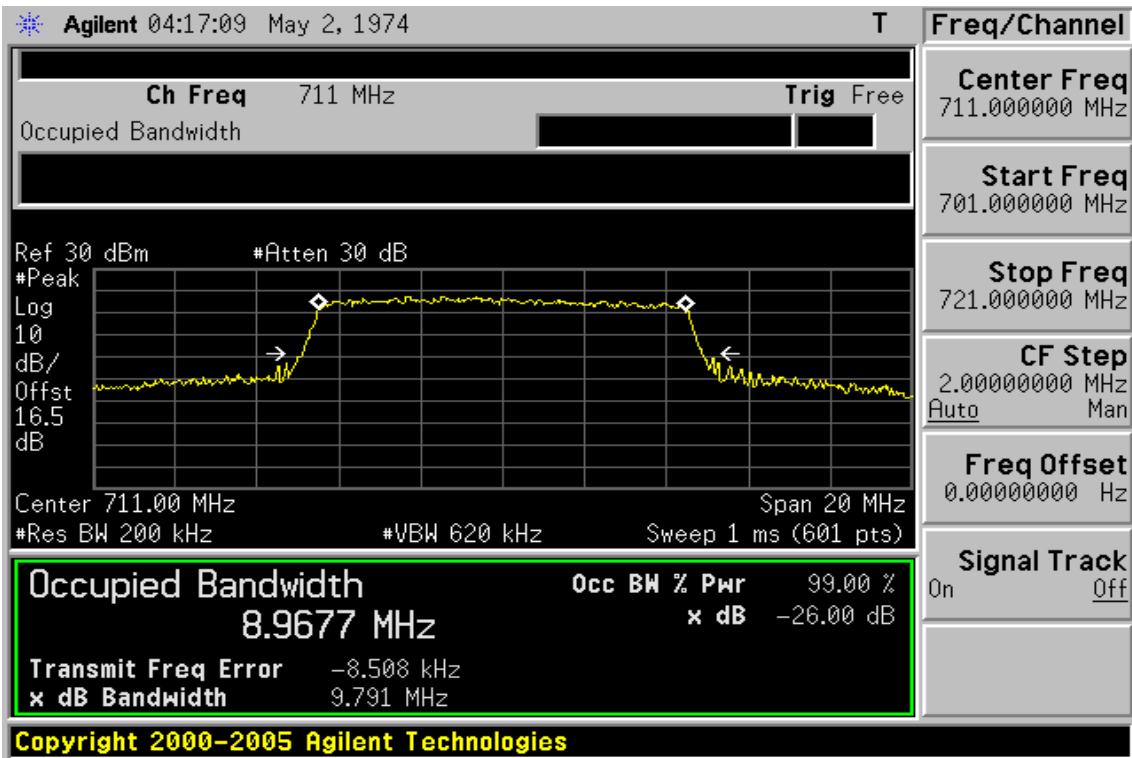


Figure 9-60: 10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel High



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Figure 9-61: 10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel Low

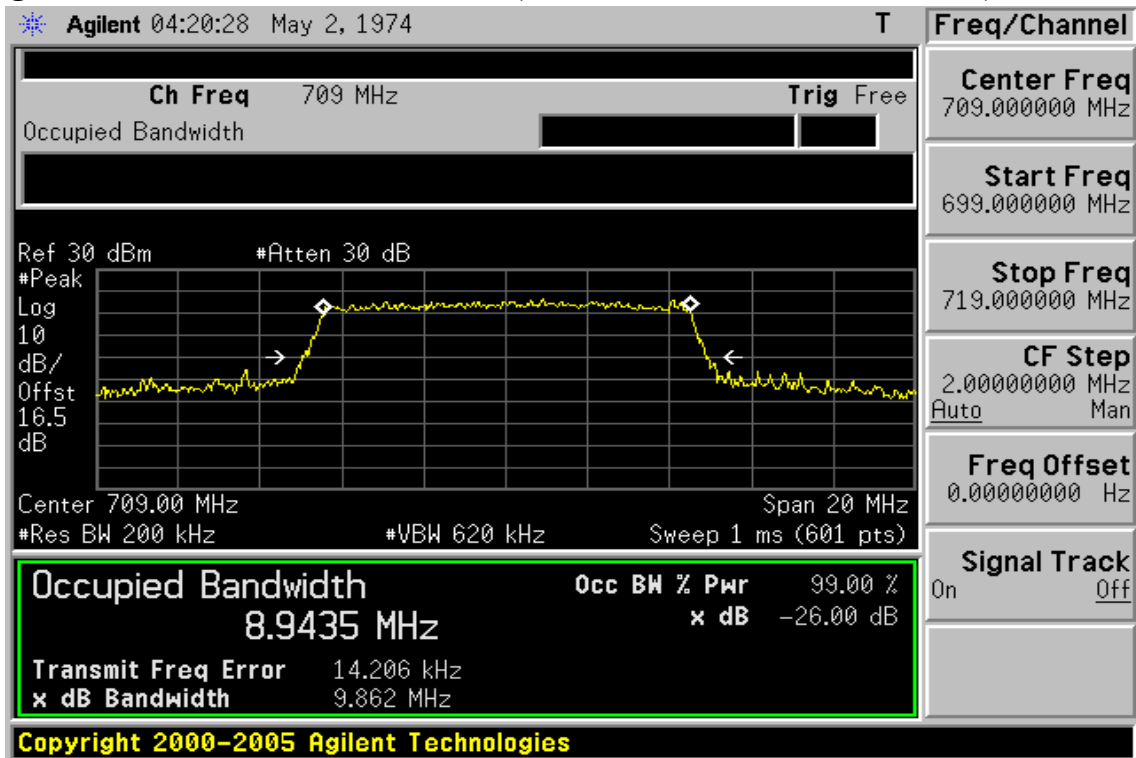
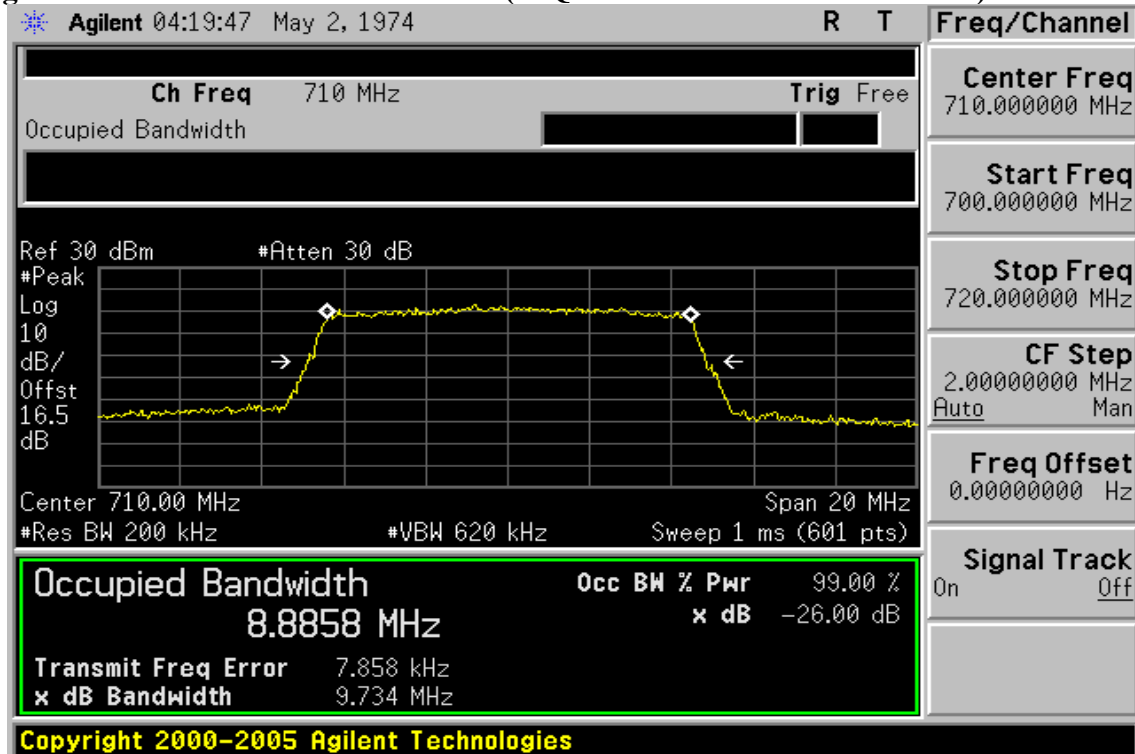


Figure 9-62: 10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel Mid

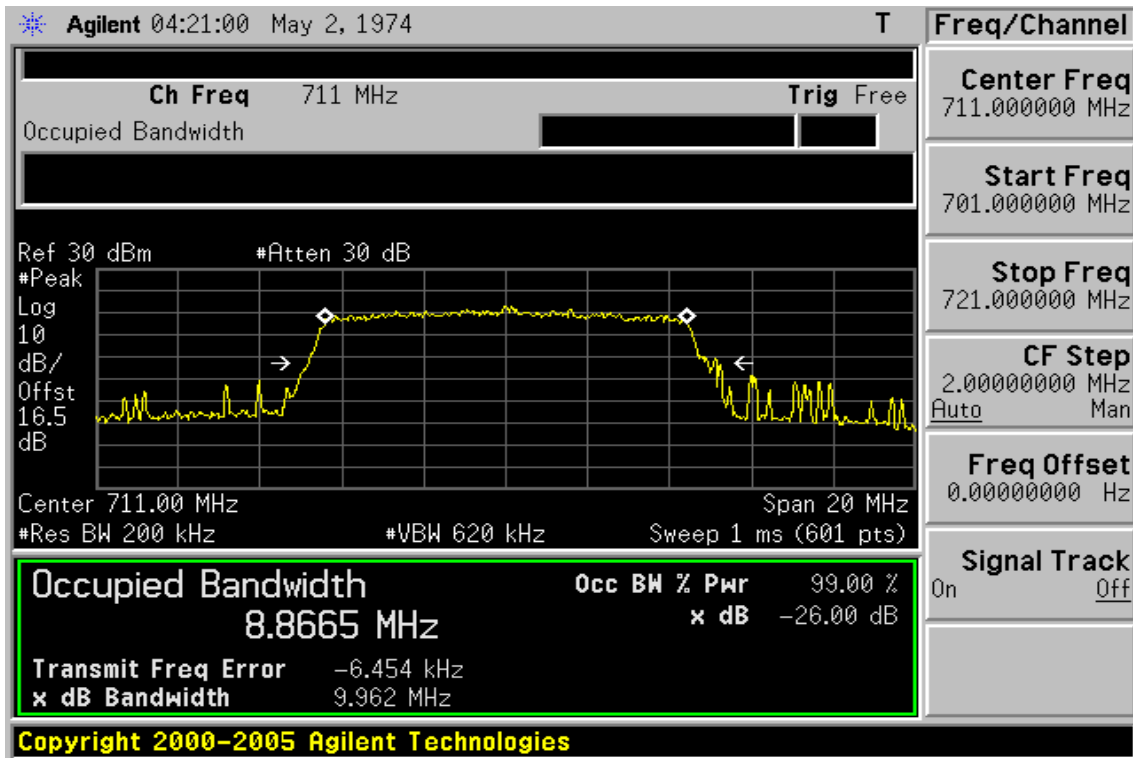


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Figure 9-63: 10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel High



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10. OUT OF BAND EMISSION AT ANTENNA TERMINALS

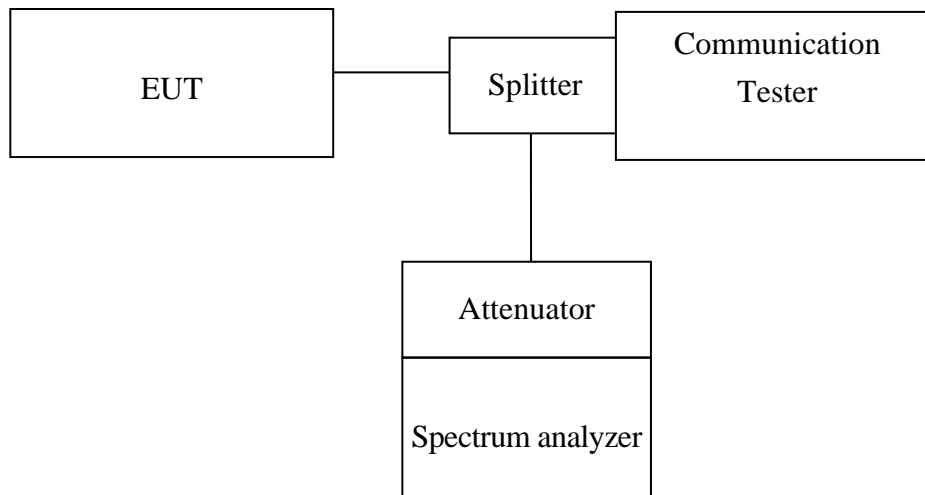
10.1. Standard Applicable:

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), §27.53(e)(2) 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)

10.2. Test SET-UP:

Out of band emission /Band Edge



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10.3. 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= 10th 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.

For operations in the 698–746 MHz band, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. 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

10.4. Measurement Equipment Used:

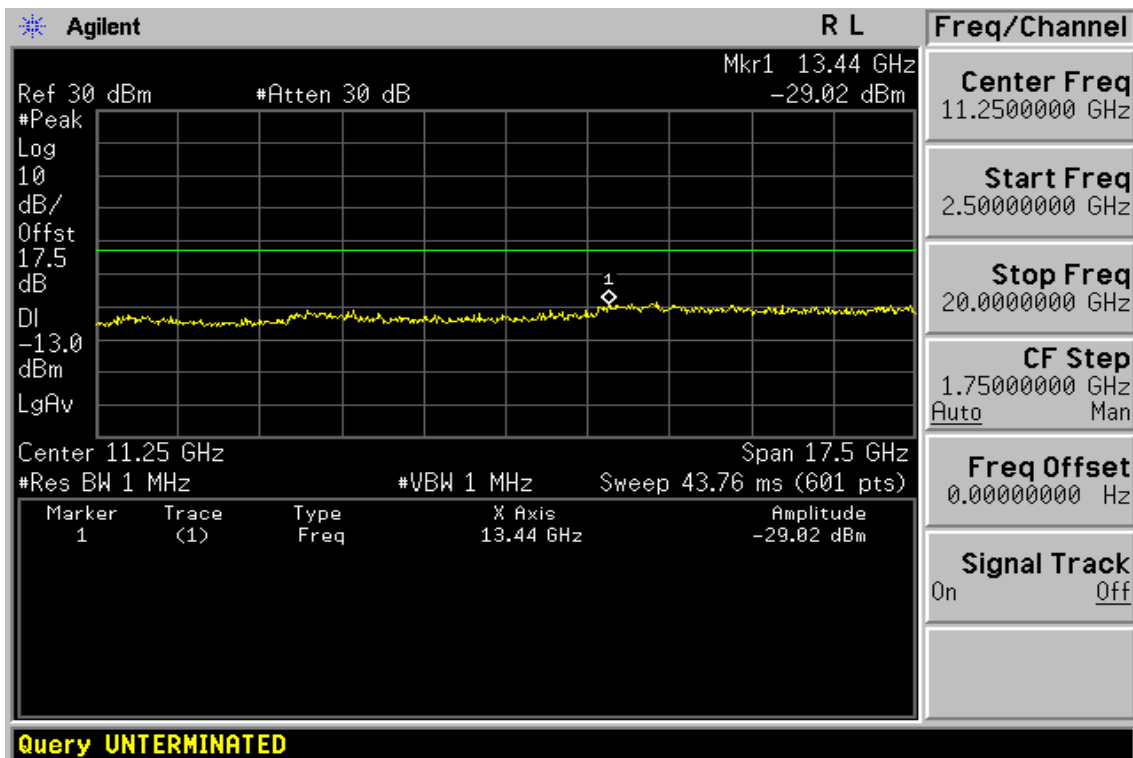
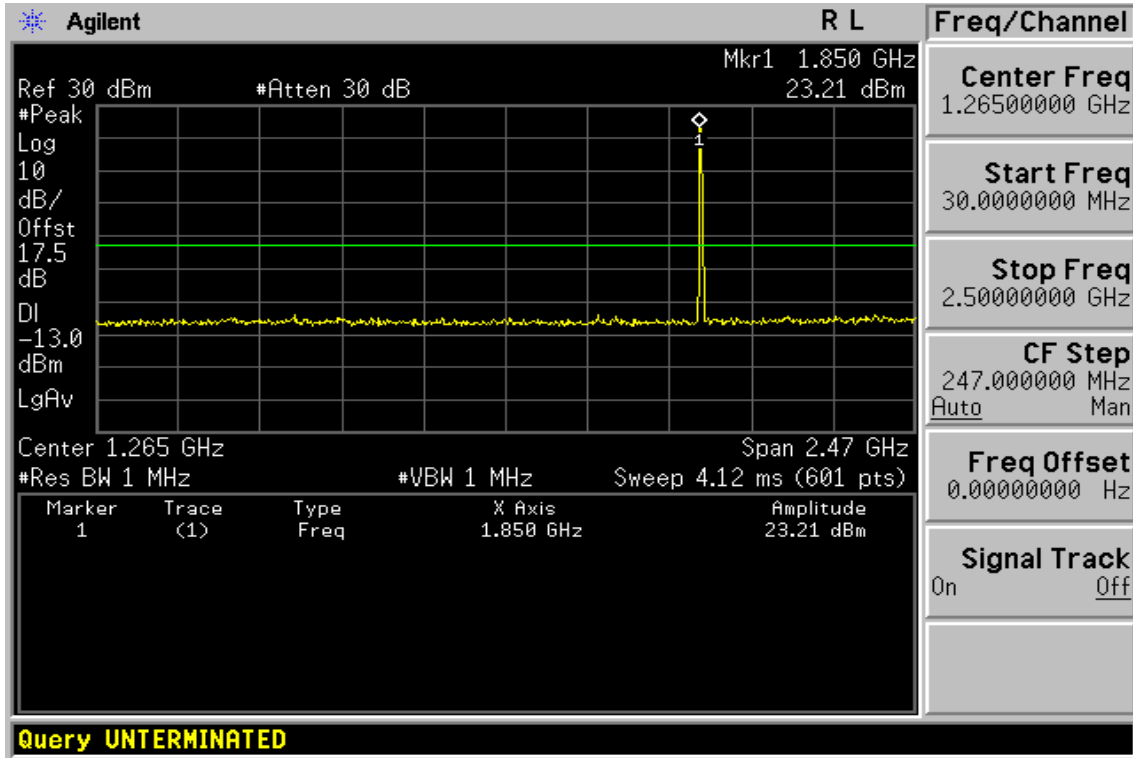
Refer to section 2.4 in this report

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10.5. Measurement Result:

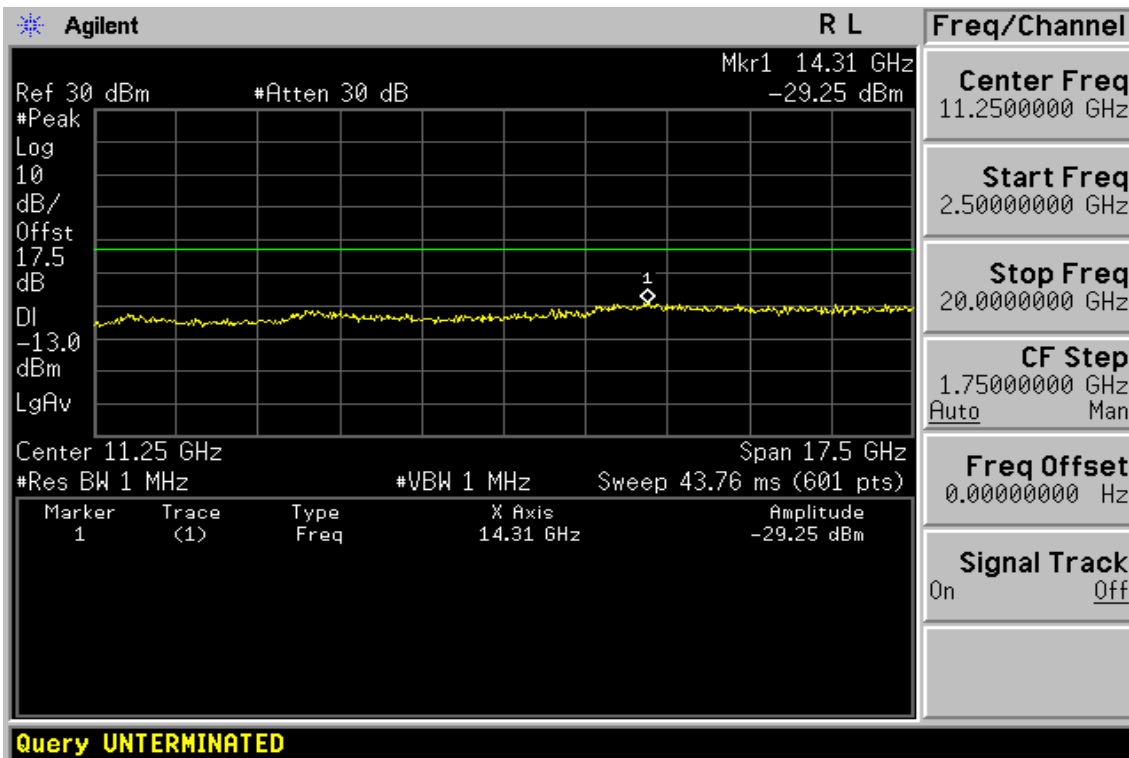
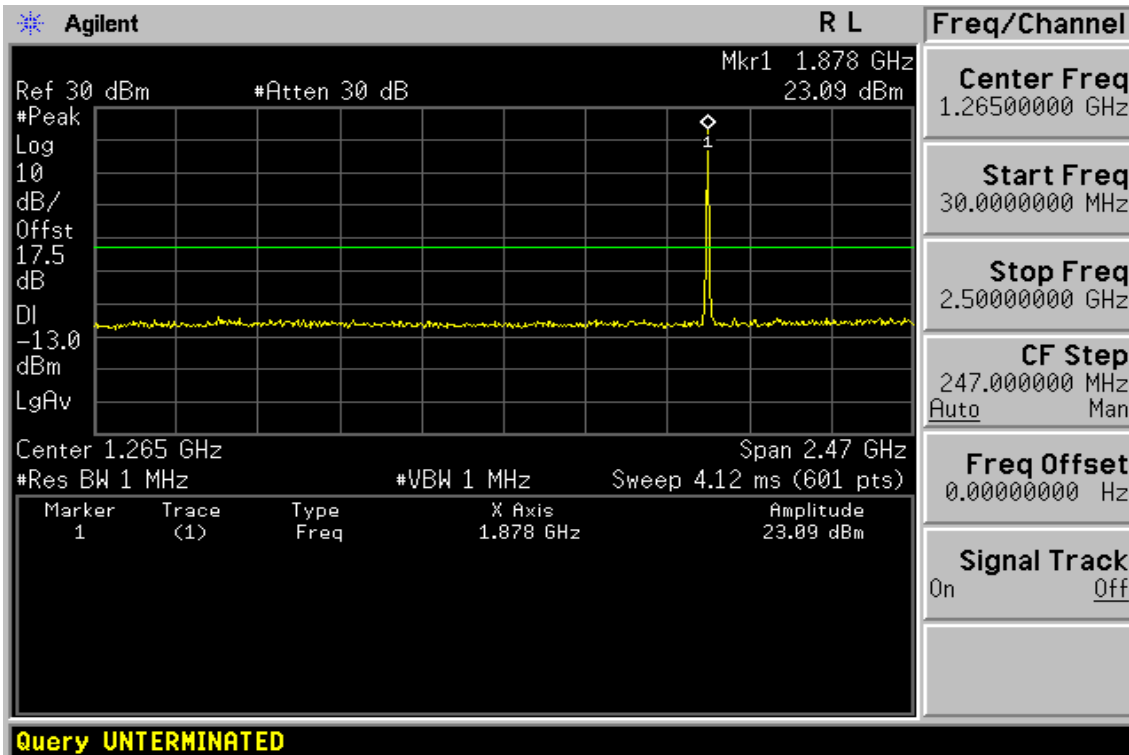
Figure 10-1: Out of Band emission at antenna terminals–WCDMA Band II Channel Lowest



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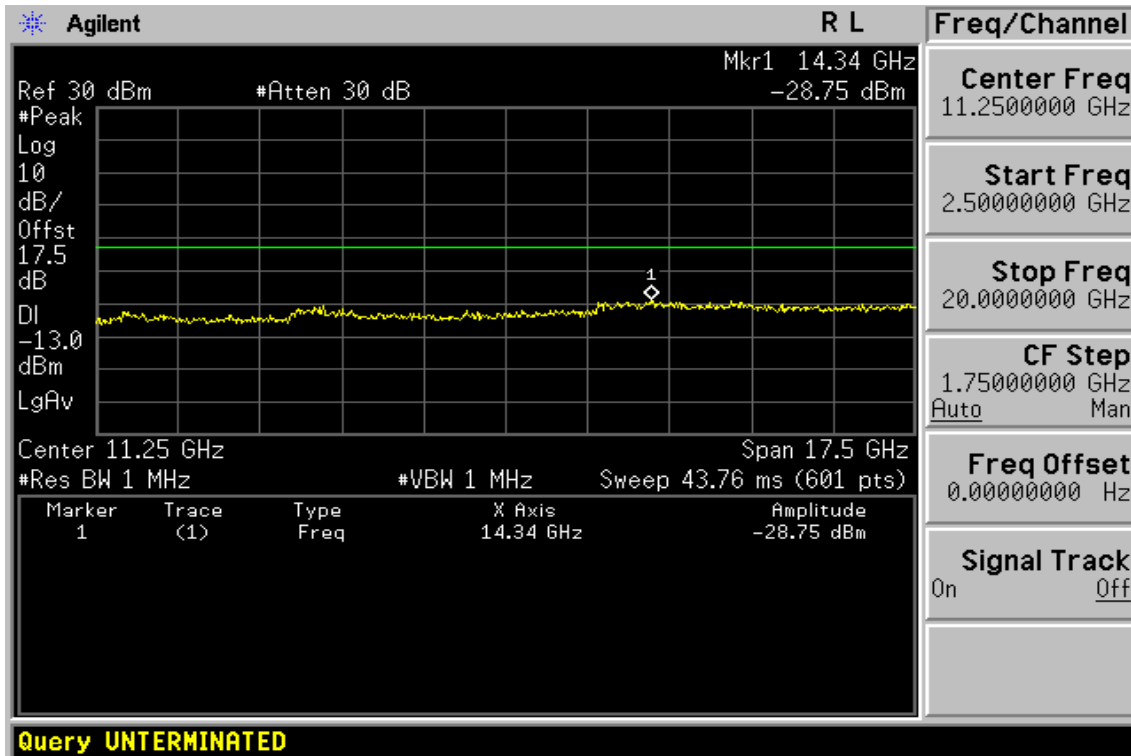
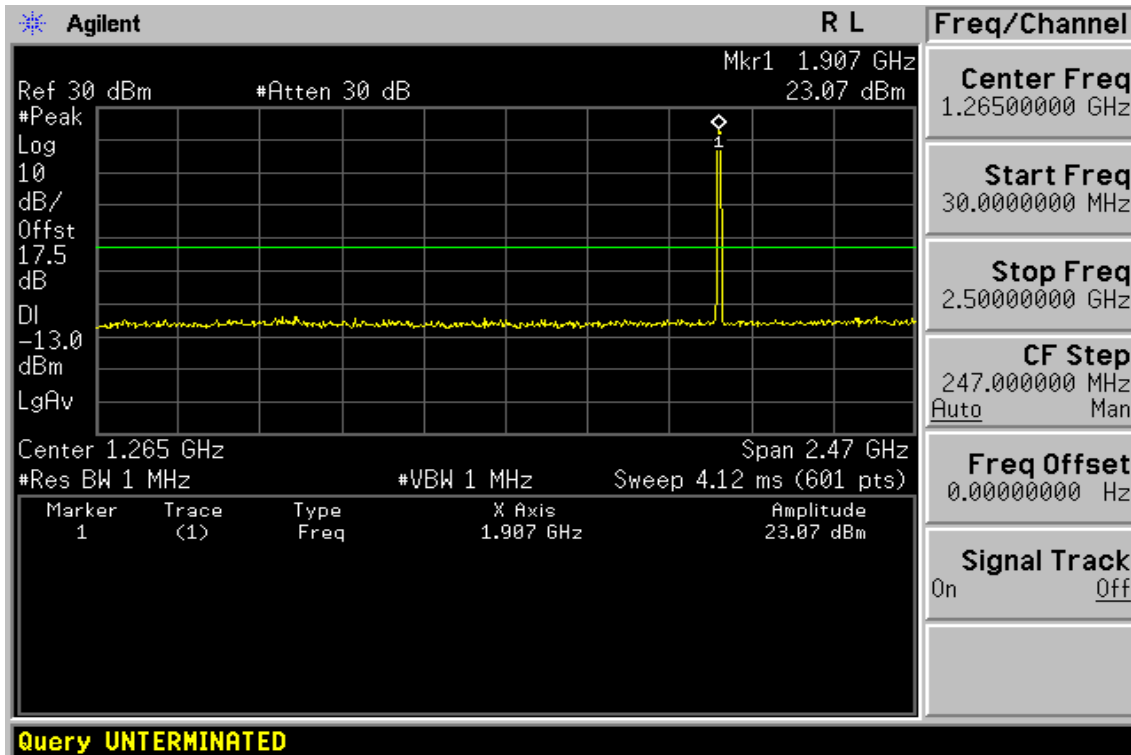
Figure 10-2: Out of Band emission at antenna terminals –WCDMA Band II Channel Mid



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Figure 10-3: Out of Band emission at antenna terminals–WCDMA Band II Channel Highest



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Figure 10-4: Band edge emission at antenna terminals –WCDMA Band II Channel Lowest

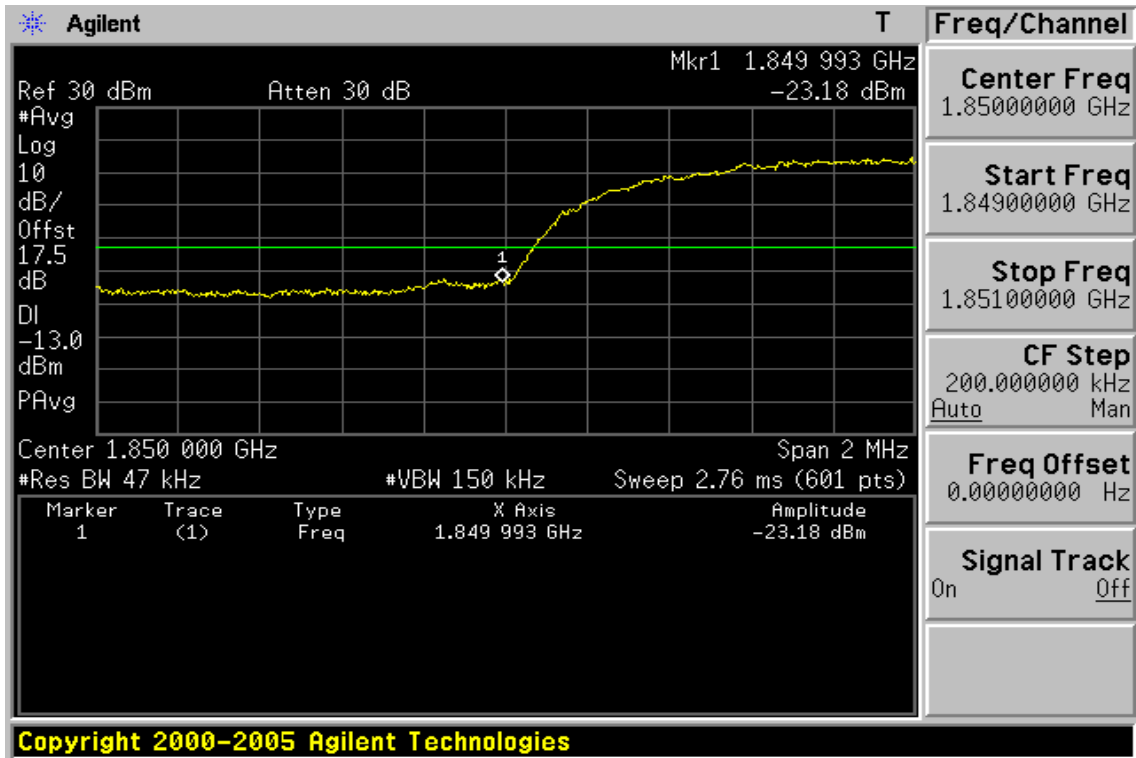
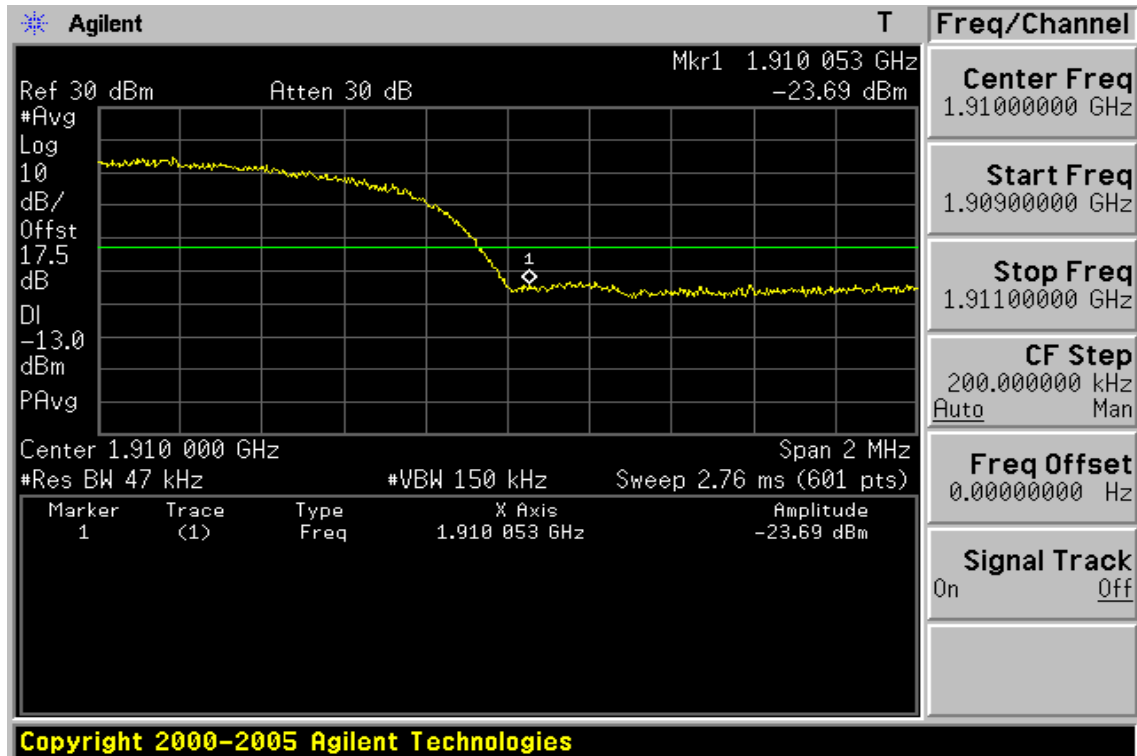


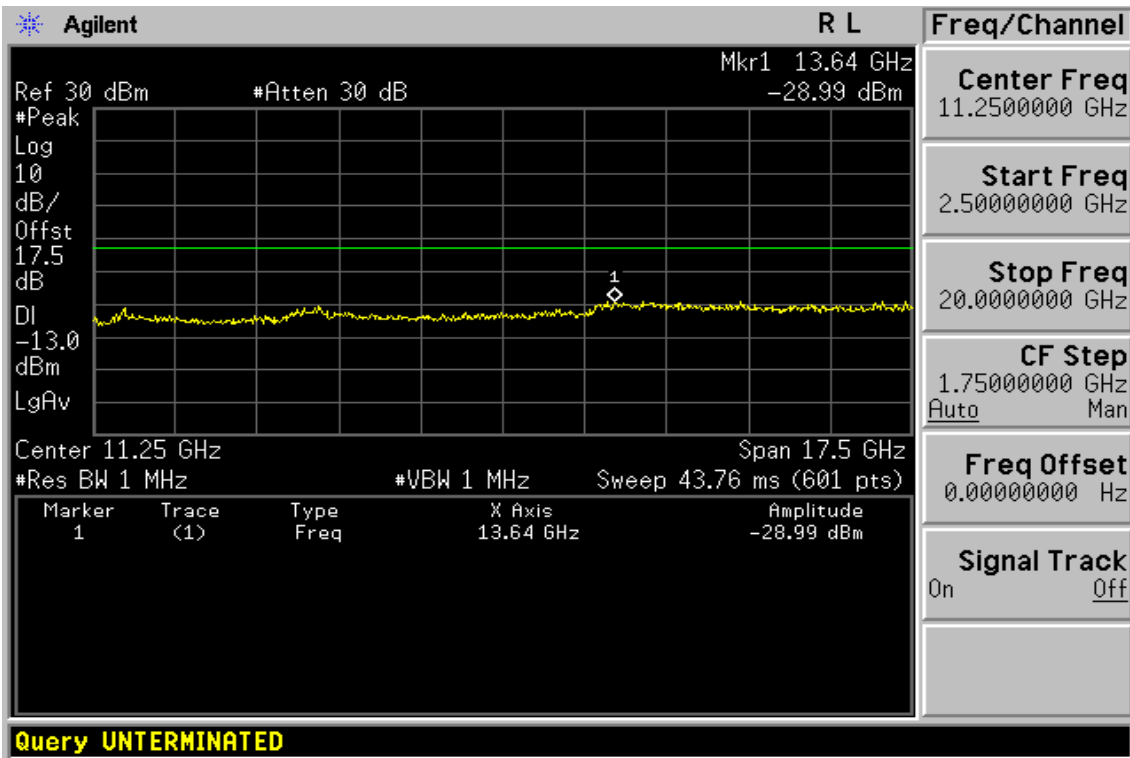
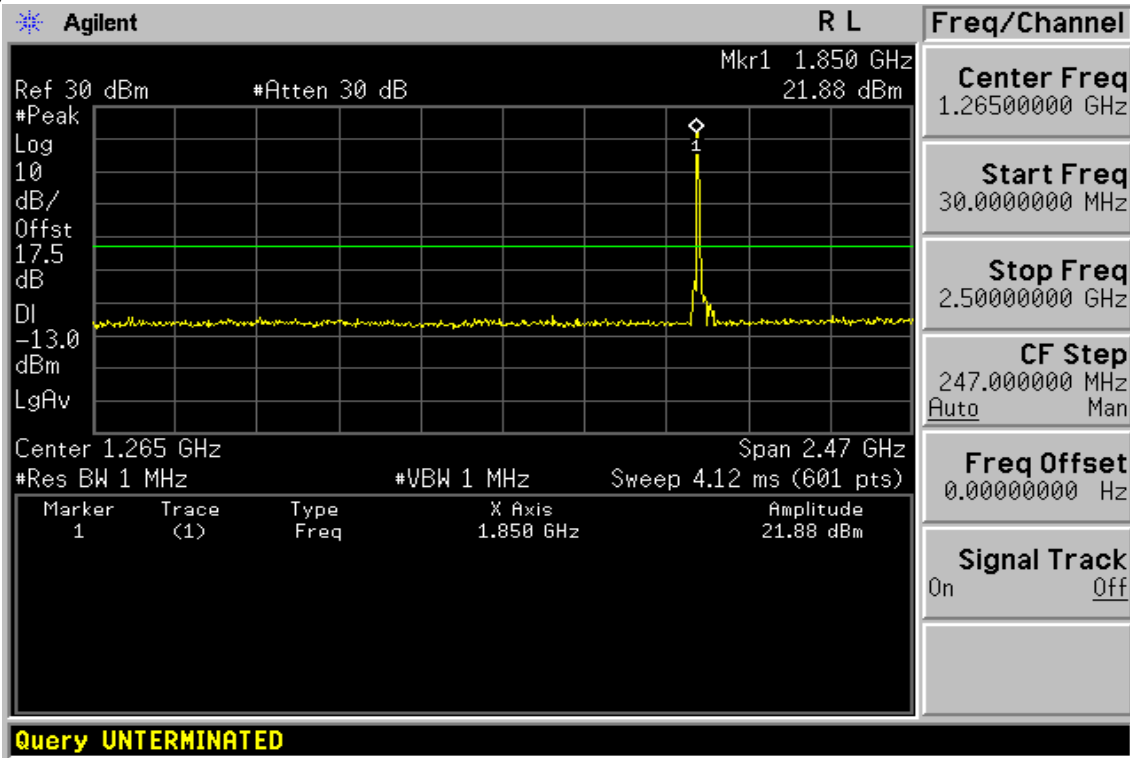
Figure 10-5: Band edge emission at antenna terminals –WCDMA Band II Channel Highest



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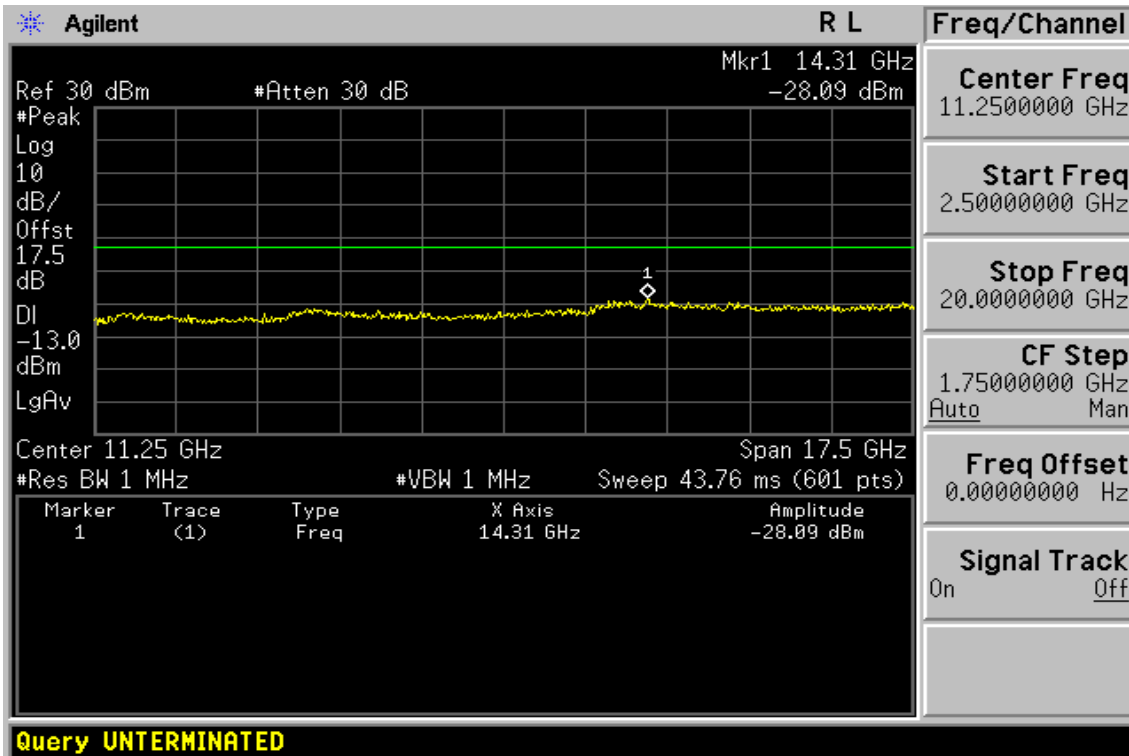
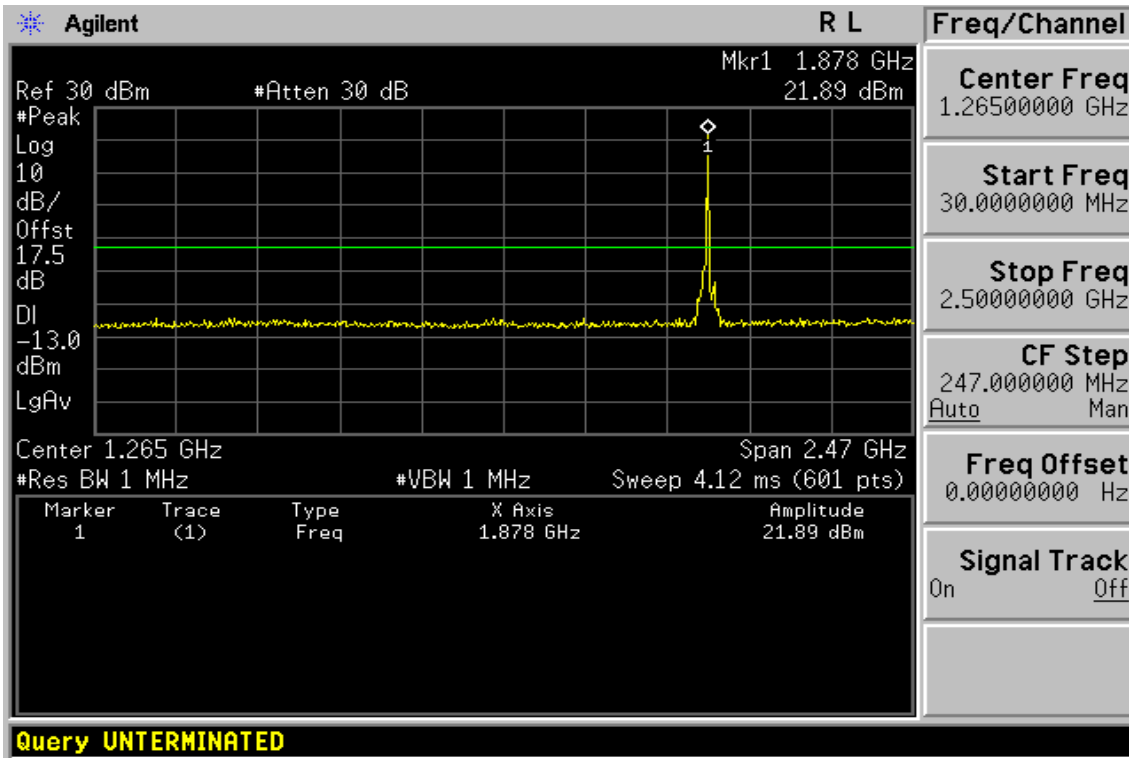
Figure 10-6: Out of Band emission at antenna terminals–HSUPA Band II Channel Lowest



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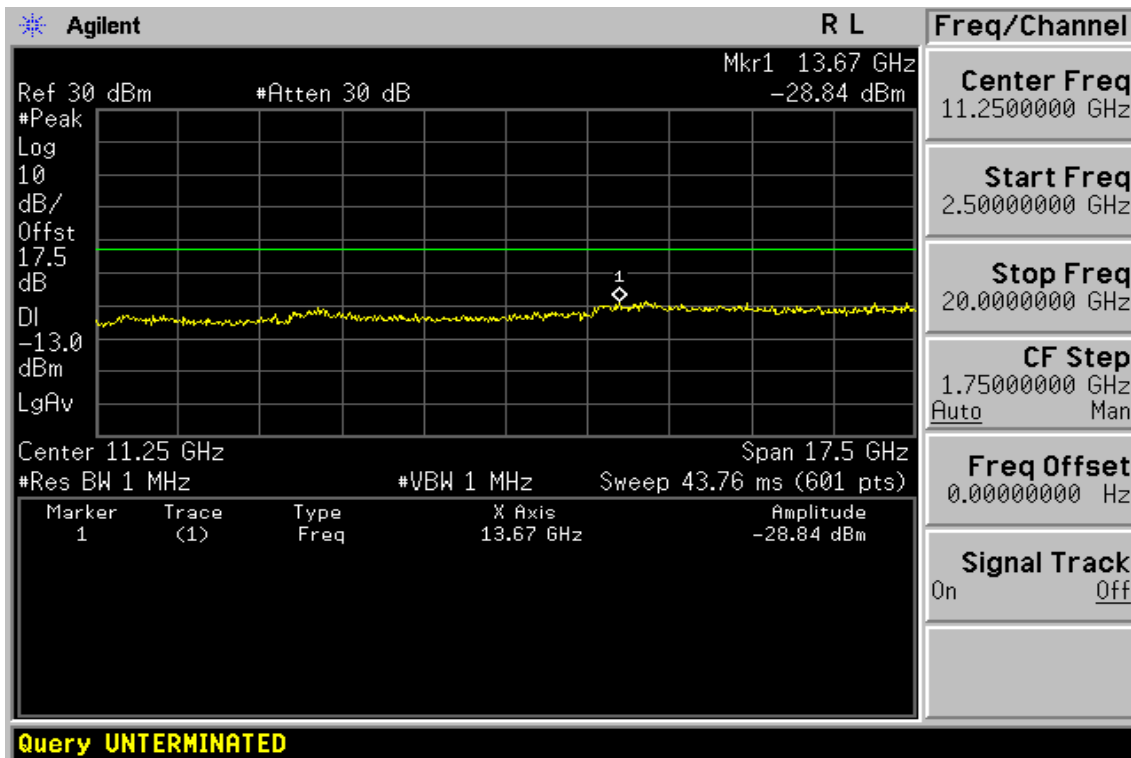
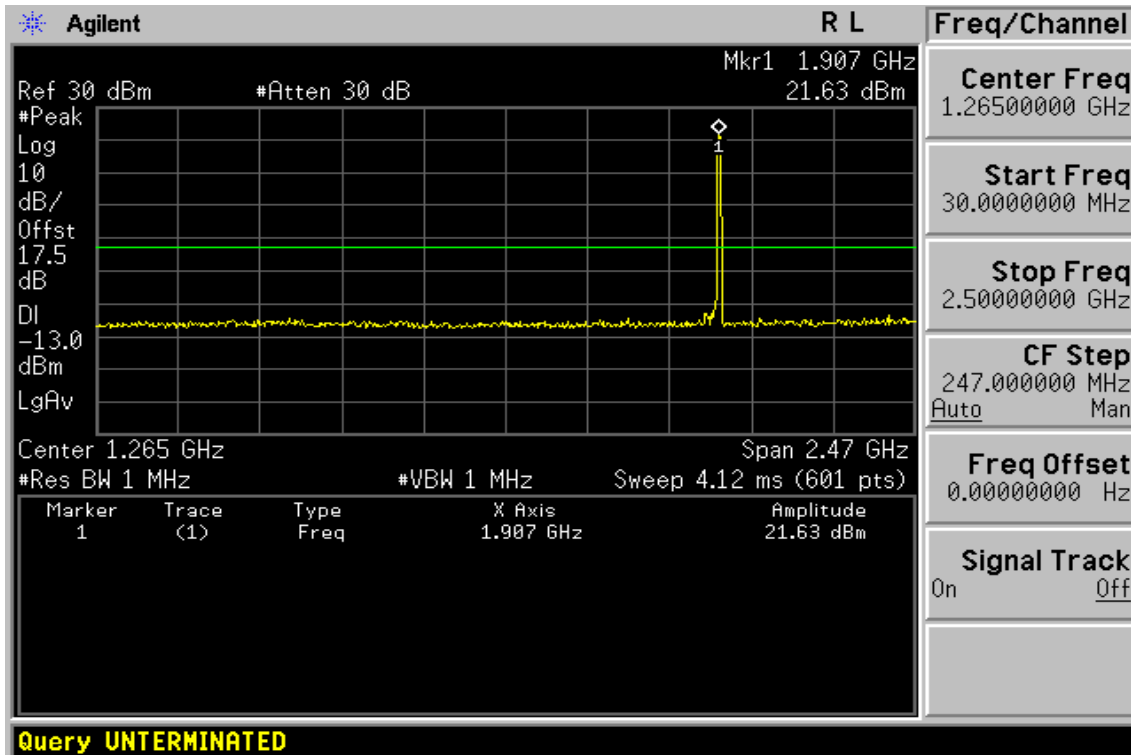
Figure 10-7: Out of Band emission at antenna terminals –HSUPA Band II Mid



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Figure 10-8: Out of Band emission at antenna terminals –HSUPA Band II Highest



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Figure 10-9: Band edge emission at antenna terminals –HSUPA Band II Lowest

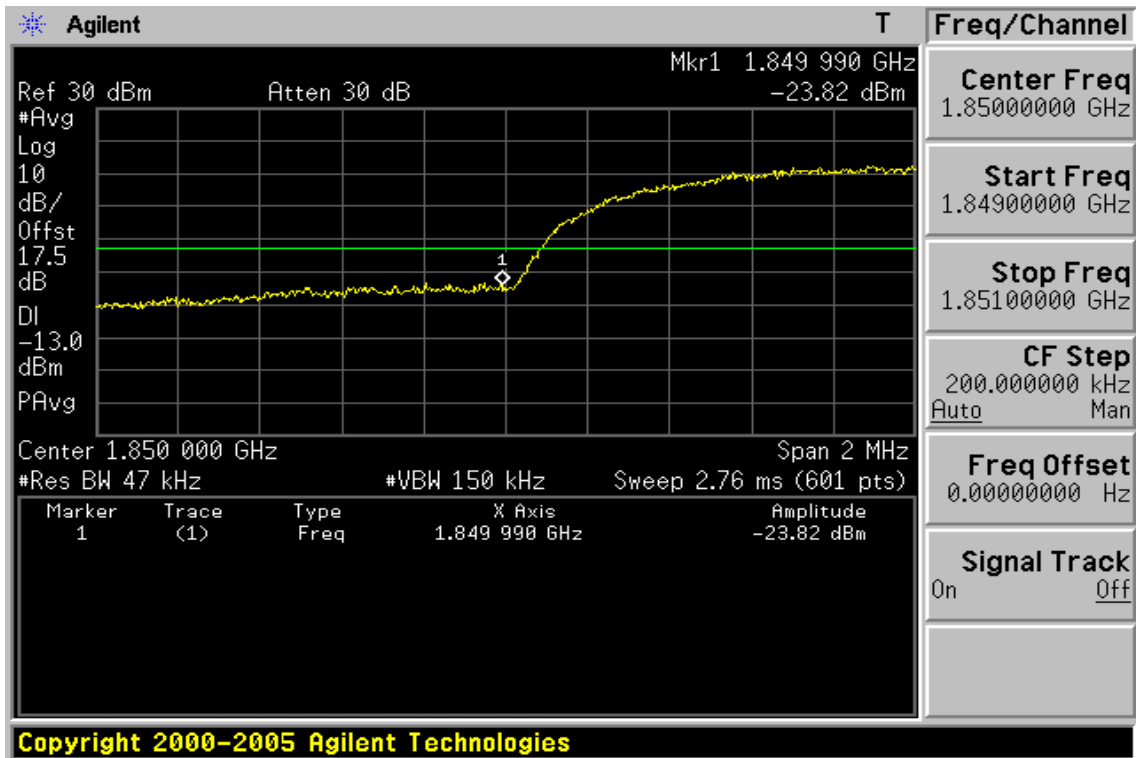
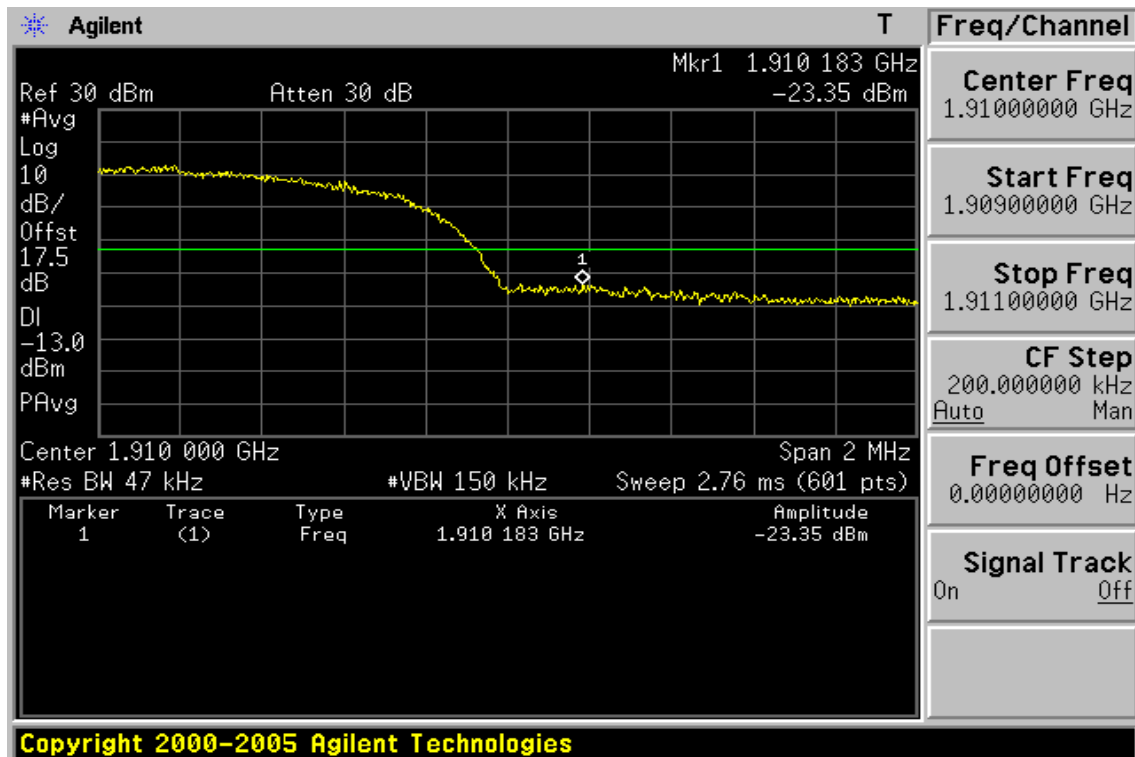


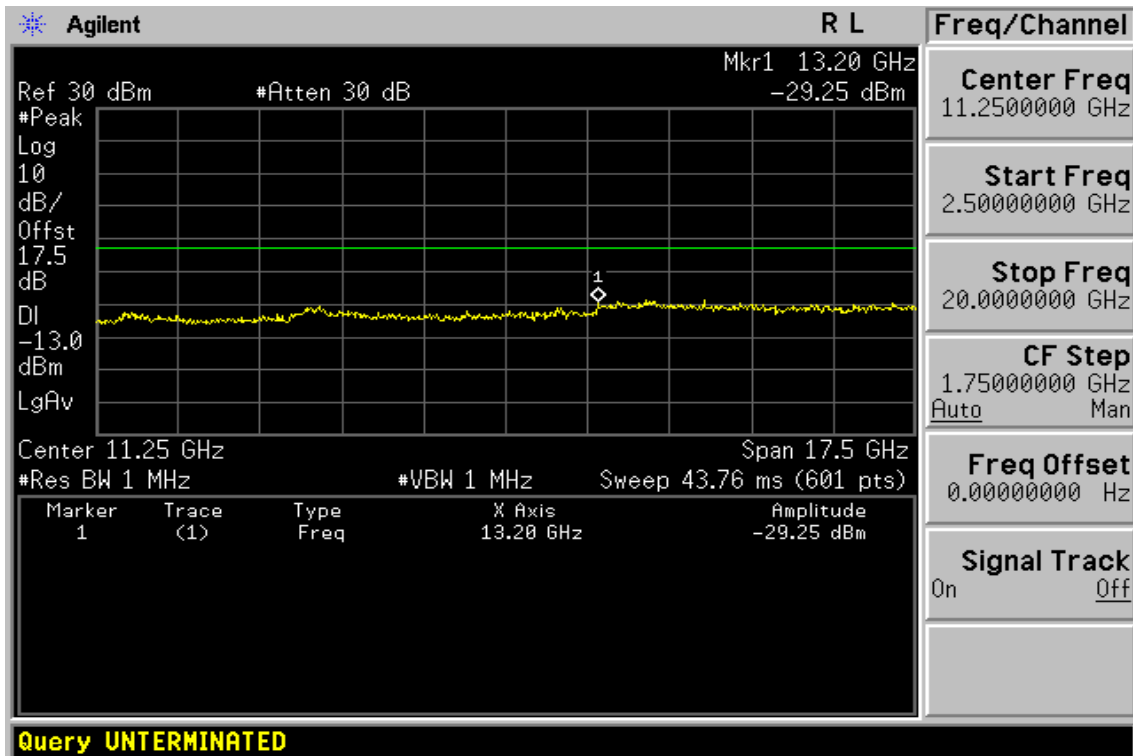
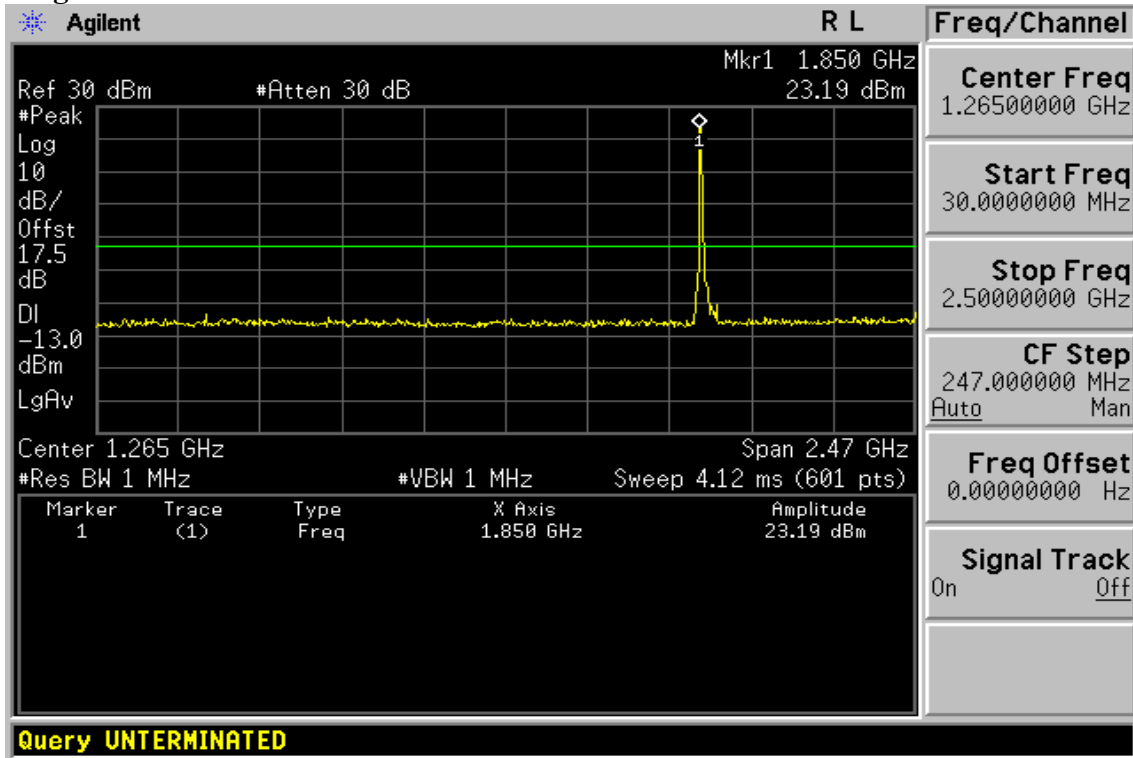
Figure 10-10: Band edge emission at antenna terminals –HSUPA Band II Highest



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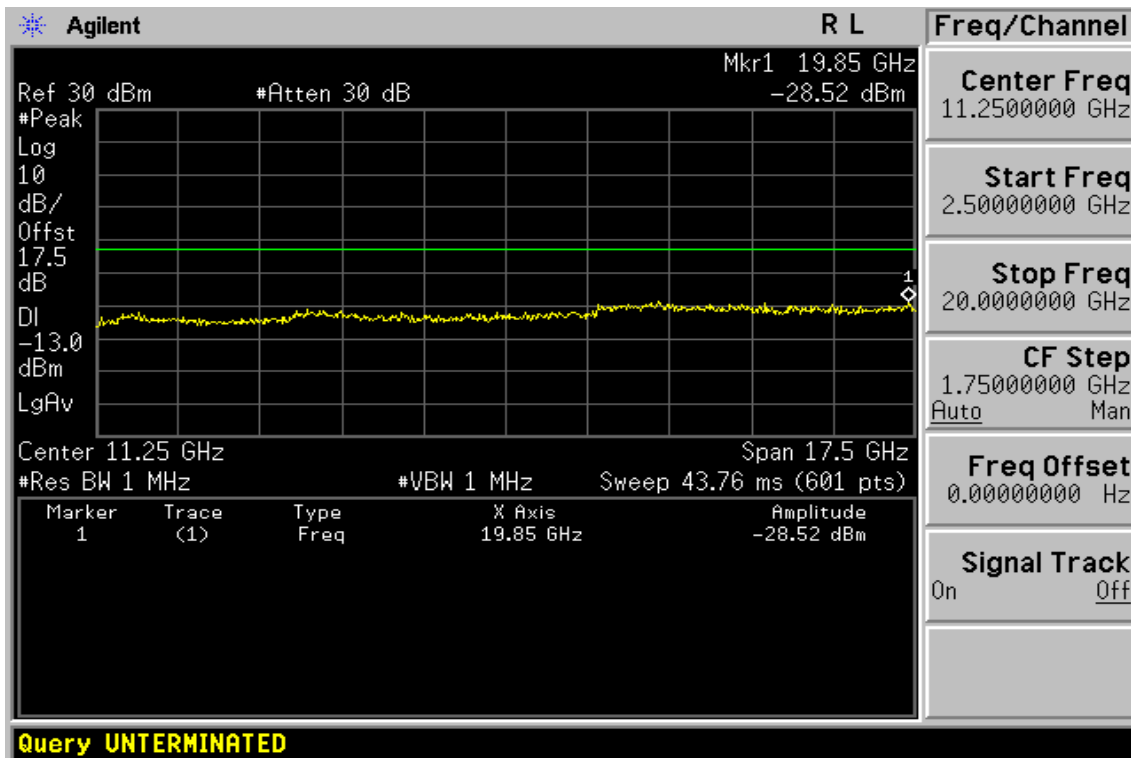
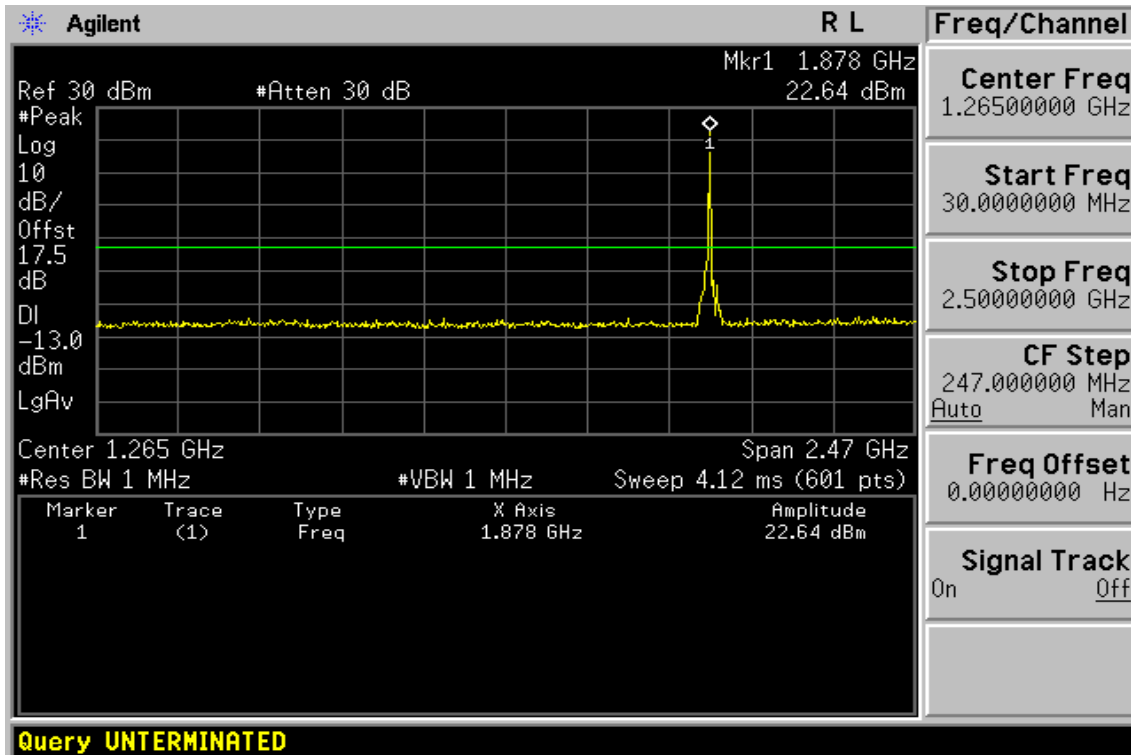
Figure 10-11: Out of Band emission at antenna terminals–HSDPA Band II Lowest



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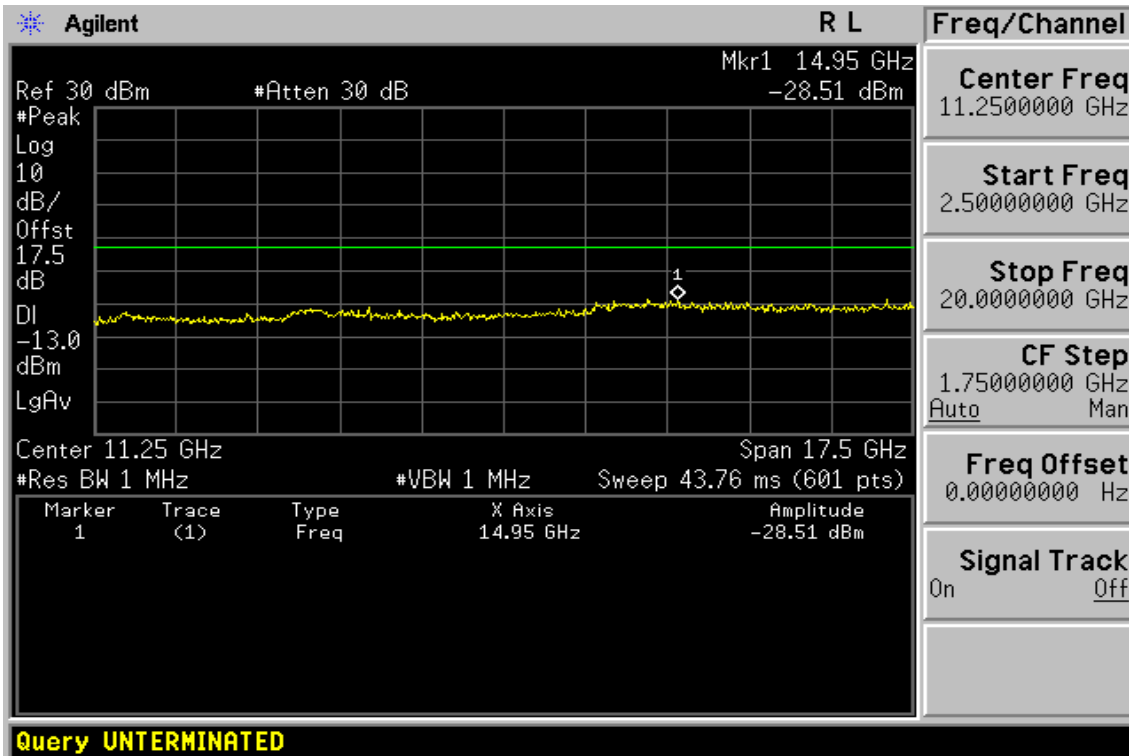
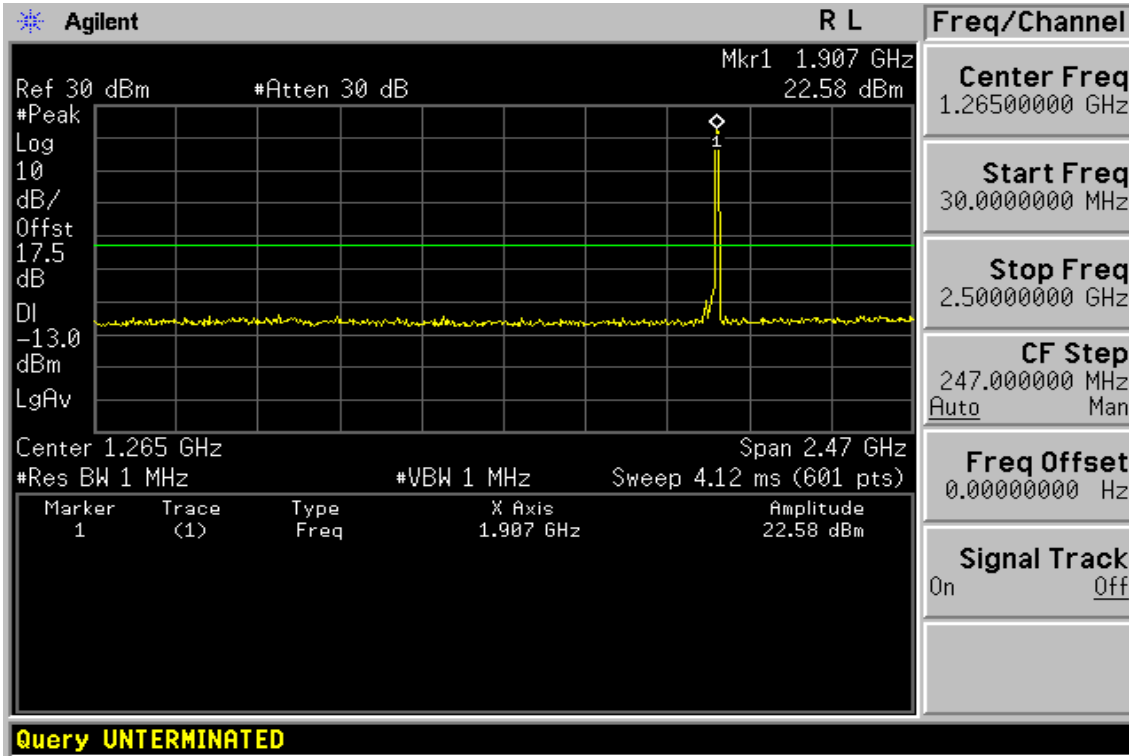
Figure 10-12: Out of Band emission at antenna terminals –HSDPA Band II Mid



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Figure 10-13: Out of Band emission at antenna terminals–HSDPA Band II Highest



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Figure 10-14: Band edge emission at antenna terminals –HSDPA Band II Lowest

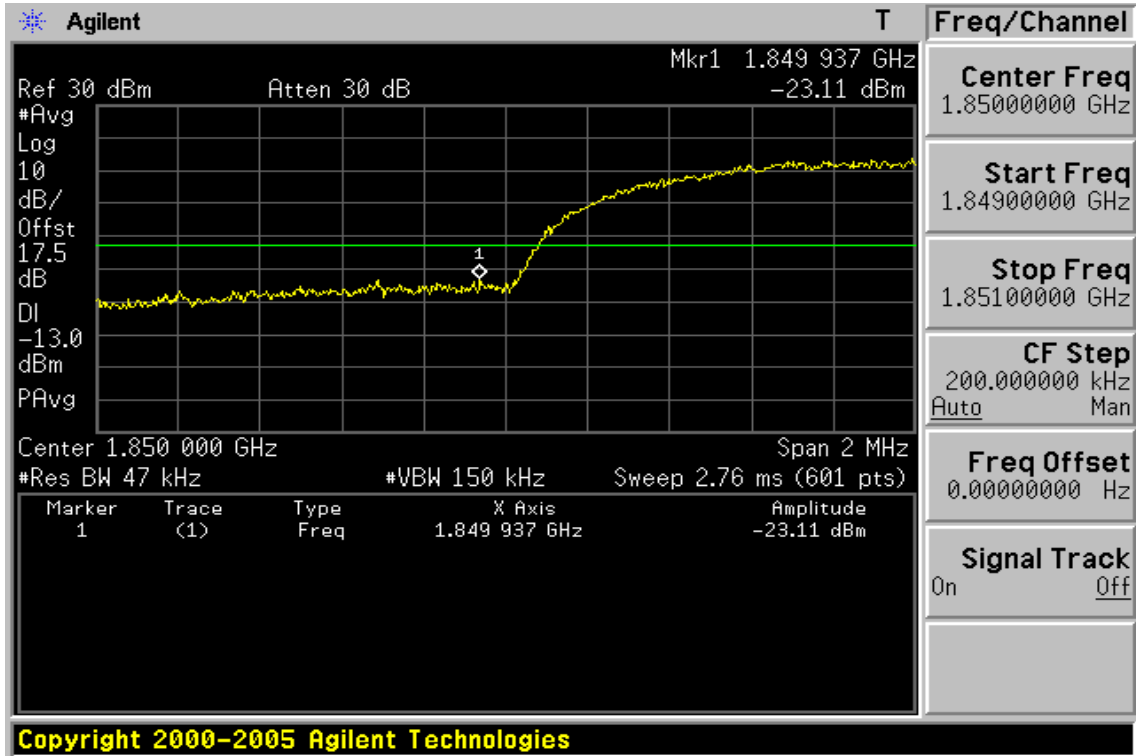
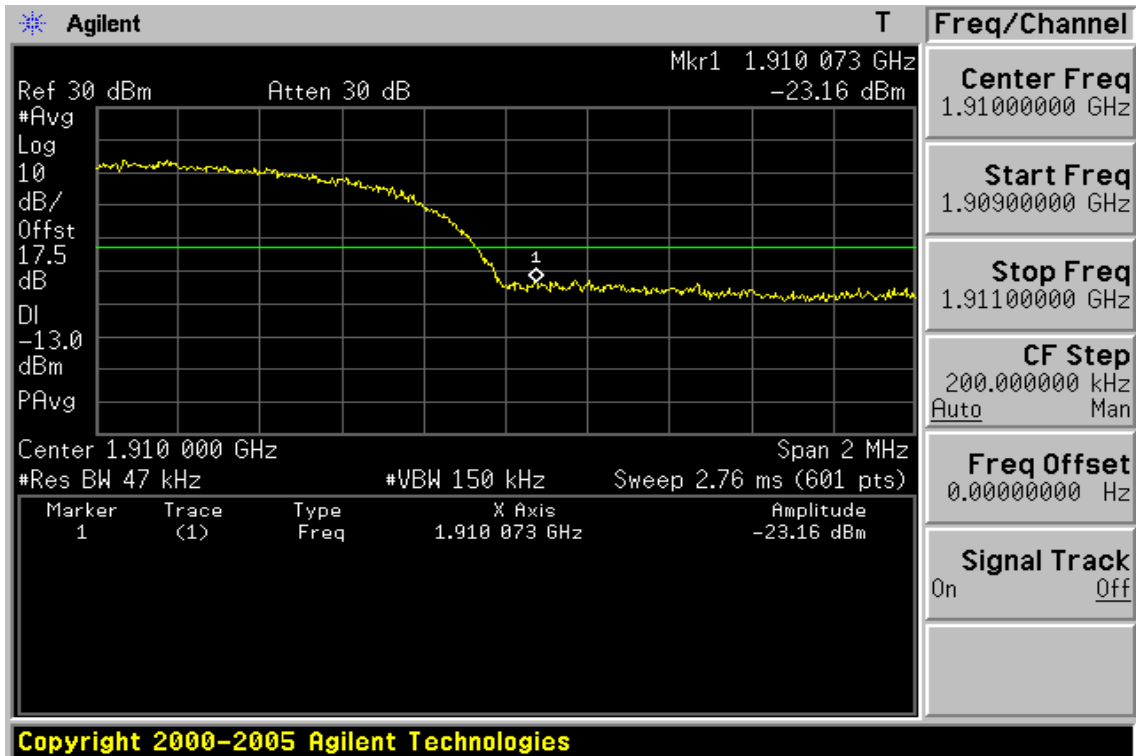


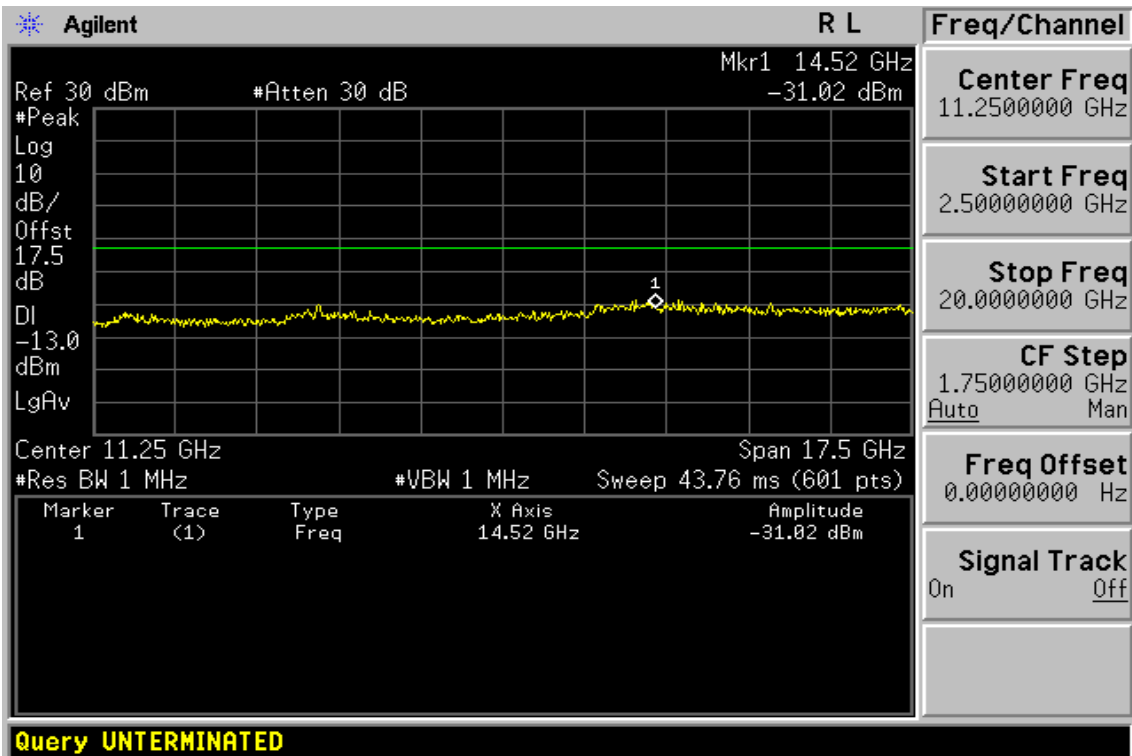
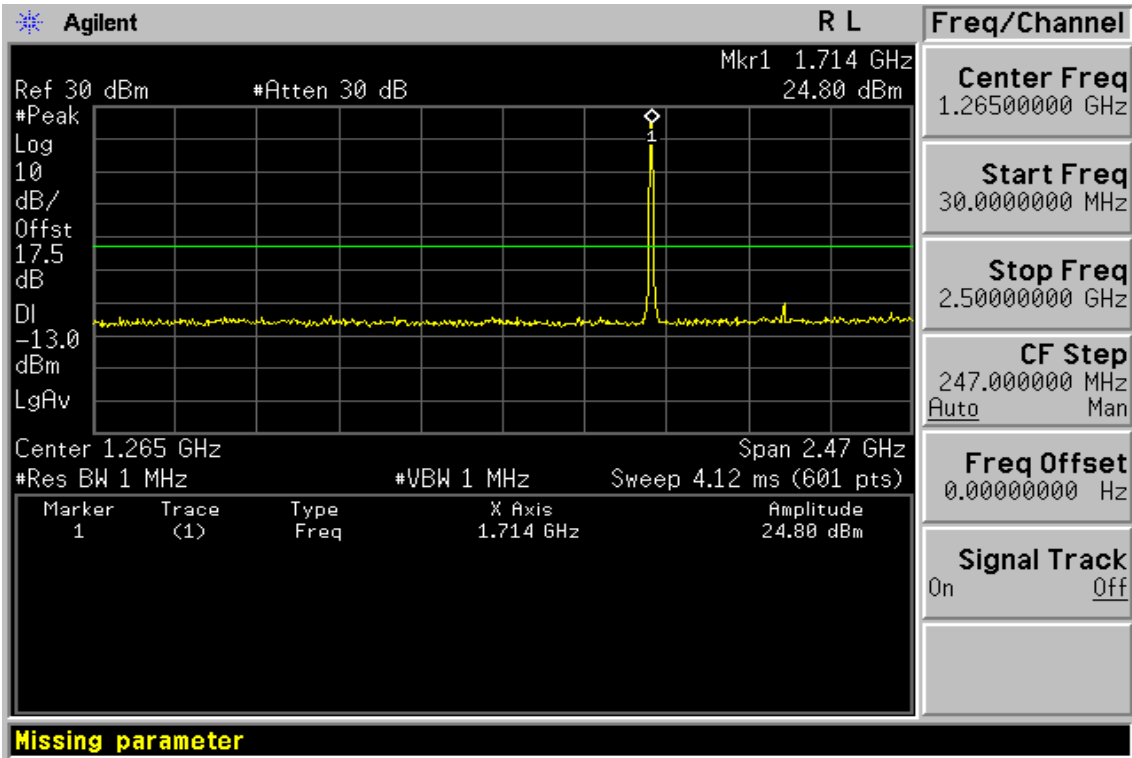
Figure 10-15: Band edge emission at antenna terminals –HSDPA Band II Highest



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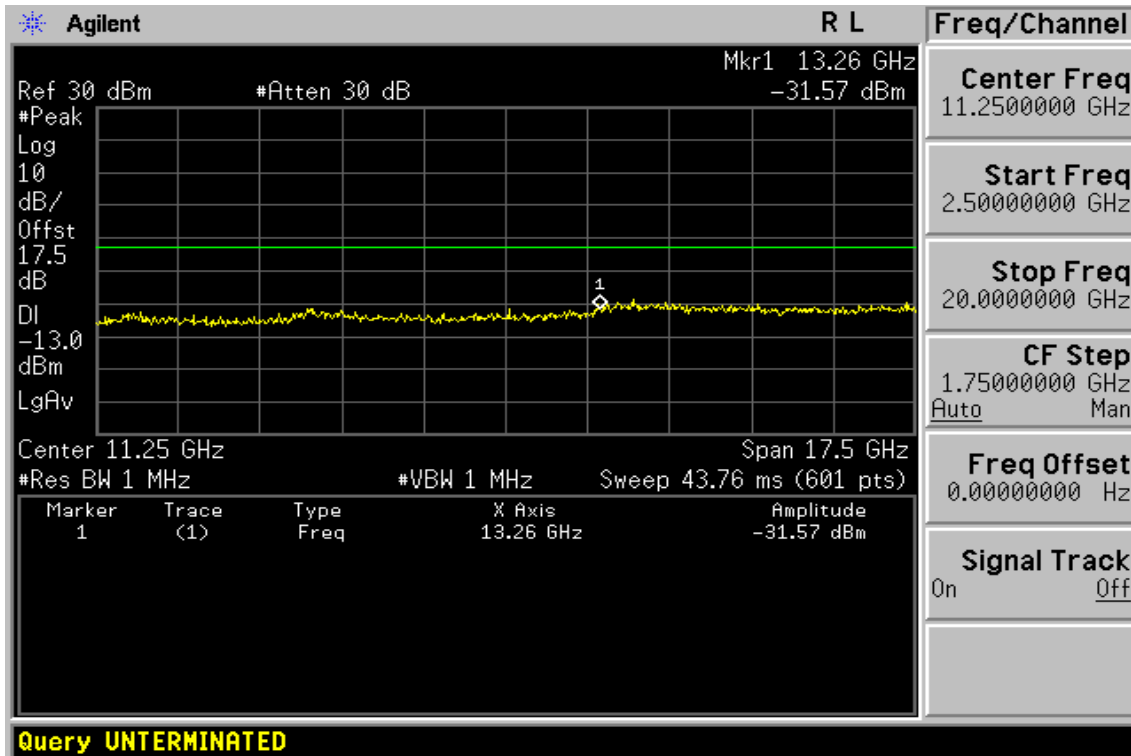
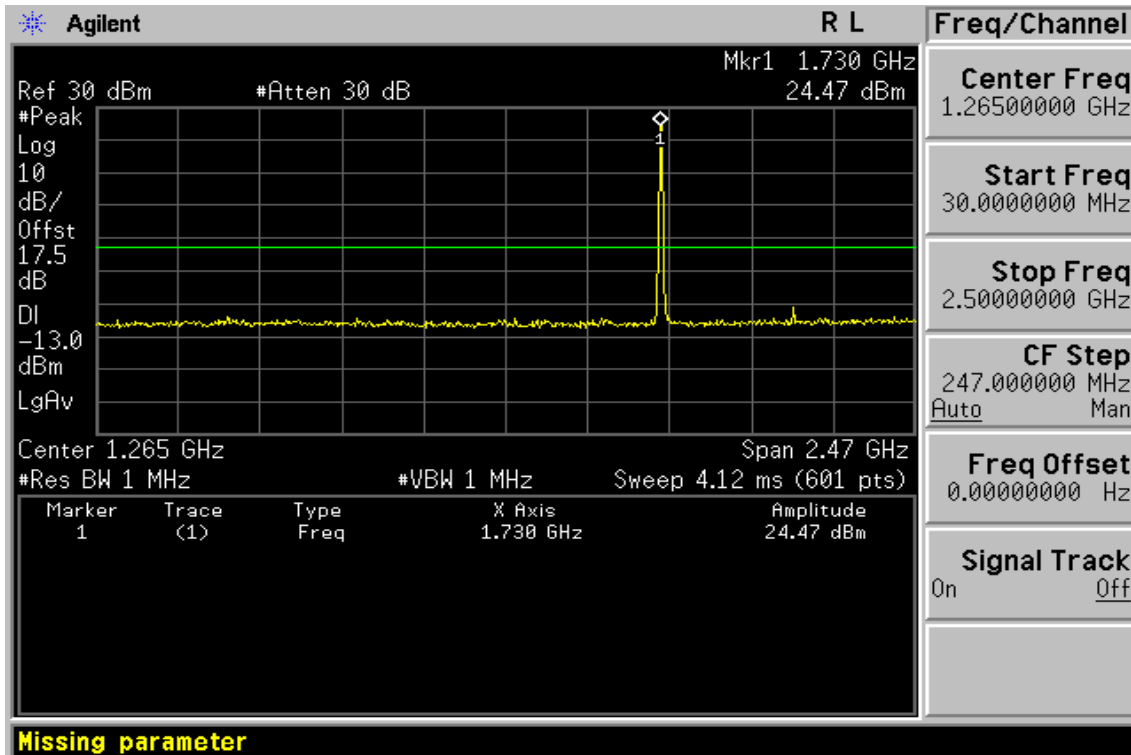
Figure 10-16: Out of Band emission at antenna terminals–WCDMA Band IV Channel Lowest



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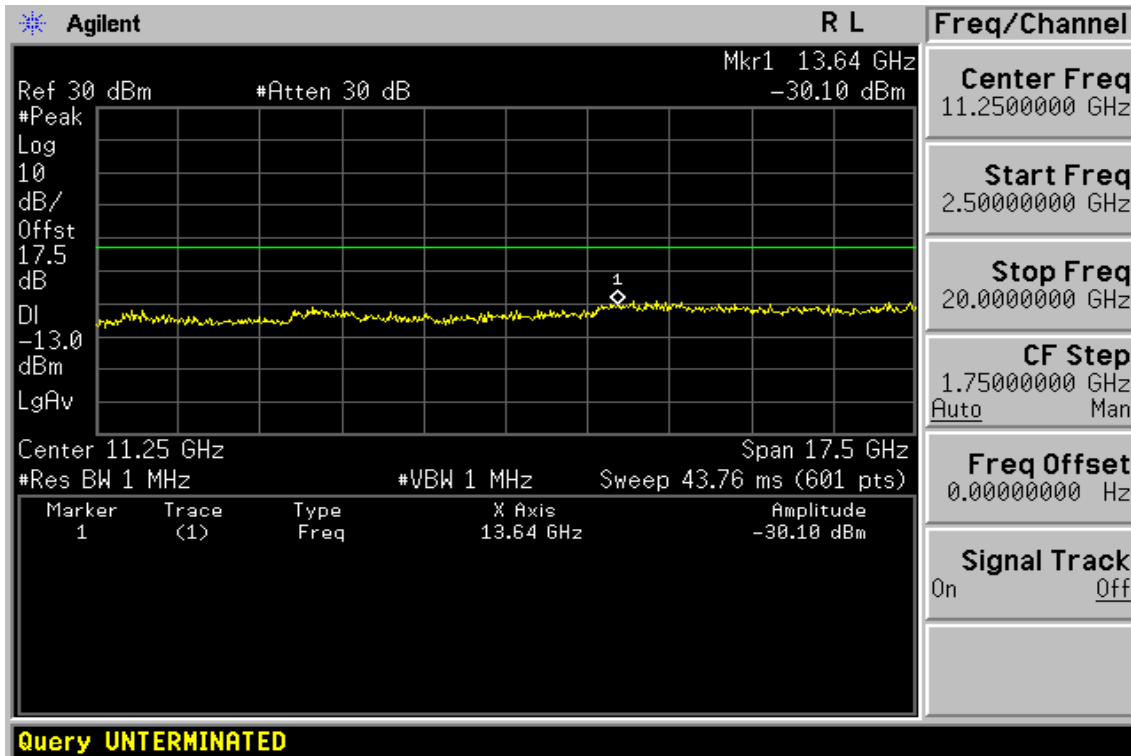
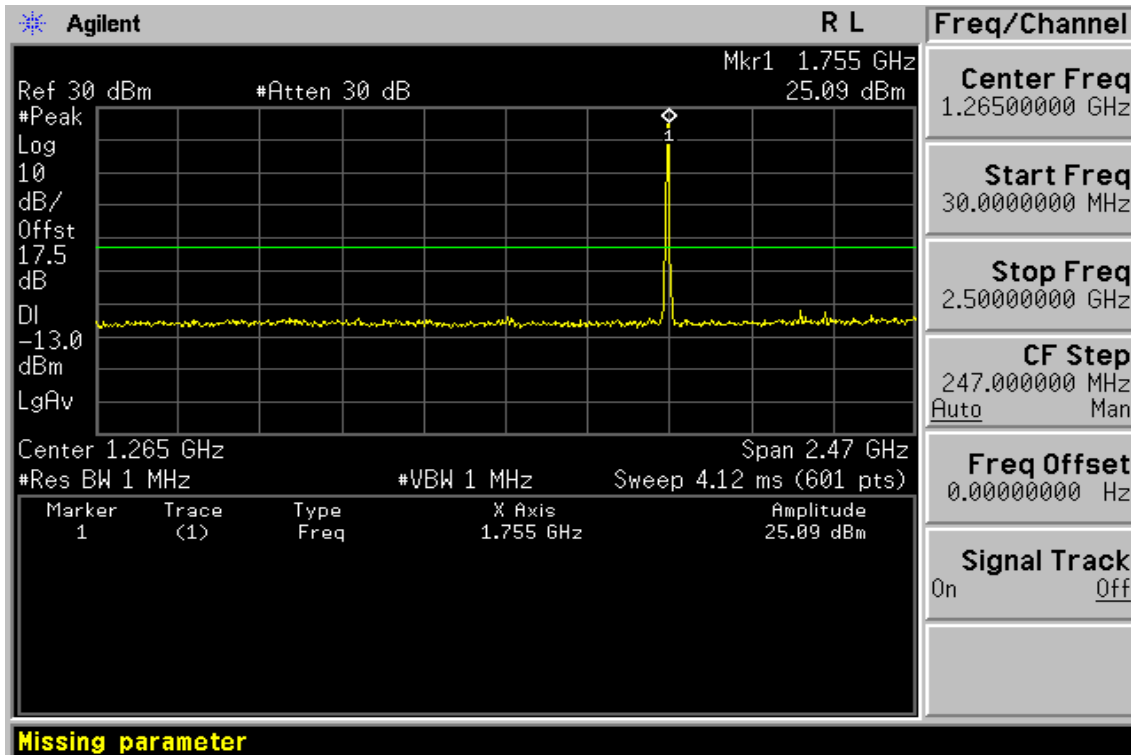
Figure 10-17: Out of Band emission at antenna terminals –WCDMA Band IV Channel Mid



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Figure 10-18: Out of Band emission at antenna terminals–WCDMA Band IV Channel Highest



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Figure 10-19: Band edge emission at antenna terminals –WCDMA Band IV Channel Lowest

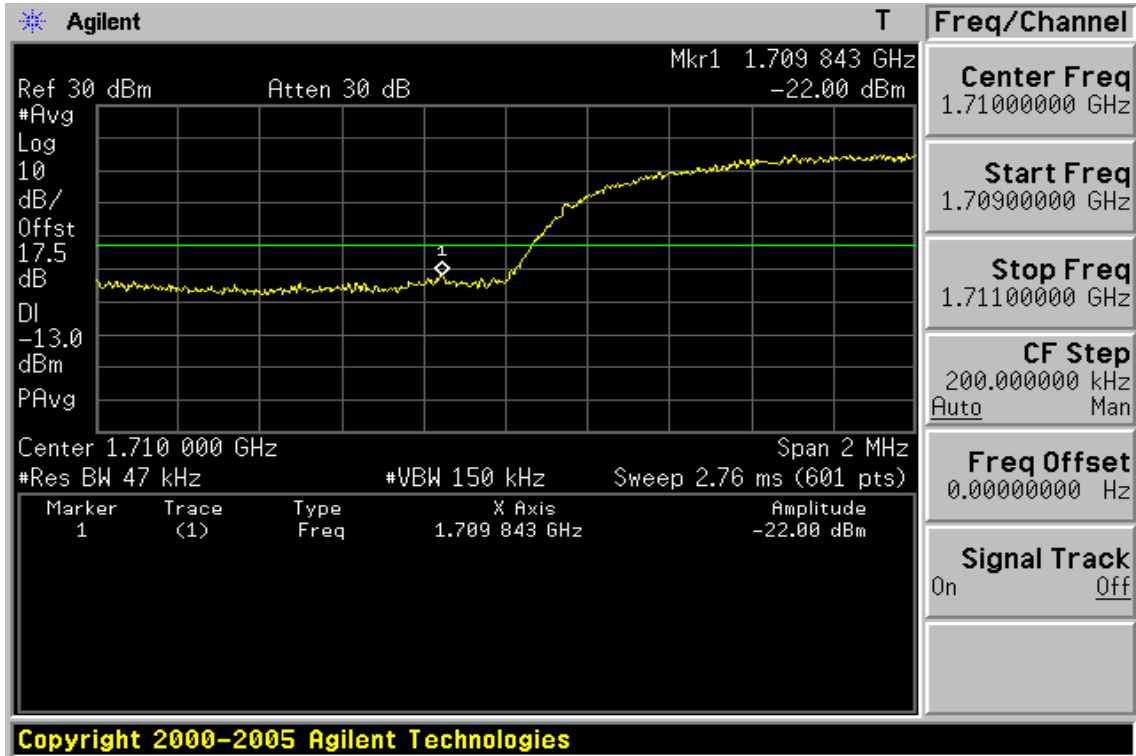
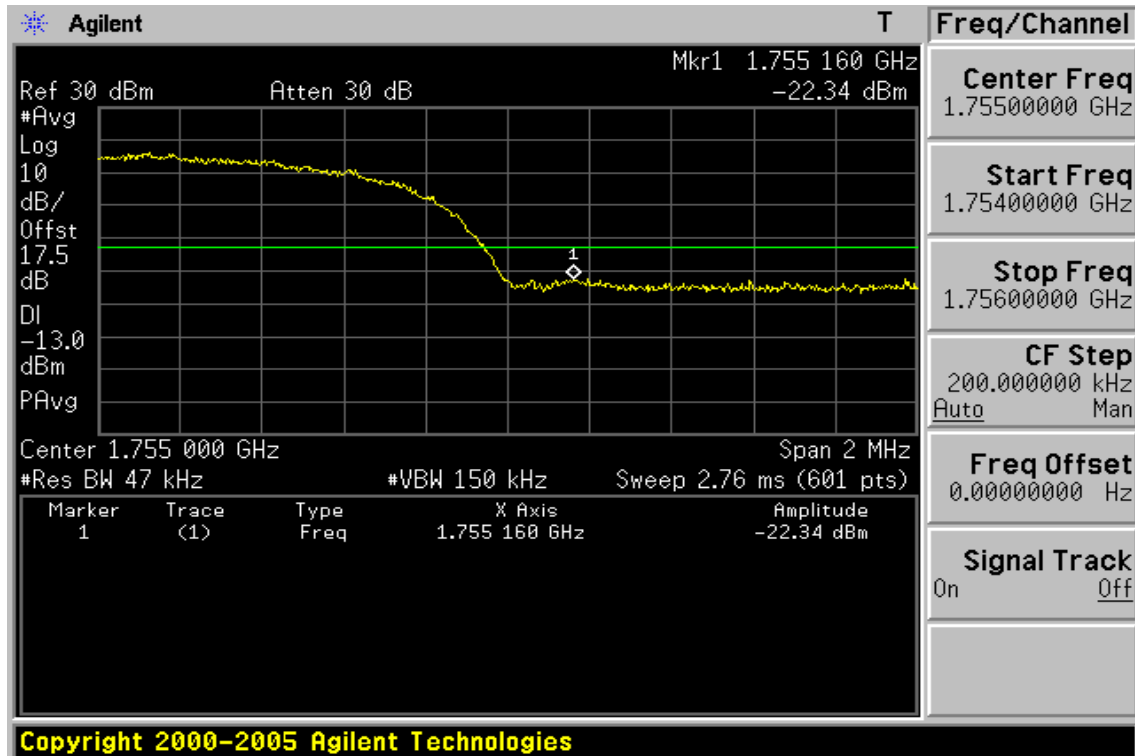


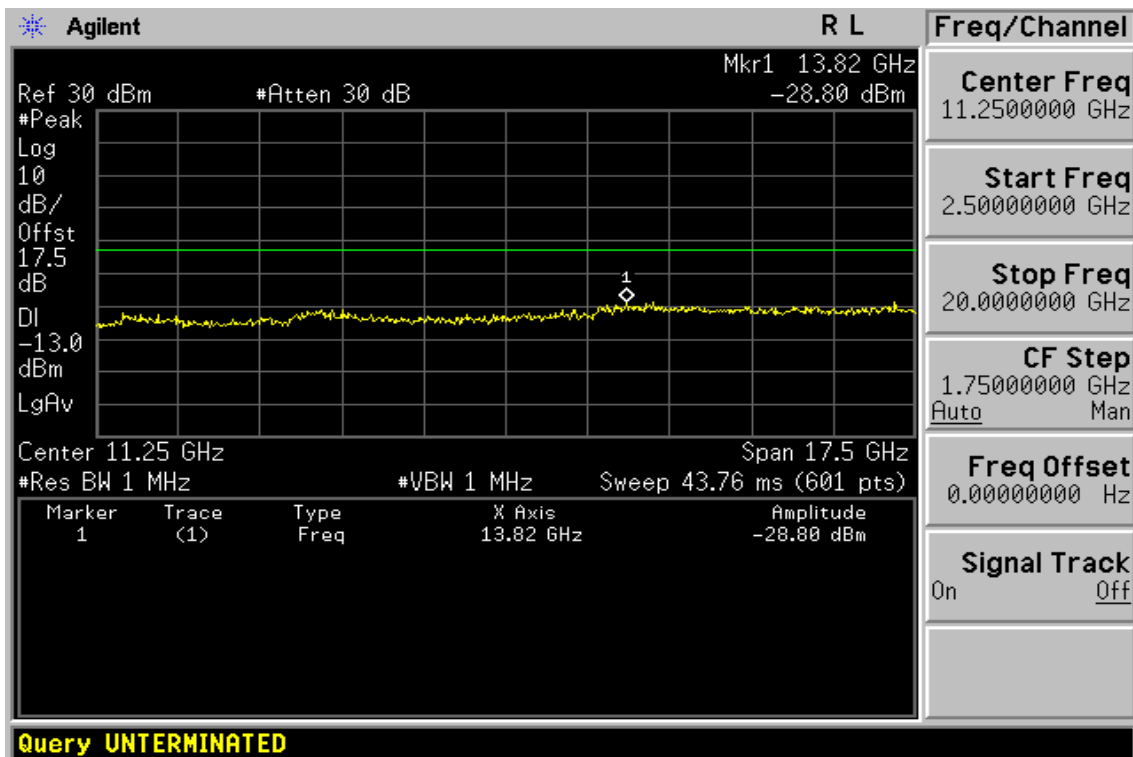
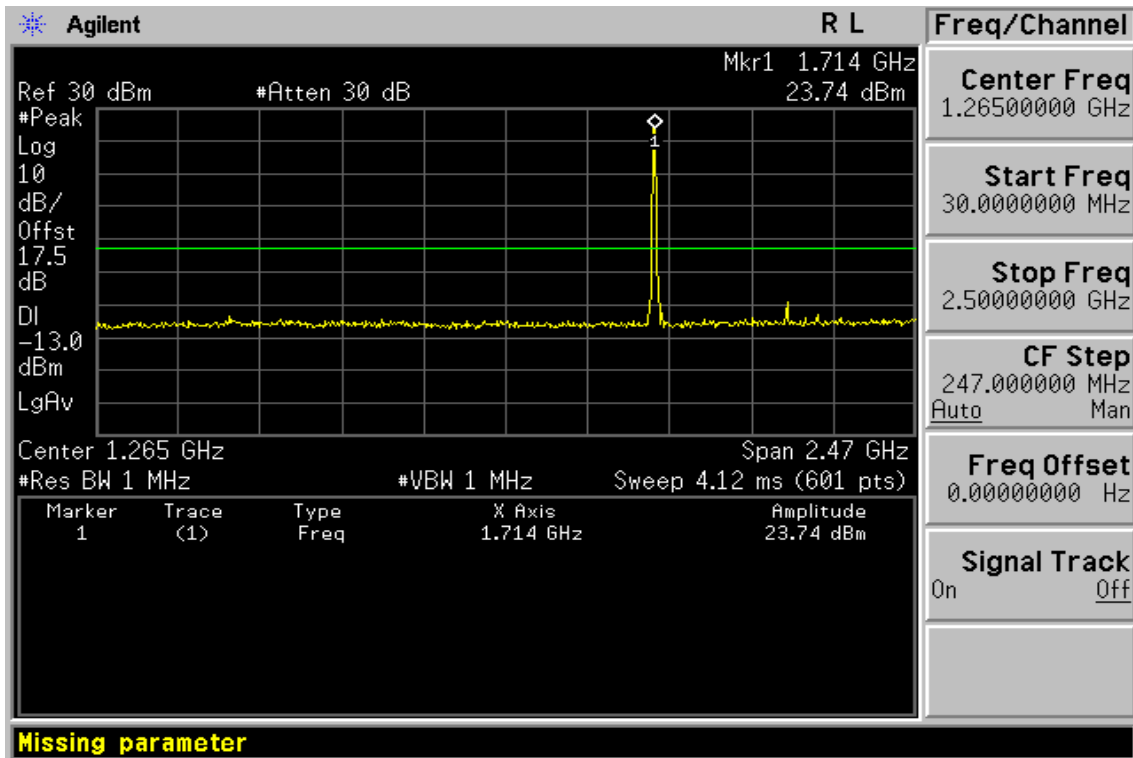
Figure 10-20: Band edge emission at antenna terminals –WCDMA Band IV Channel Highest



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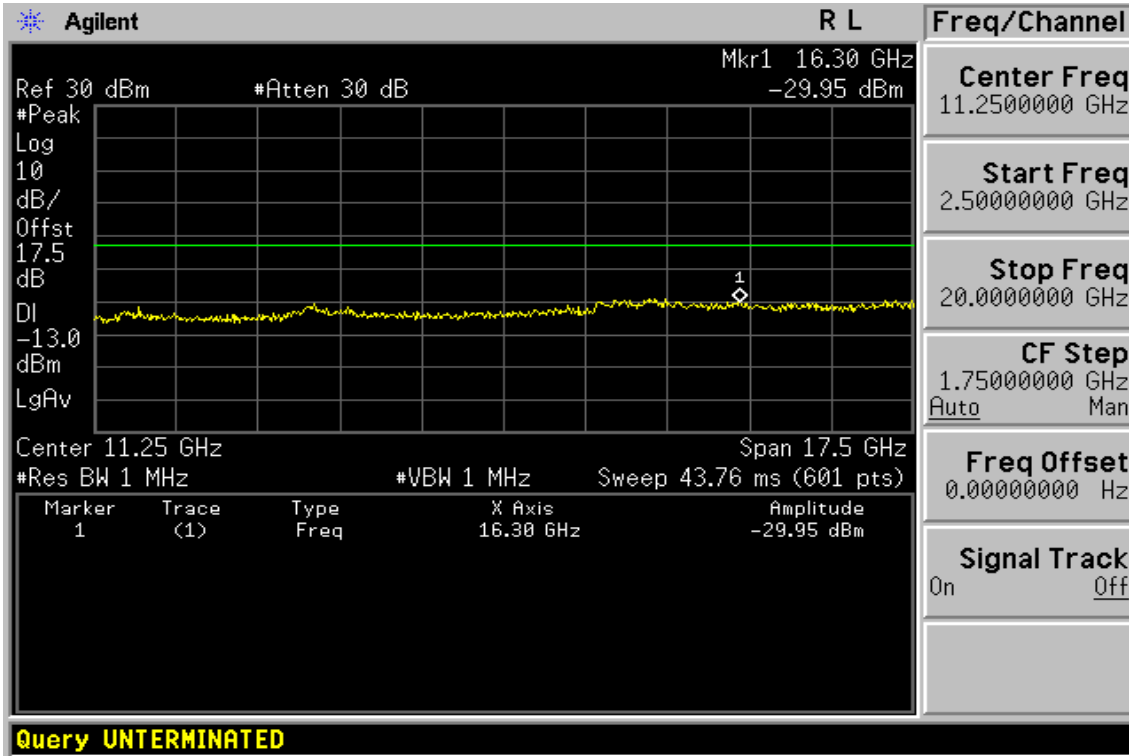
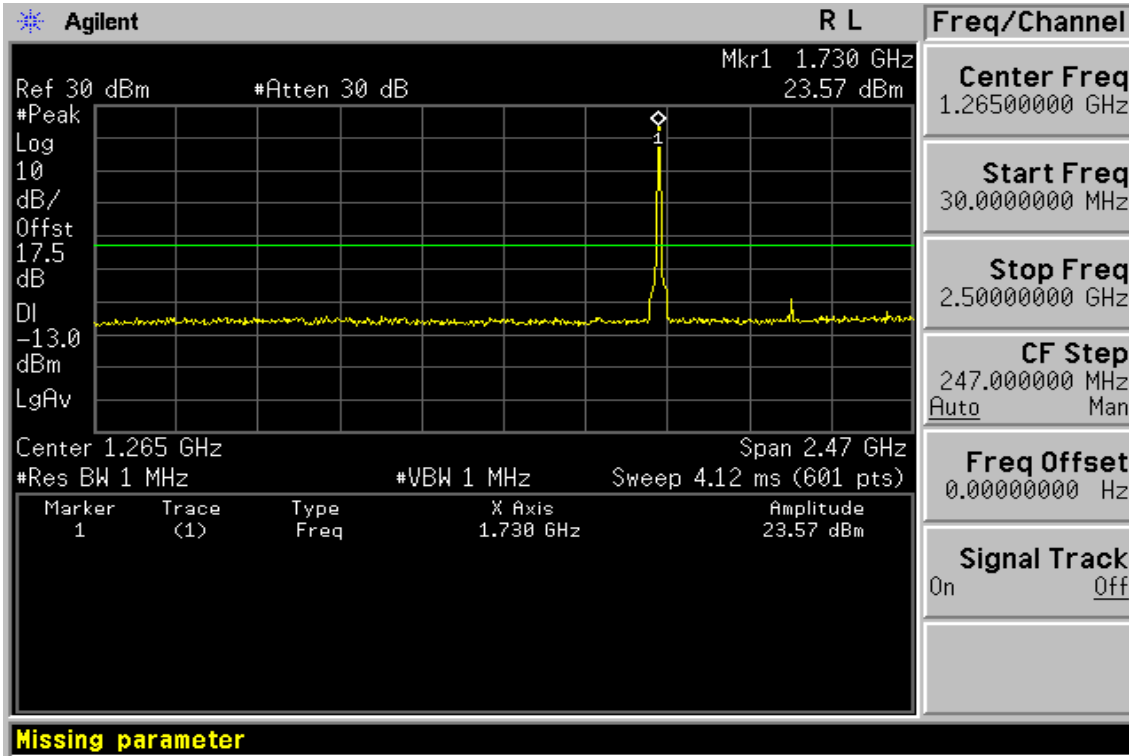
Figure 10-21: Out of Band emission at antenna terminals–HSUPA Band IV Channel Lowest



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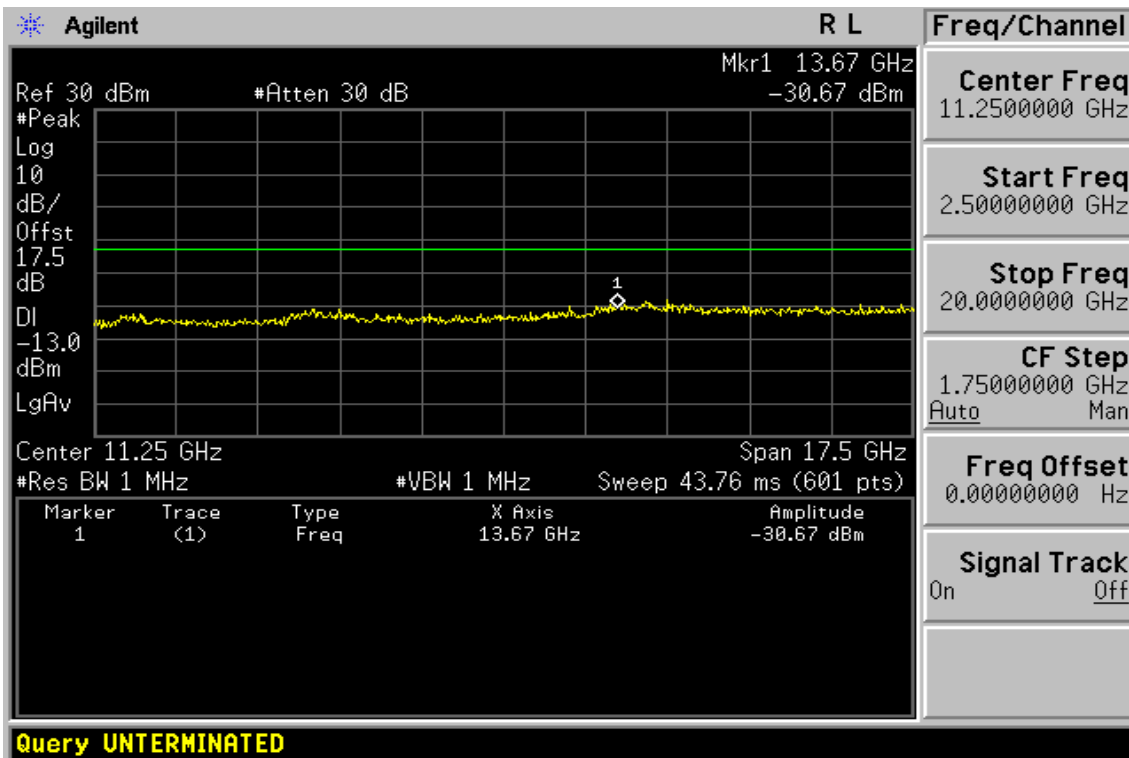
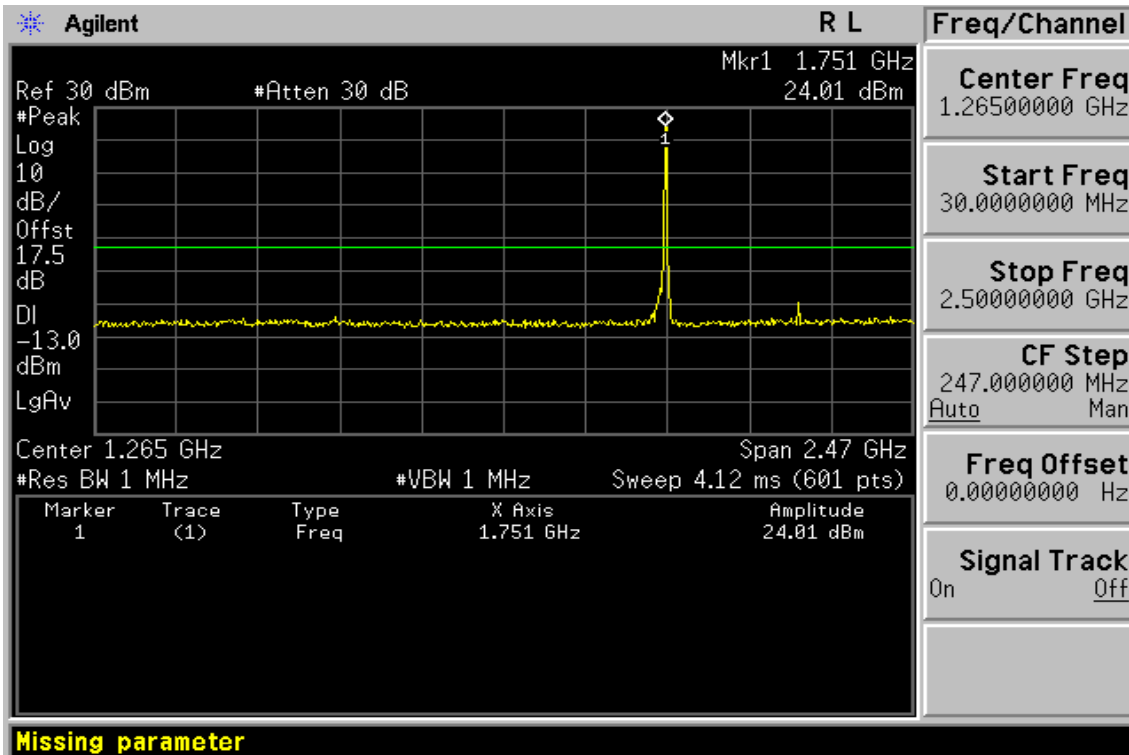
Figure 10-22: Out of Band emission at antenna terminals –HSUPA Band IV Mid



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Figure 10-23: Out of Band emission at antenna terminals –HSUPA Band IV Highest



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Figure 10-24: Band edge emission at antenna terminals –HSUPA Band IV Lowest

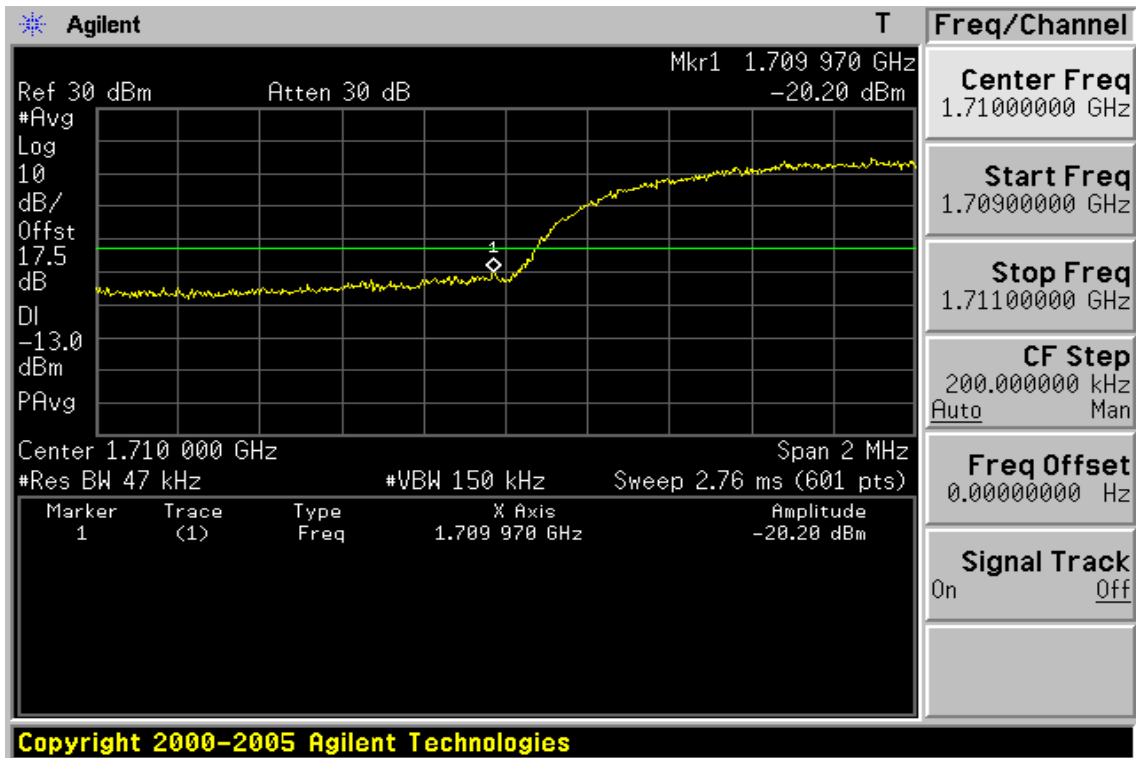
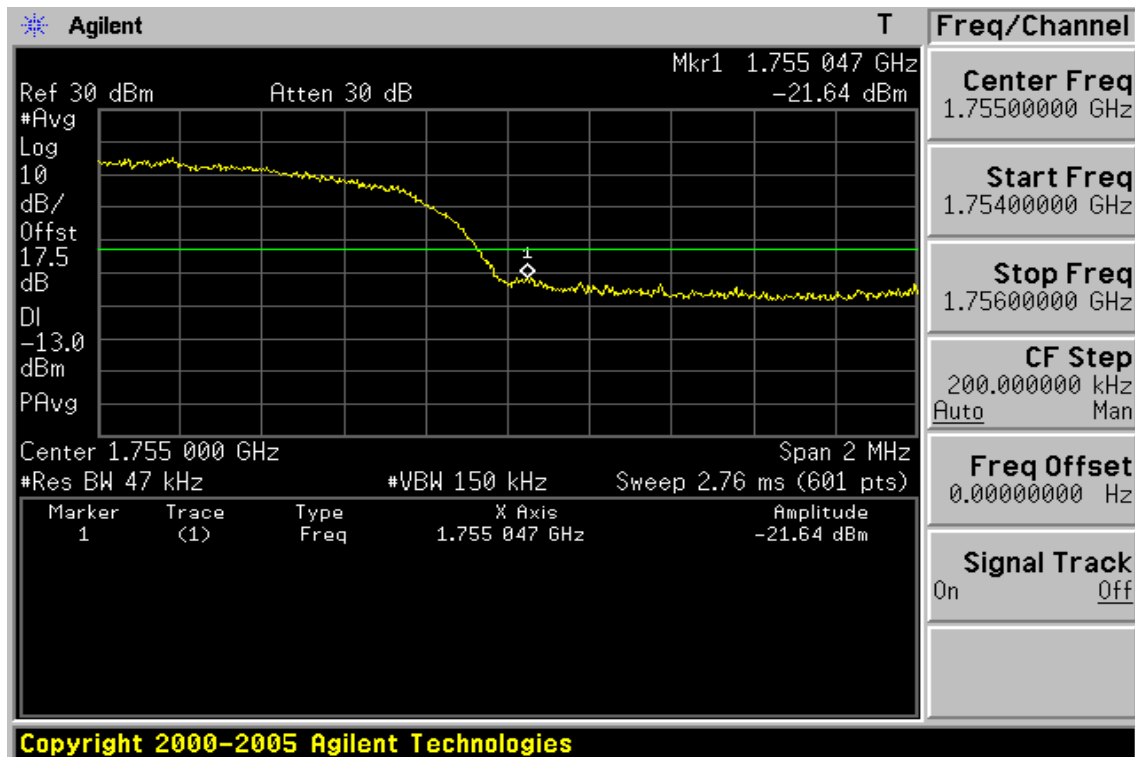


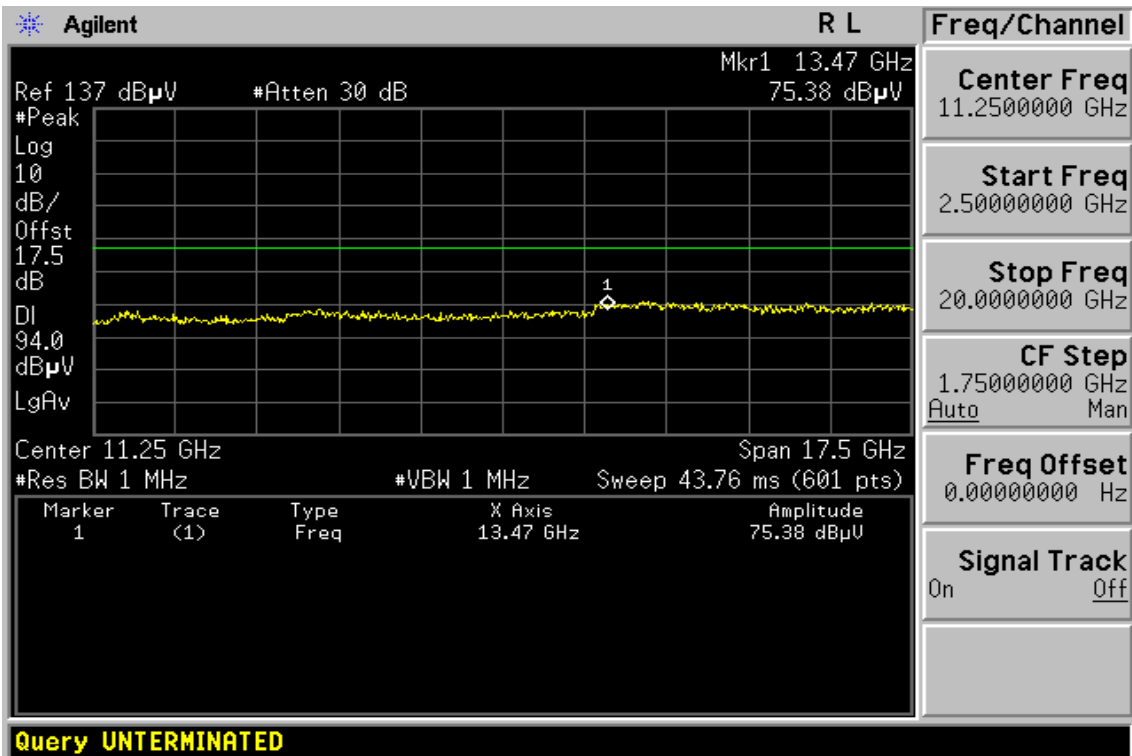
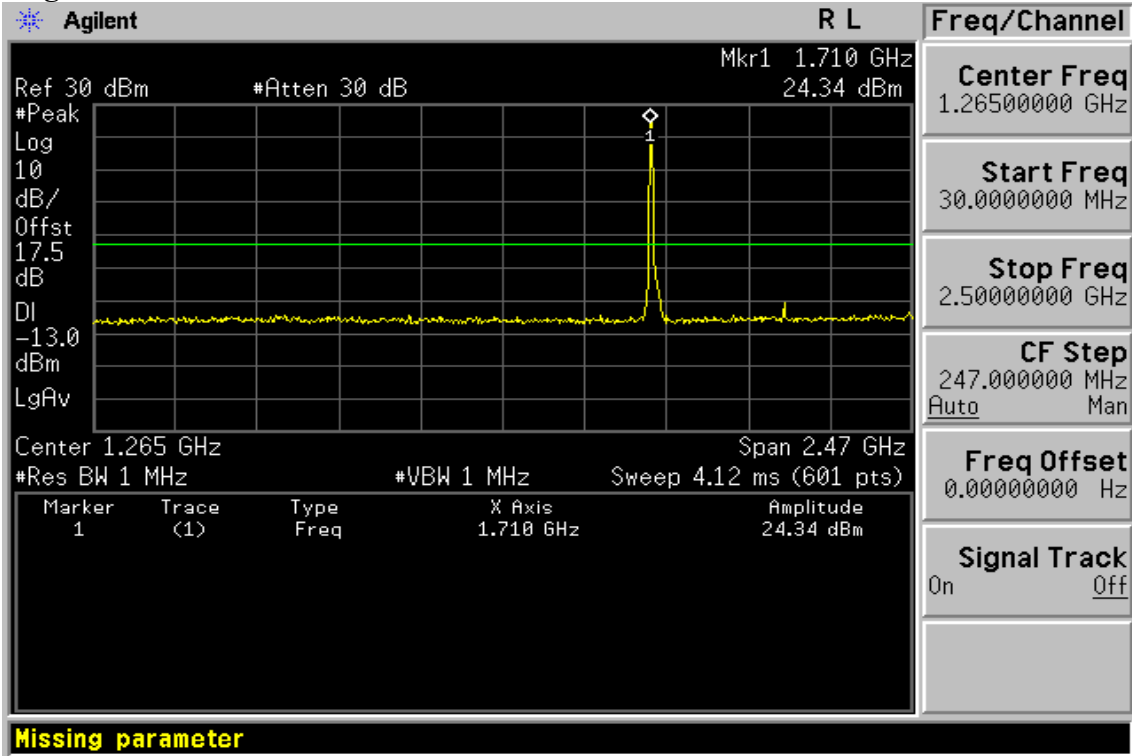
Figure 10-25: Band edge emission at antenna terminals –HSUPA Band IV Highest



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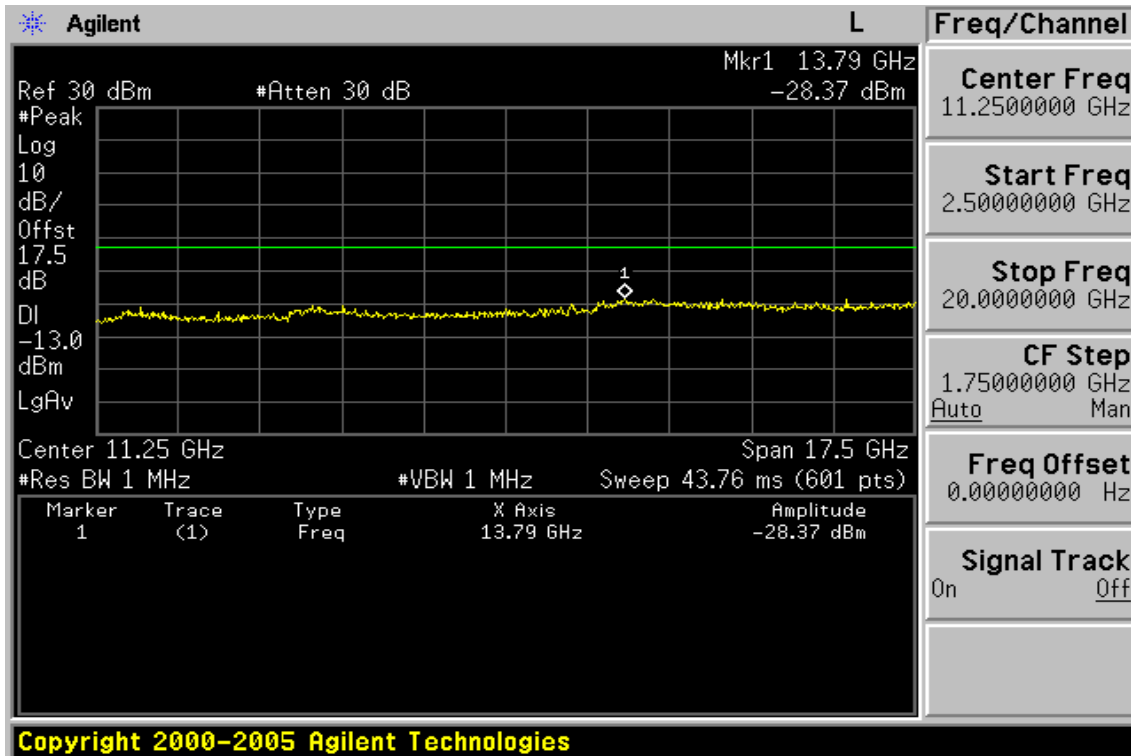
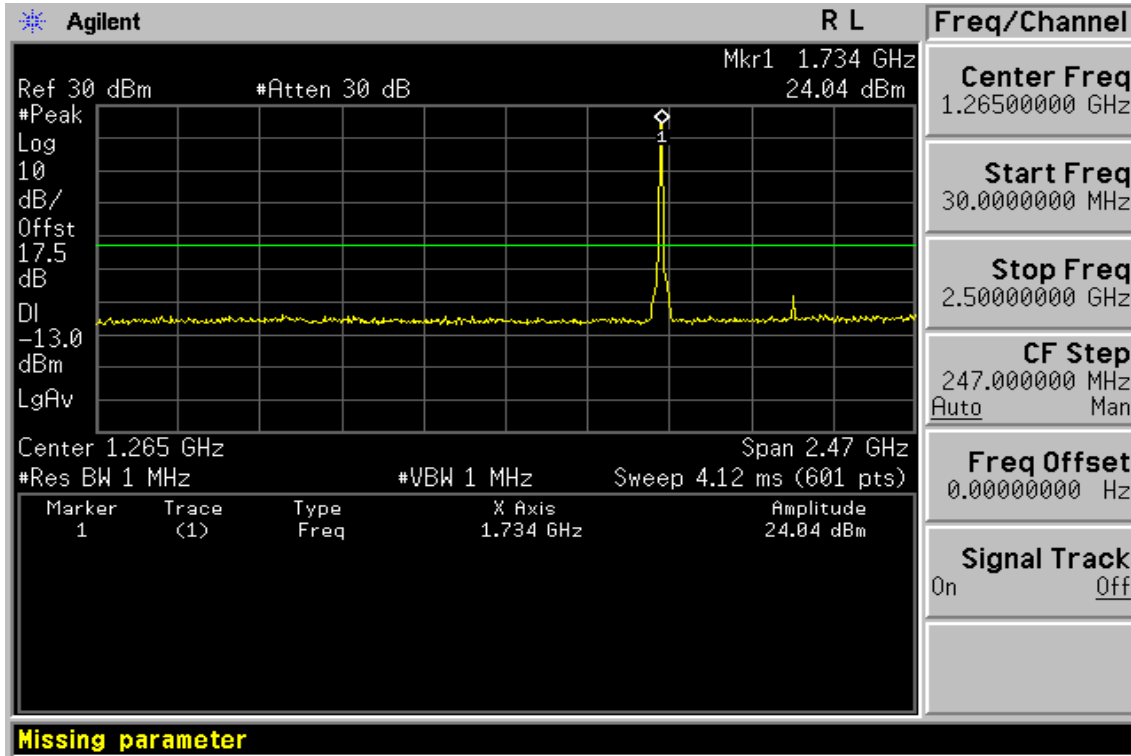
Figure 10-26: Out of Band emission at antenna terminals–HSDPA Band IV Lowest



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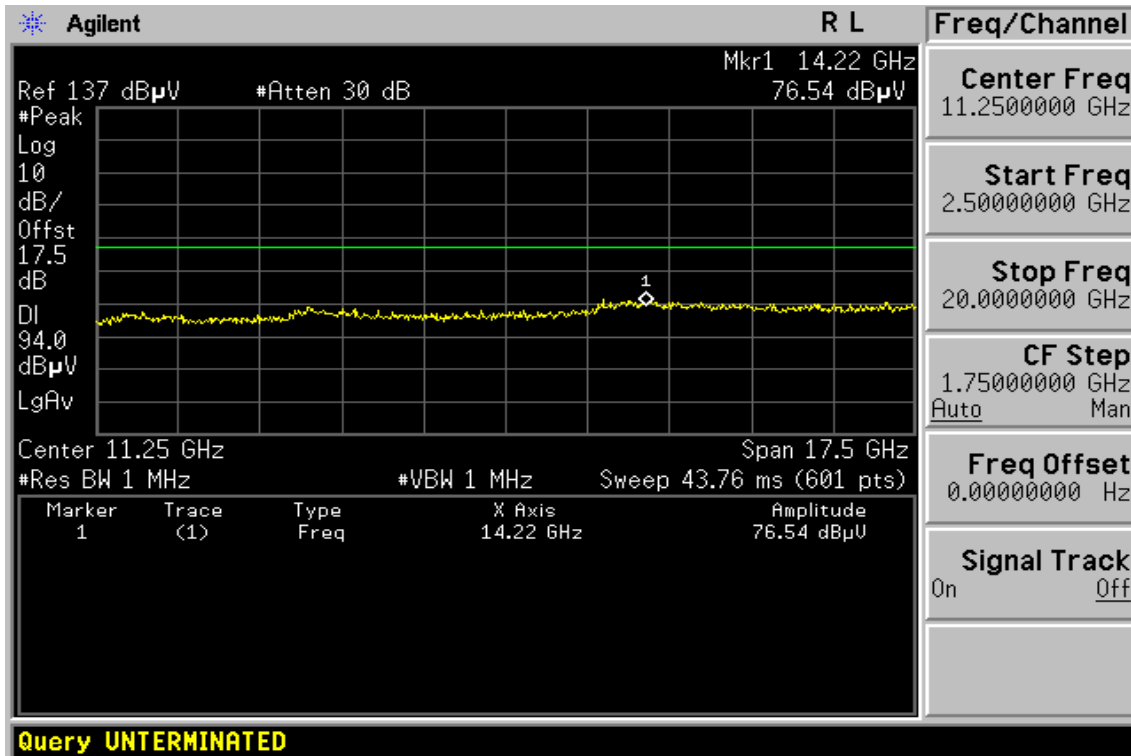
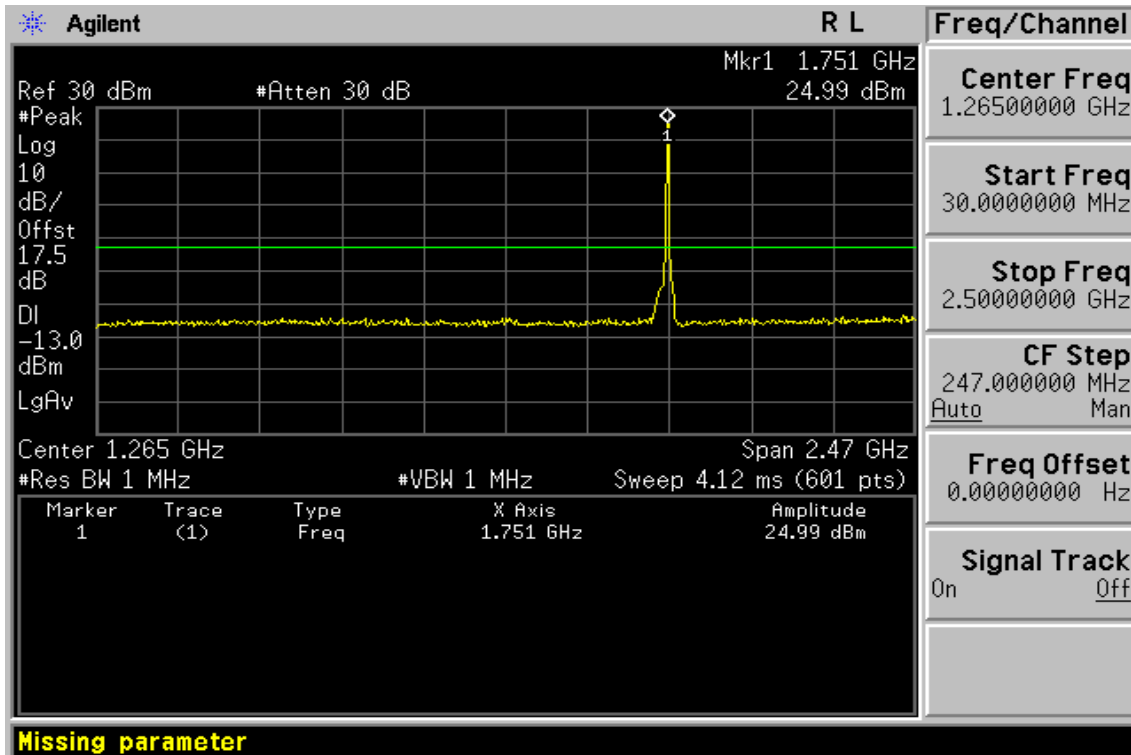
Figure 10-27: Out of Band emission at antenna terminals –HSDPA Band IV Mid



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Figure 10-28: Out of Band emission at antenna terminals–HSDPA Band IV Highest



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Figure 10-29: Band edge emission at antenna terminals –HSDPA Band IV Lowest

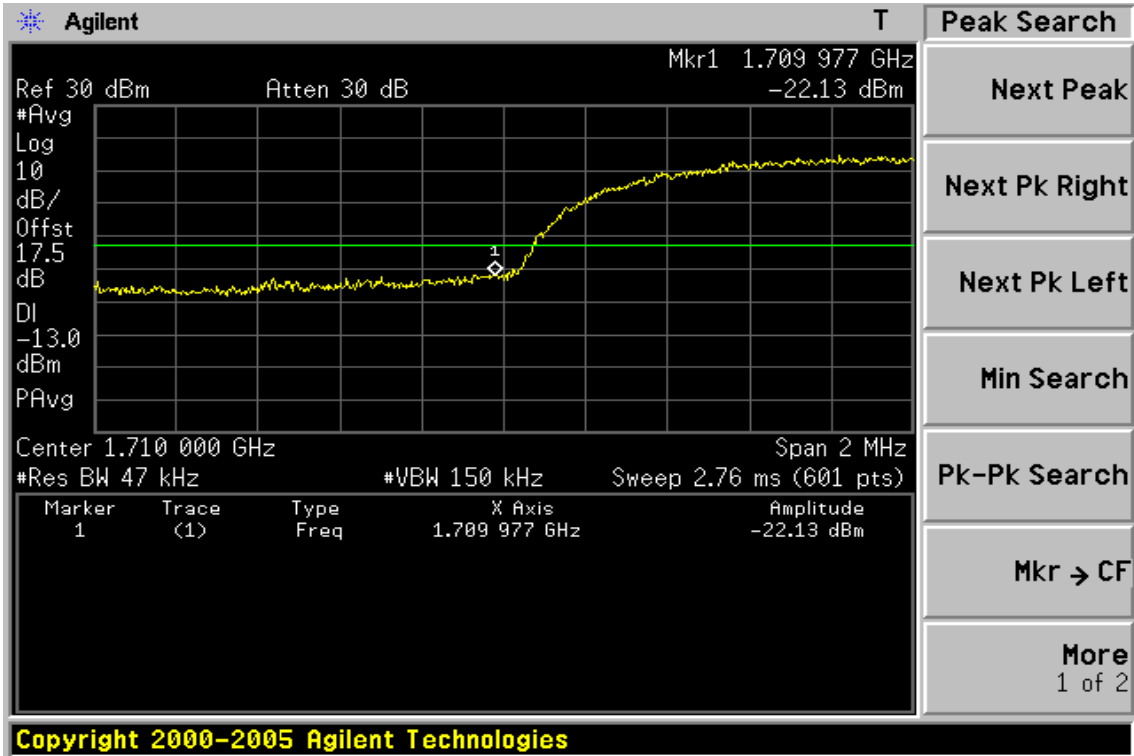
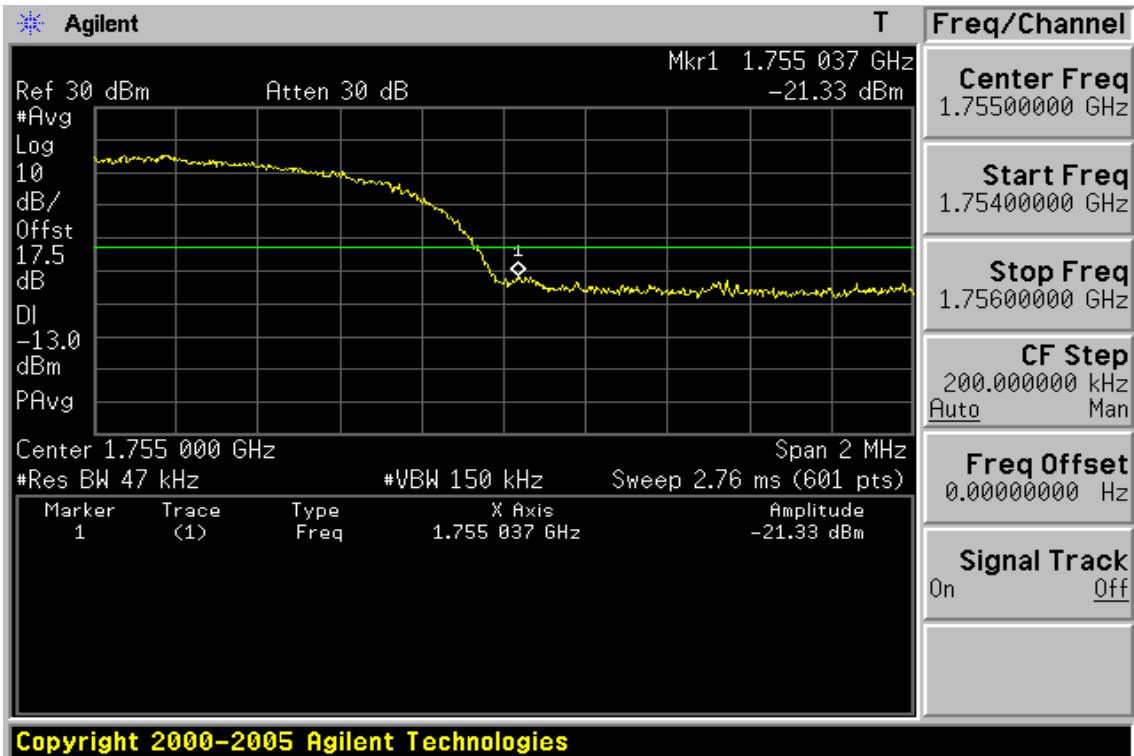


Figure 10-30: Band edge emission at antenna terminals –HSDPA Band IV Highest



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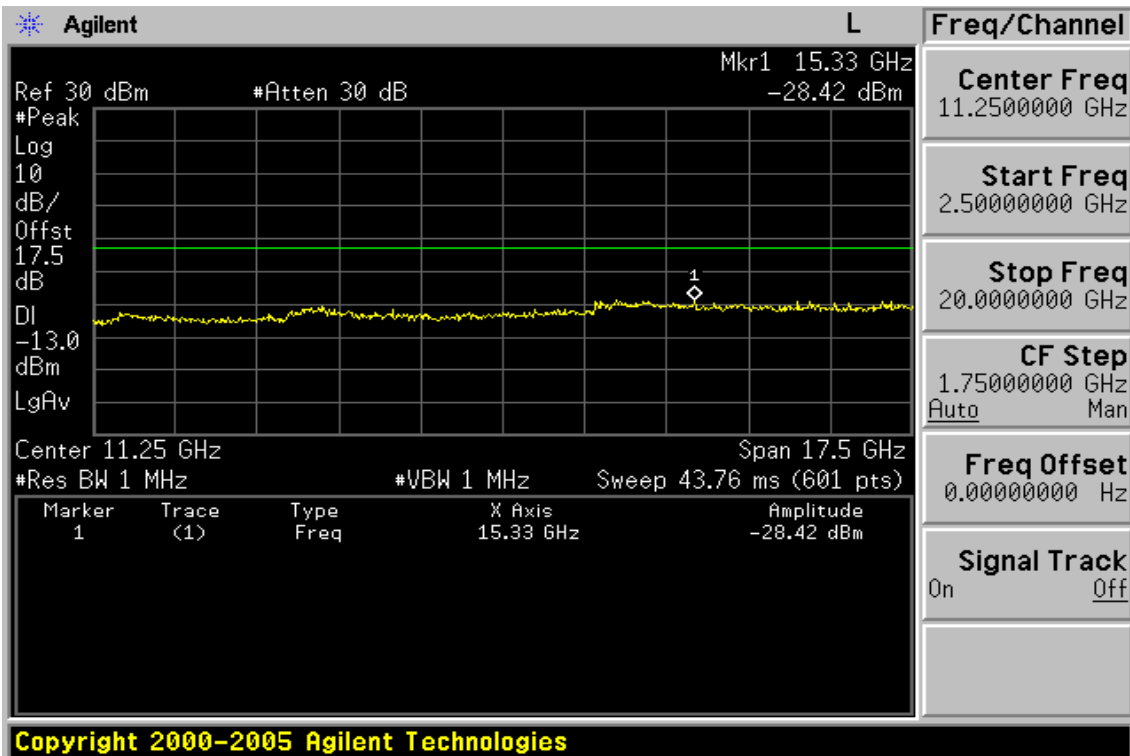
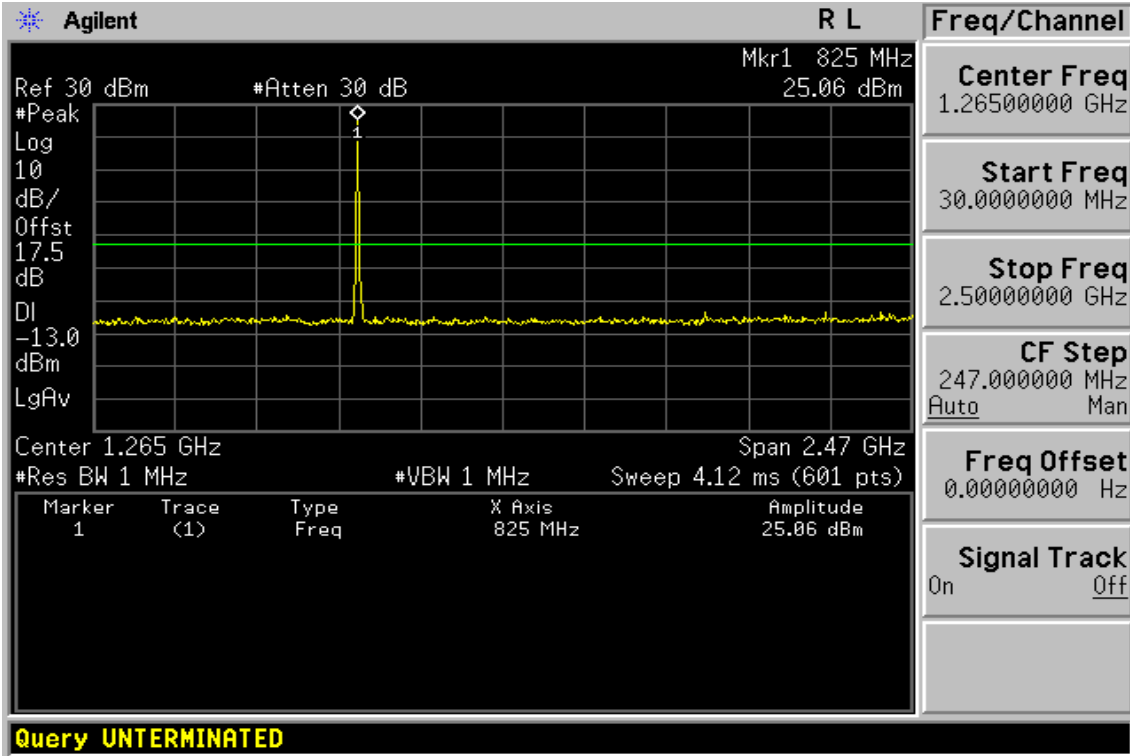
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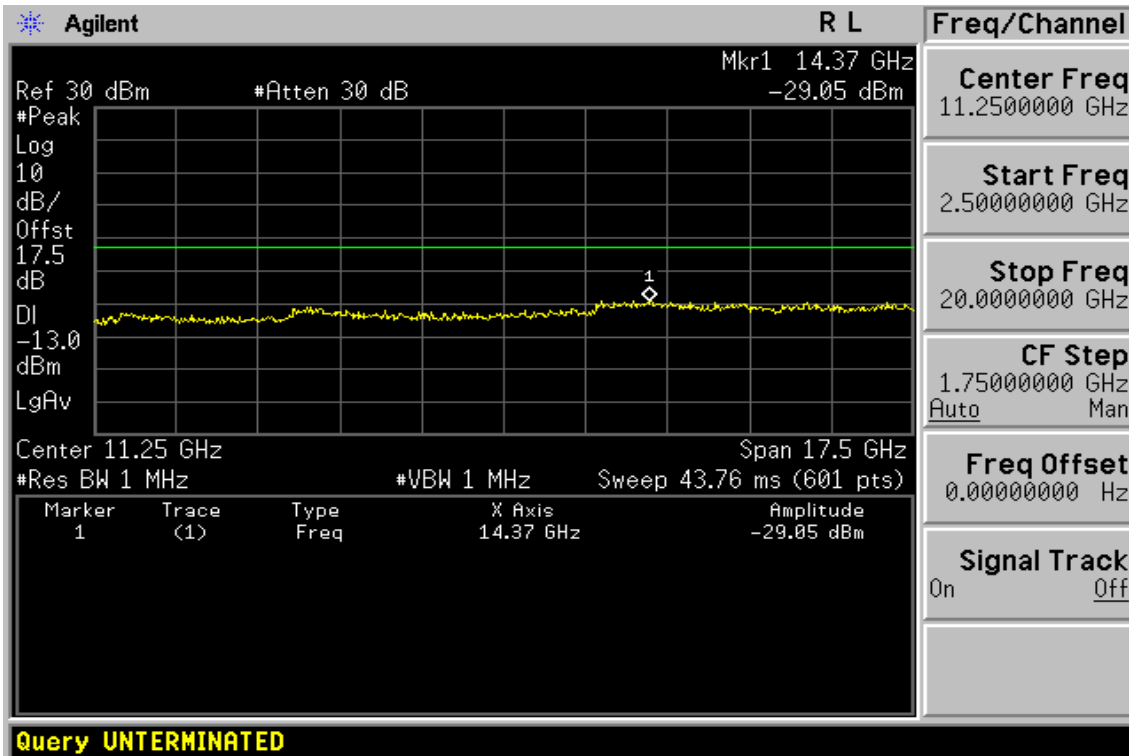
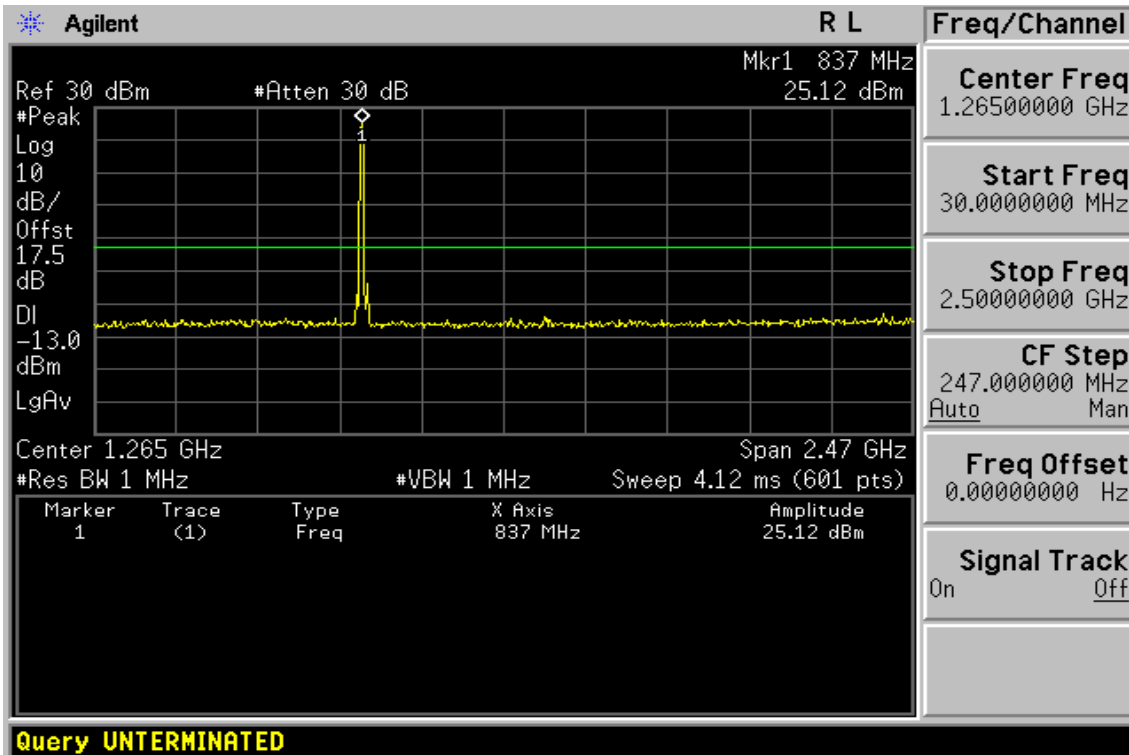
Figure 10-31: Out of Band emission at antenna terminals–WCDMA Band V Channel Lowest



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Figure 10-32: Out of Band emission at antenna terminals –WCDMA Band V Channel Mid



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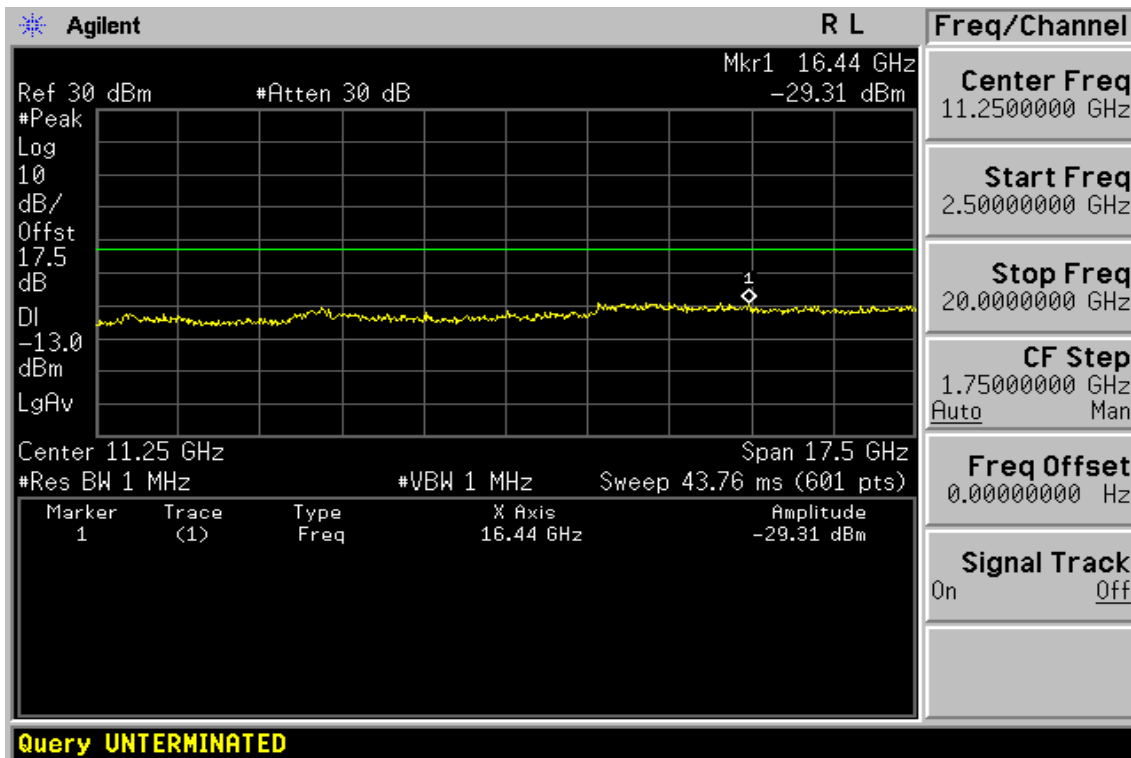
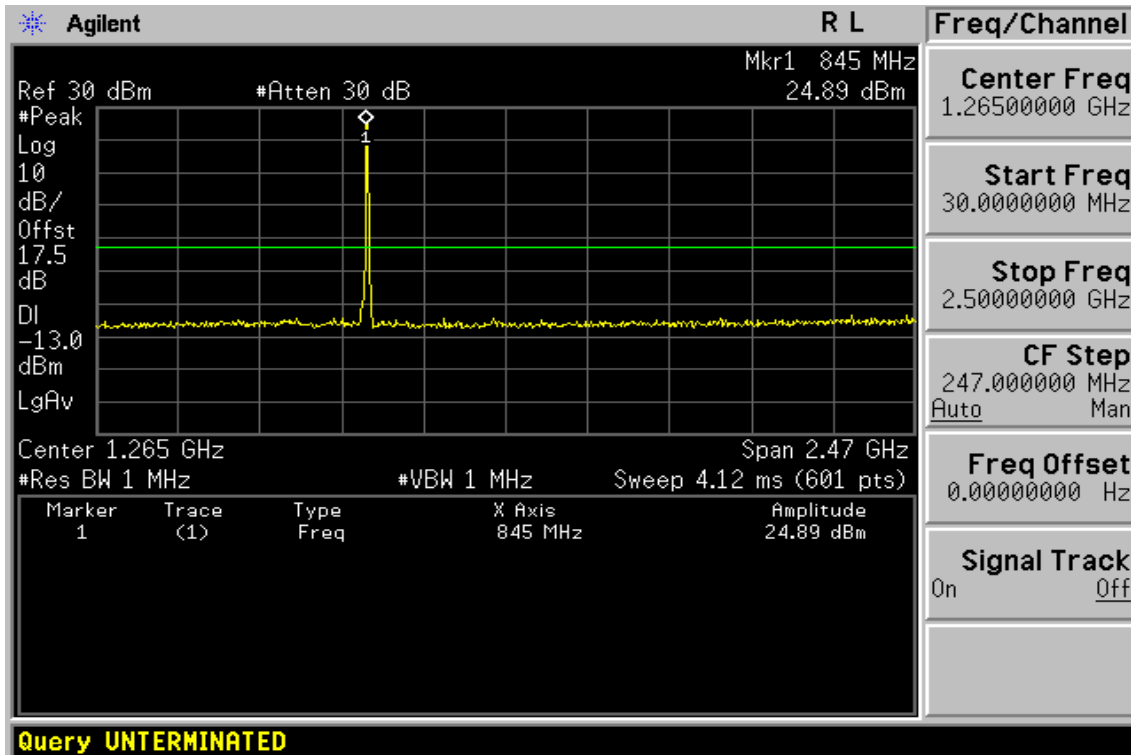
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Figure 10-33: Out of Band emission at antenna terminals–WCDMA Band V Channel Highest



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Figure 10-34: Band edge emission at antenna terminals –WCDMA Band V Channel Lowest

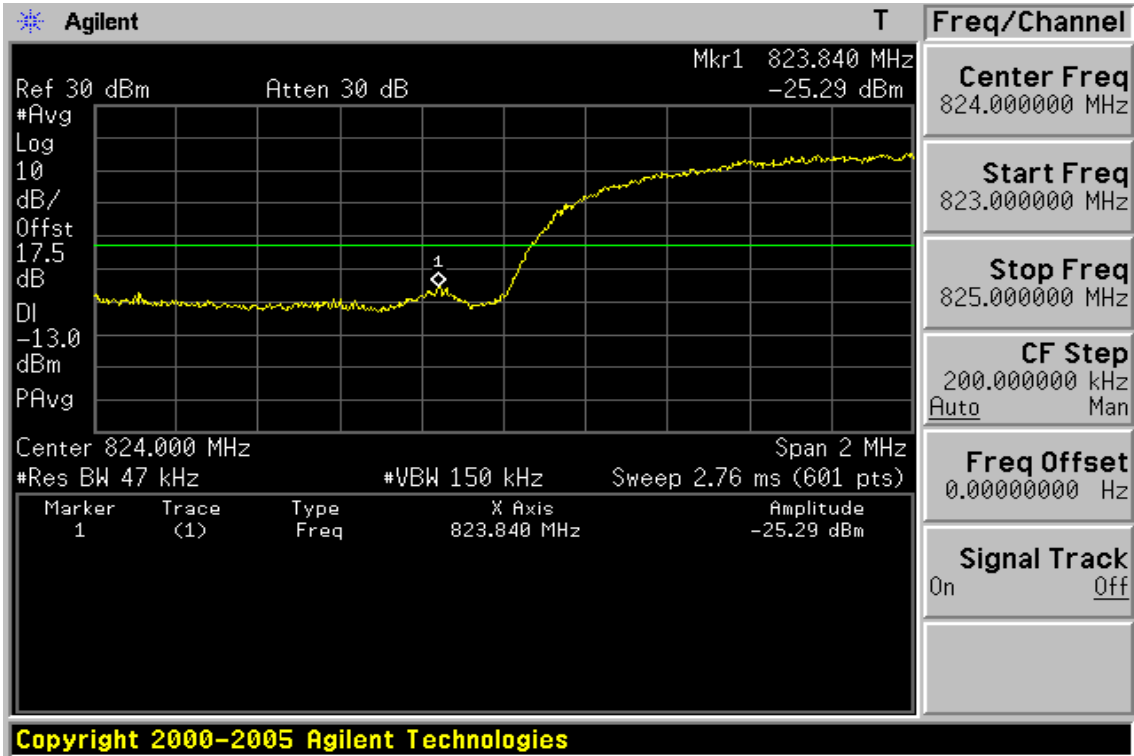
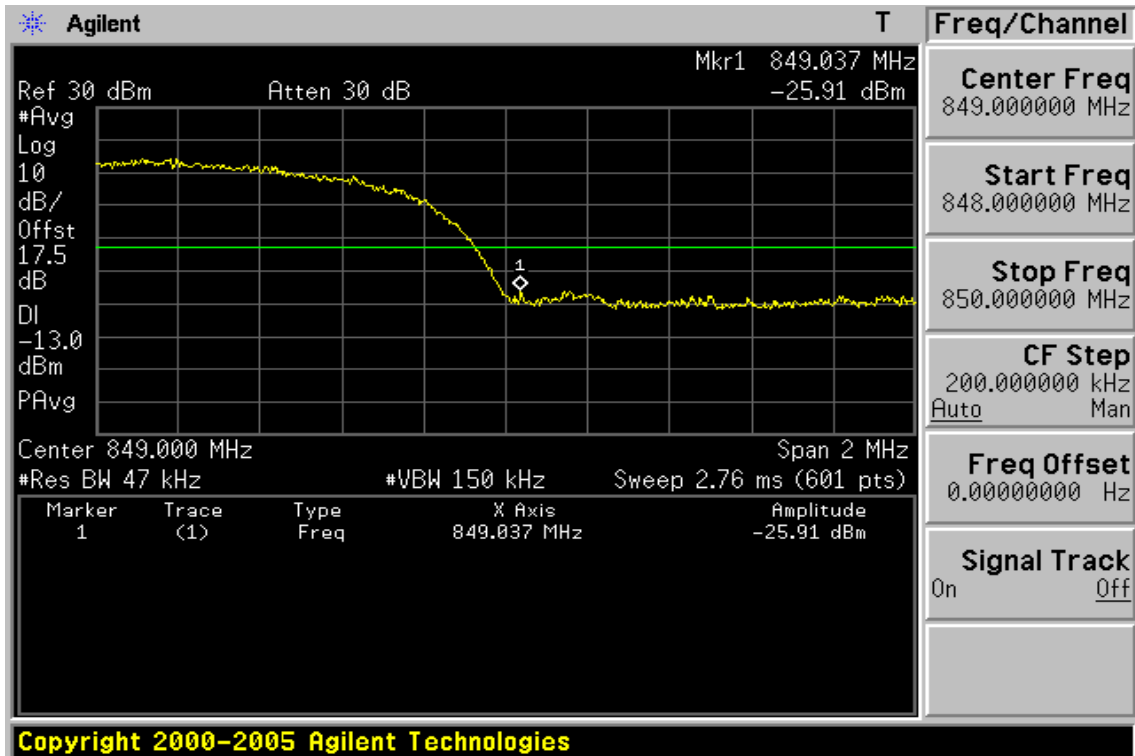


Figure 10-35: Band edge emission at antenna terminals –WCDMA Band V Highest

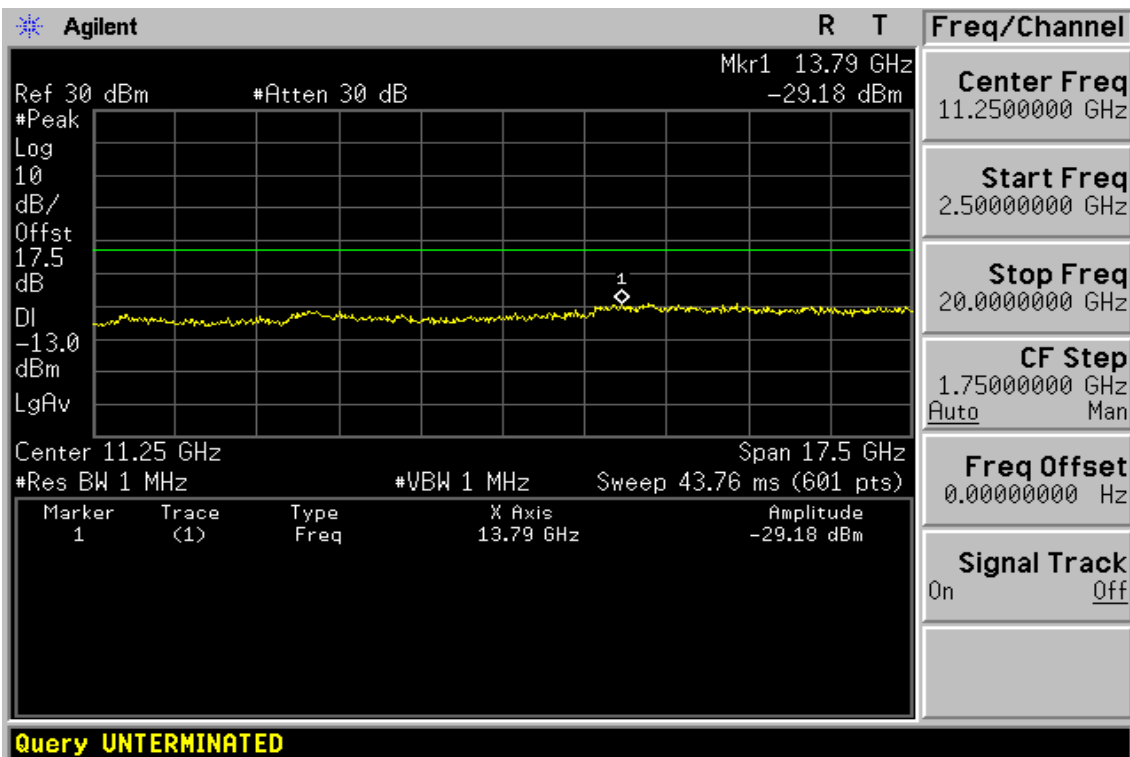
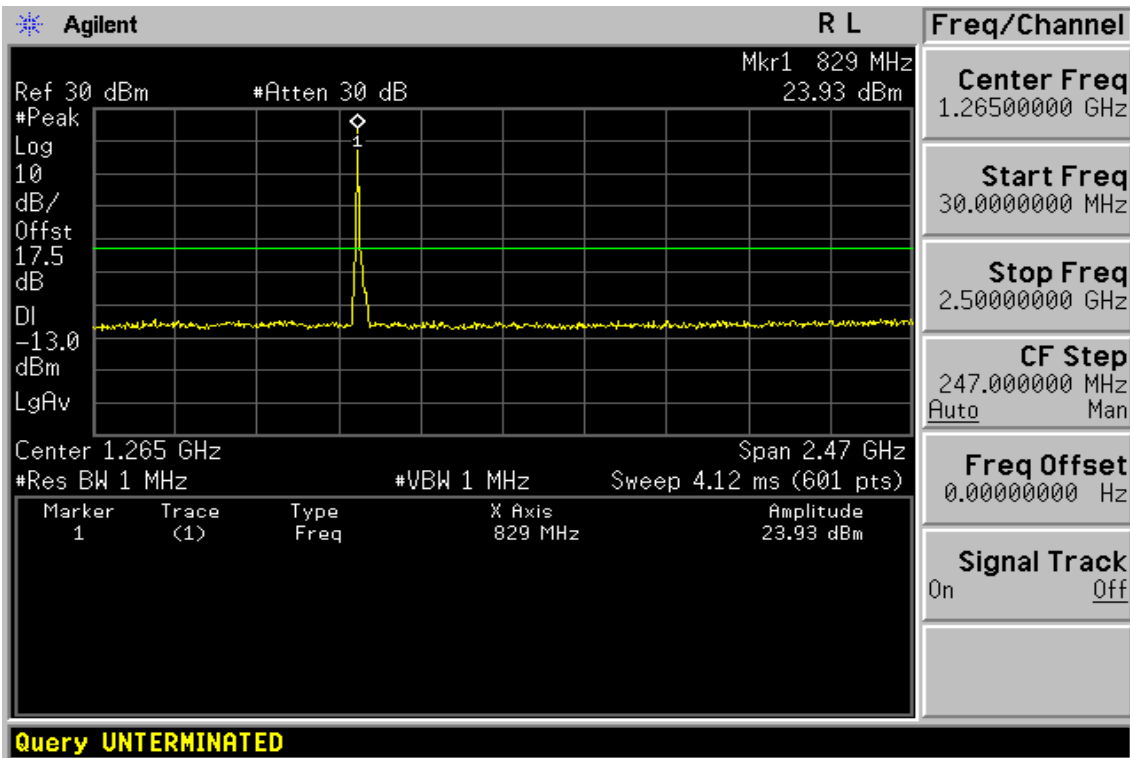


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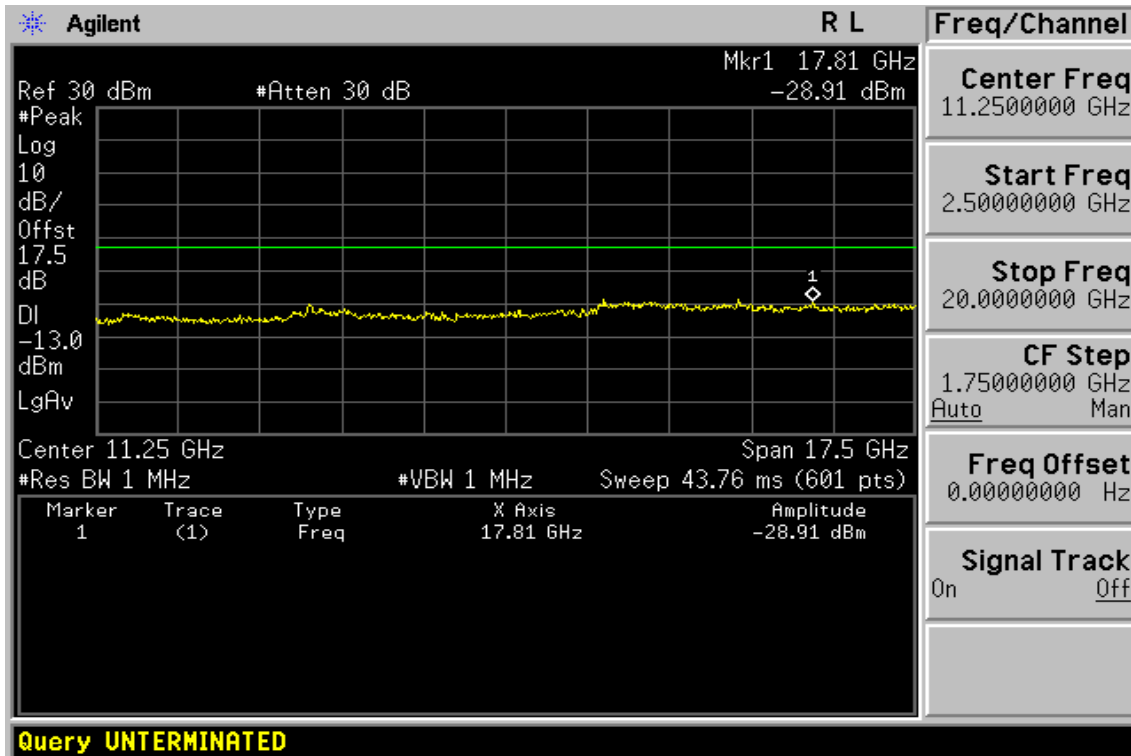
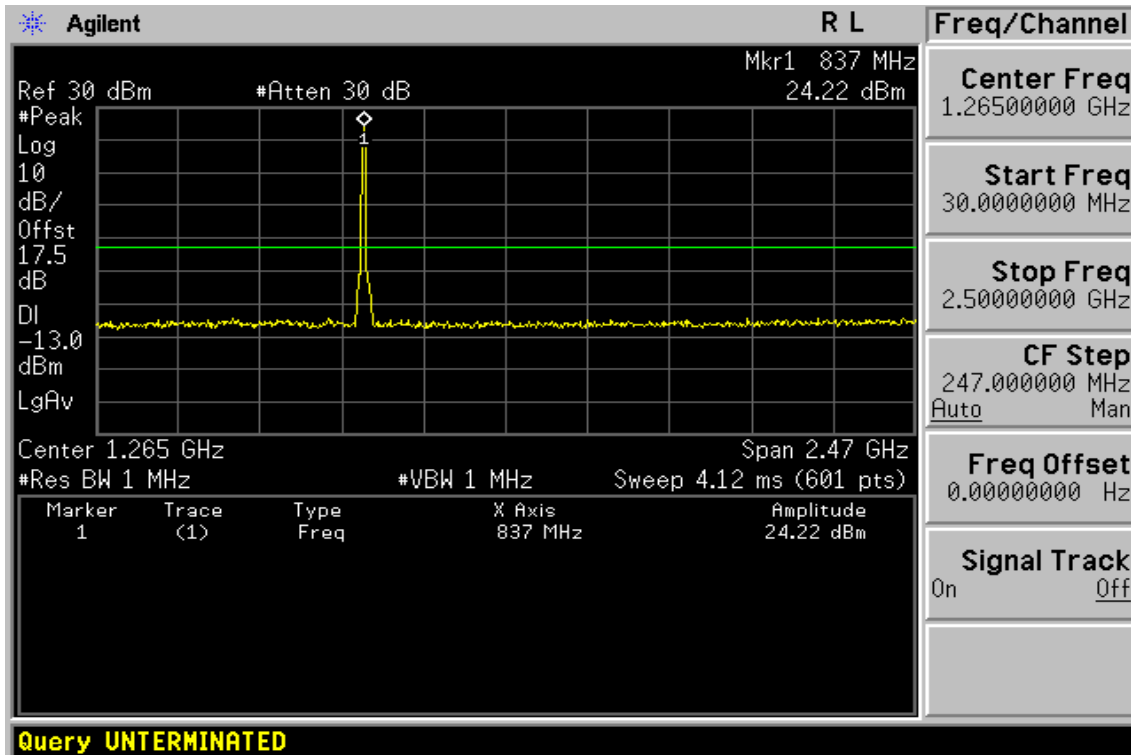
Figure 10-36: Out of Band emission at antenna terminals–HSUPA Band V Channel Lowest



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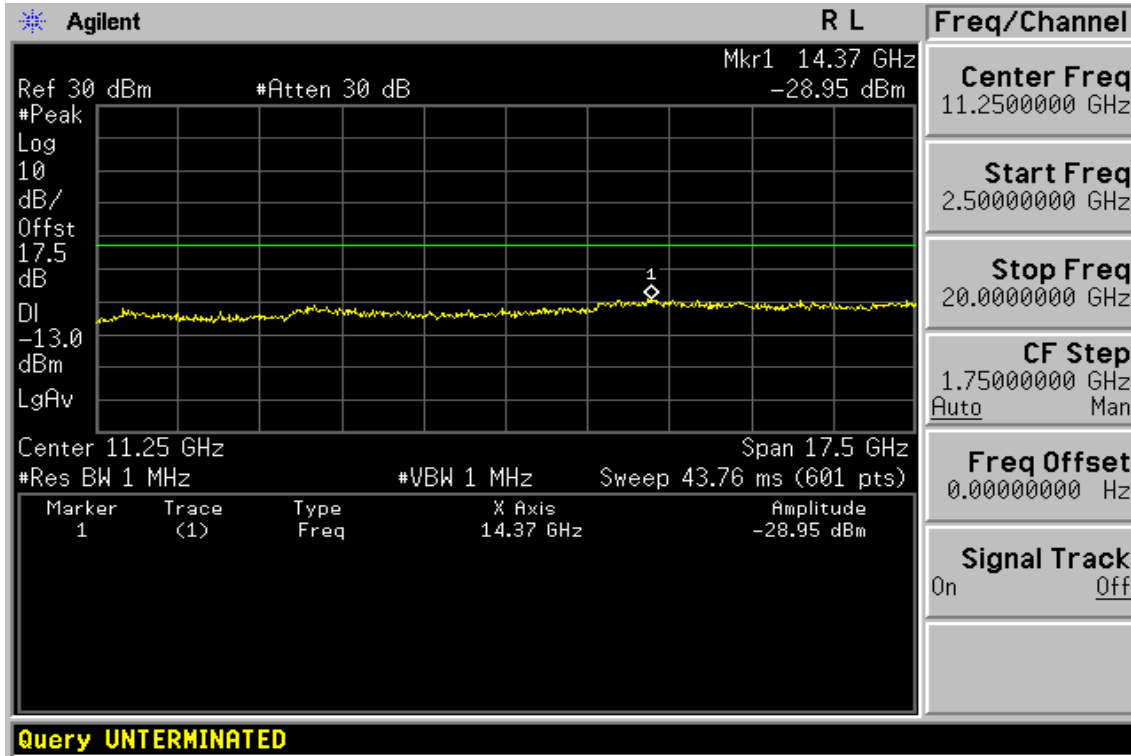
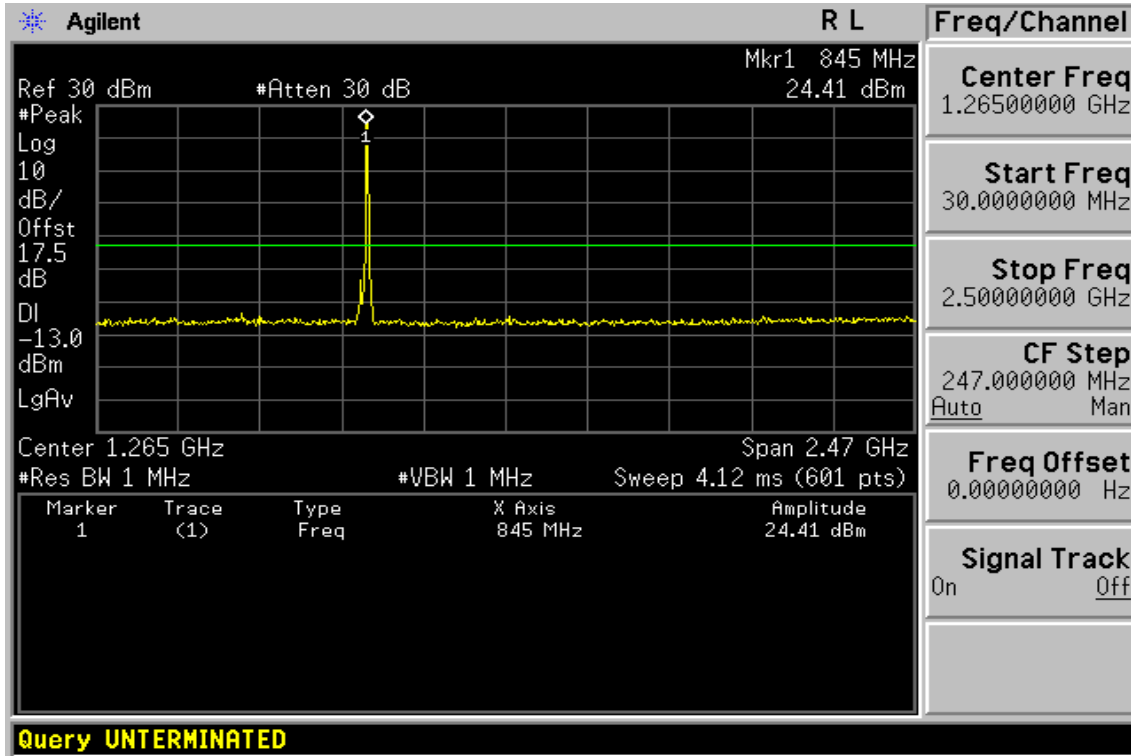
Figure 10-37: Out of Band emission at antenna terminals –HSUPA Band V Mid



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Figure 10-38: Out of Band emission at antenna terminals –HSUPA Band V Highest



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Figure 10-39: Band edge emission at antenna terminals –HSUPA Band V Lowest

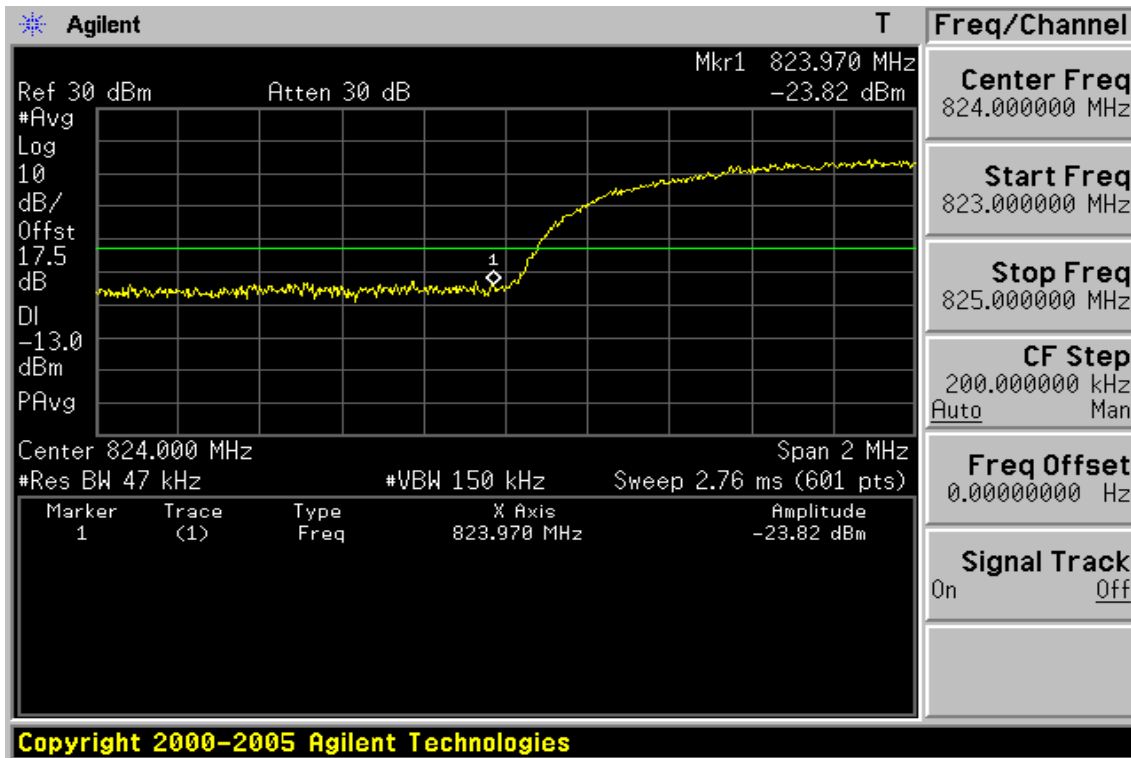
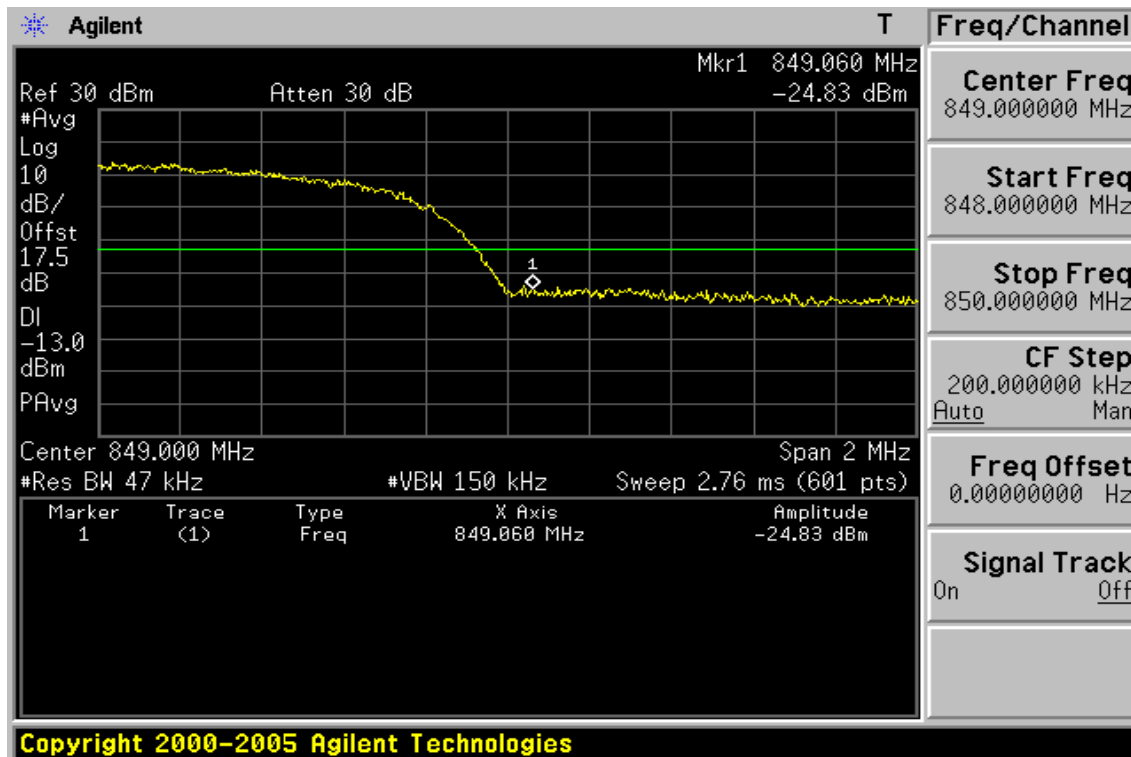


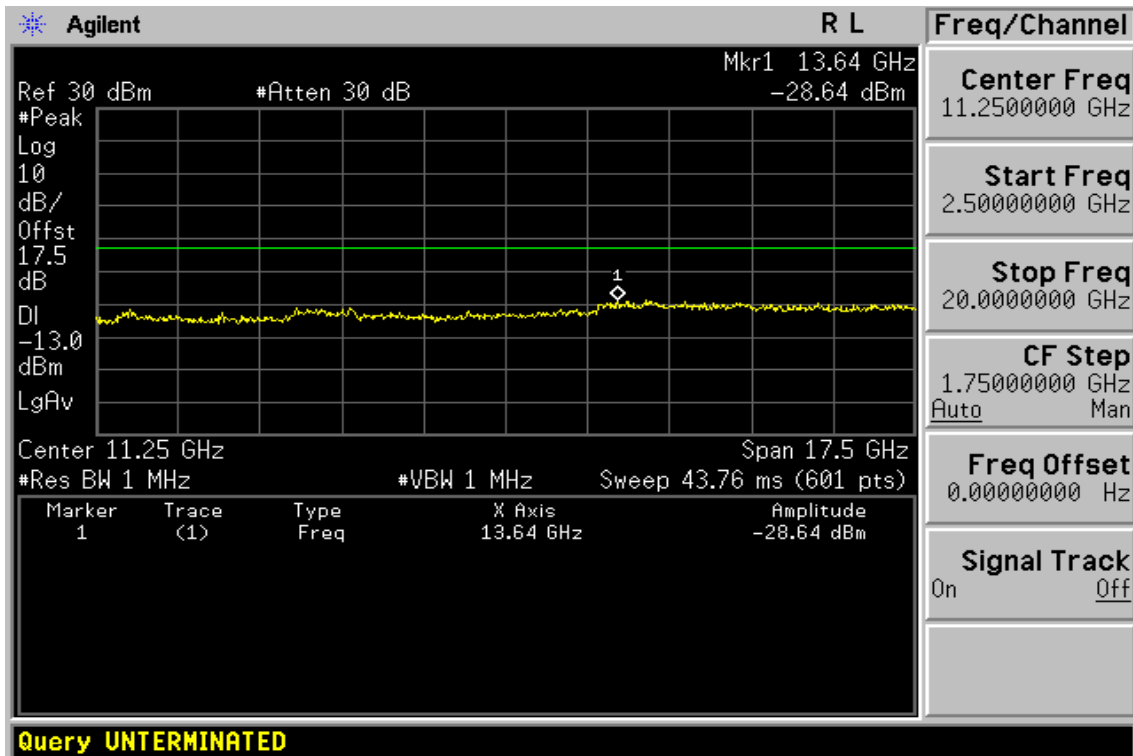
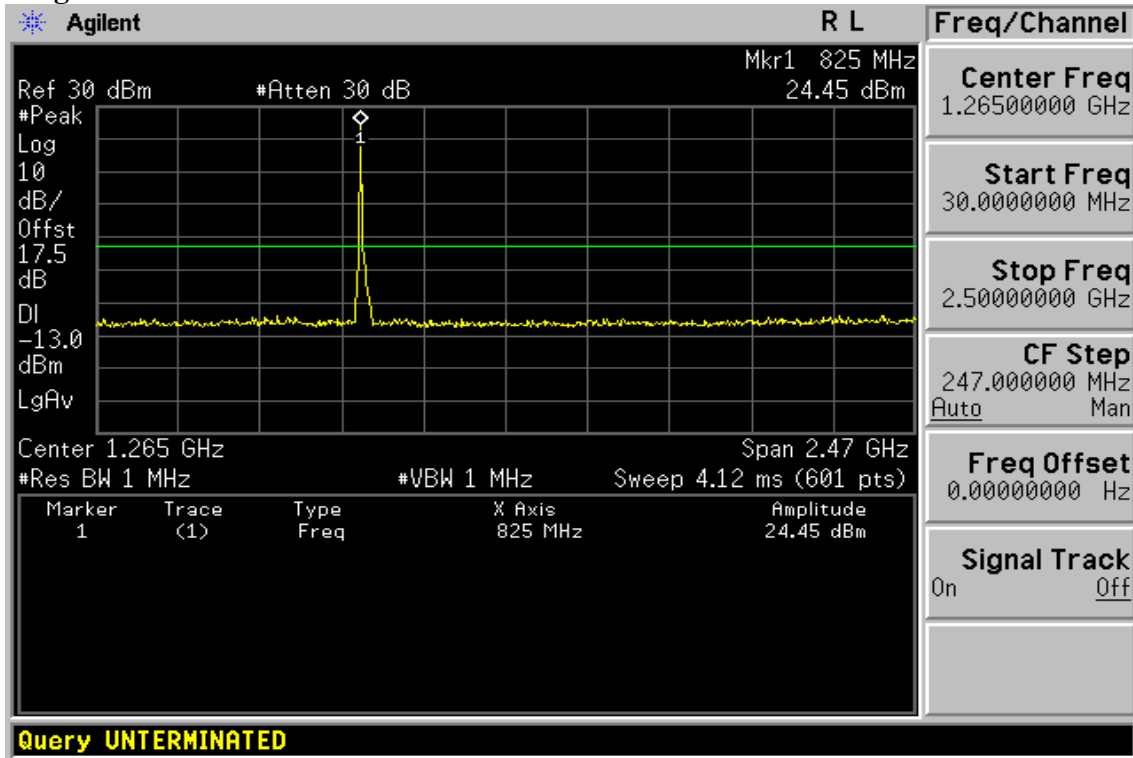
Figure 10-40: Band edge emission at antenna terminals –HSUPA Band V Highest



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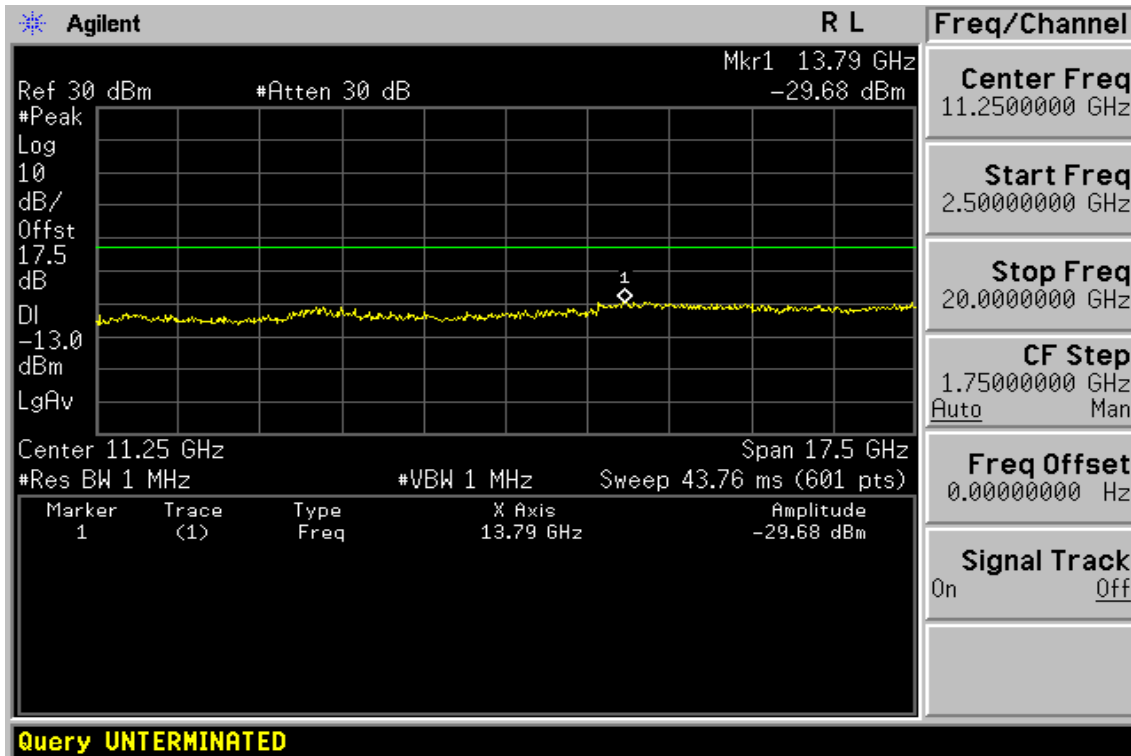
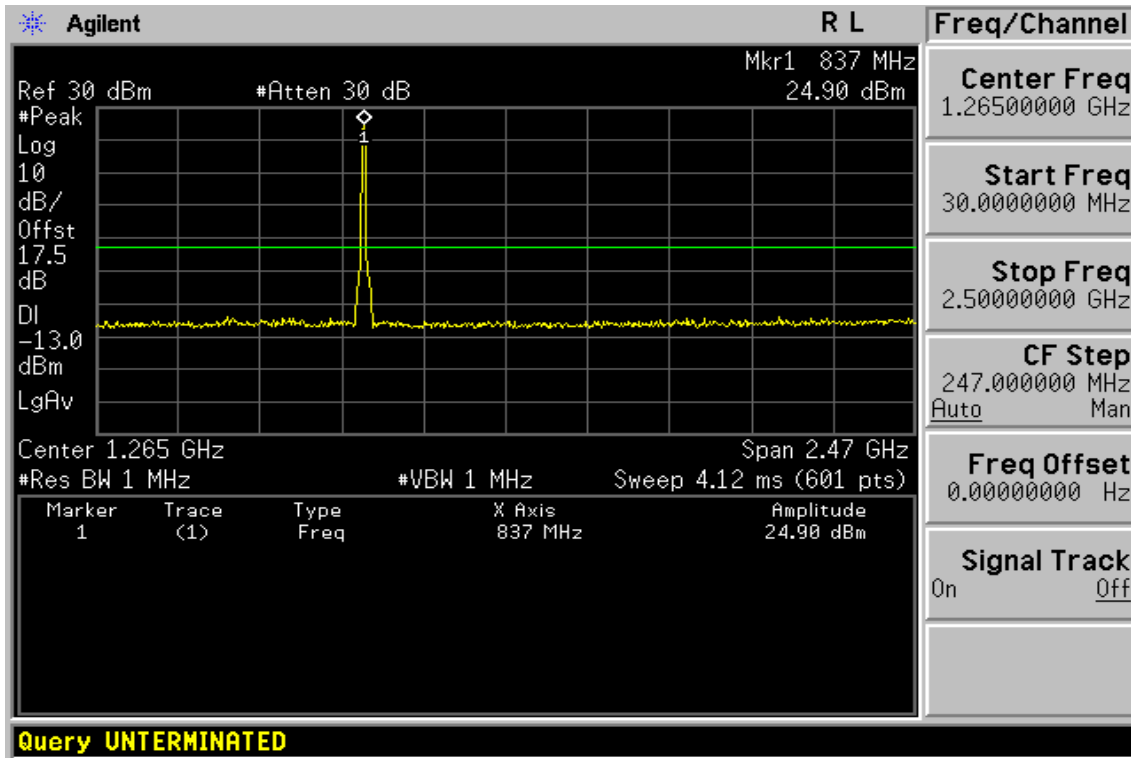
Figure 10-41: Out of Band emission at antenna terminals–HSDPA Band V Lowest



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Figure 10-42: Out of Band emission at antenna terminals –HSDPA Band V Mid

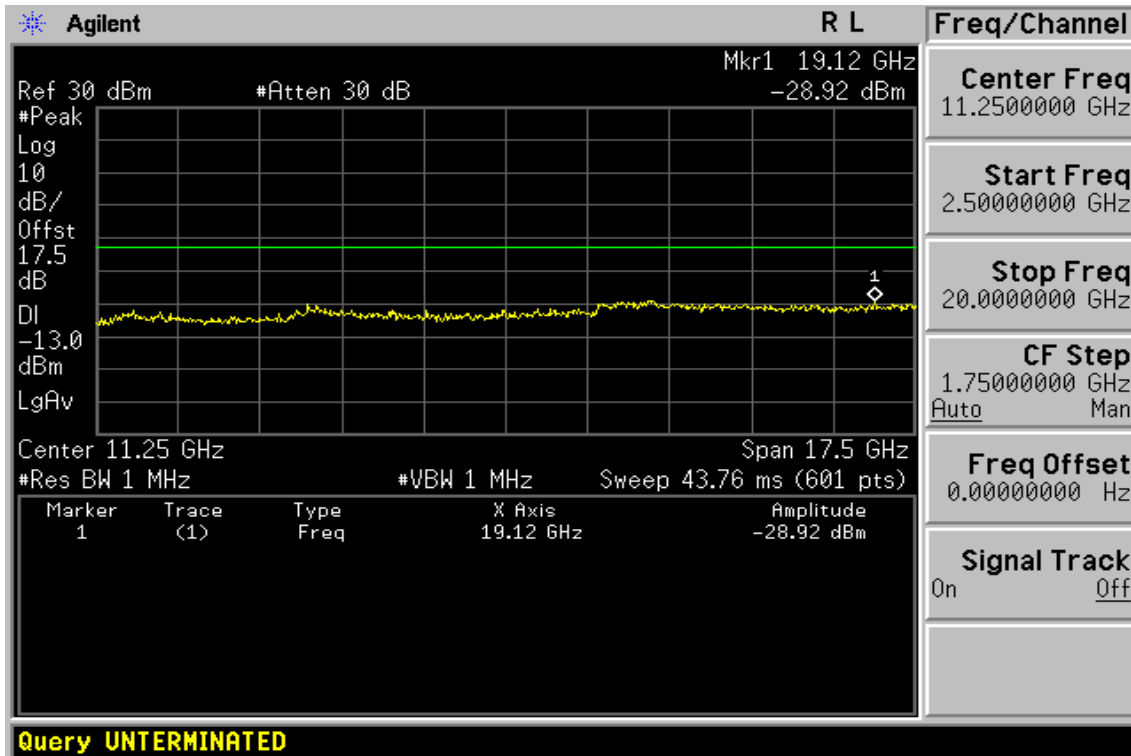
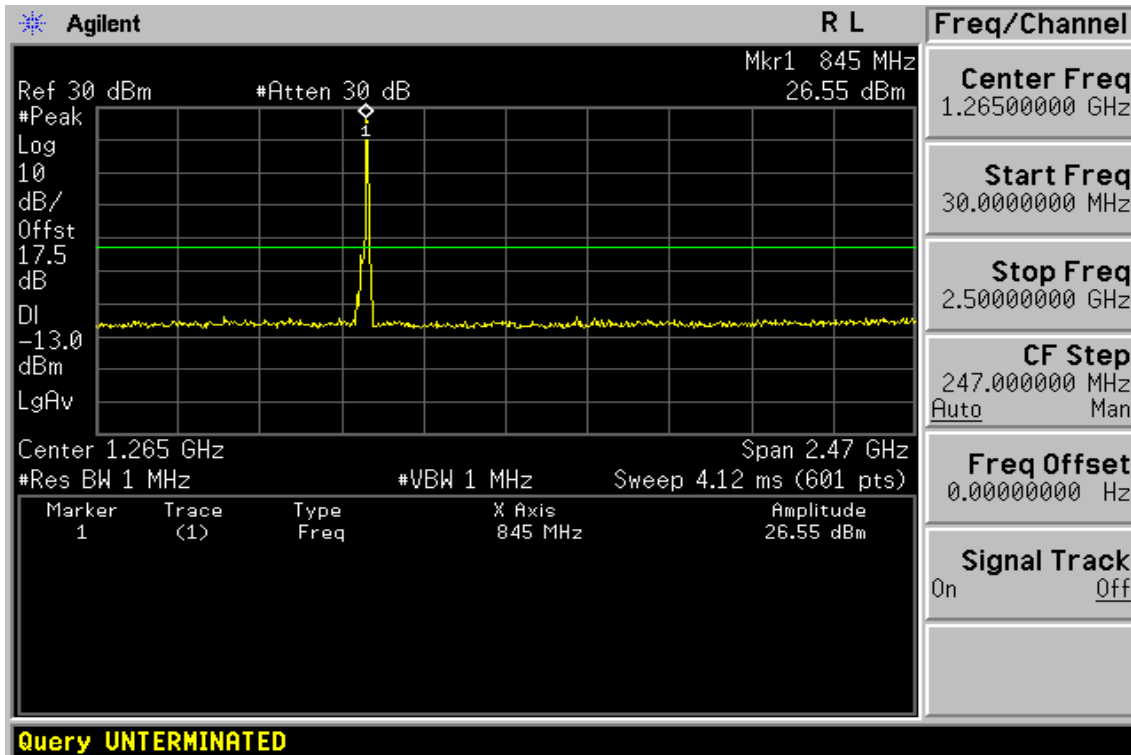


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Figure 10-43: Out of Band emission at antenna terminals–HSDPA Band V Highest



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Figure 10-44: Band edge emission at antenna terminals –HSDPA Band V Lowest

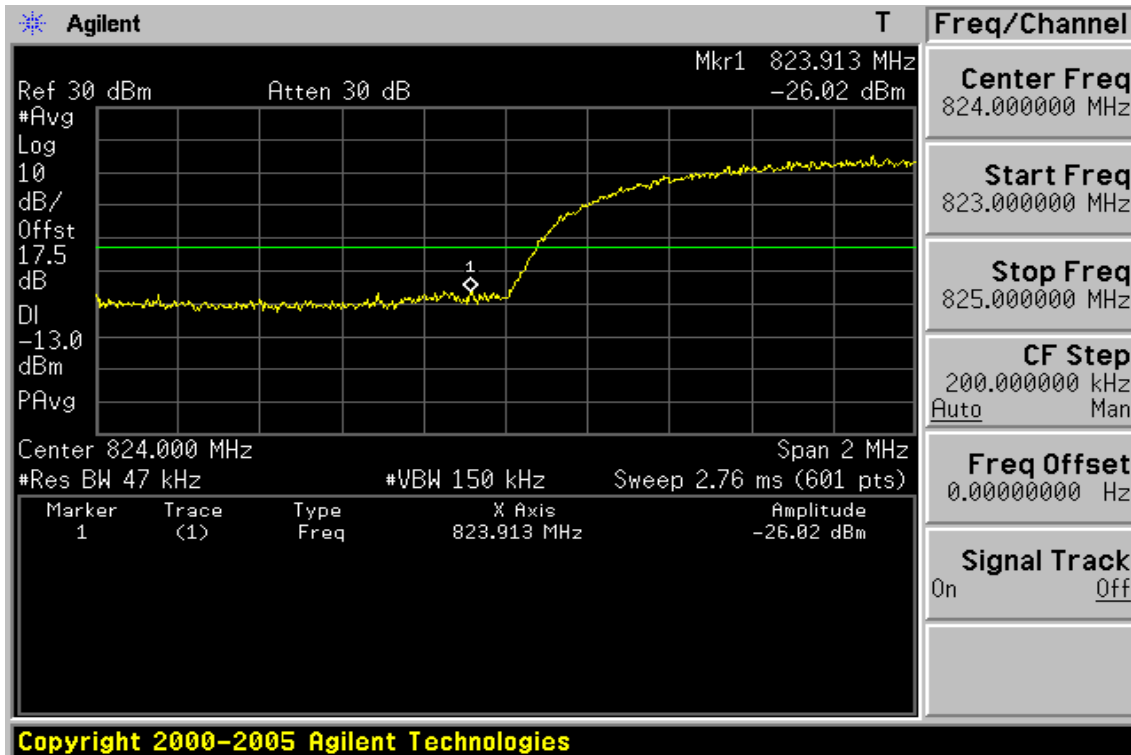
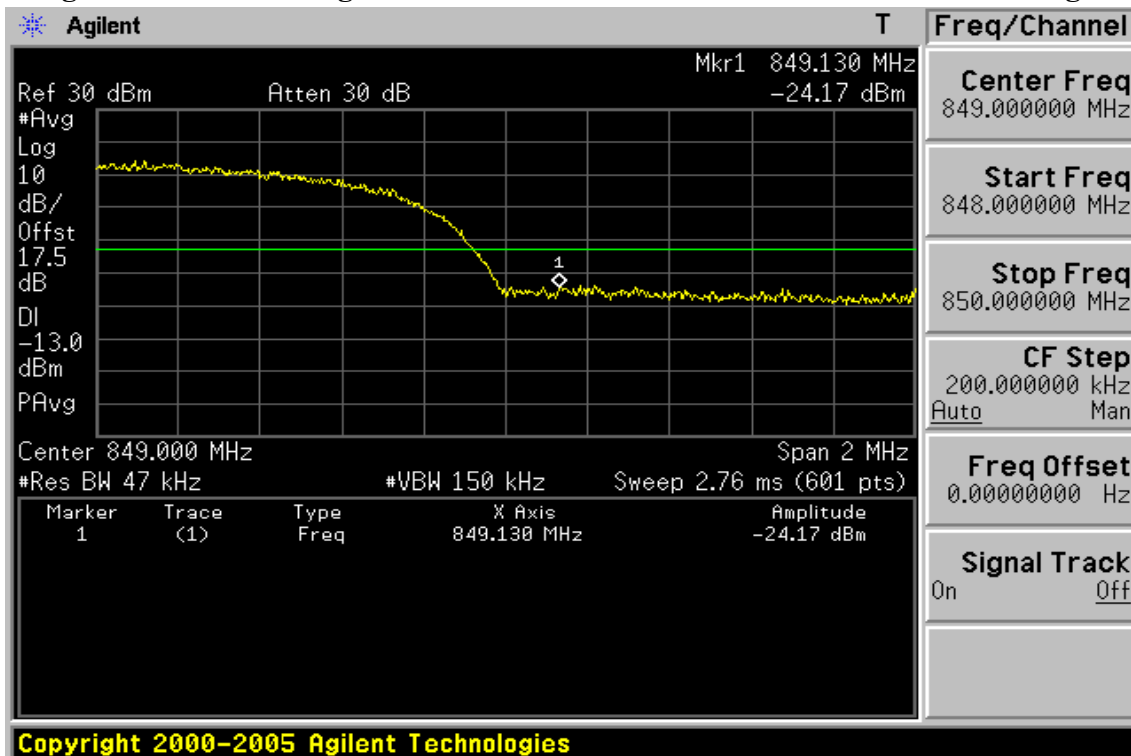


Figure 10-45: Band edge emission at antenna terminals –HSDPA Band V Highest

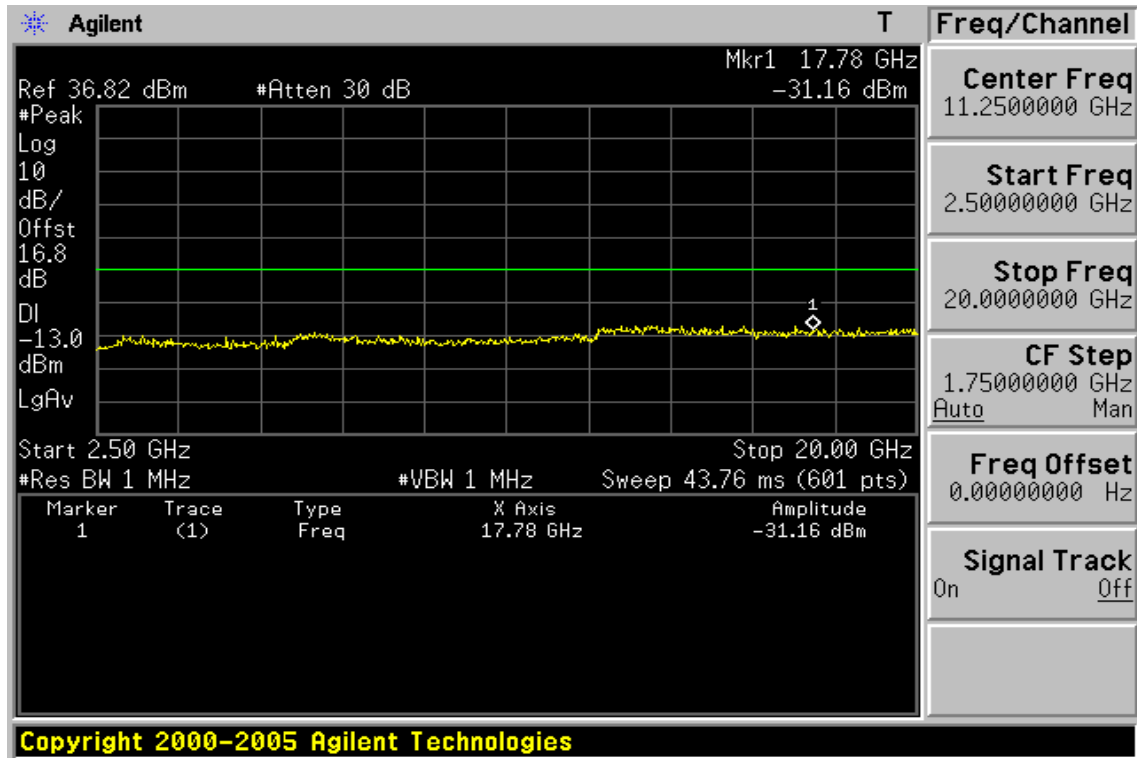
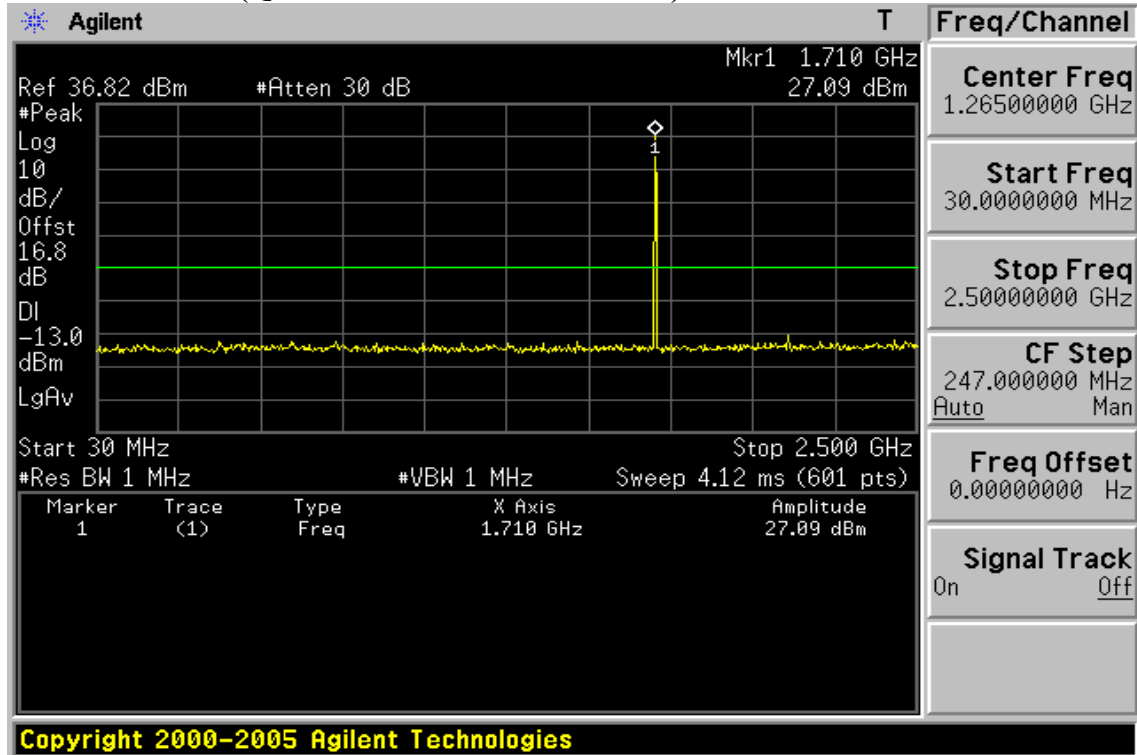


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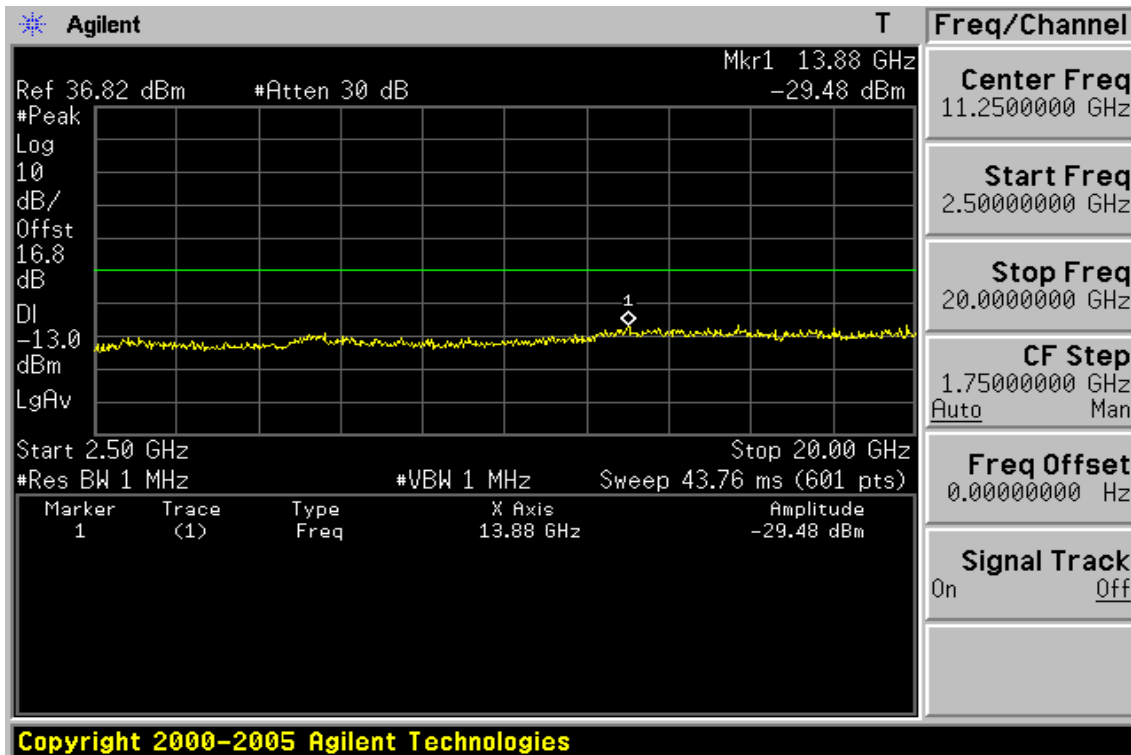
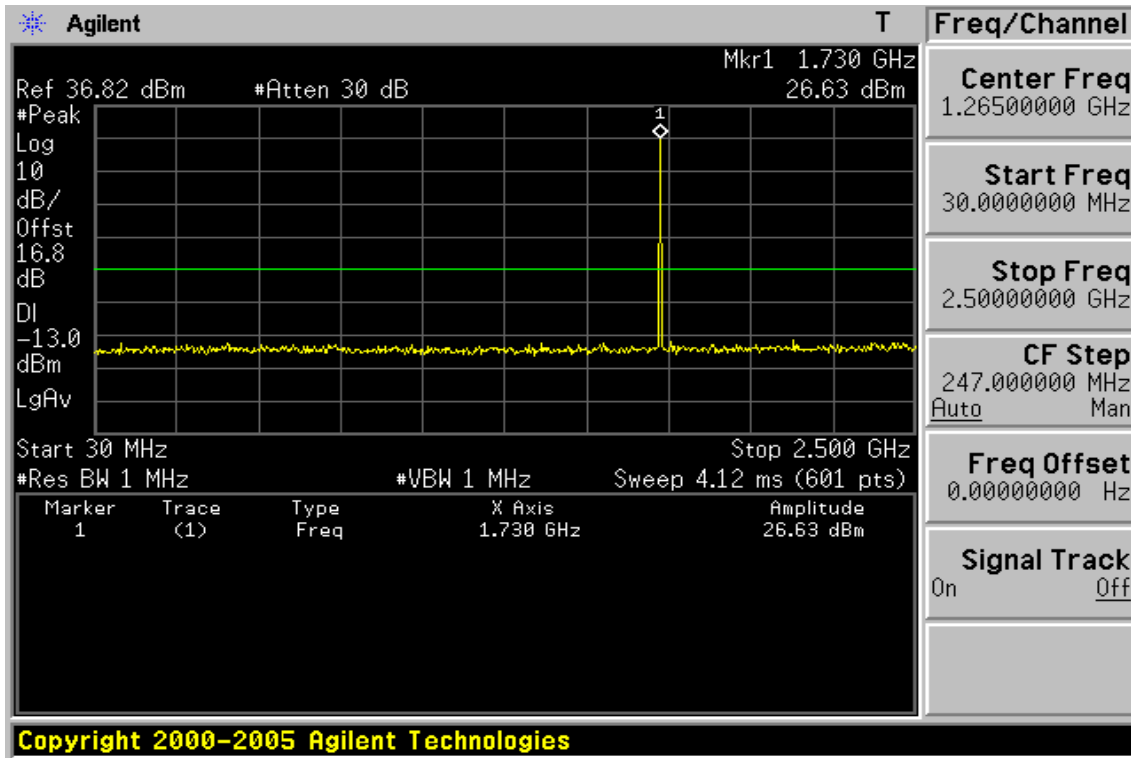
Figure 10-46: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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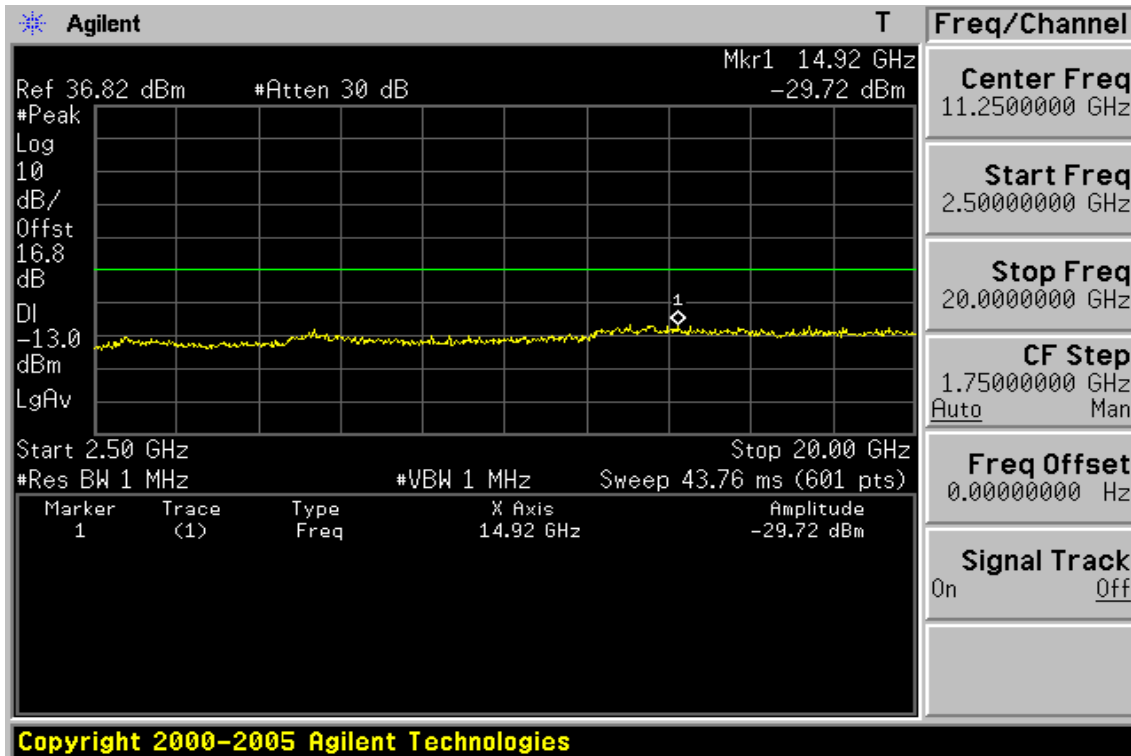
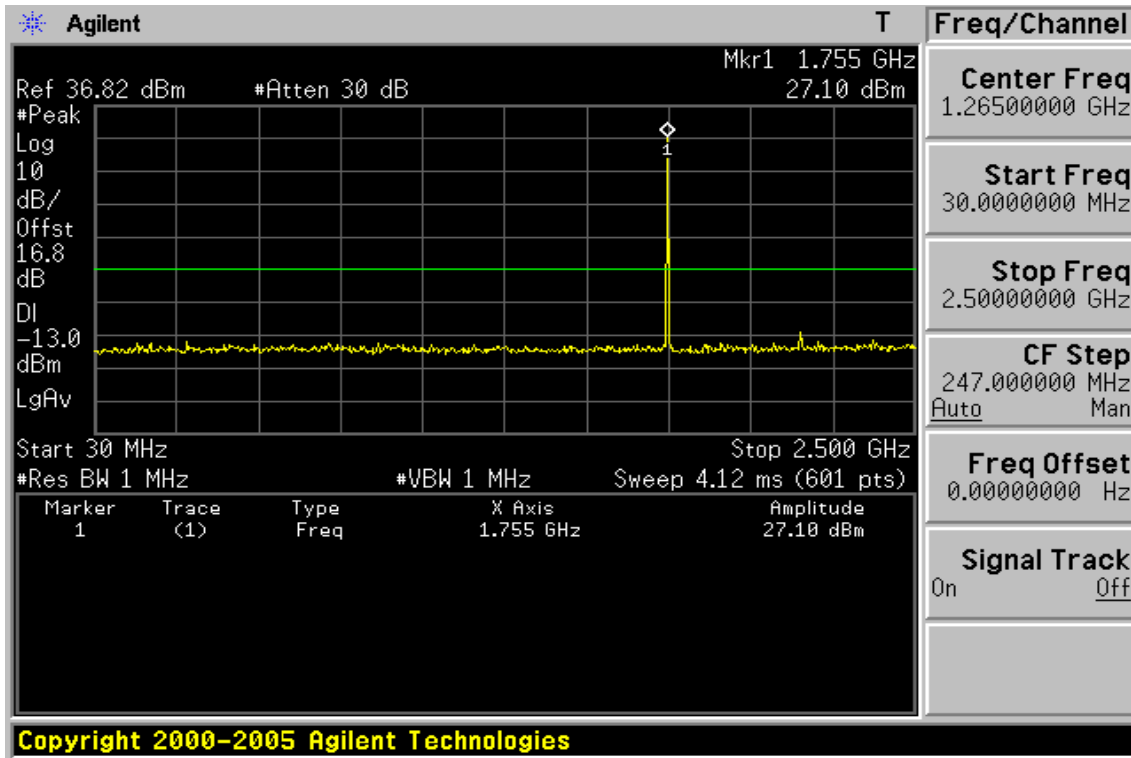
Figure 10-47: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Figure 10-48: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 10-49: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

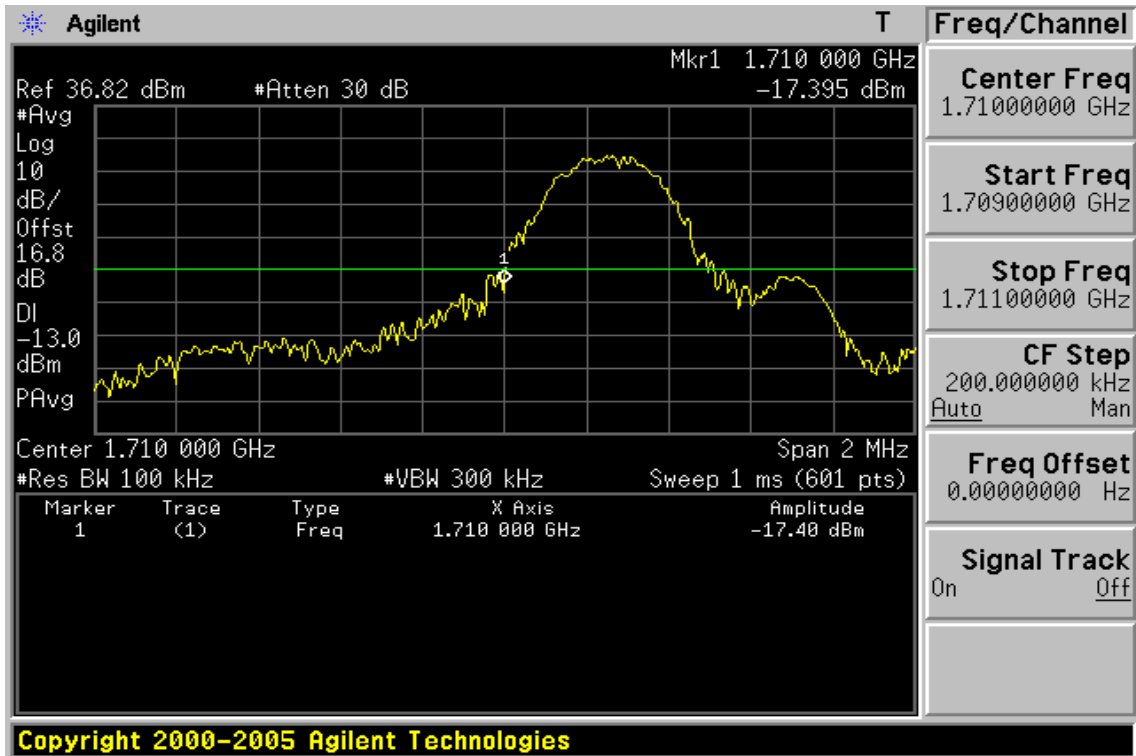
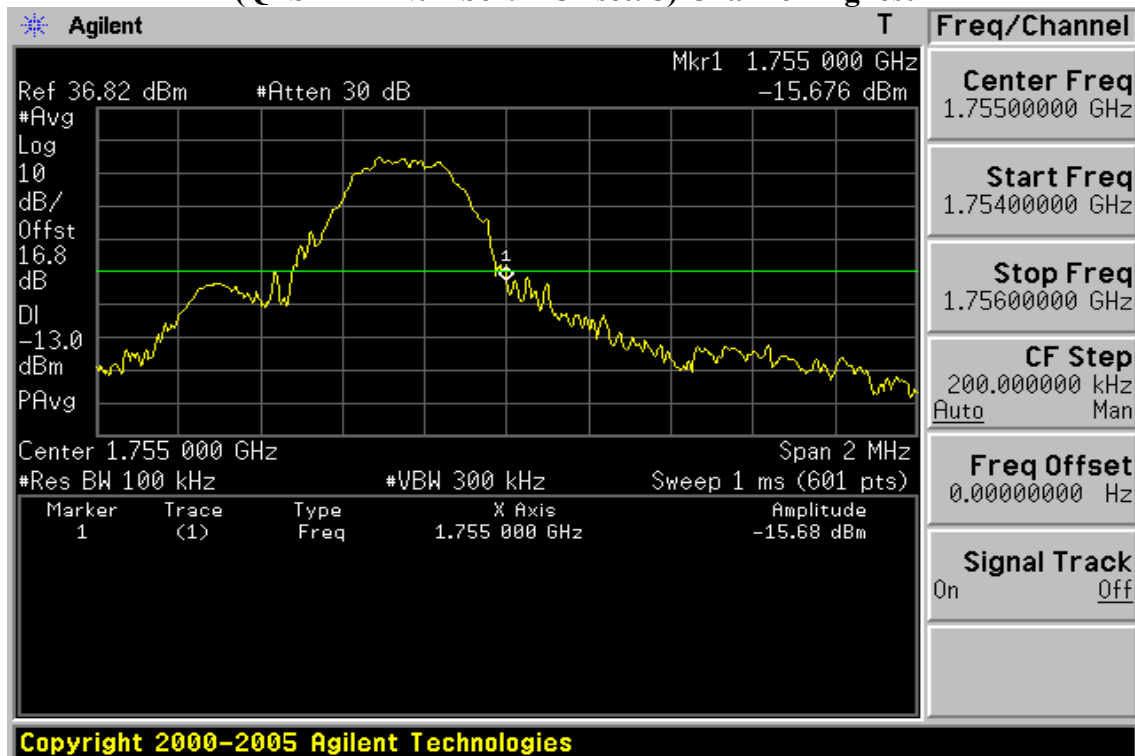


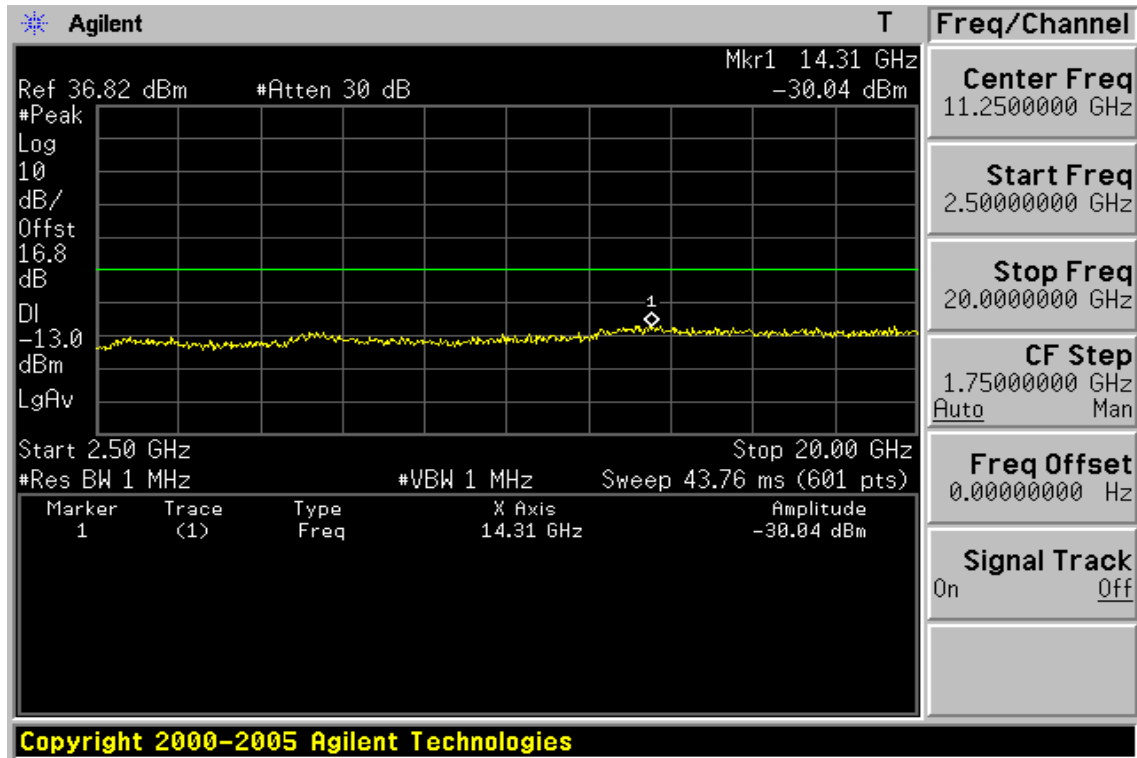
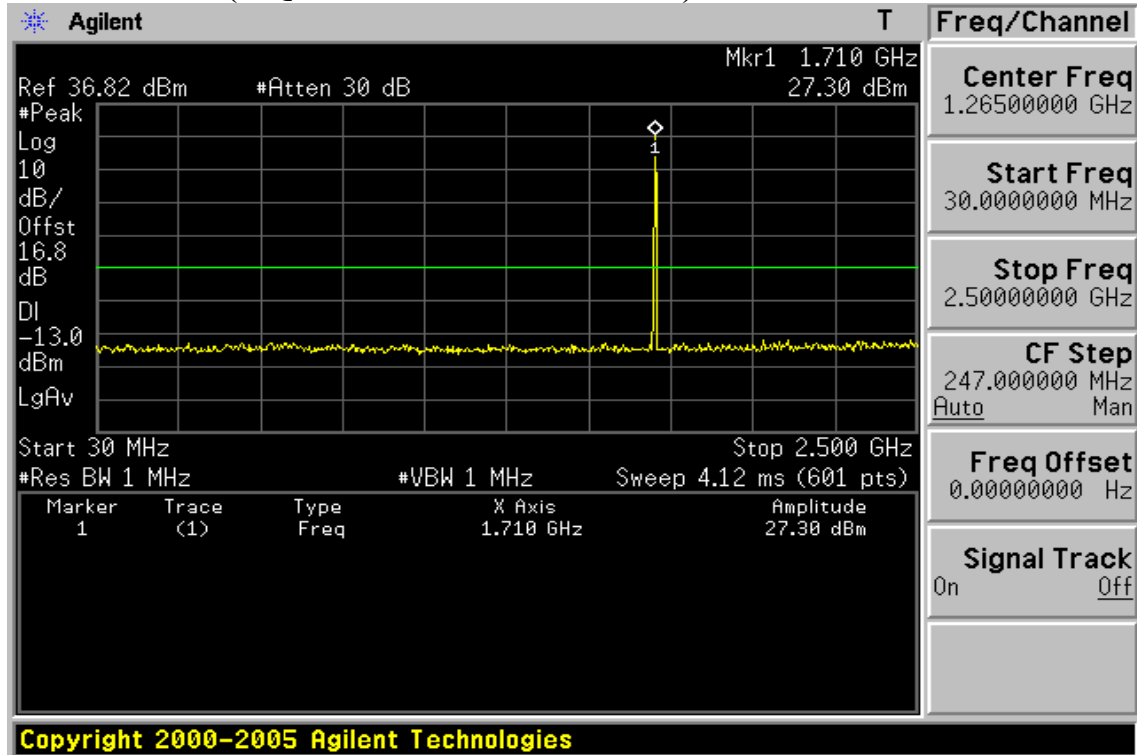
Figure 10-50: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 5) Channel Highest



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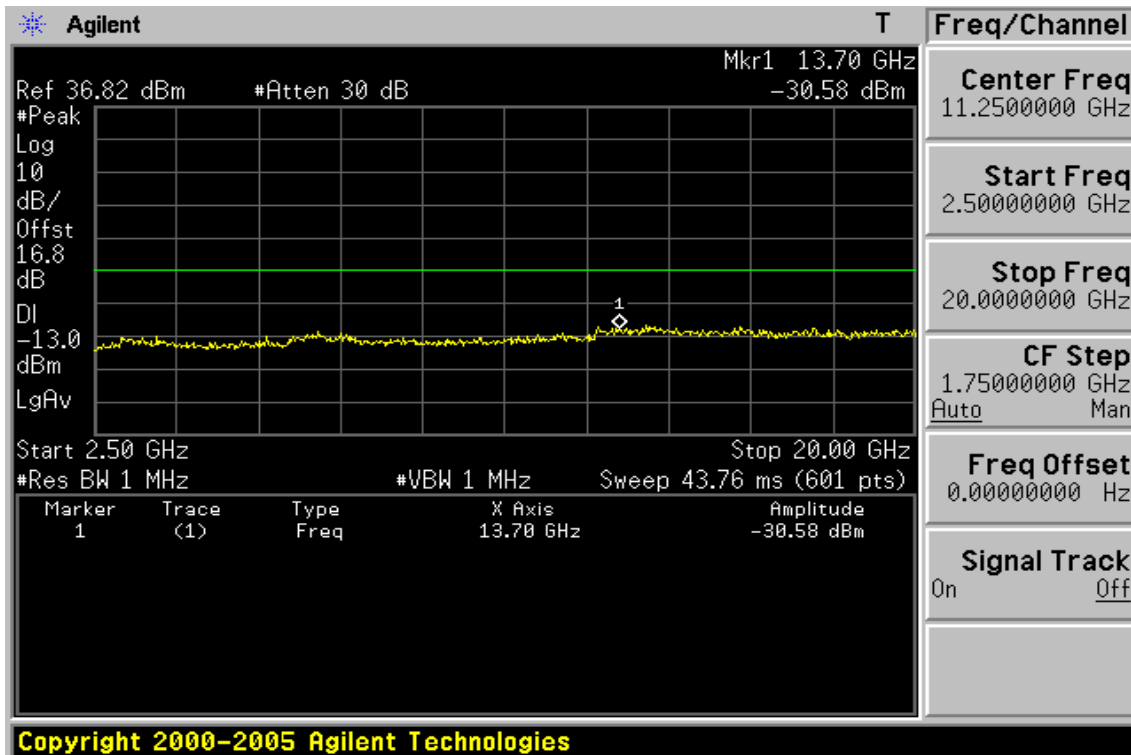
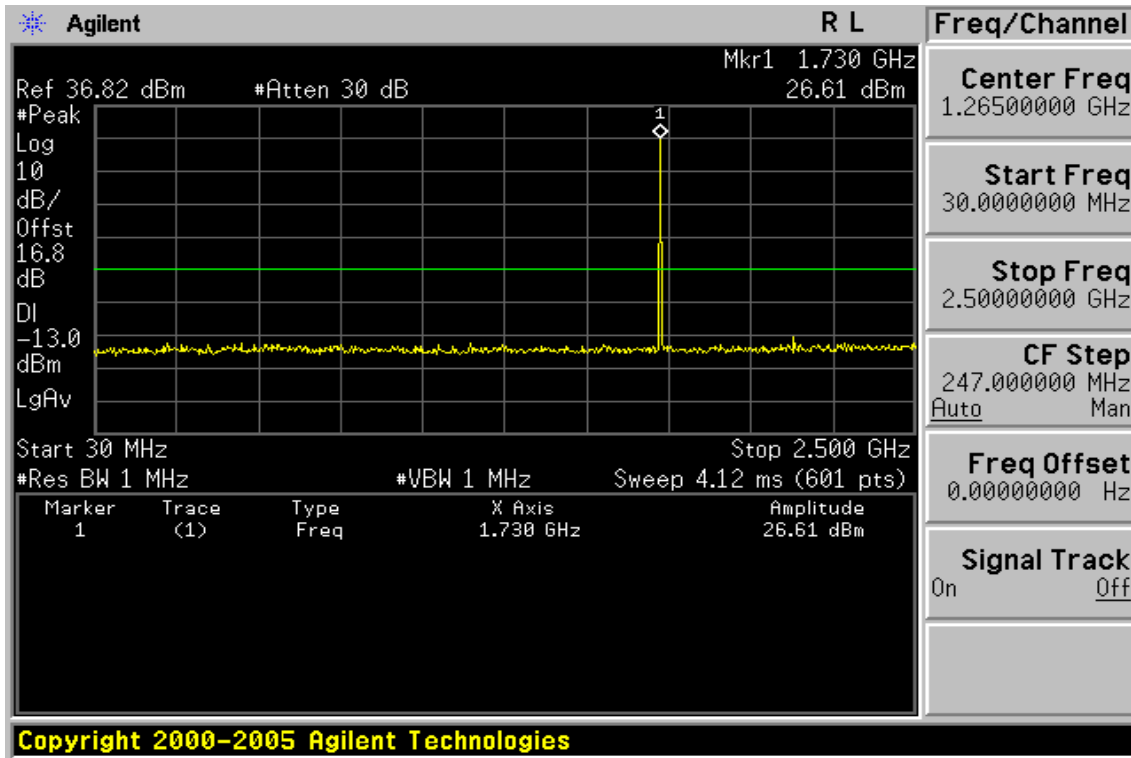
Figure 10-51: Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Lowest



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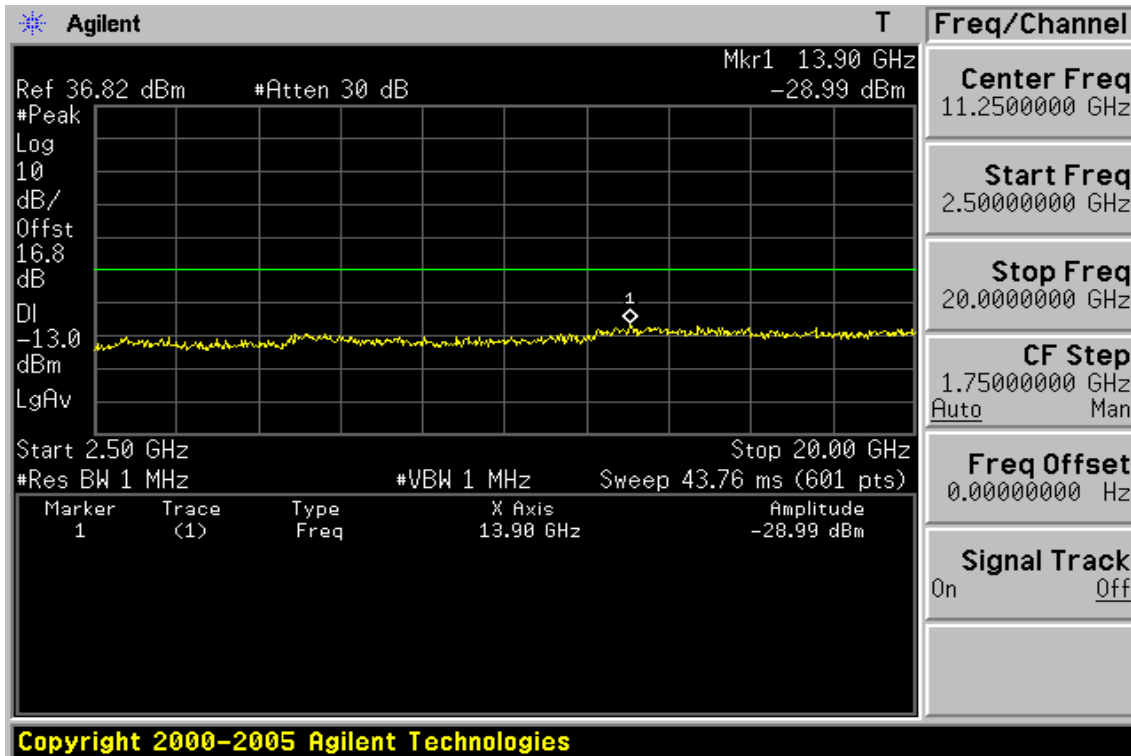
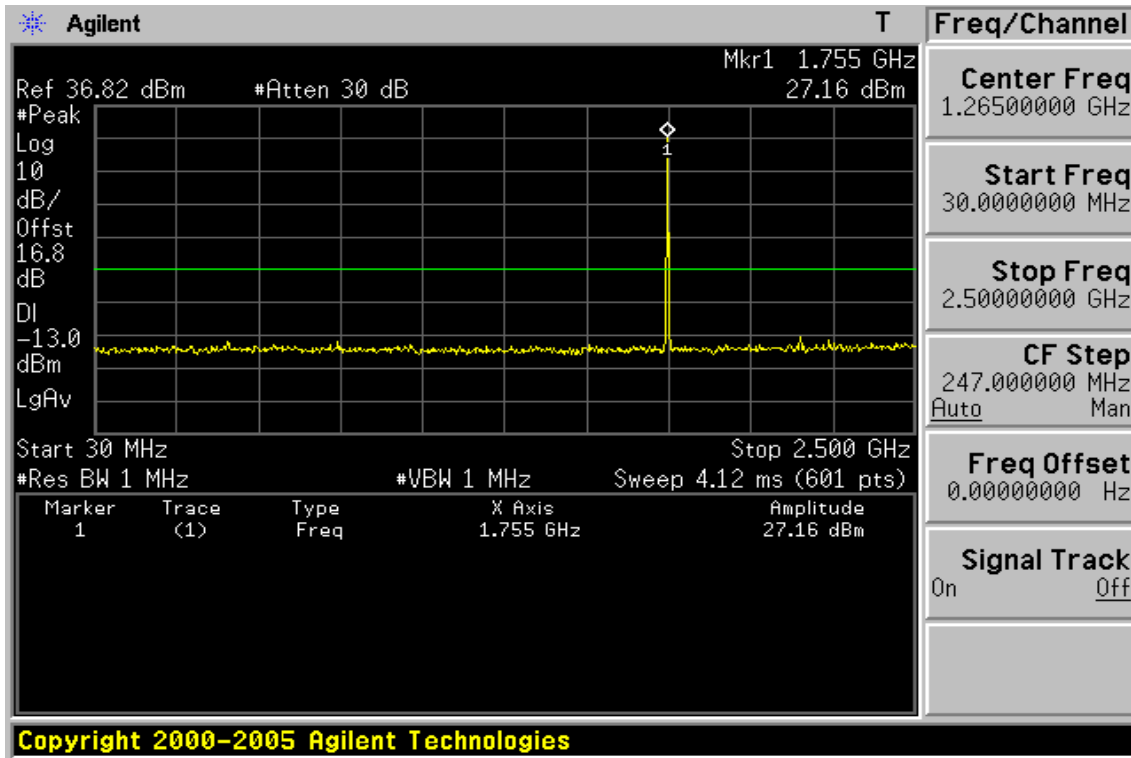
Figure 10-52: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Mid



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Figure 10-53: Out of Band emission at antenna terminals –1.4MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Highest



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Figure 10-54: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Lowest

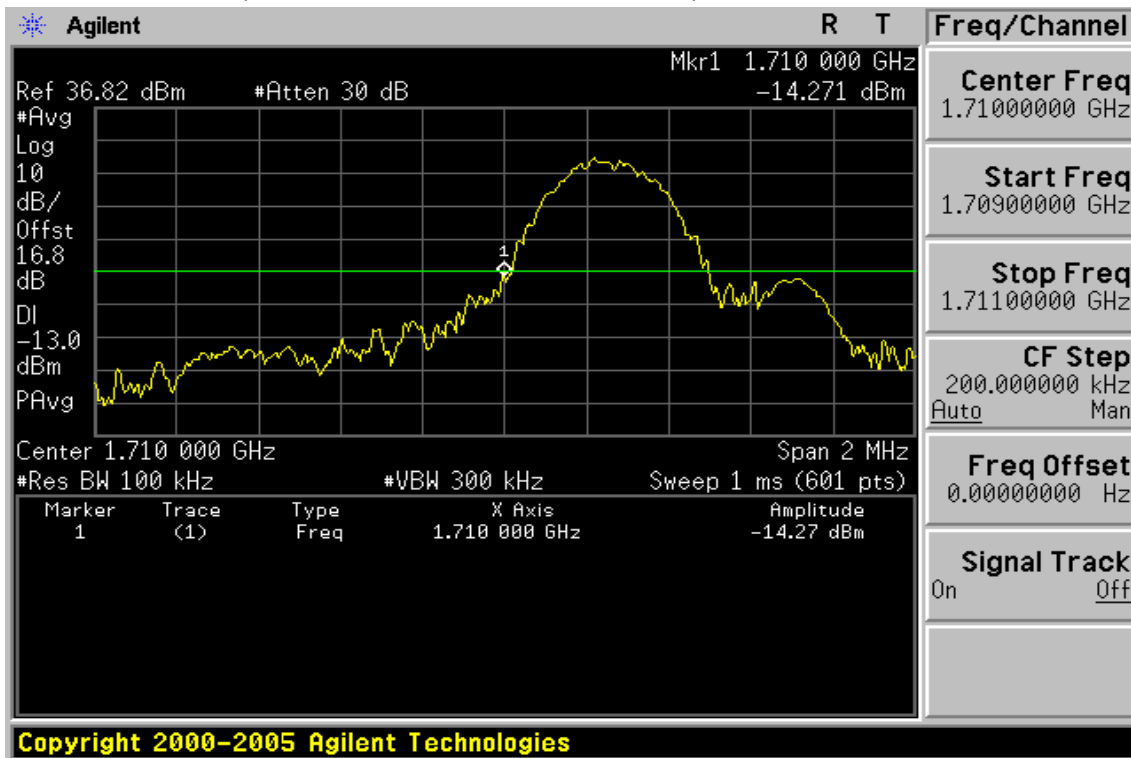


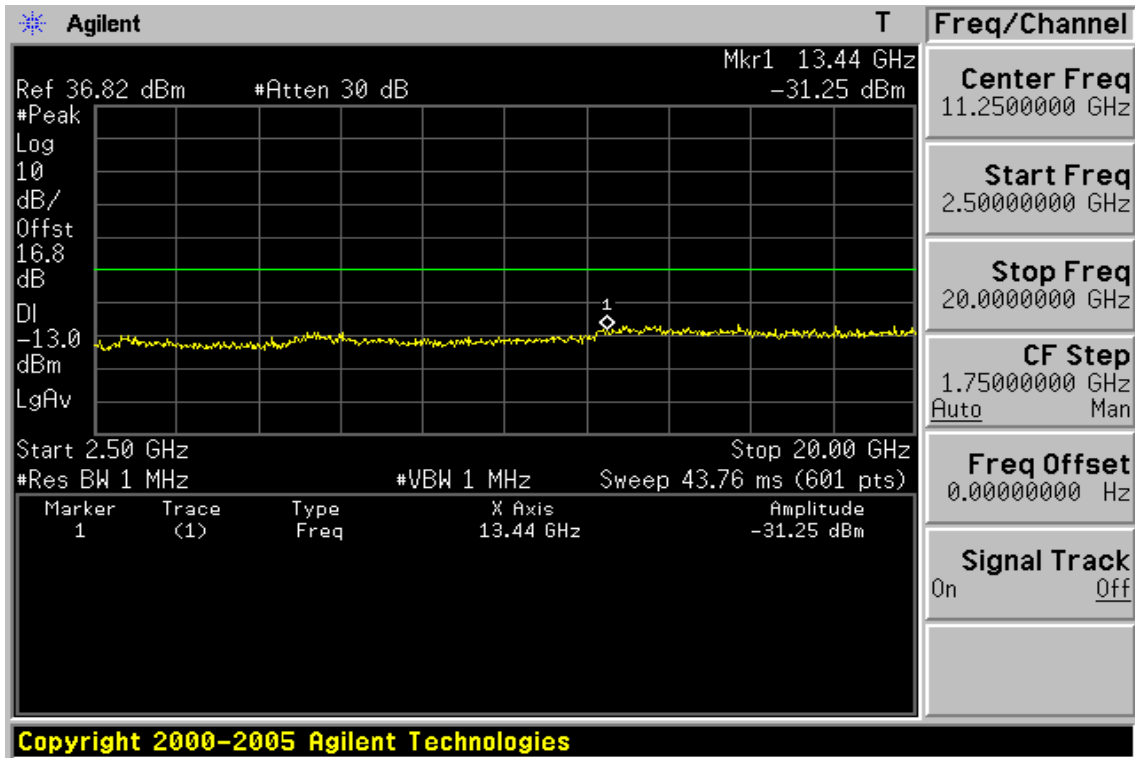
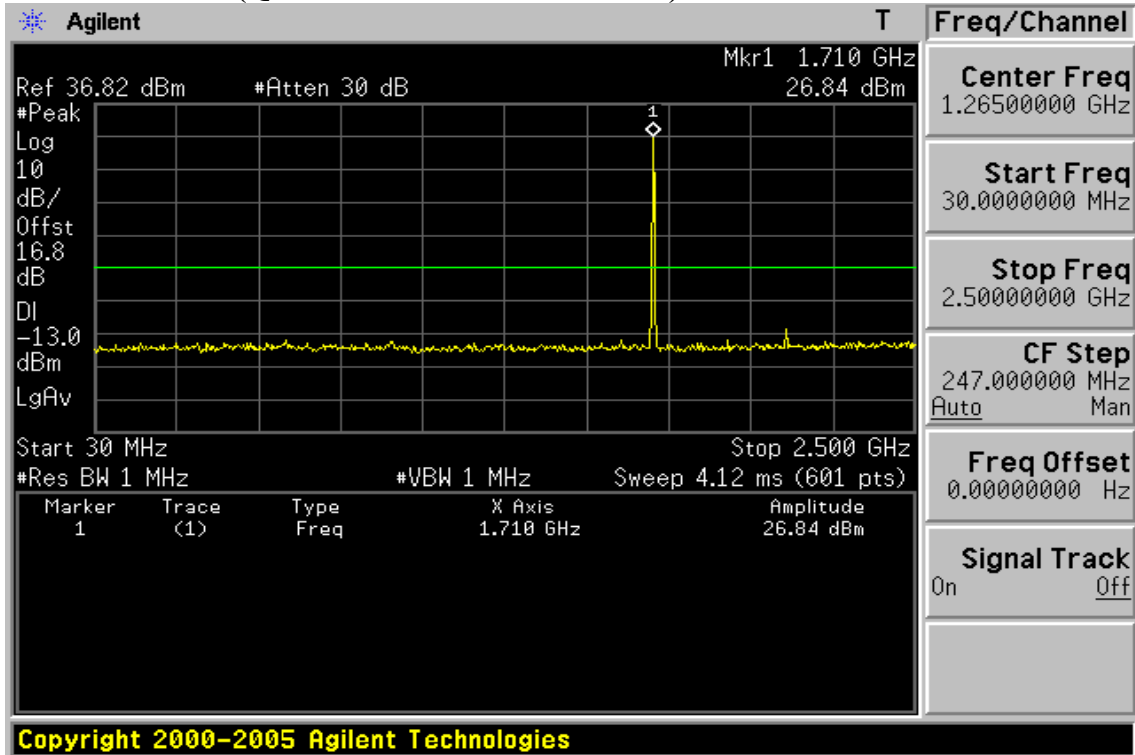
Figure 10-55: Band edge emission at antenna terminals –1.4MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 5) Channel Highest



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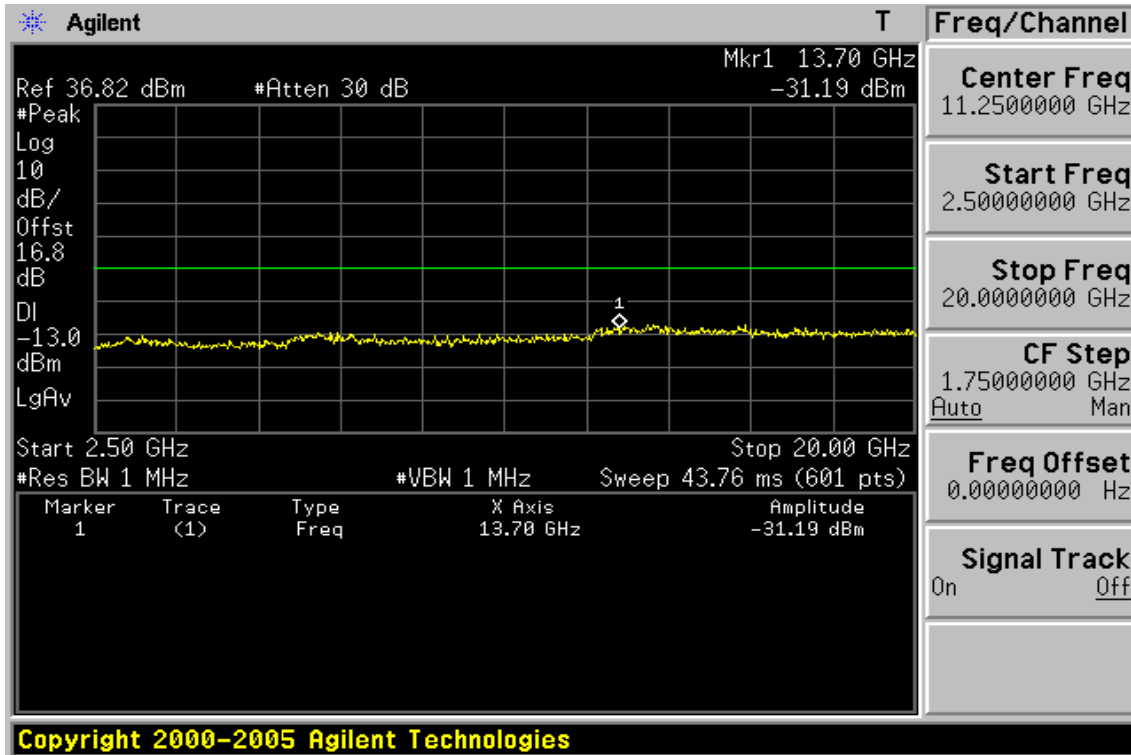
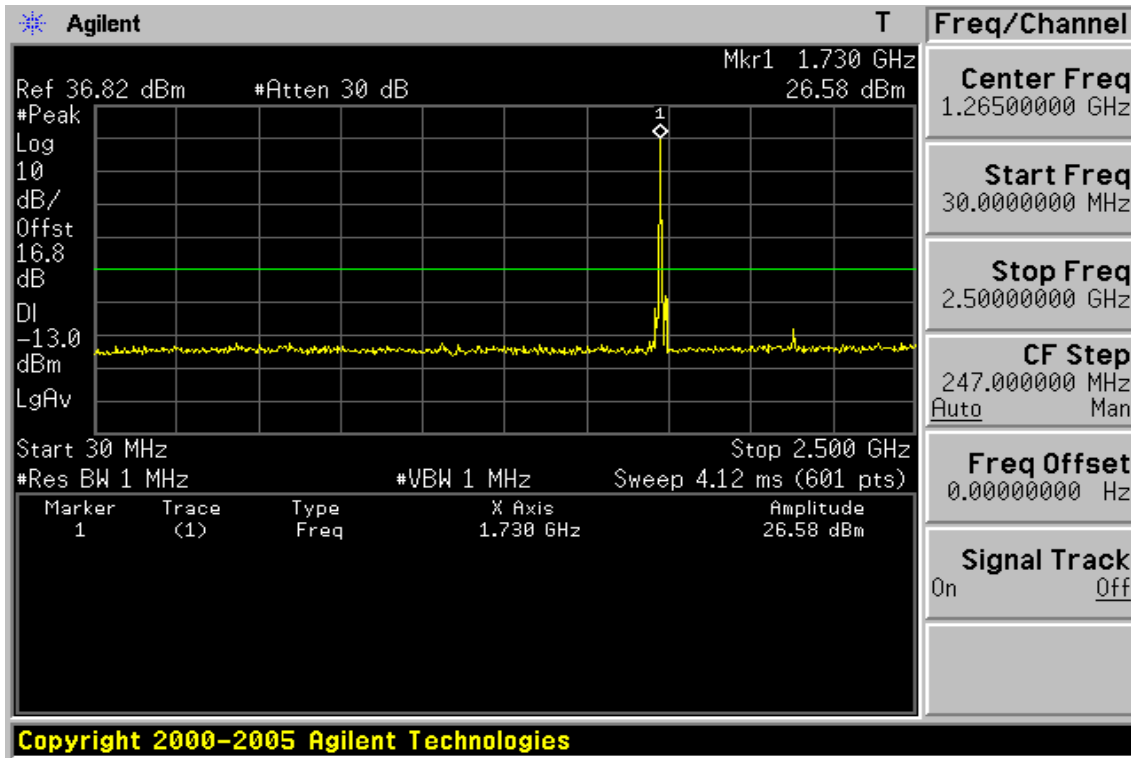
Figure 10-56: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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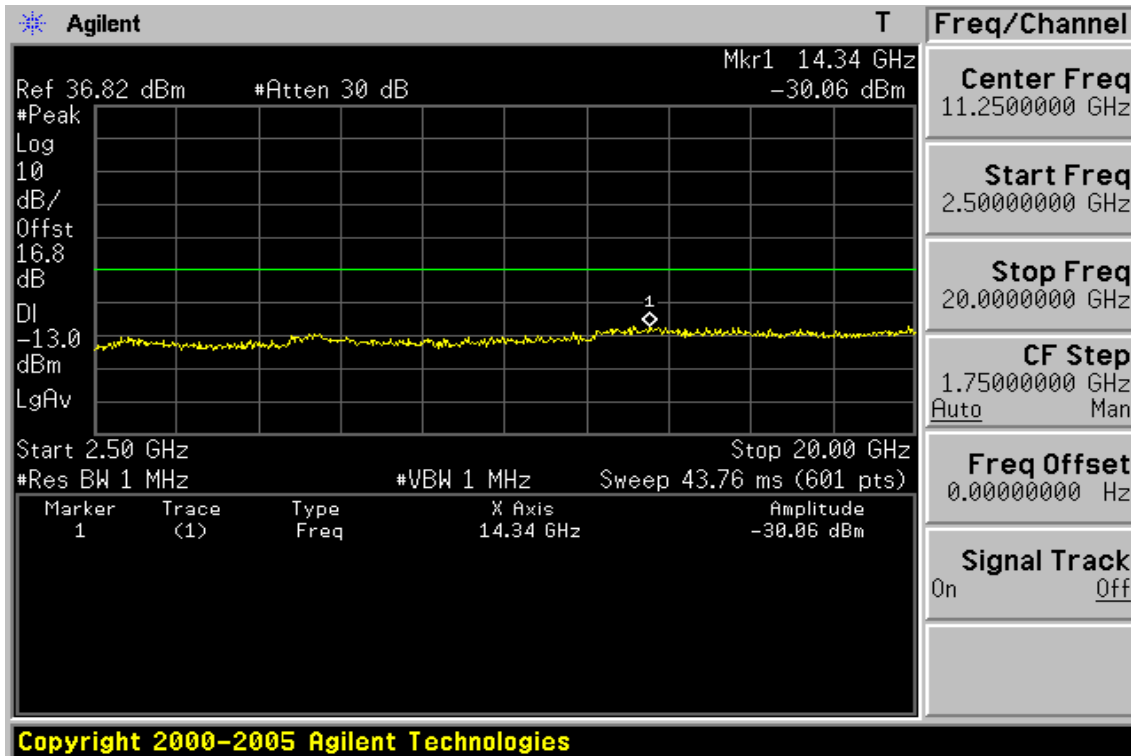
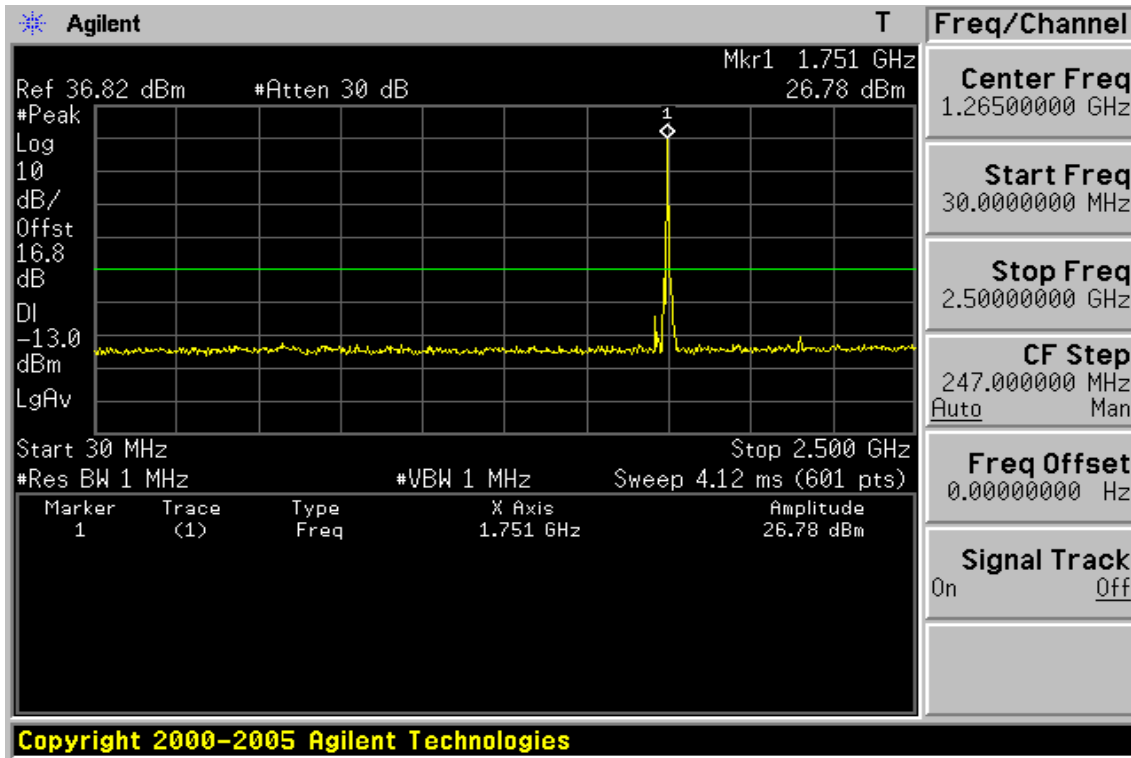
Figure 10-57: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Figure 10-58: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 10-59: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

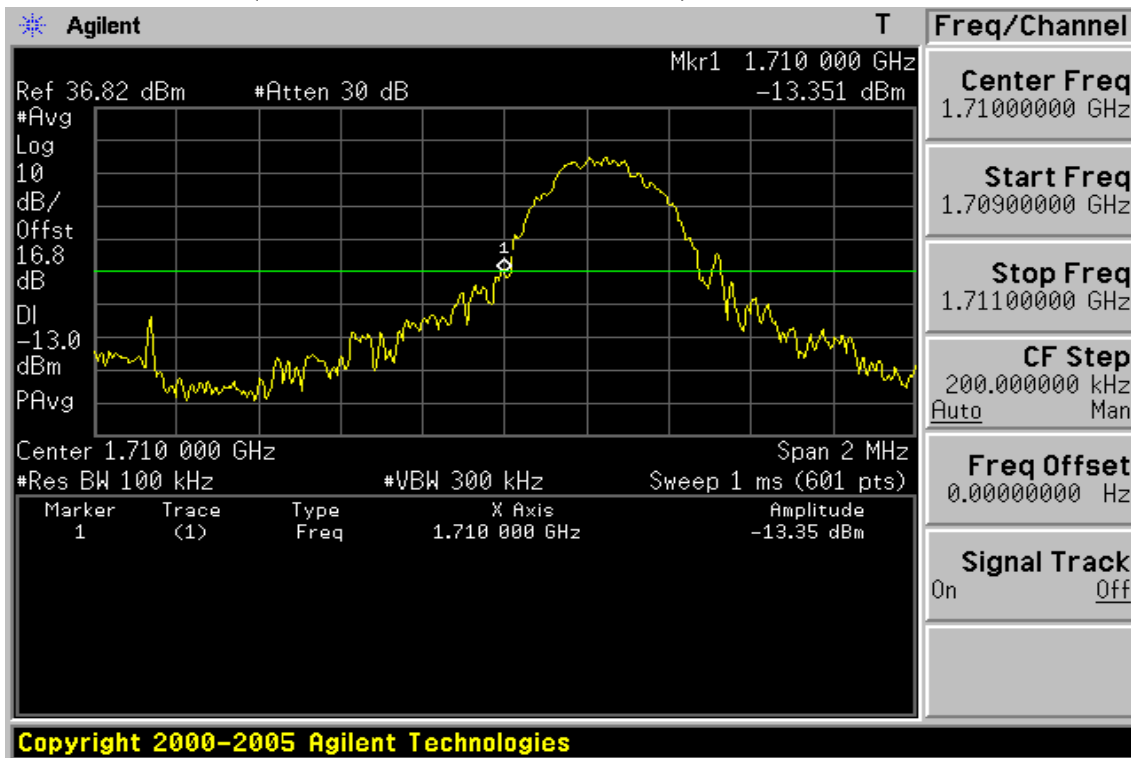
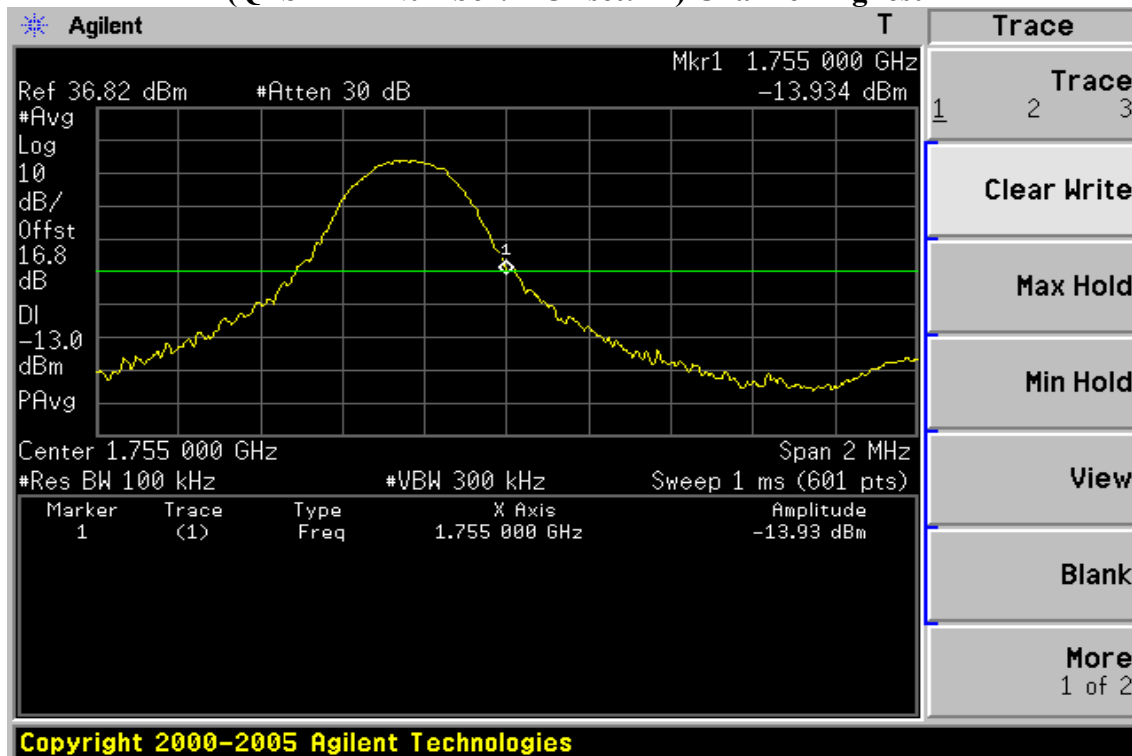


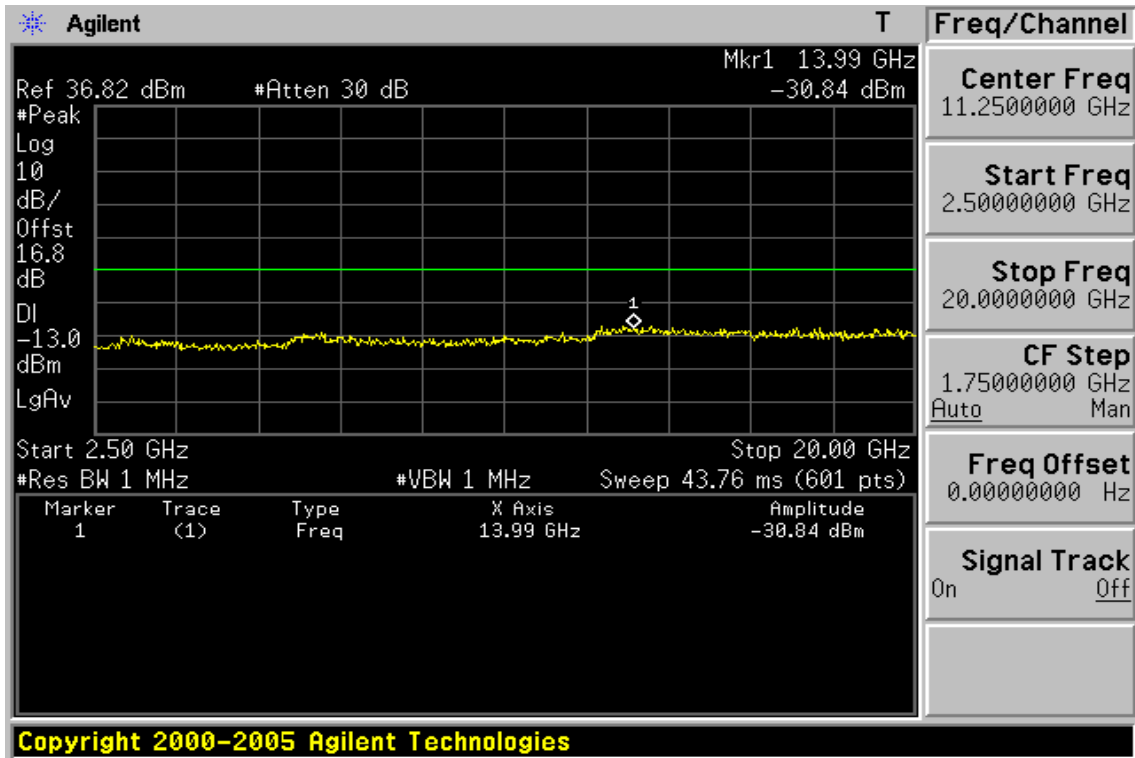
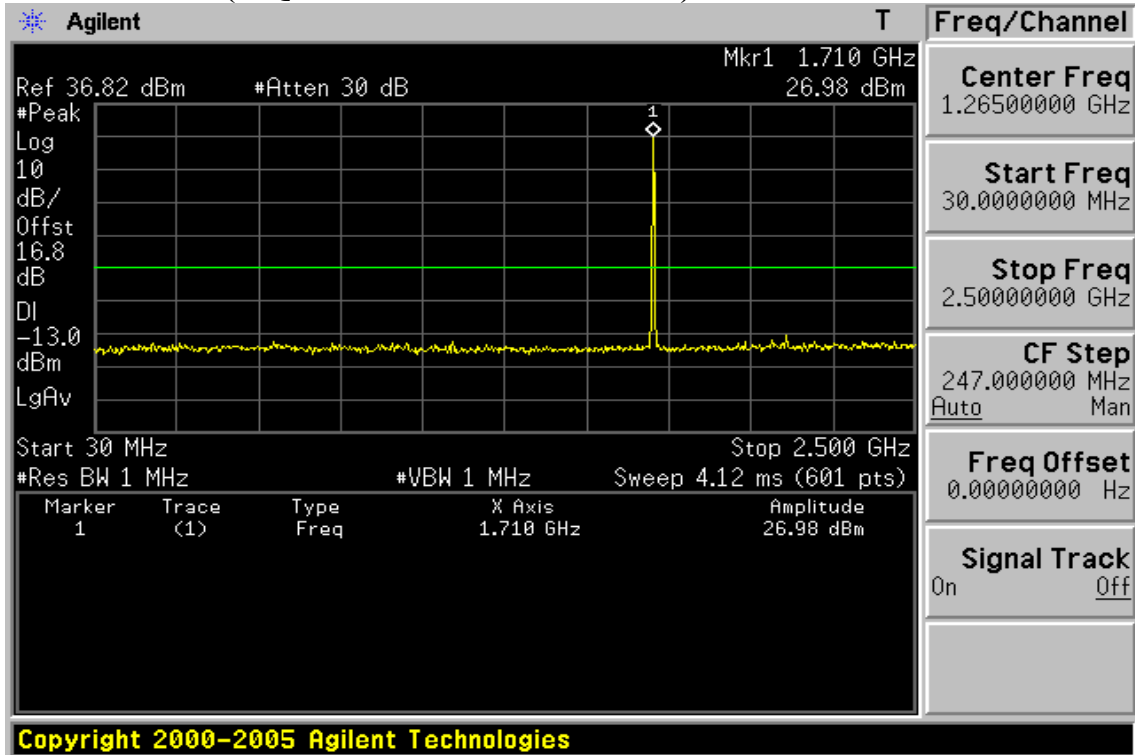
Figure 10-60: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 14) Channel Highest



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Figure 10-61: Out of Band emission at antenna terminals-3MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Lowest

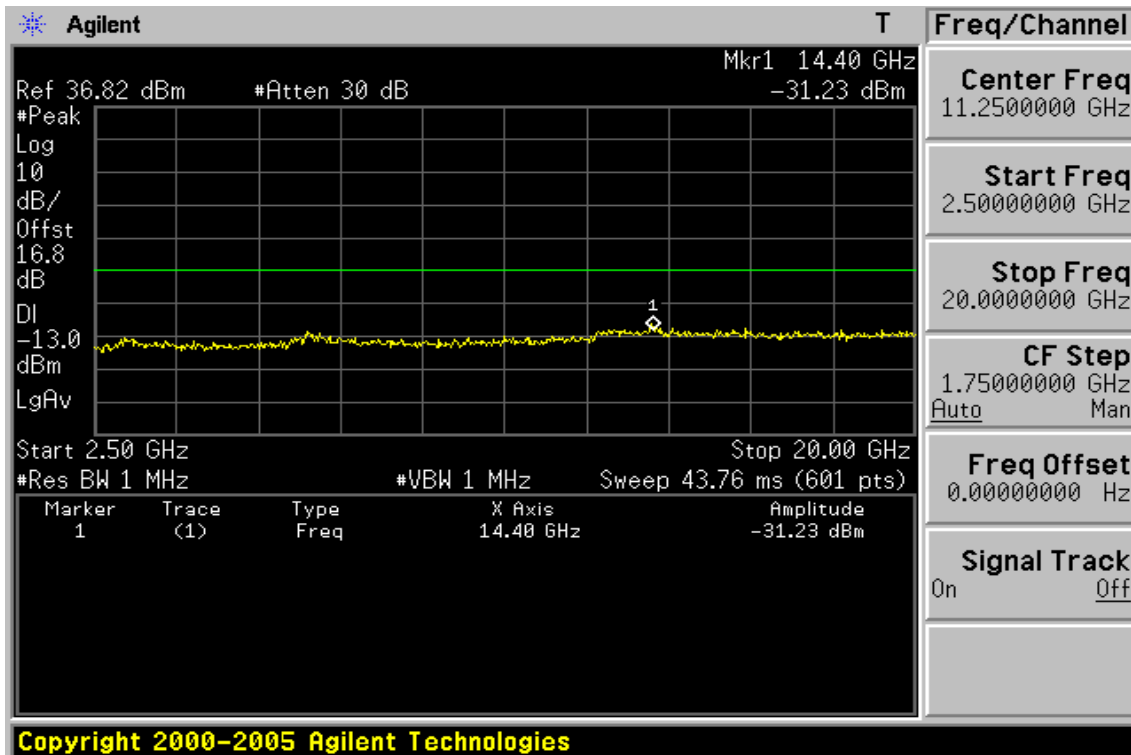
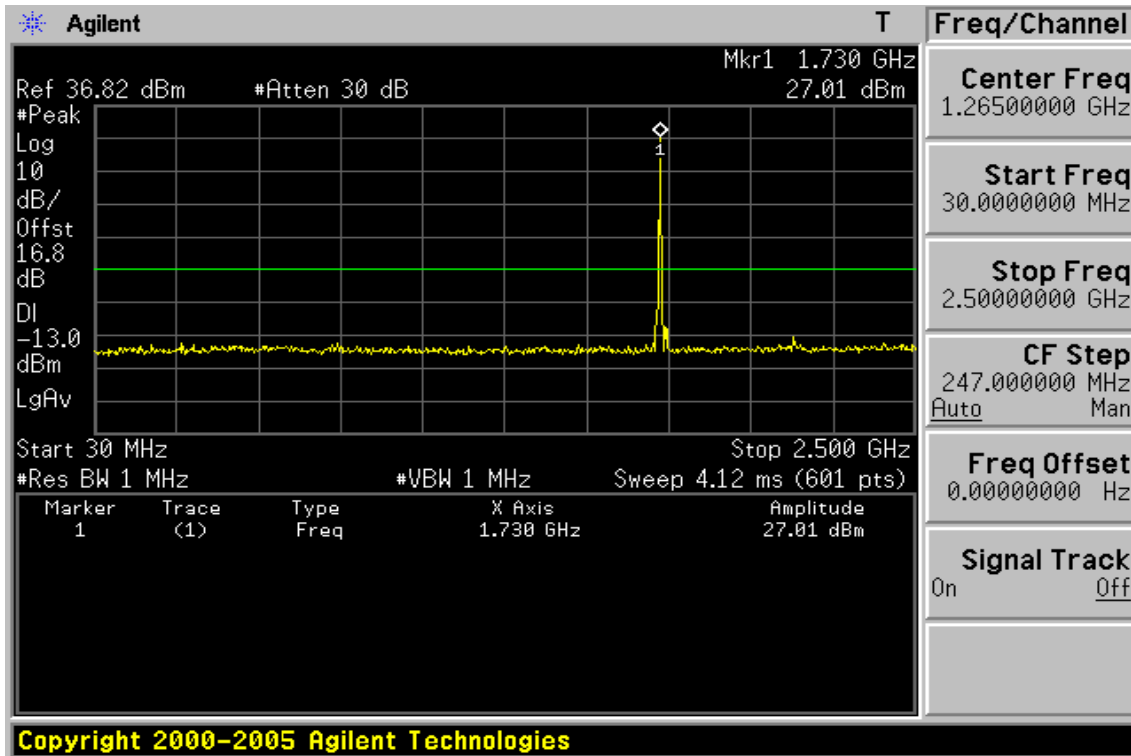


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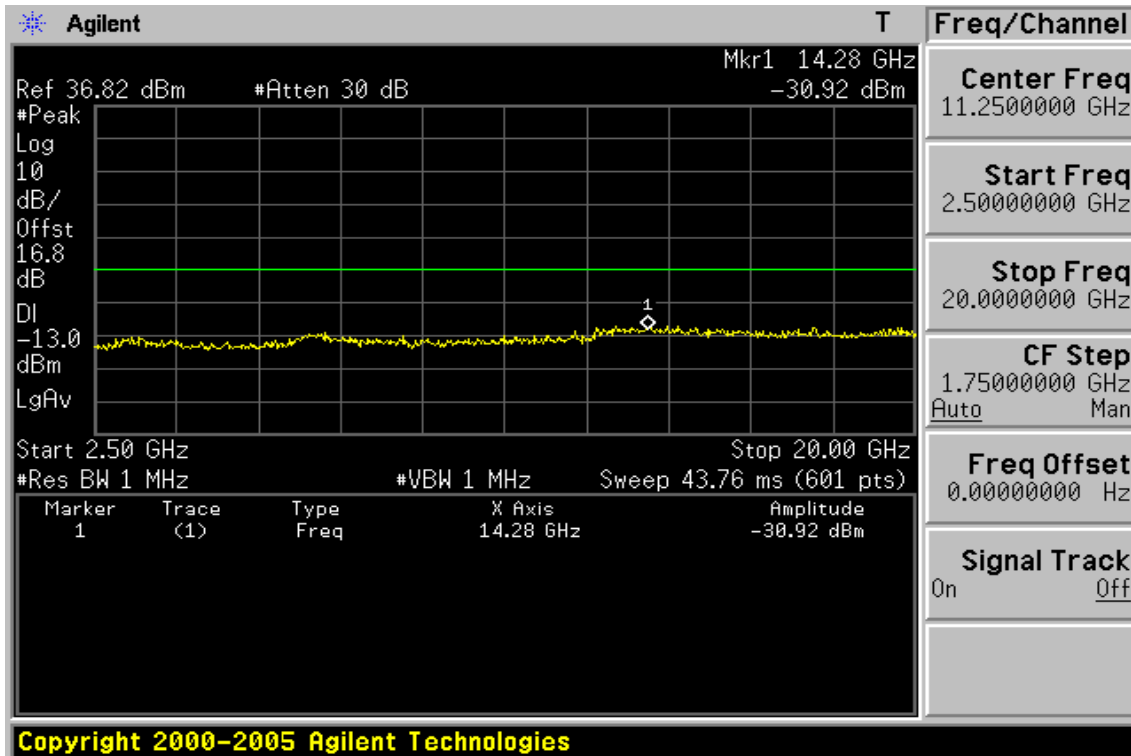
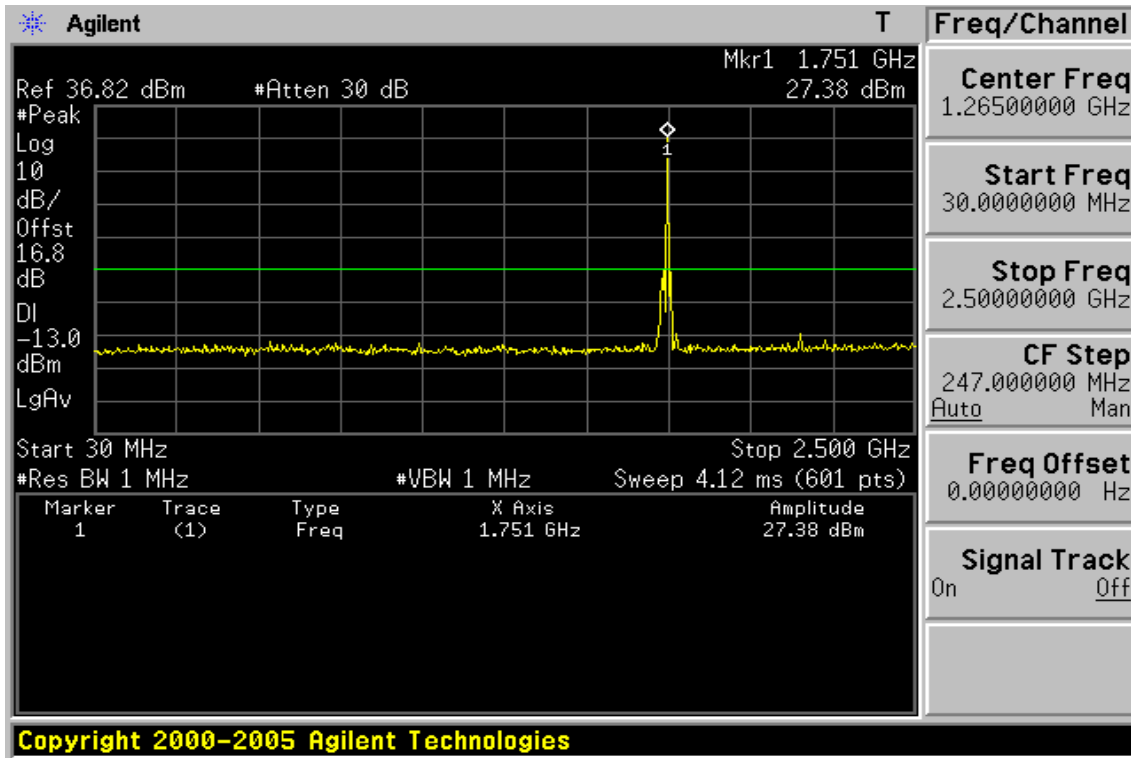
Figure 10-62: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Mid



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Figure 10-63: Out of Band emission at antenna terminals–3MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Highest



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Figure 10-64: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Lowest

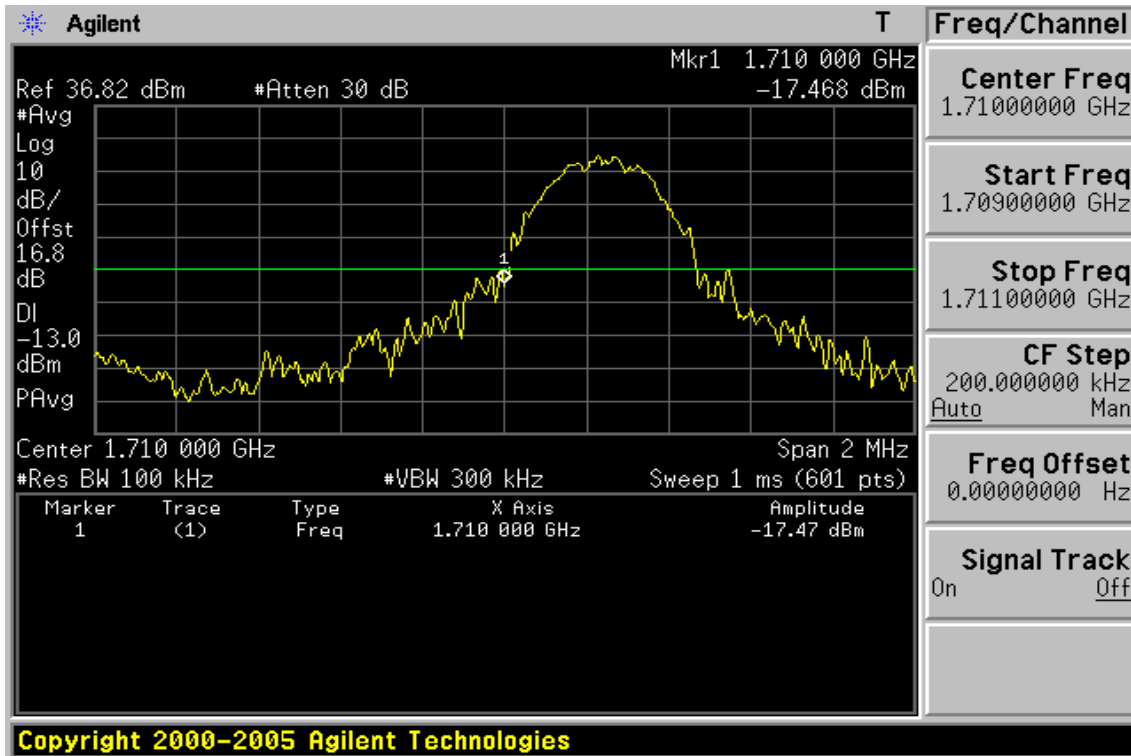
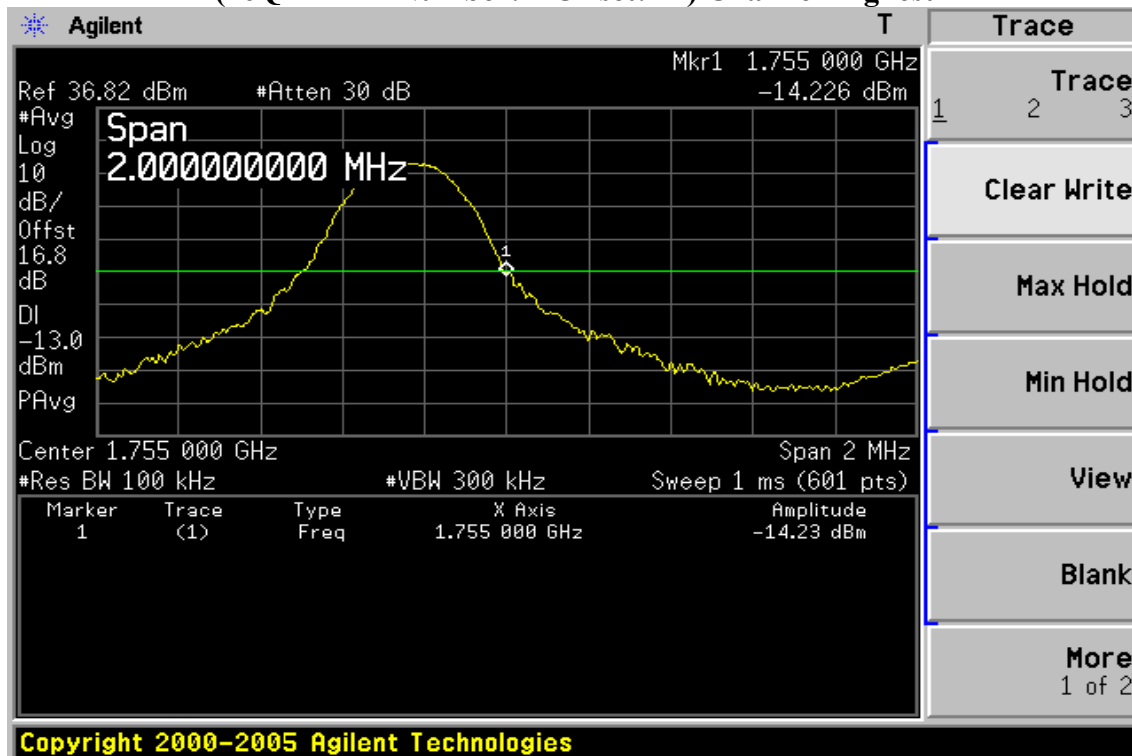


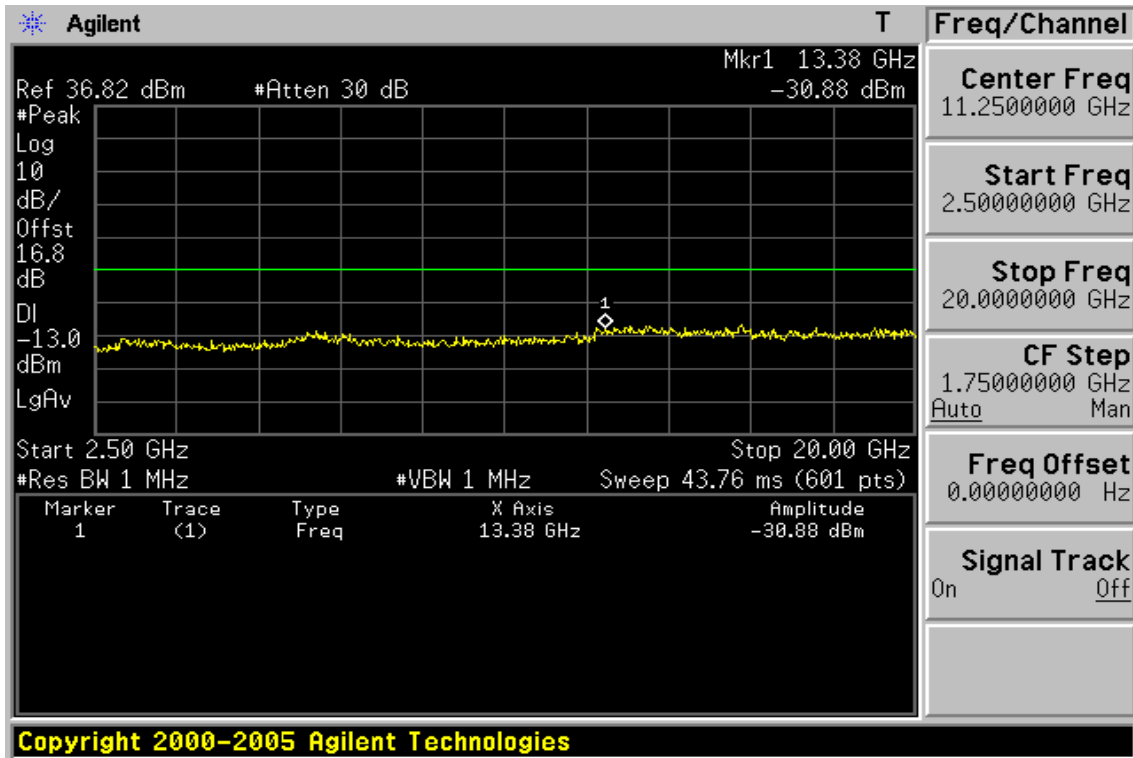
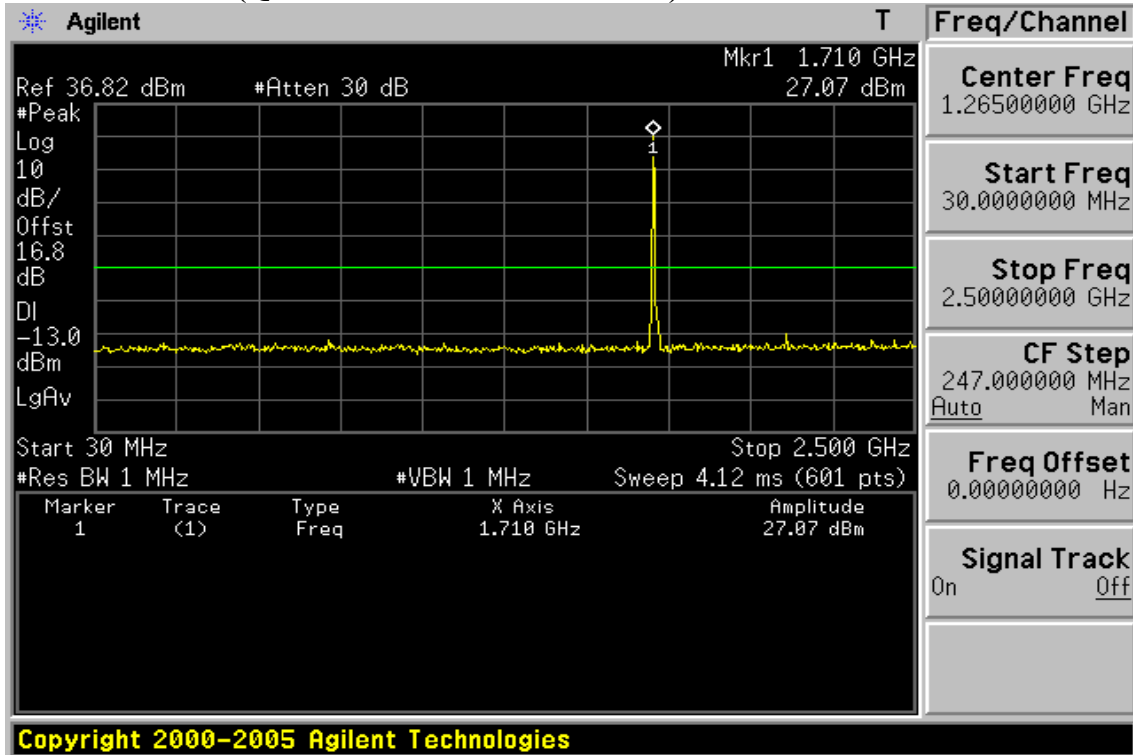
Figure 10-65: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 14) Channel Highest



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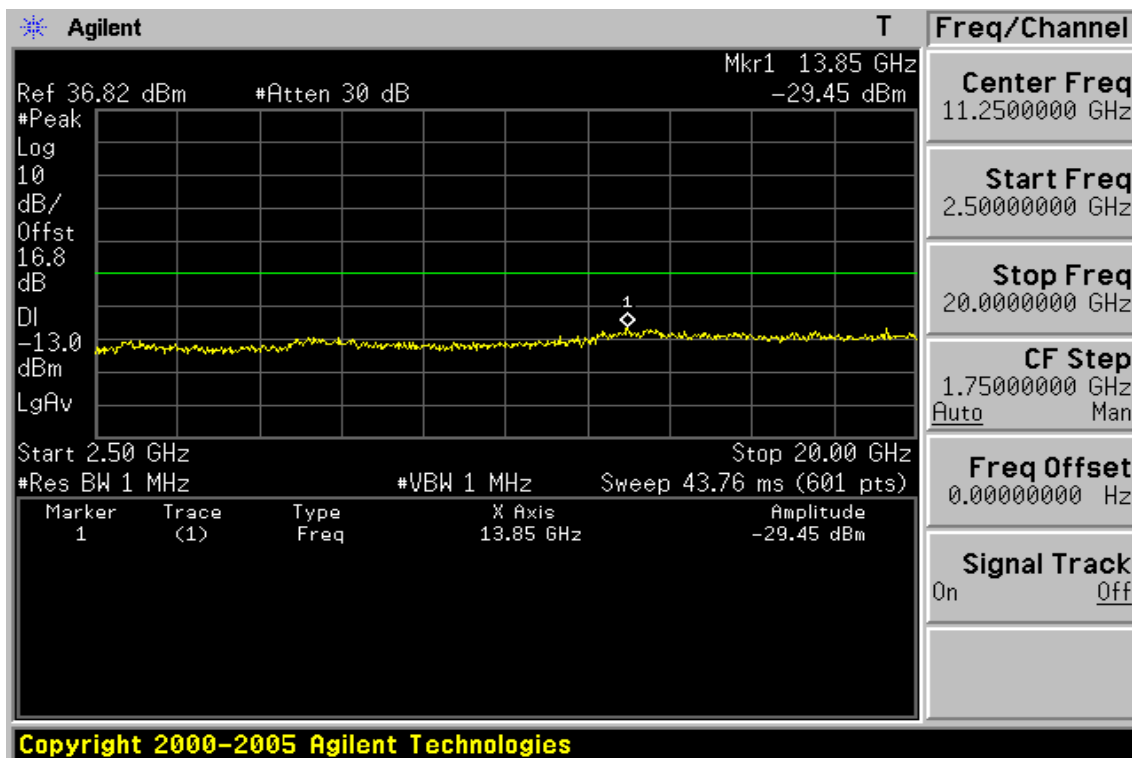
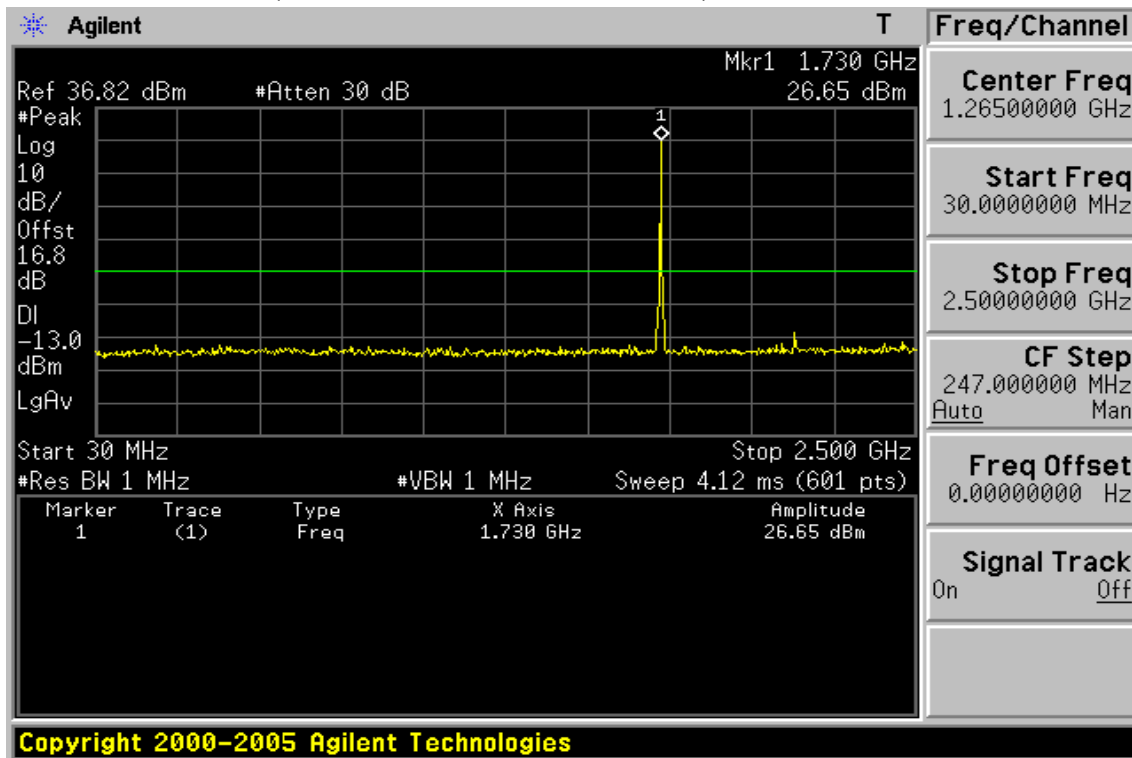
Figure 10-66: Out of Band emission at antenna terminals-5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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Figure 10-67: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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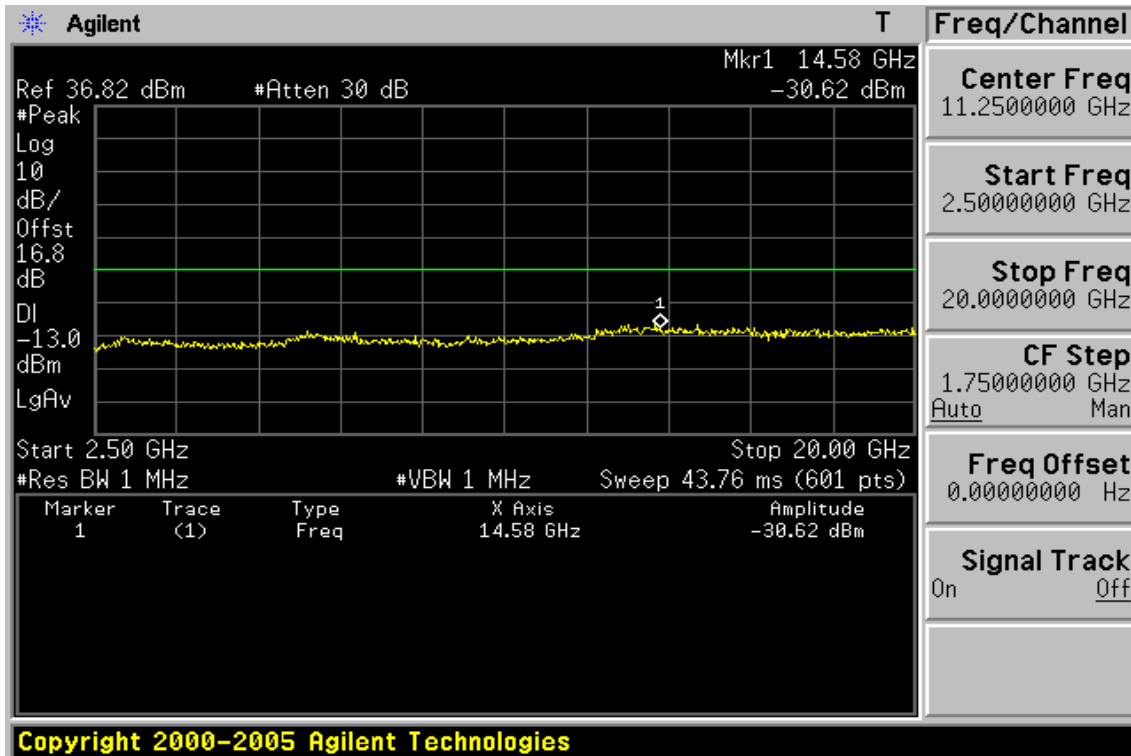
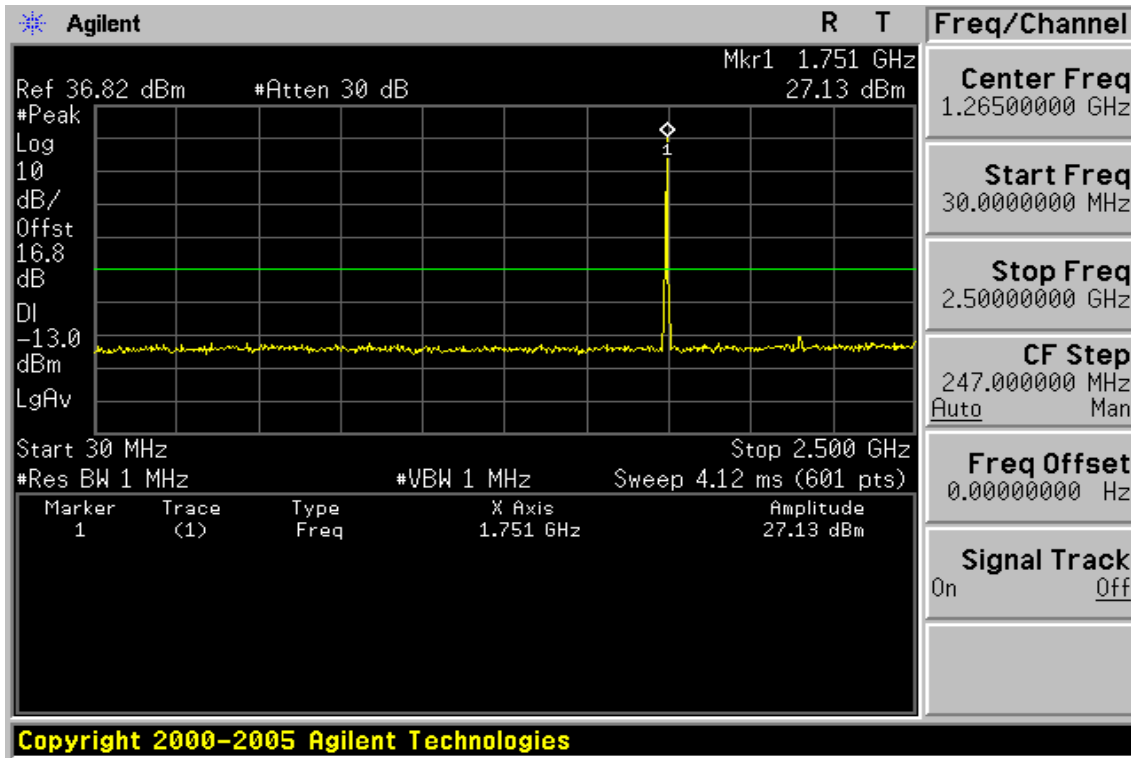
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Figure 10-68: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 10-69: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

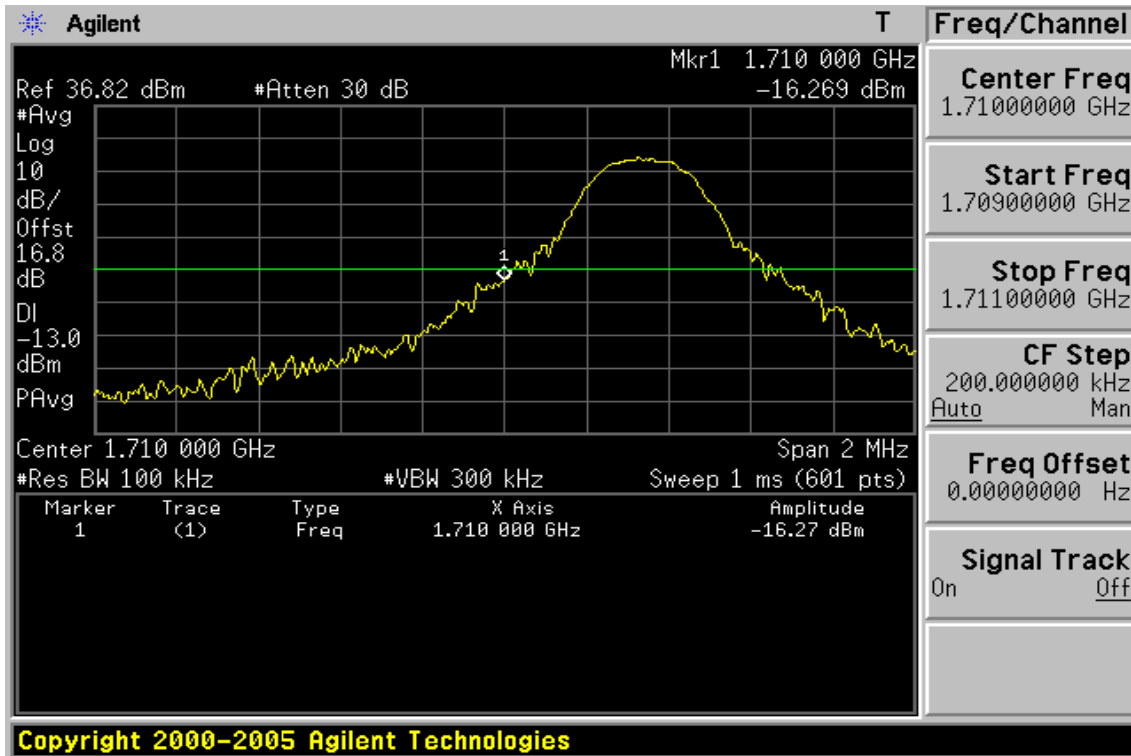
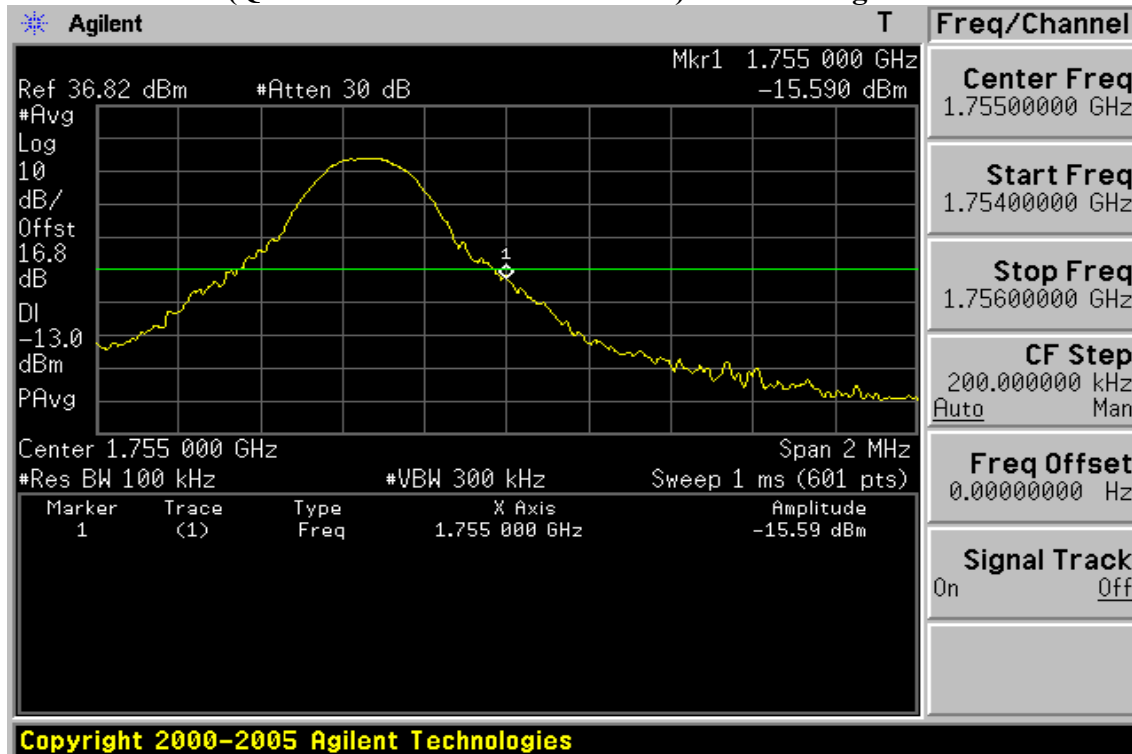


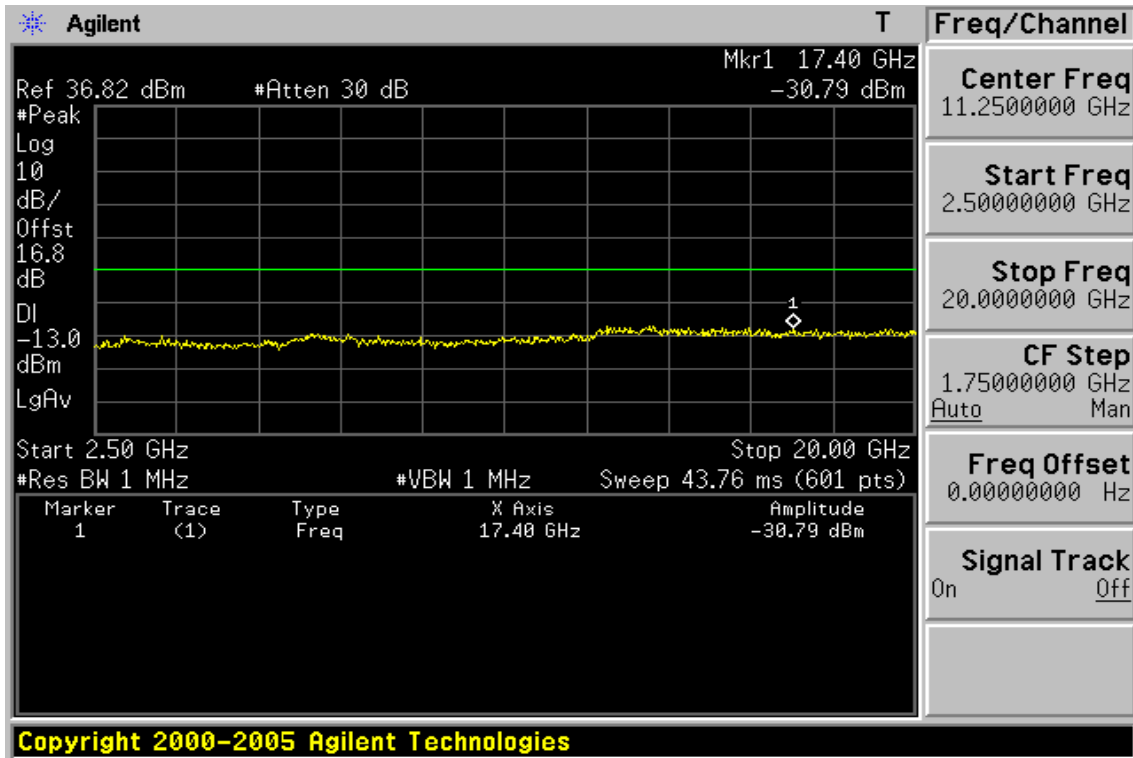
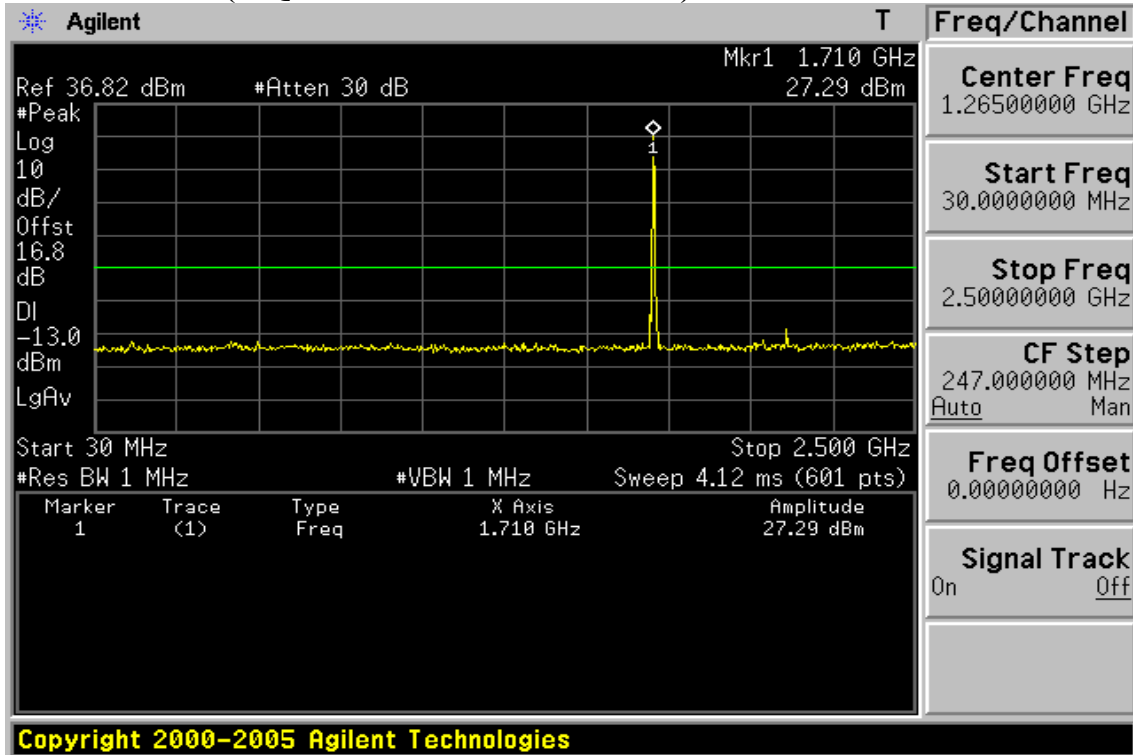
Figure 10-70: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 24) Channel Highest



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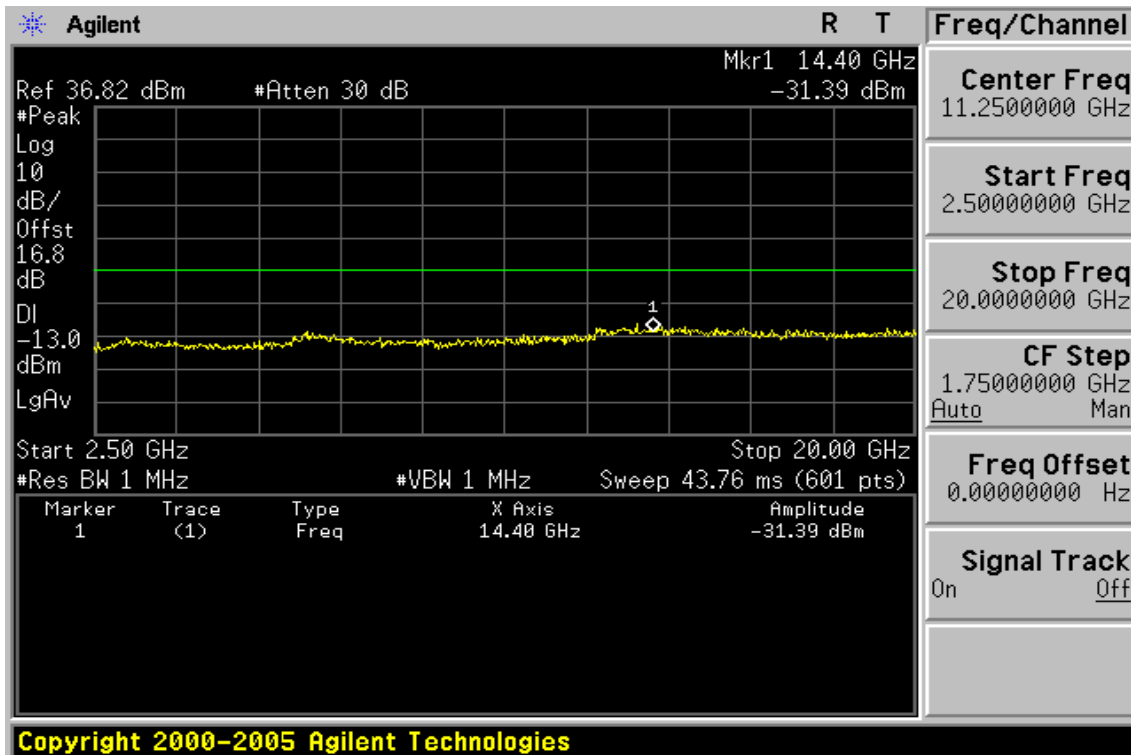
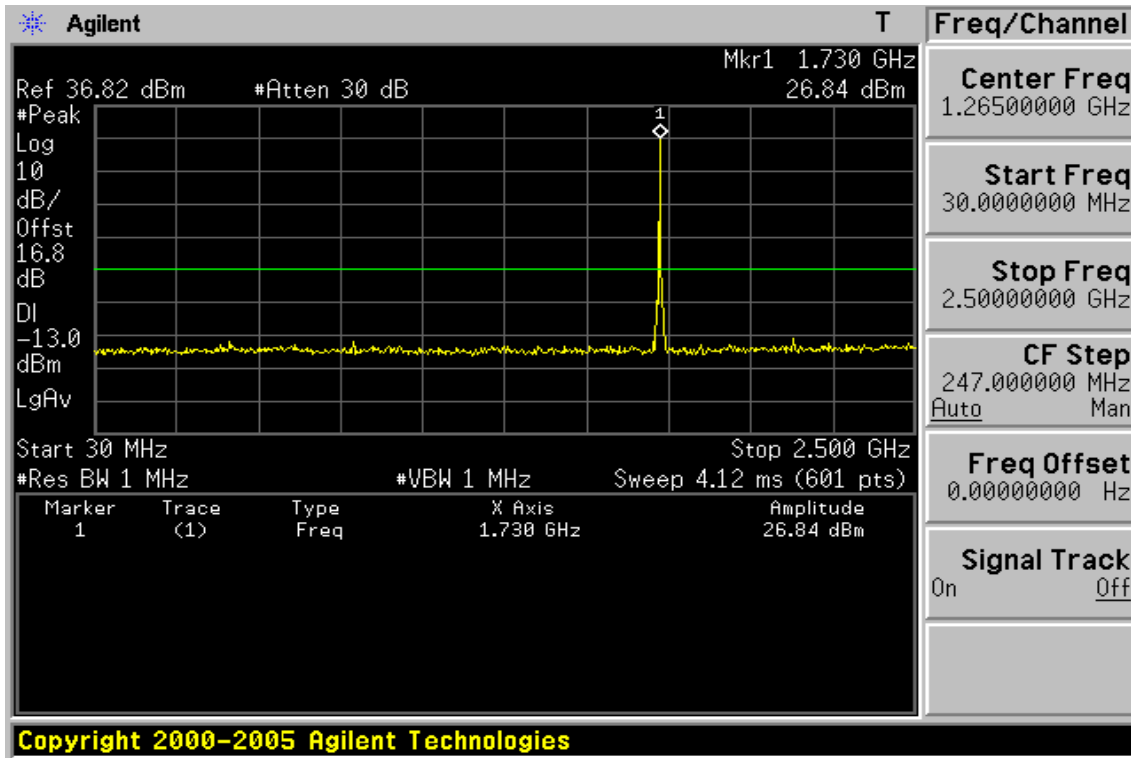
Figure 10-71: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Lowest



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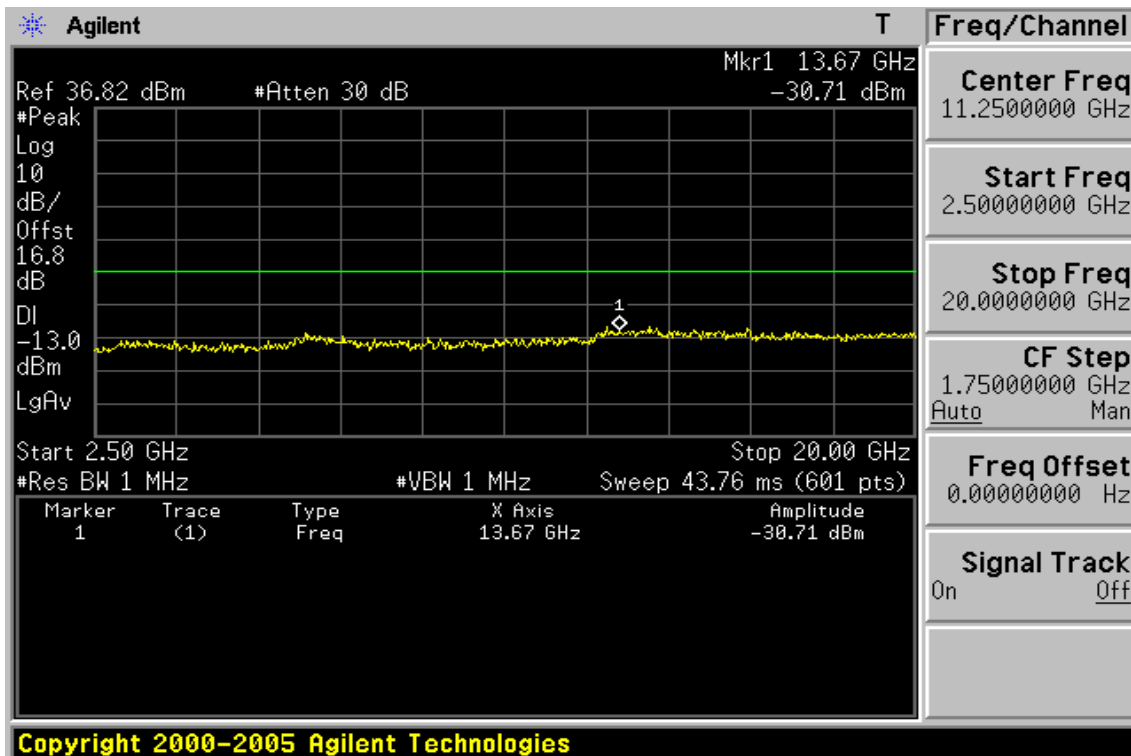
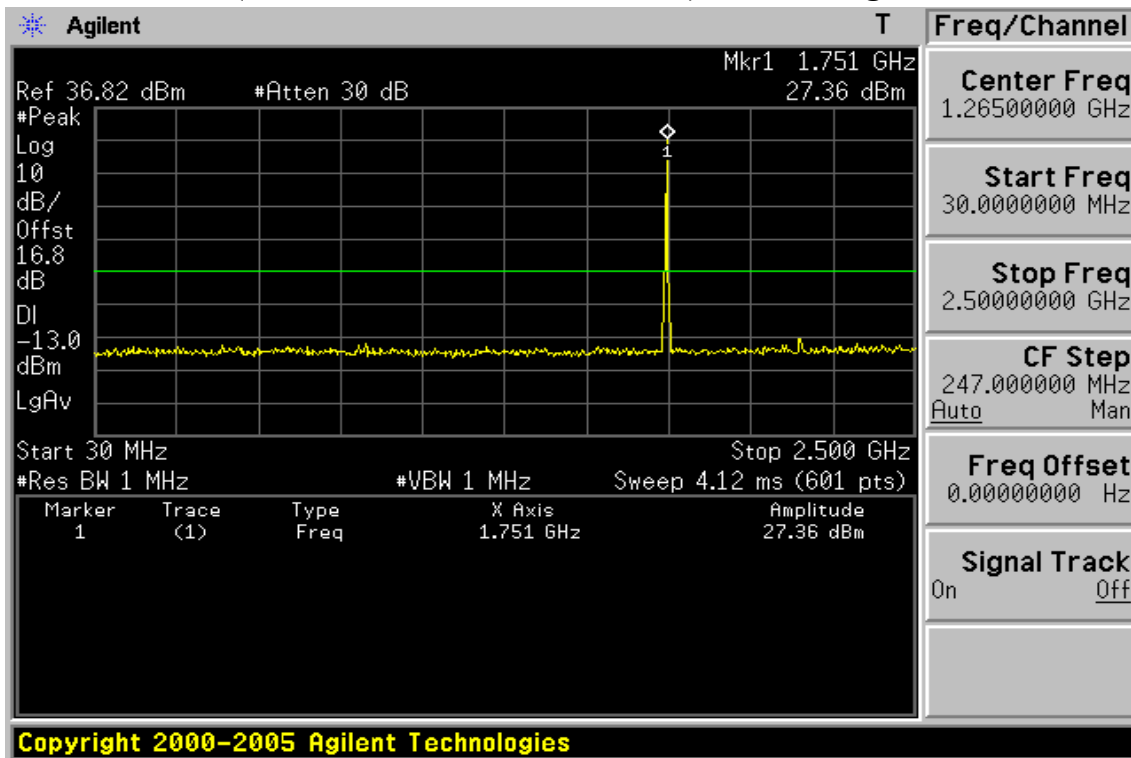
Figure 10-72: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Mid



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Figure 10-73: Out of Band emission at antenna terminals–5MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Highest



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Figure 10-74: Band edge emission at antenna terminals –5MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Lowest

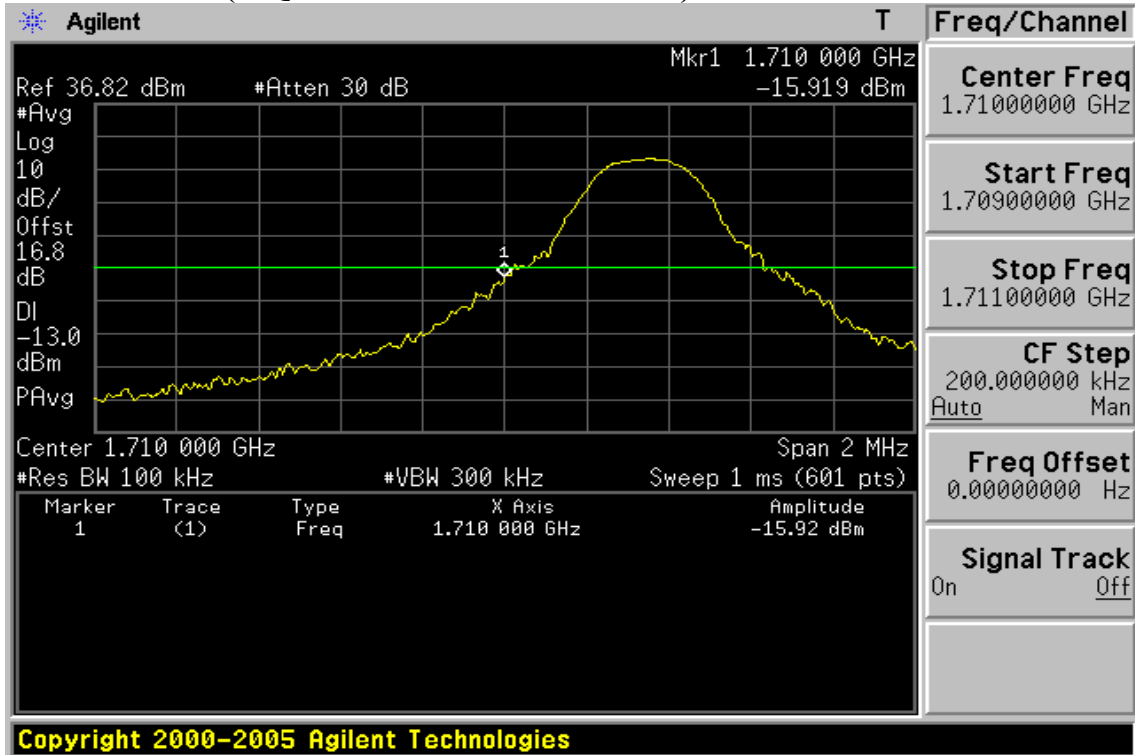
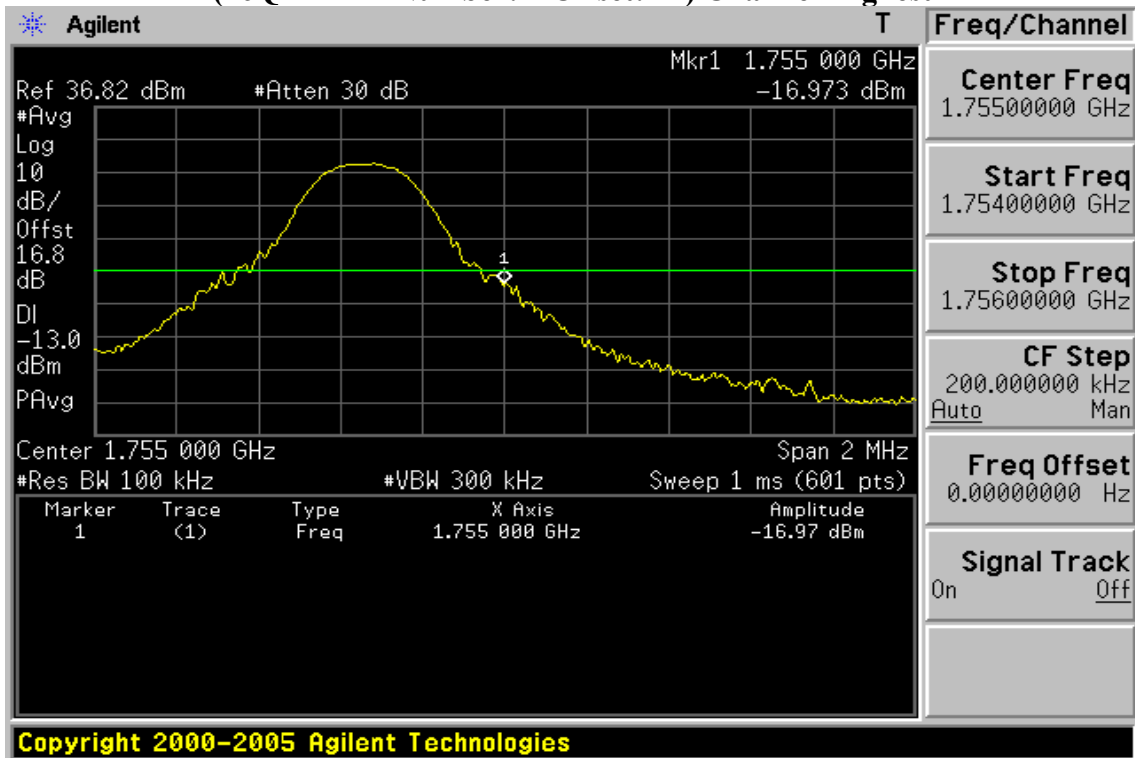


Figure 10-75: Band edge emission at antenna terminals –3MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 24) Channel Highest



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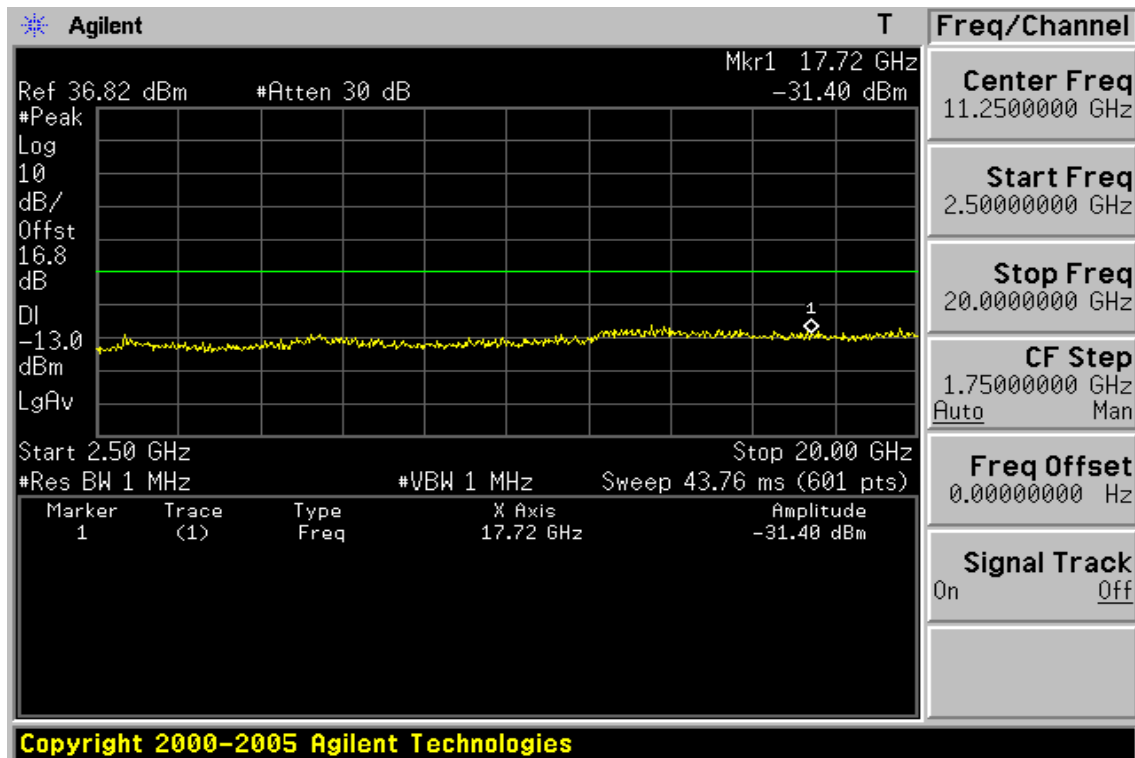
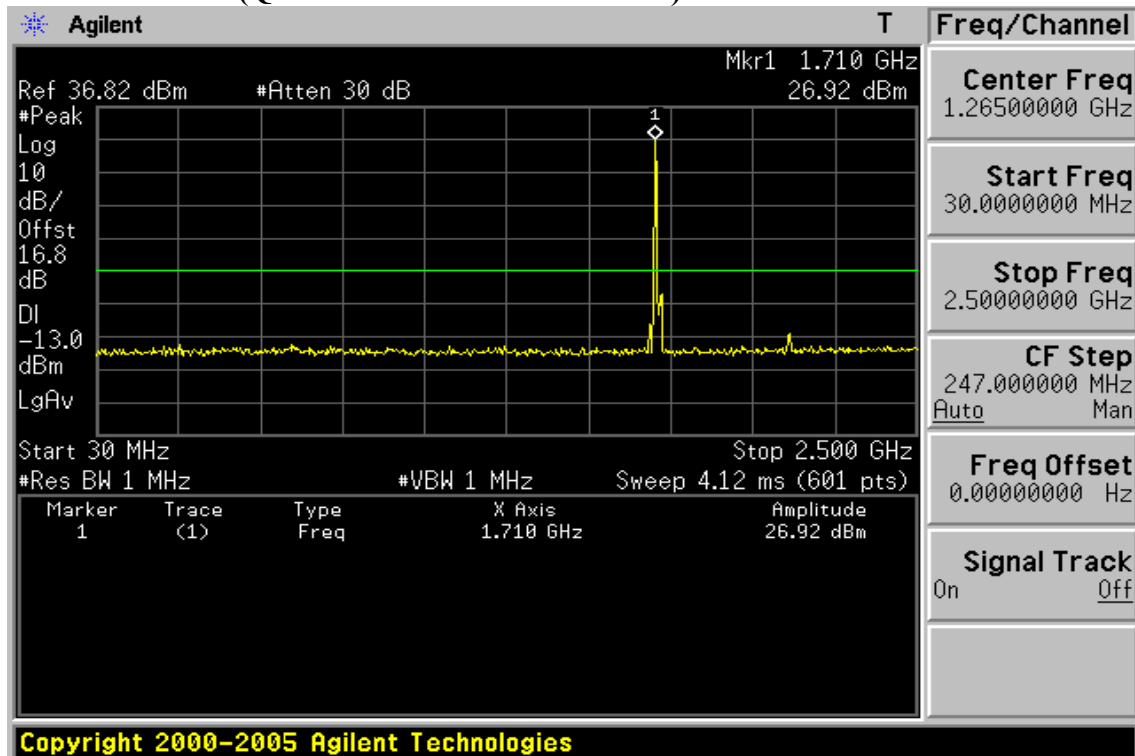
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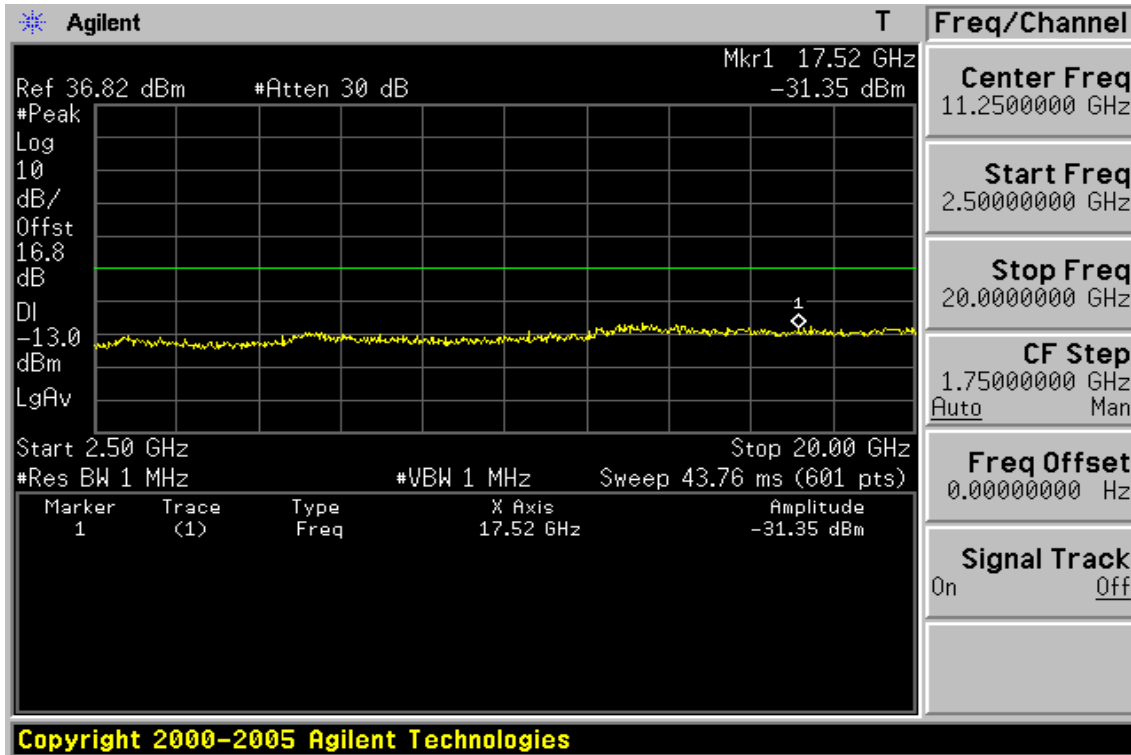
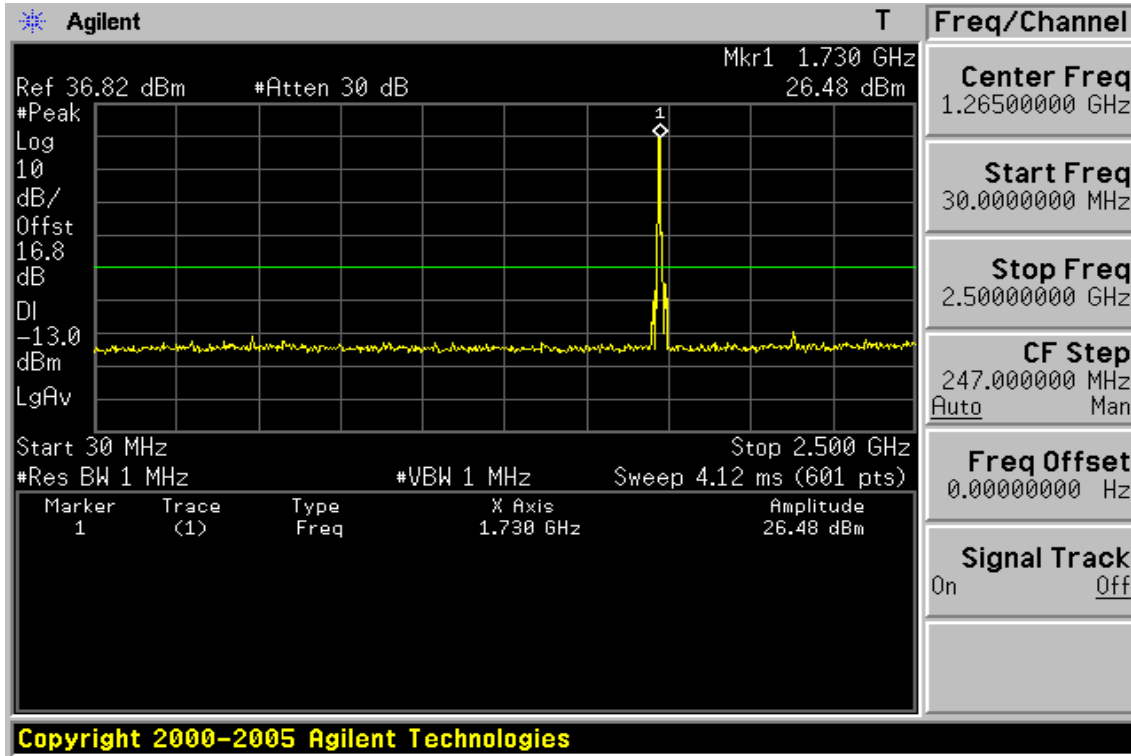
Figure 10-76: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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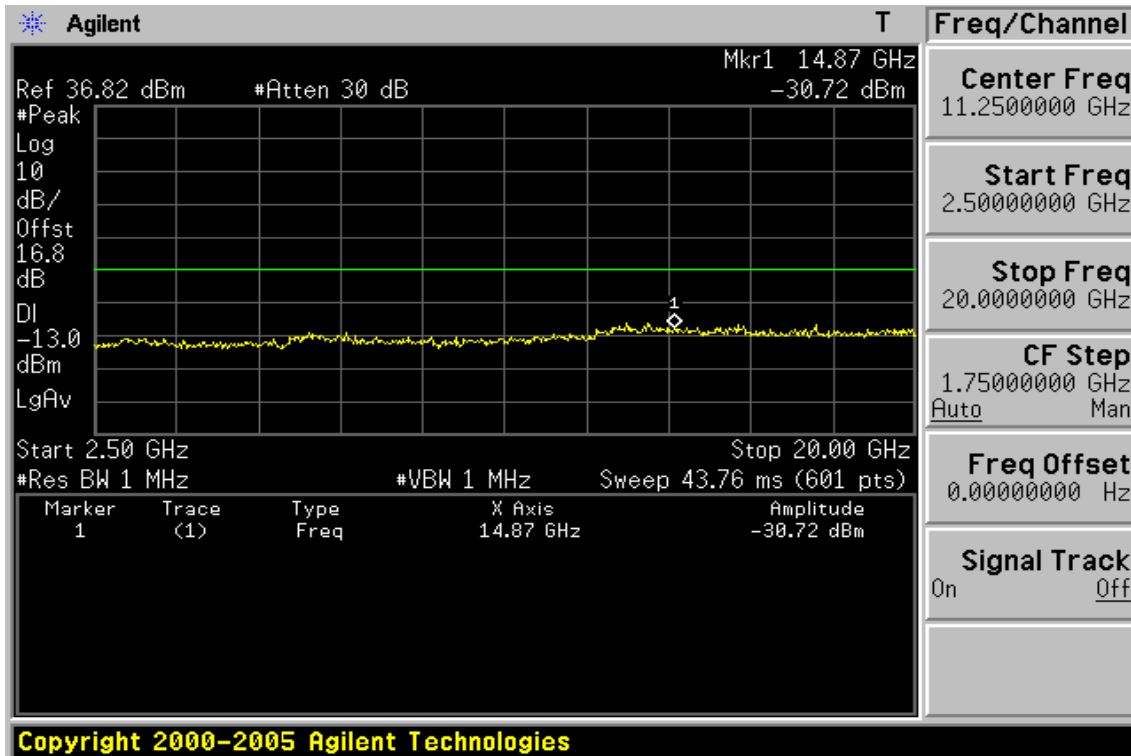
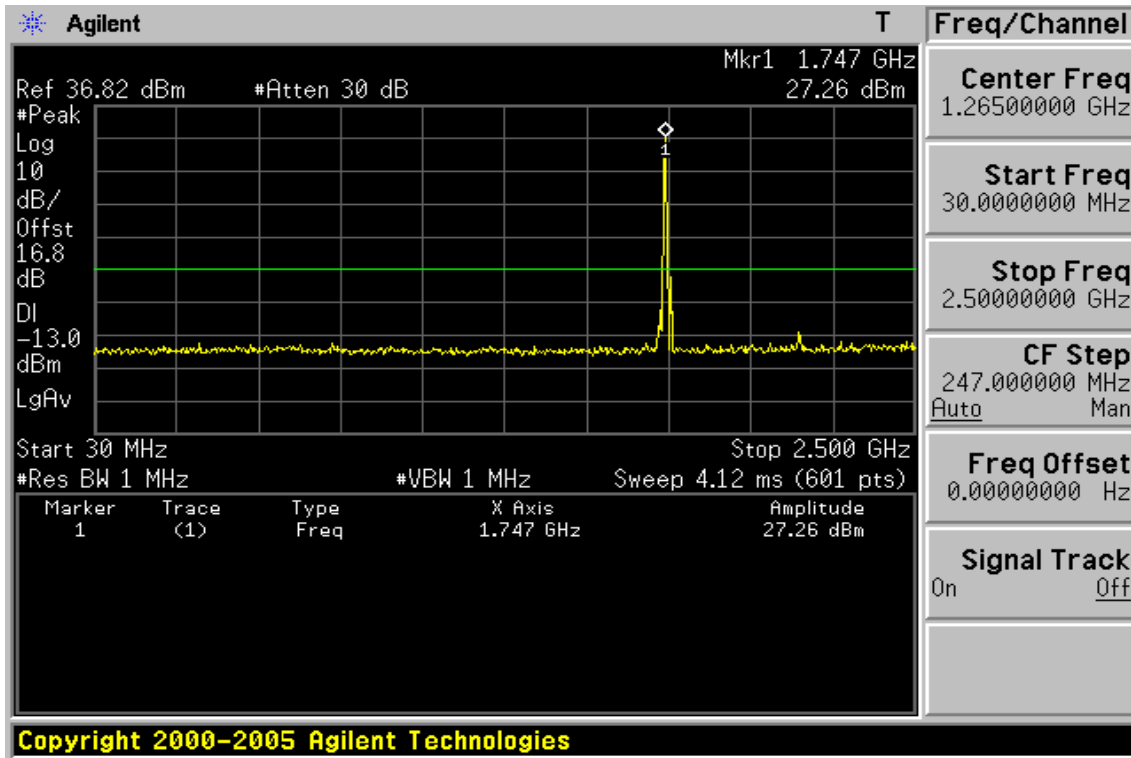
Figure 10-77: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Figure 10-78: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 10-79: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 0) Channel Lowest

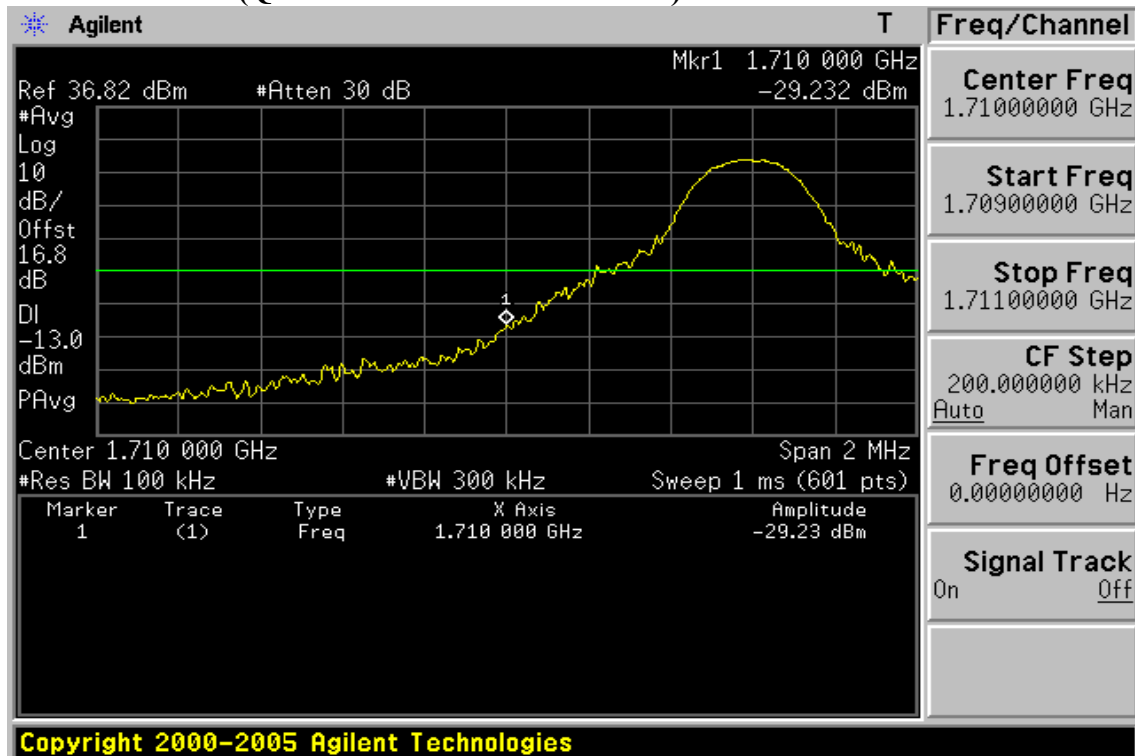
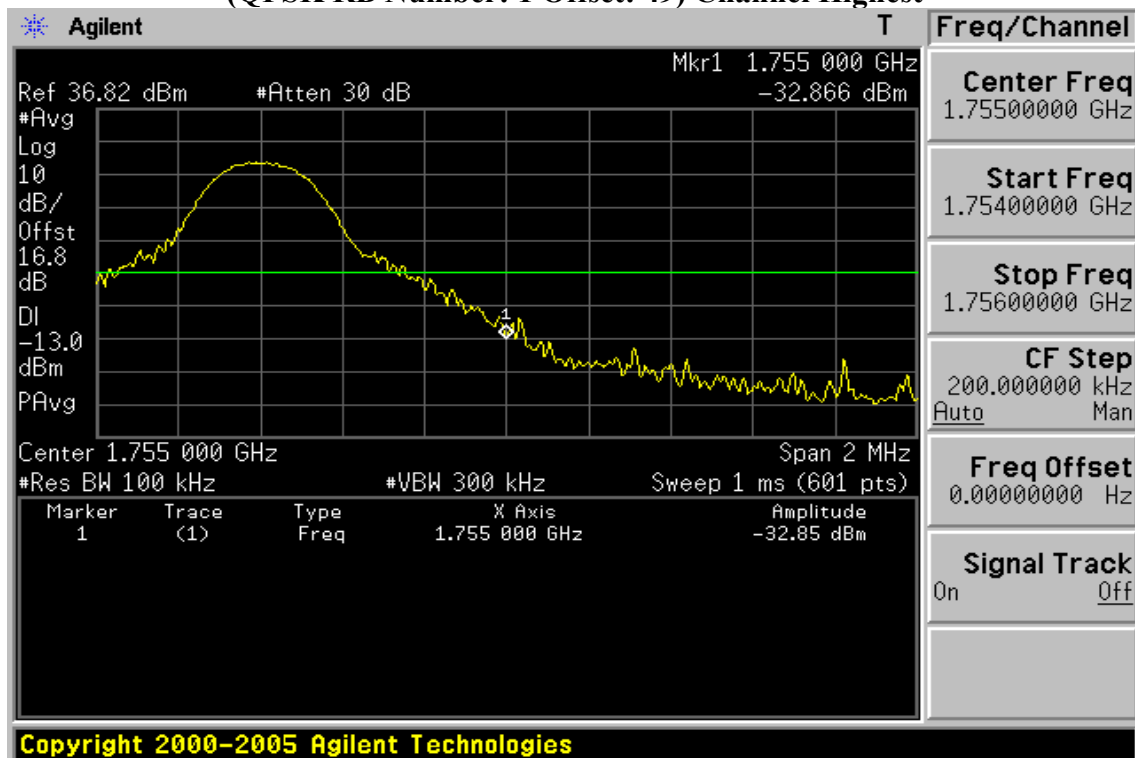


Figure 10-80: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (QPSK RB Number: 1 Offset: 49) Channel Highest



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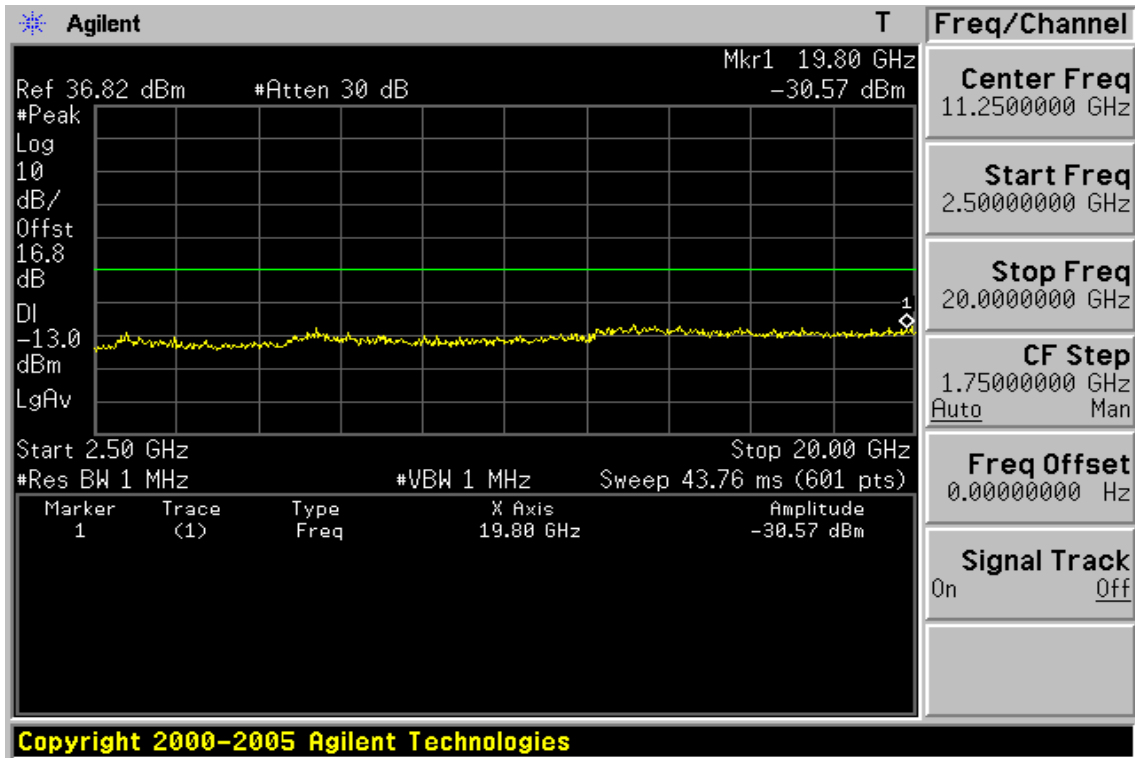
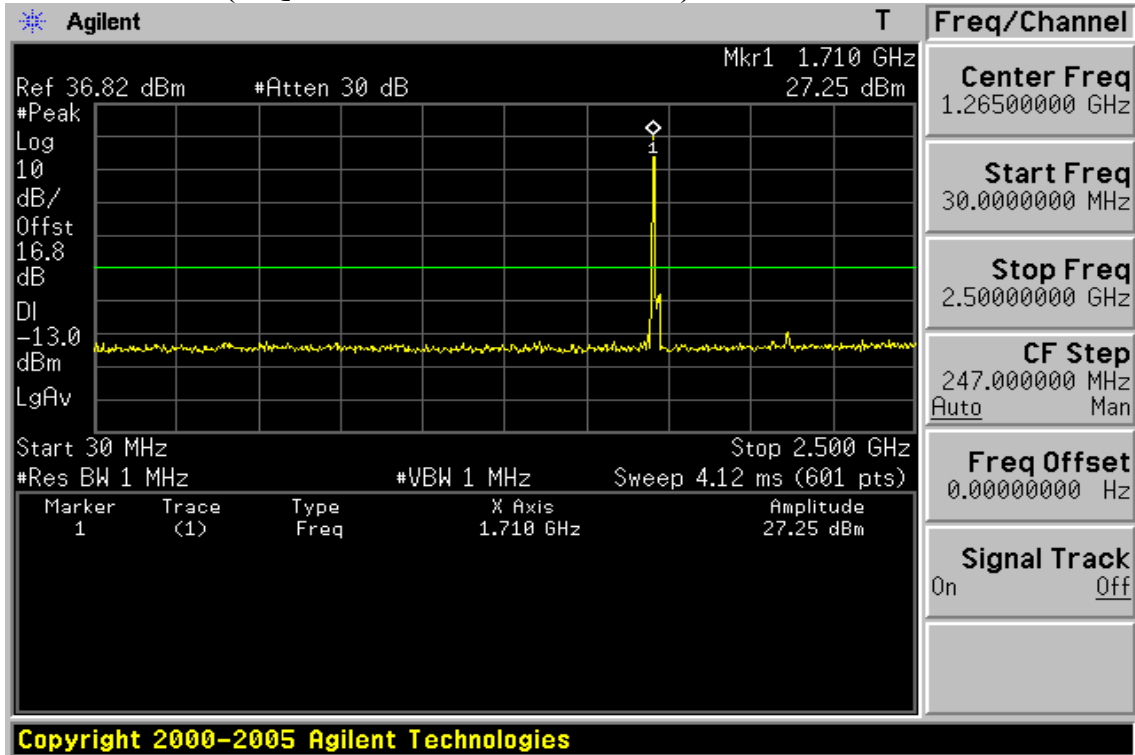
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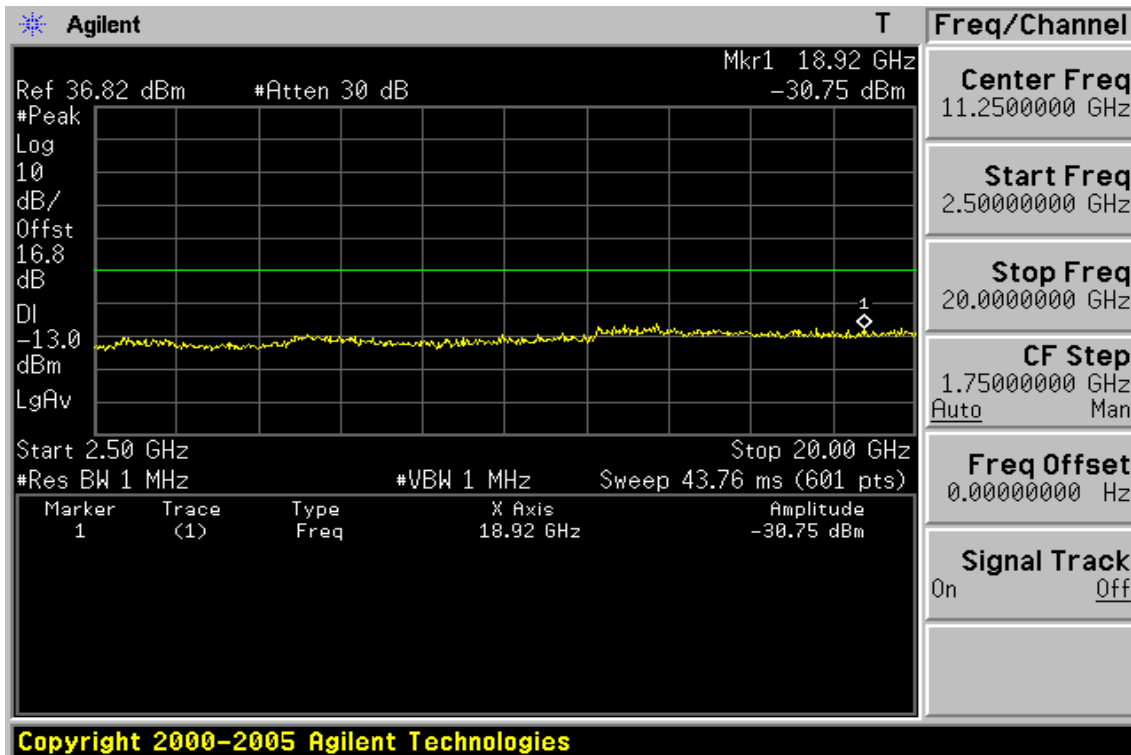
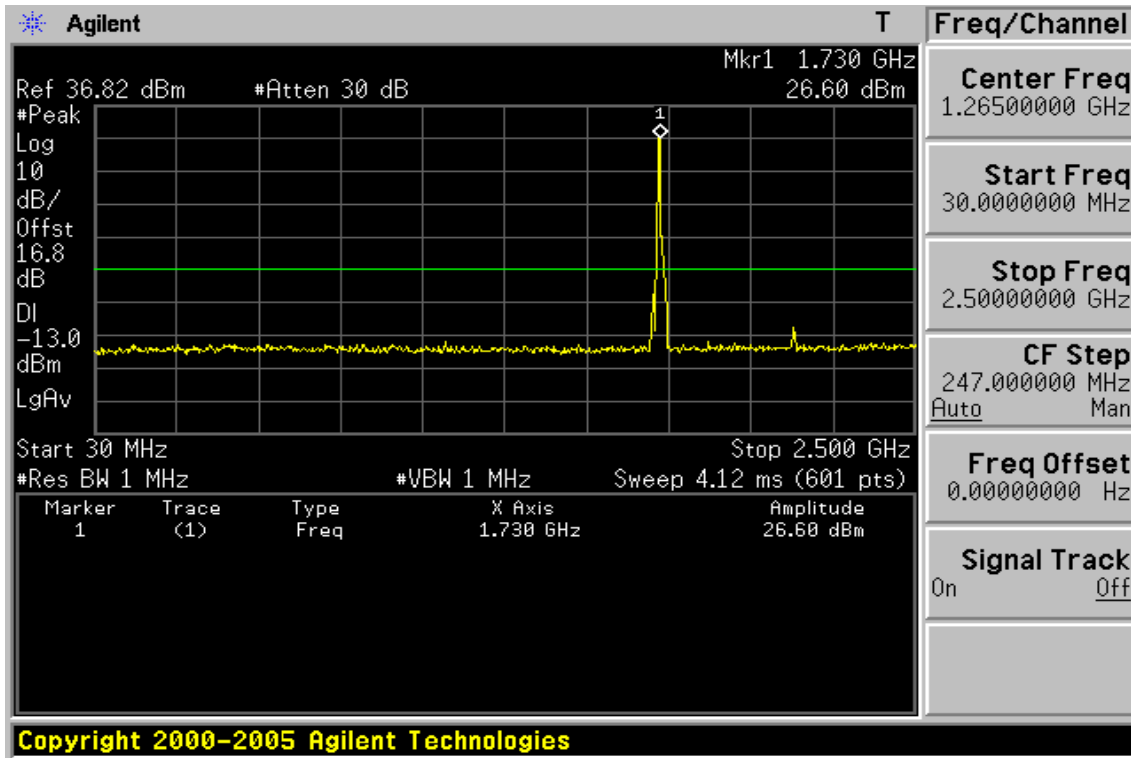
Figure 10-81: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Lowest



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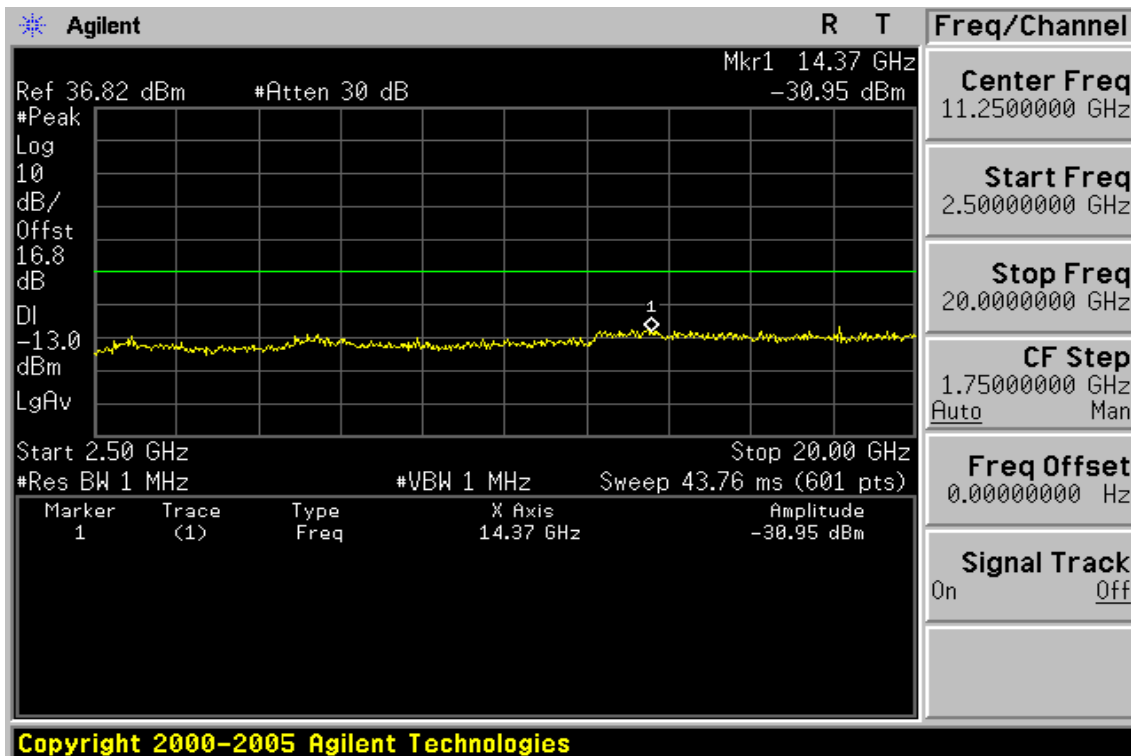
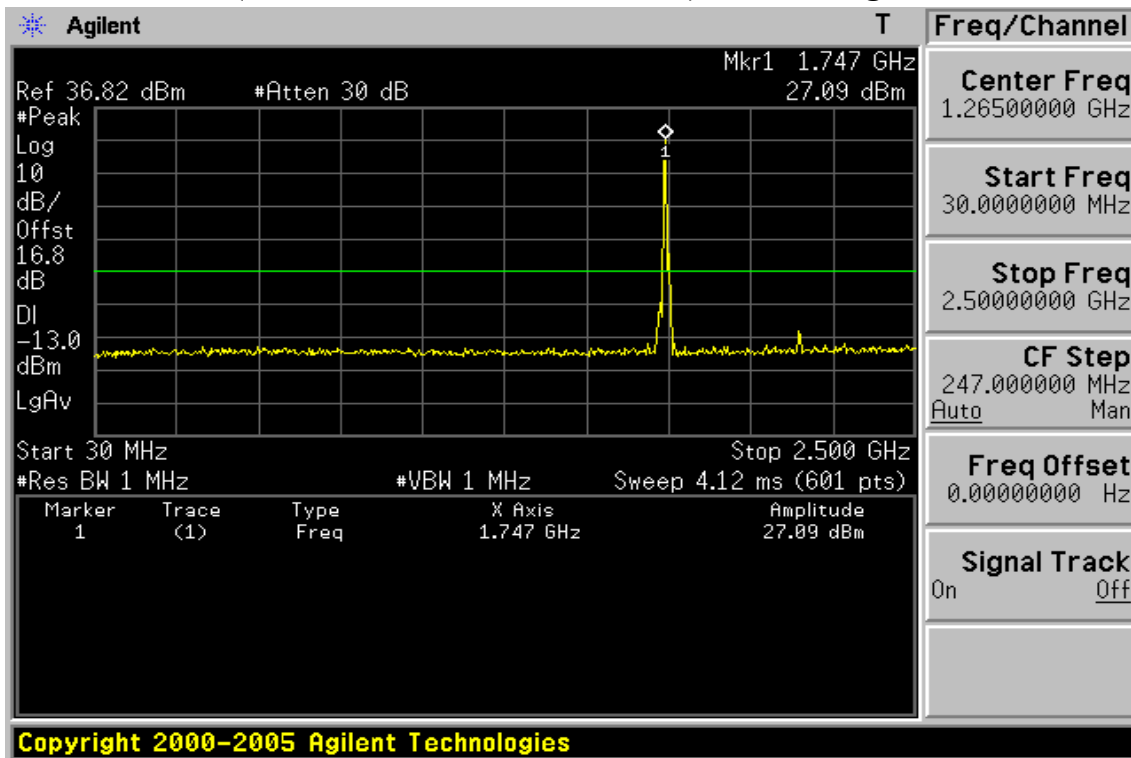
Figure 10-82: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Mid



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Figure 10-83: Out of Band emission at antenna terminals–10MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Highest



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Figure 10-84: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 0) Channel Lowest

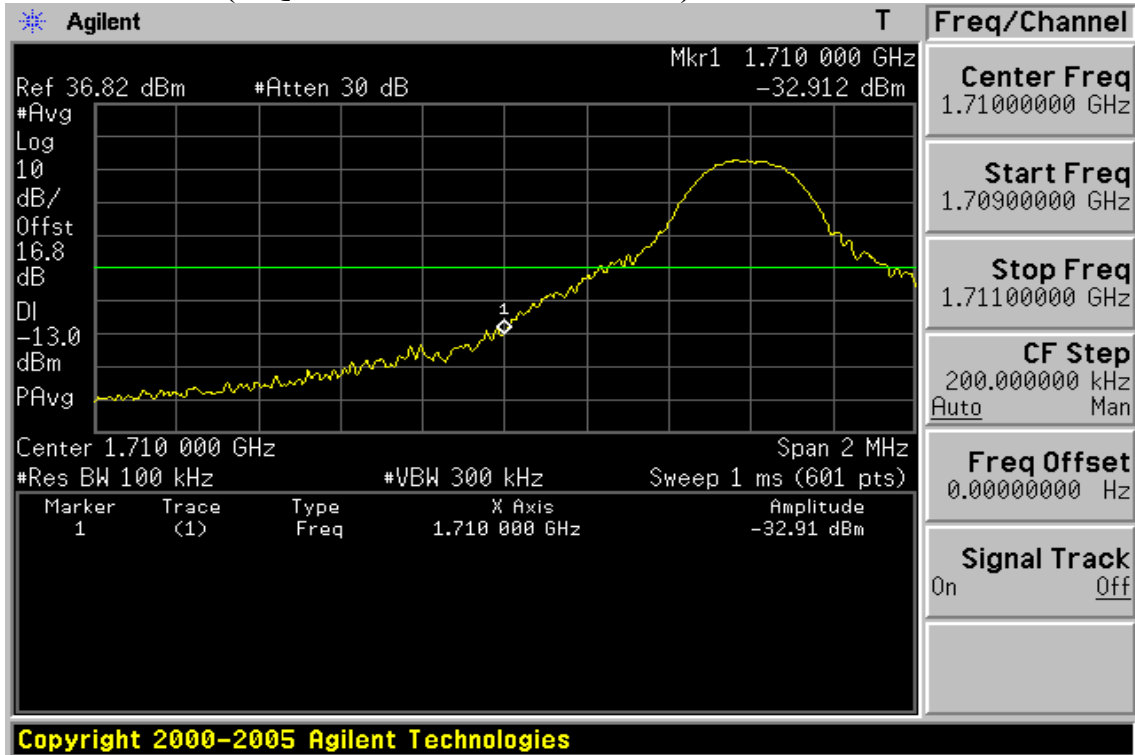
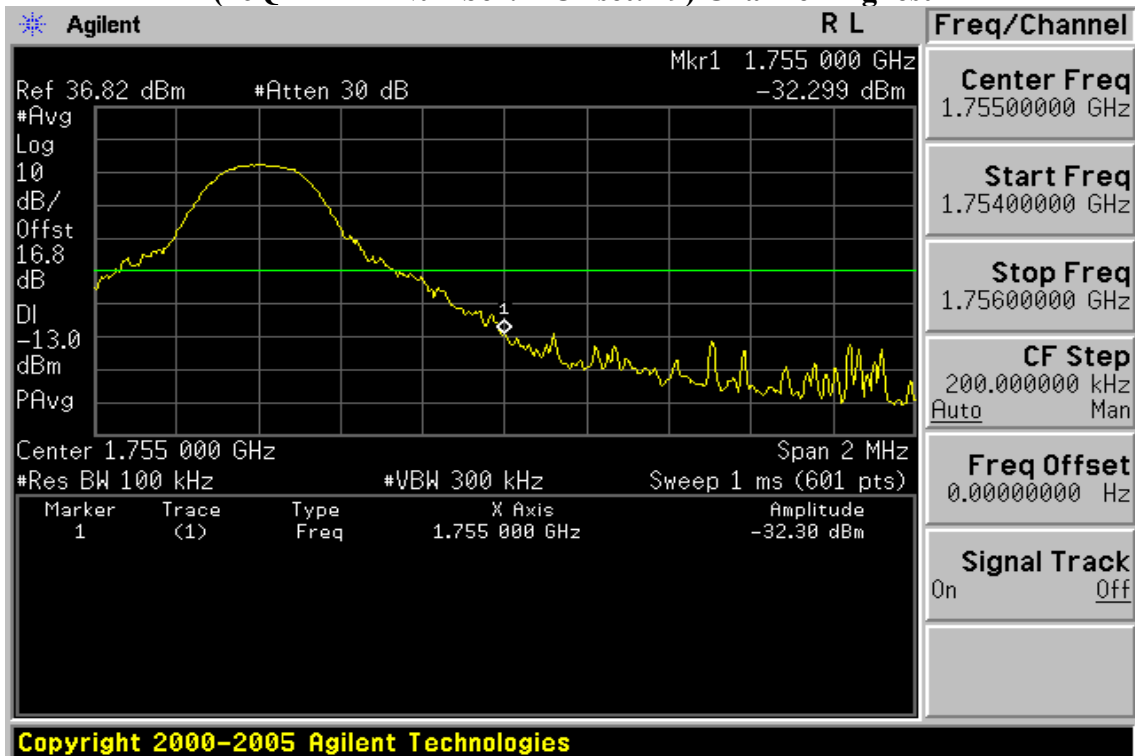


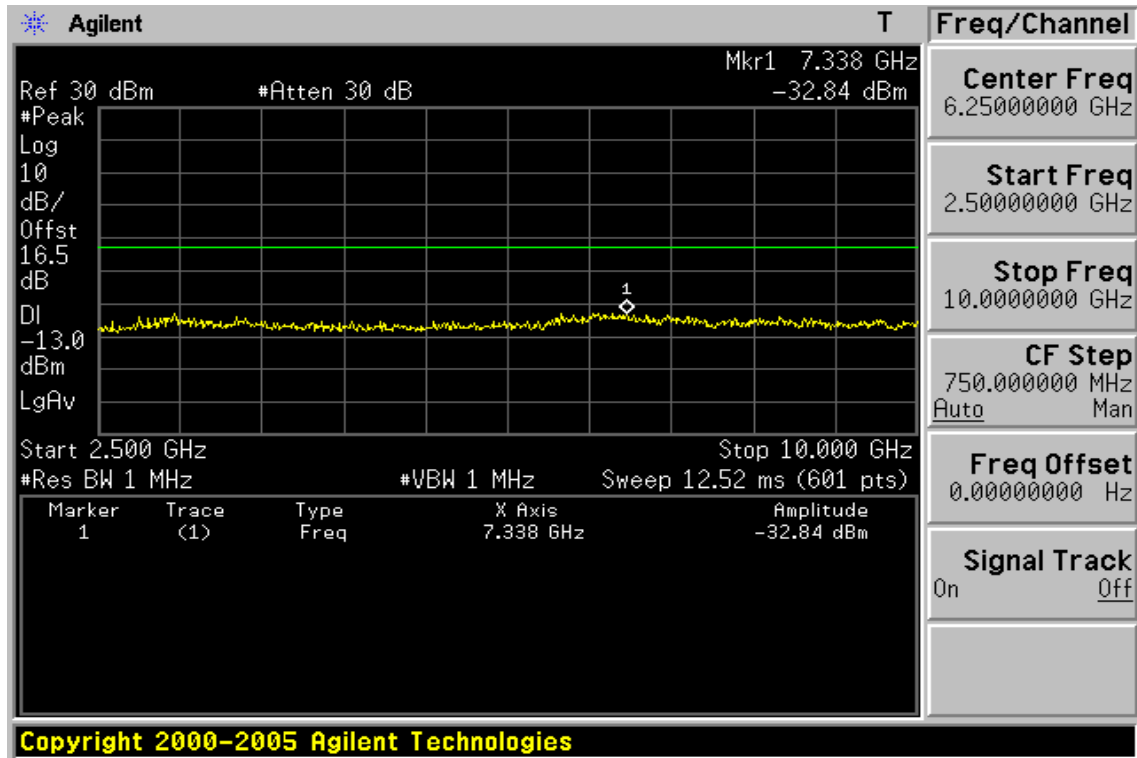
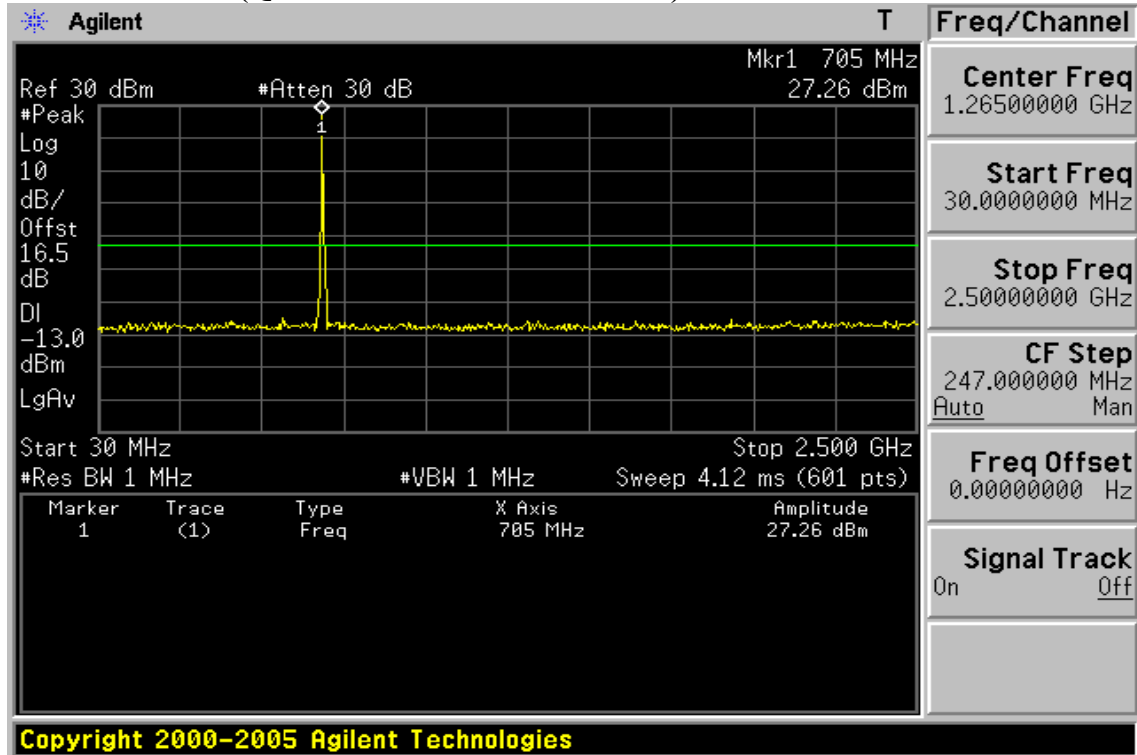
Figure 10-85: Band edge emission at antenna terminals –10MHz BW LTE-Band 4 (16QAM RB Number: 1 Offset: 49) Channel Highest



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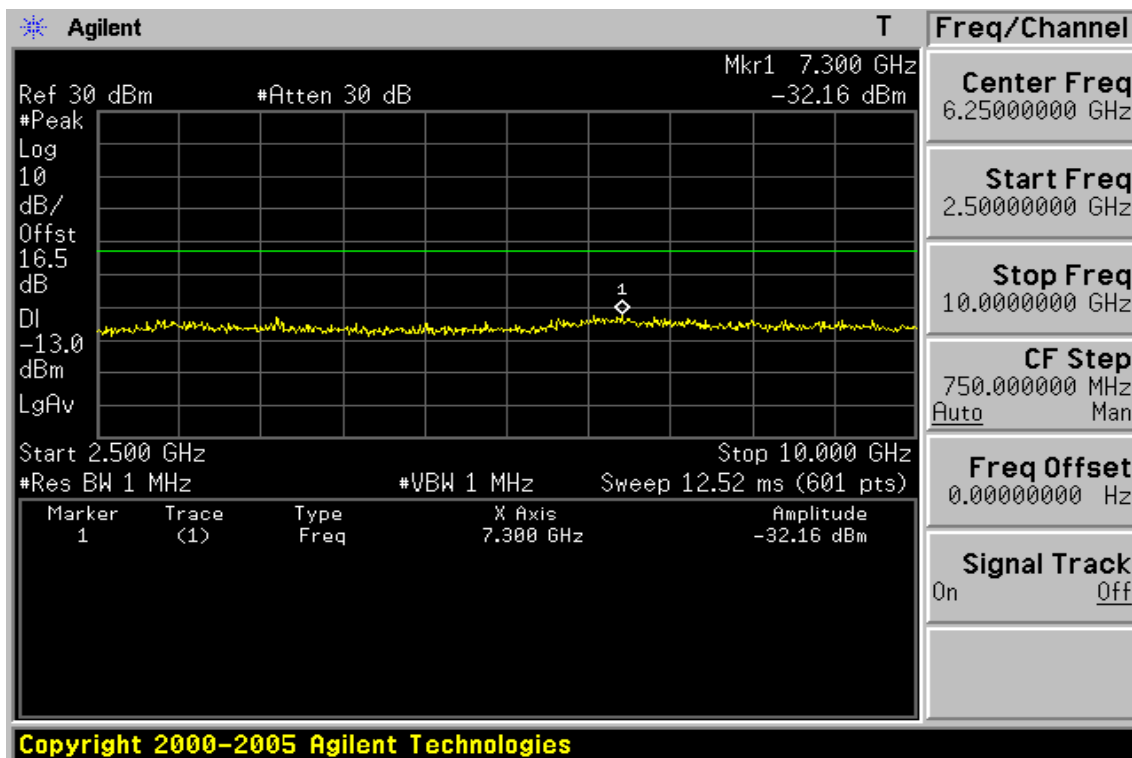
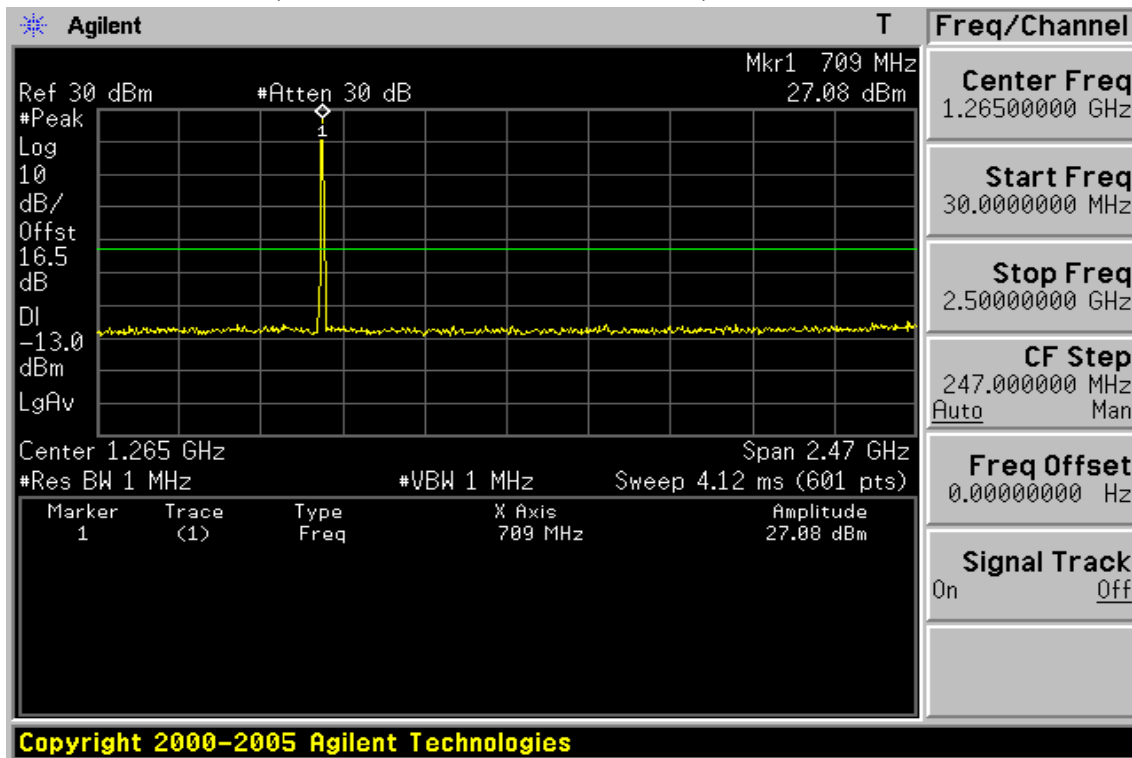
Figure 10-86: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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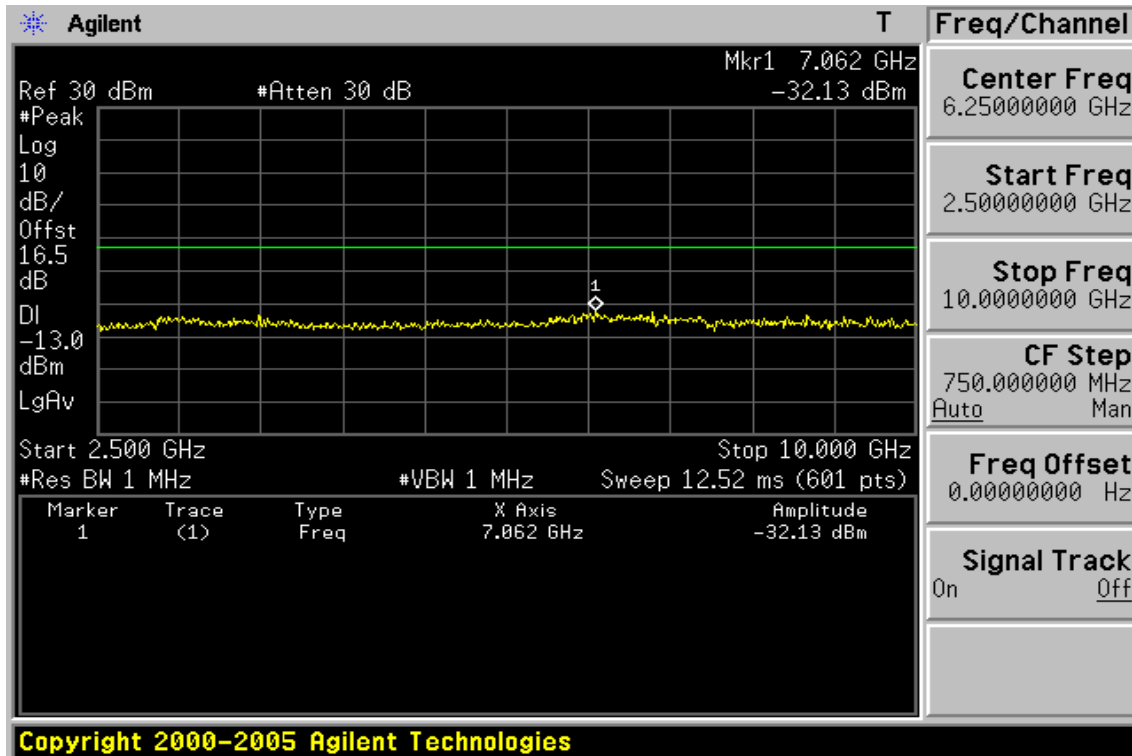
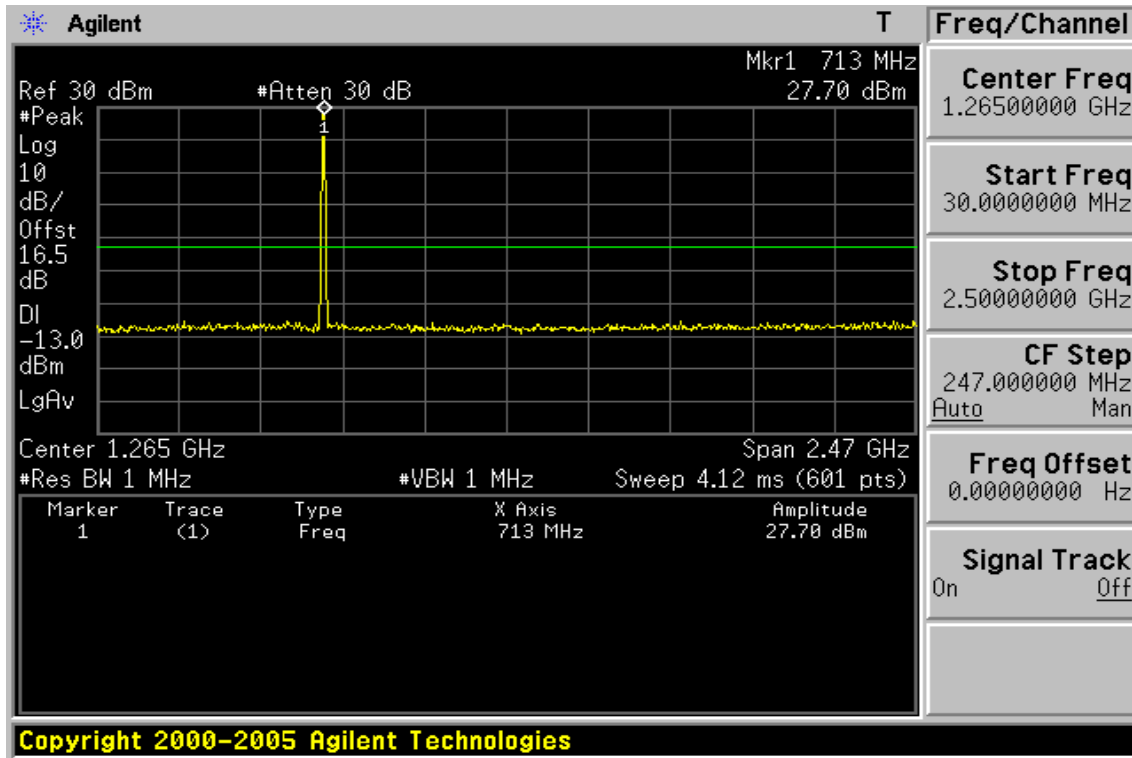
Figure 10-87: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Figure 10-88: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 10-89: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest

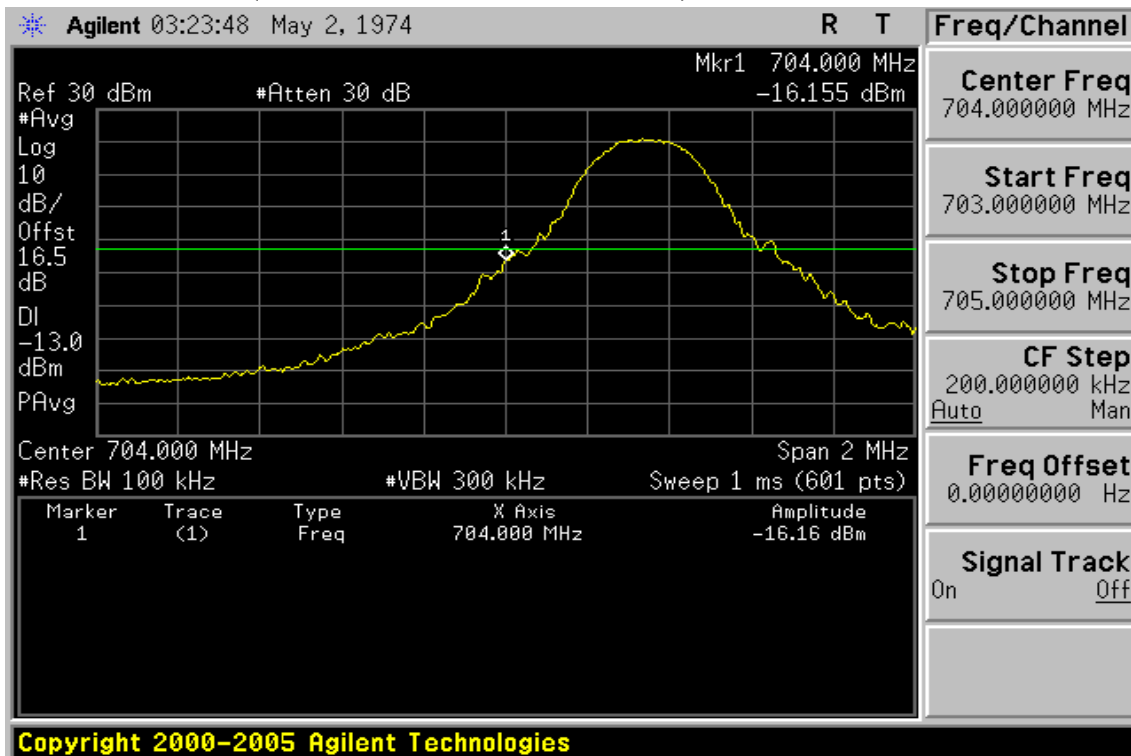
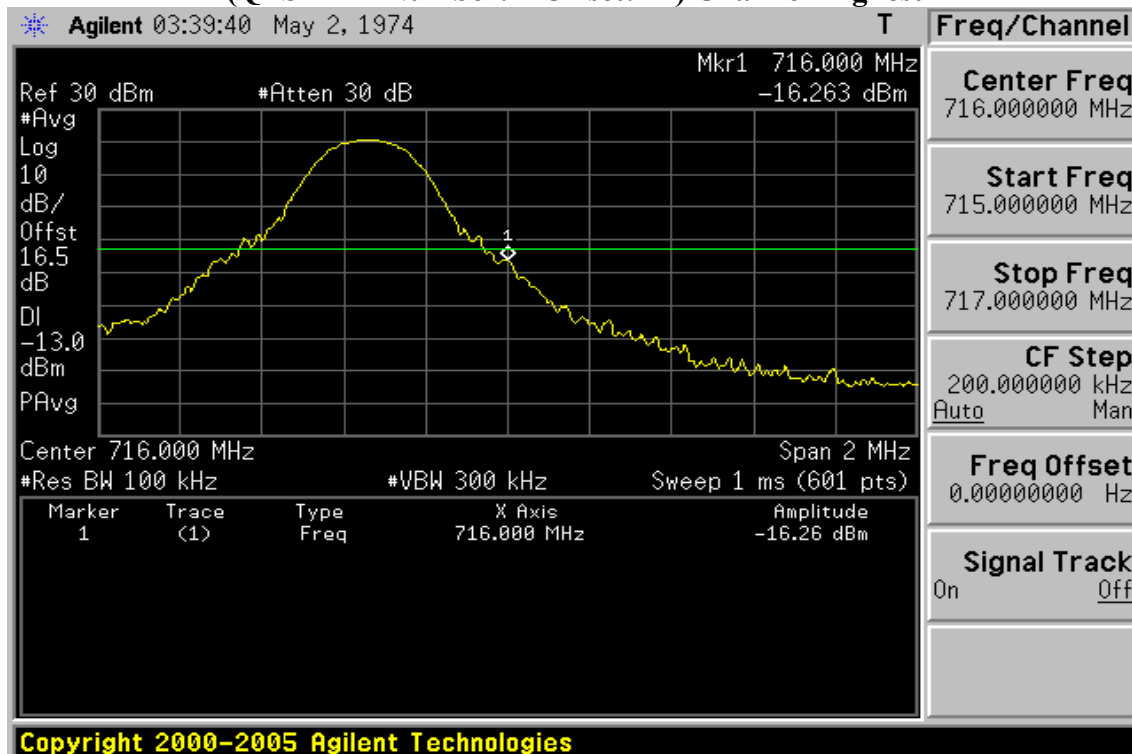


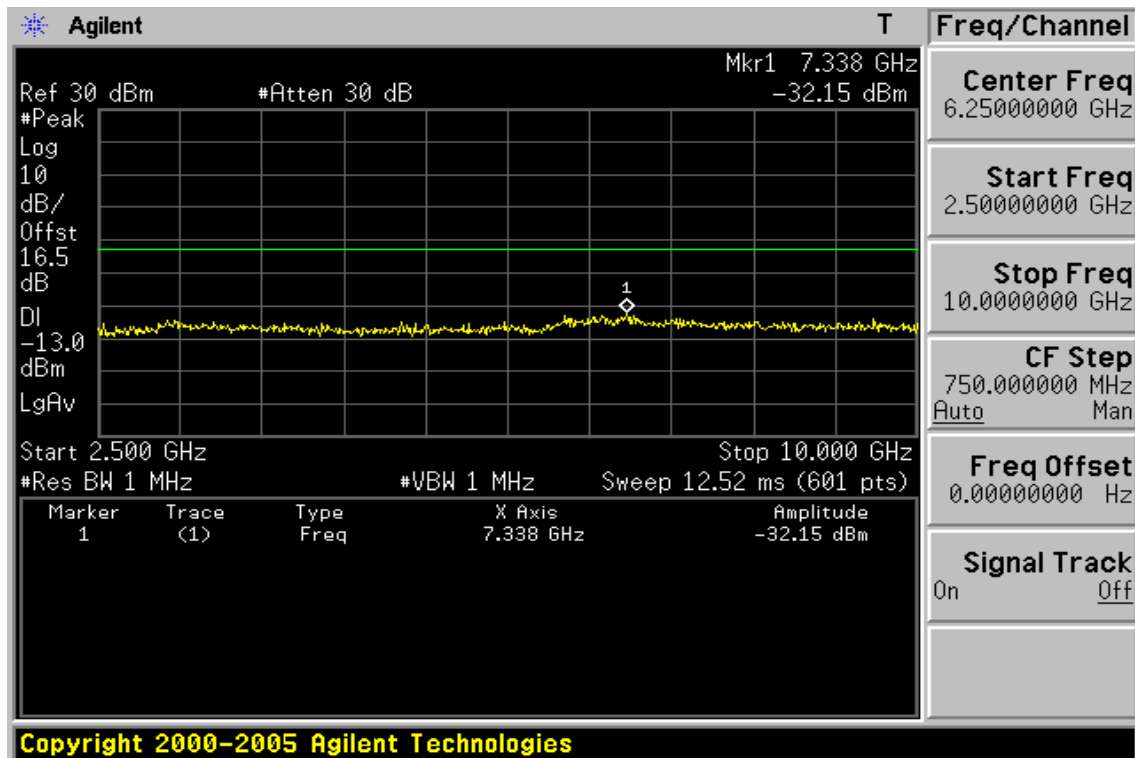
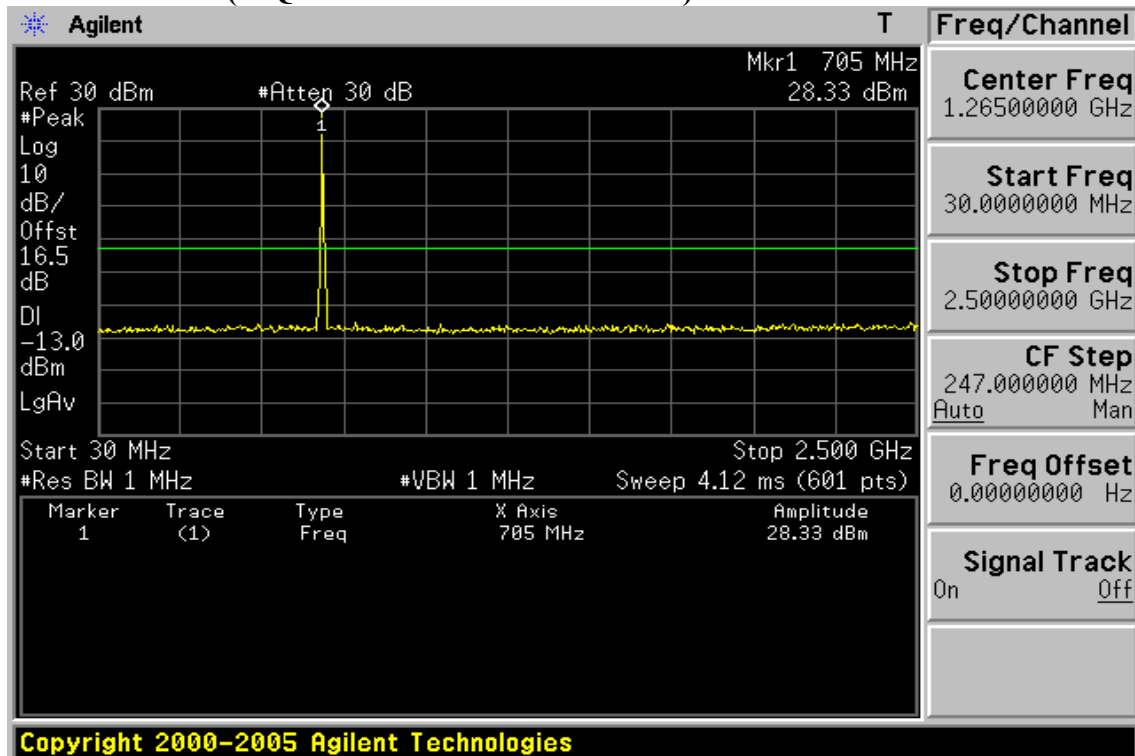
Figure 10-90: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 24) Channel Highest



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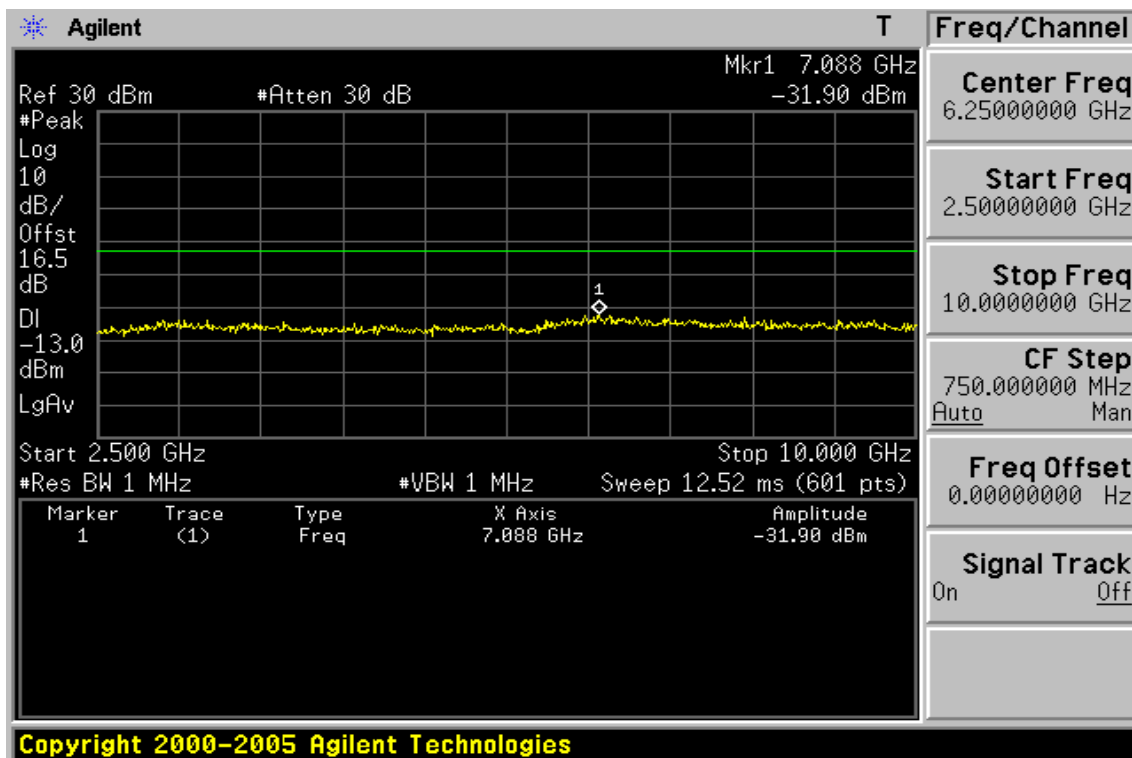
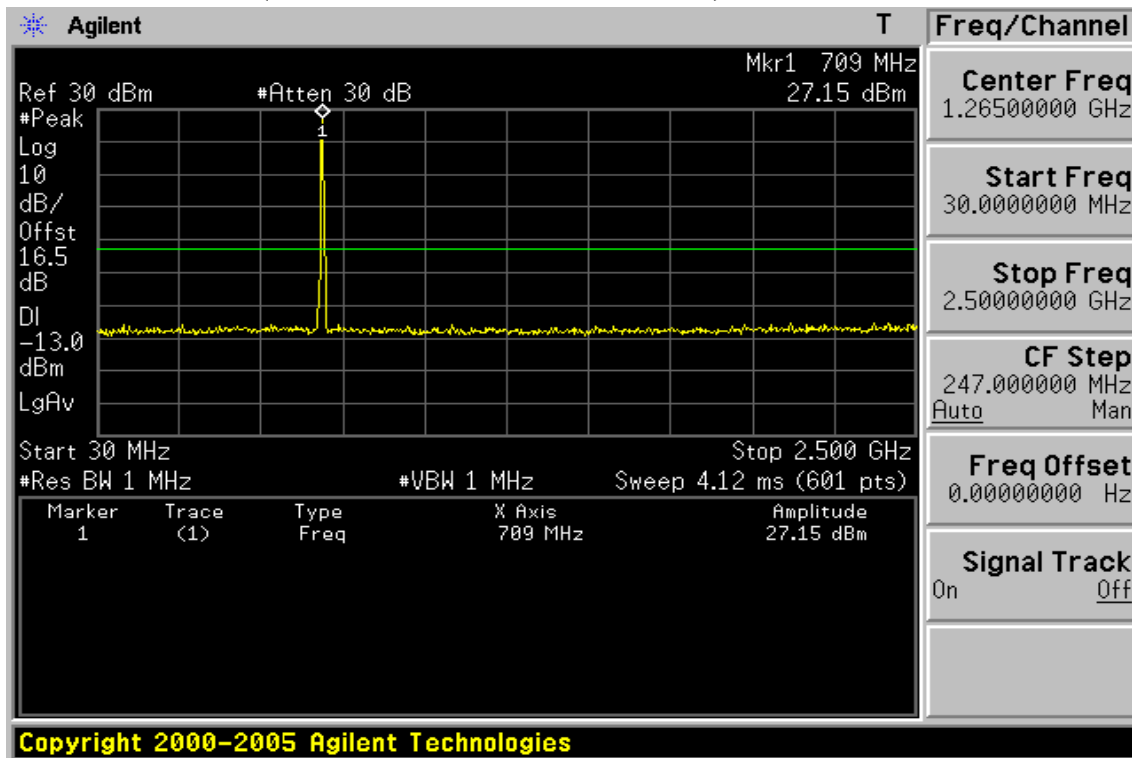
Figure 10-91: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 0) Channel Lowest



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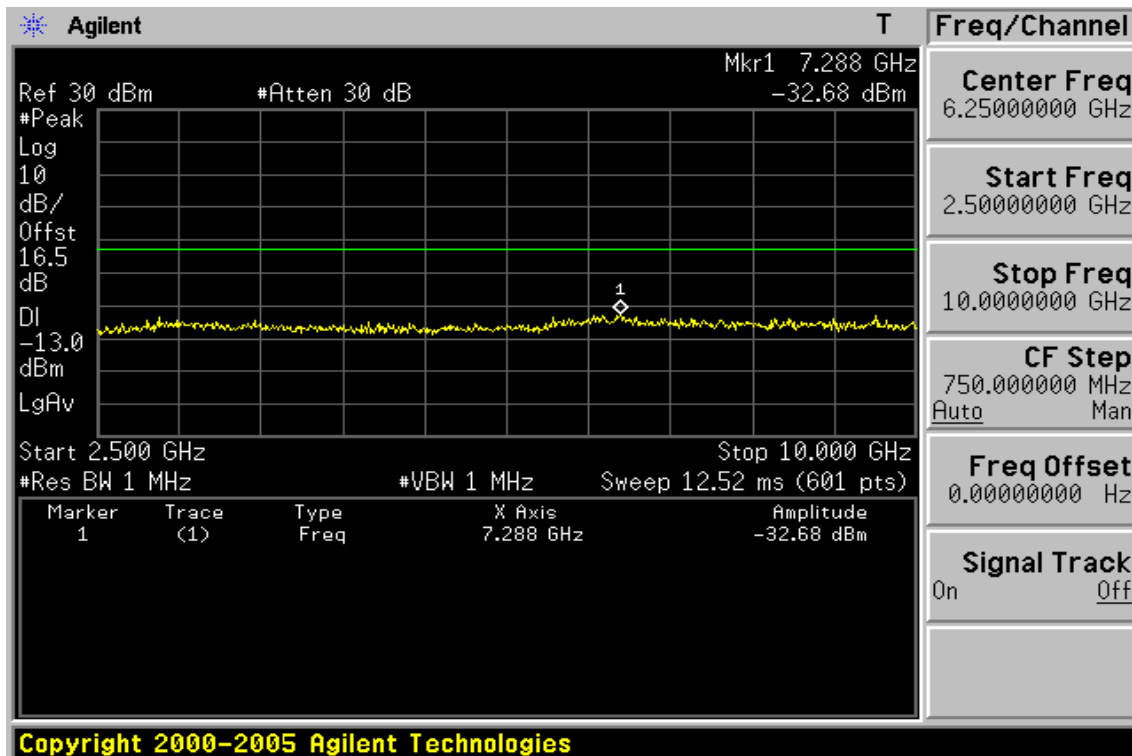
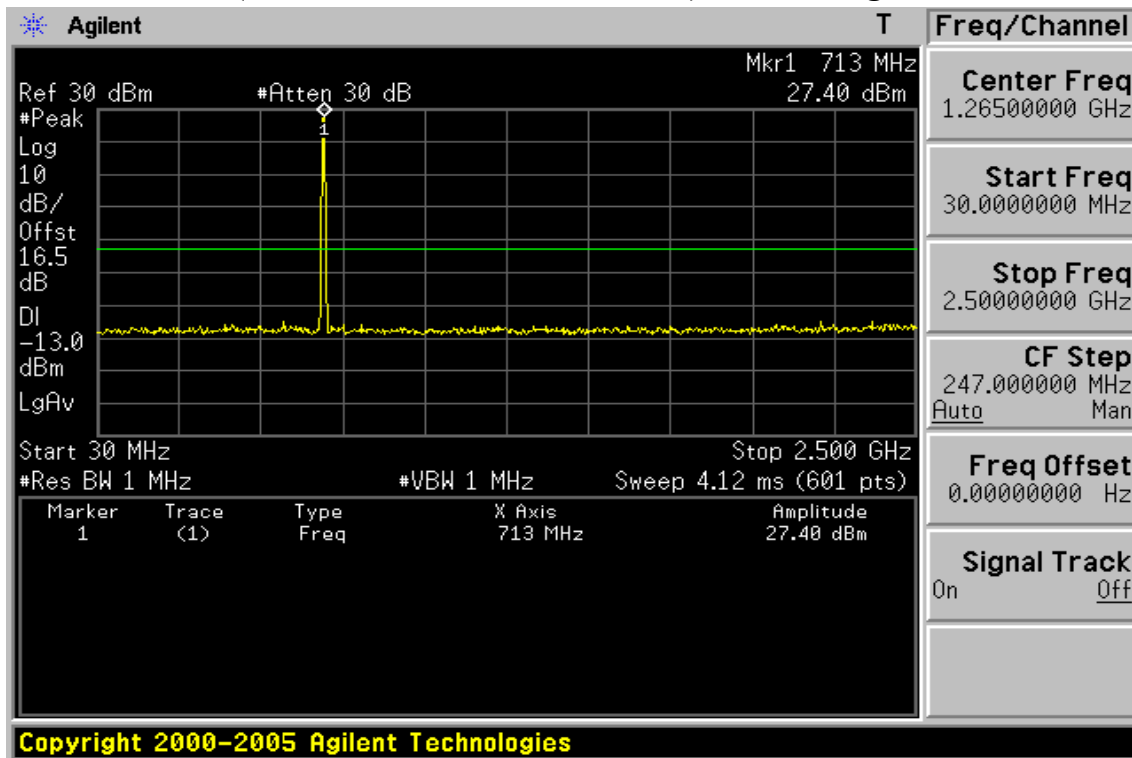
Figure 10-92: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 0) Channel Mid



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Figure 10-93: Out of Band emission at antenna terminals–5MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 0) Channel Highest



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Figure 10-94: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 0) Channel Lowest

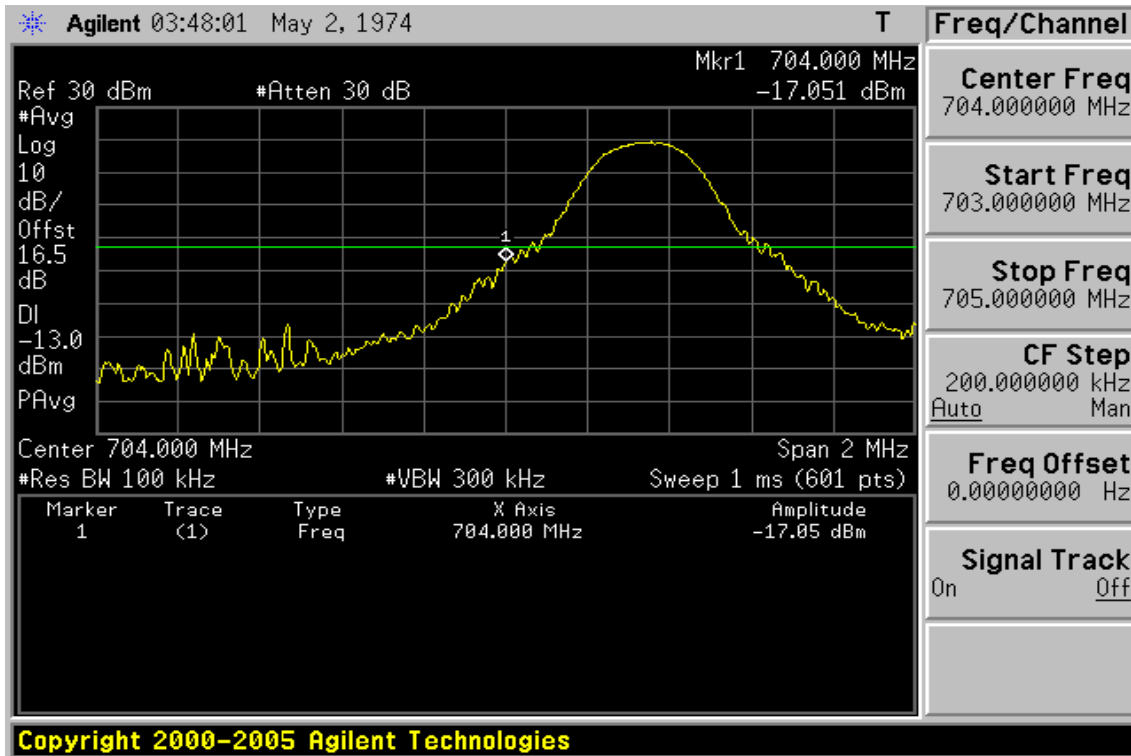
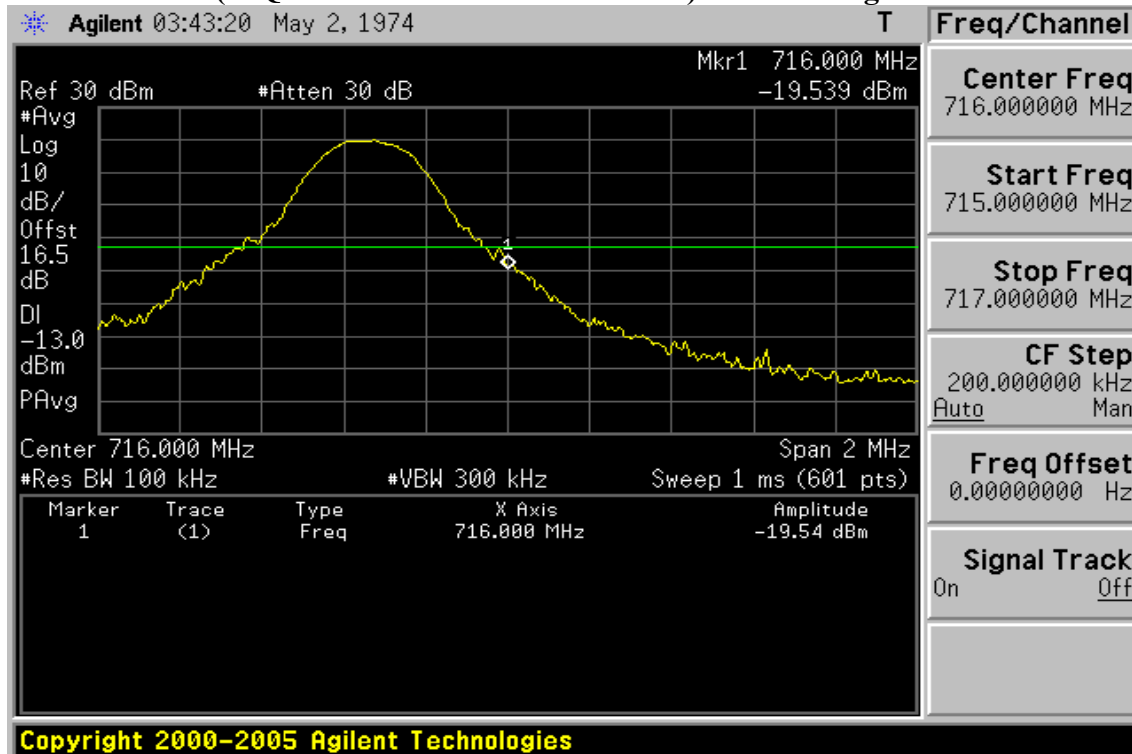


Figure 10-95: Band edge emission at antenna terminals –5MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 24) Channel Highest

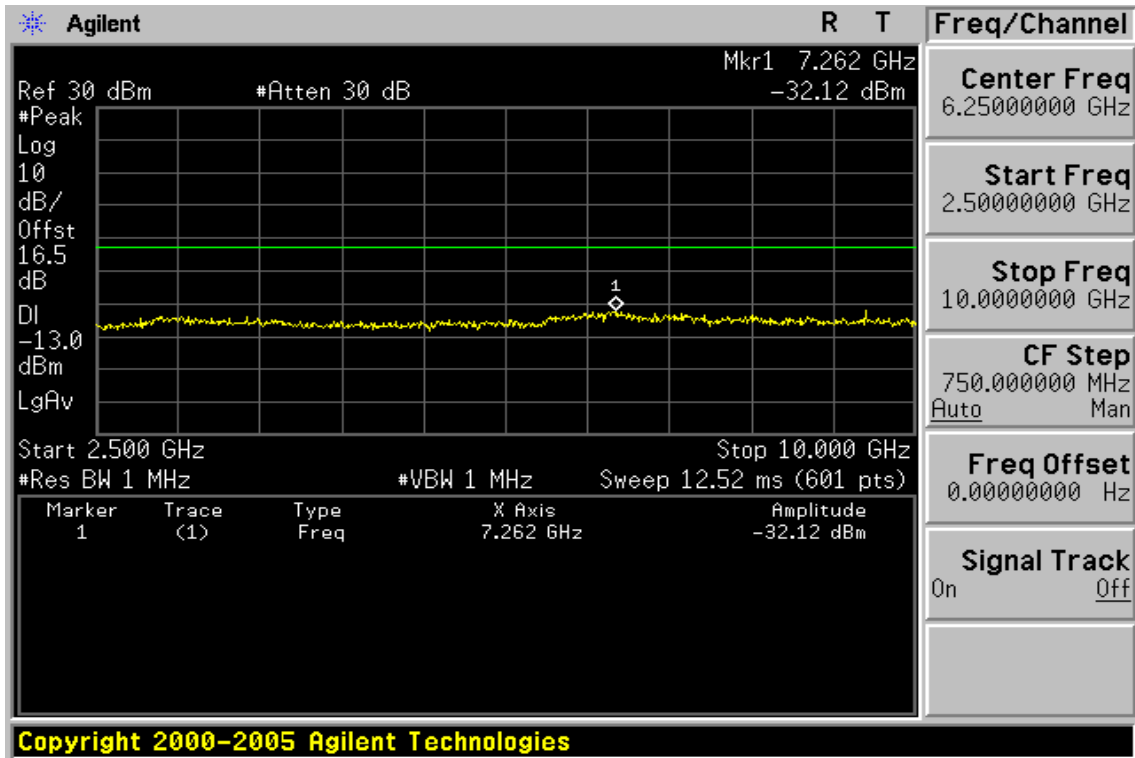
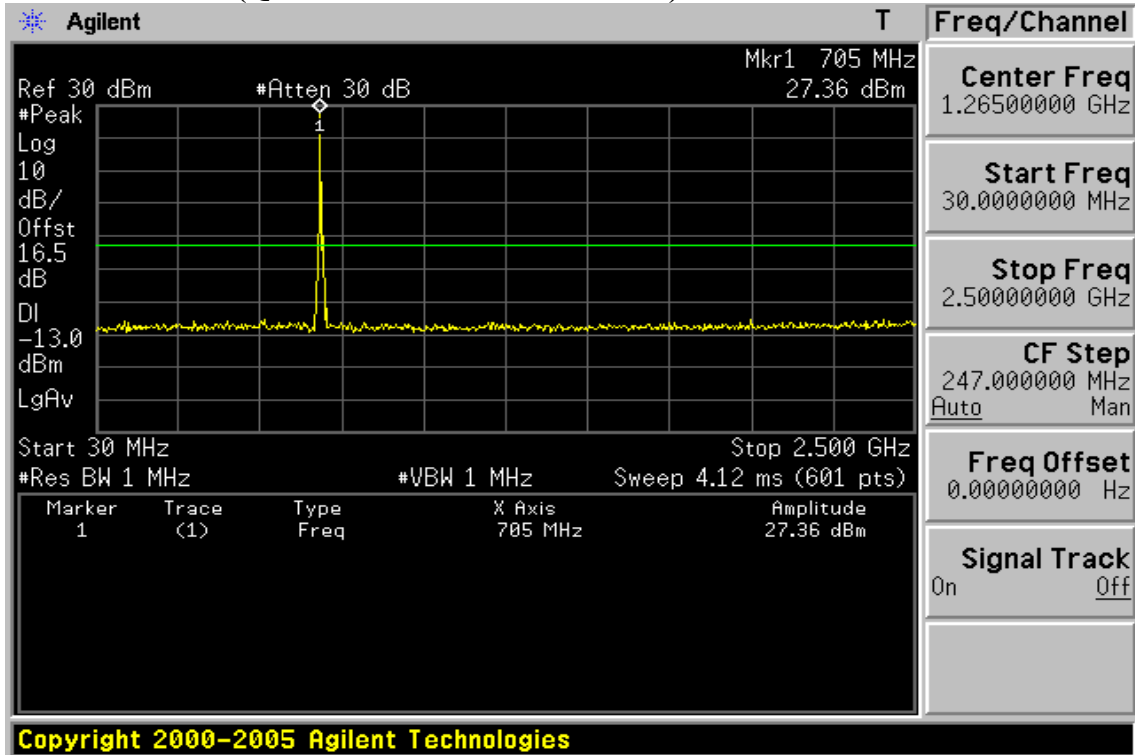


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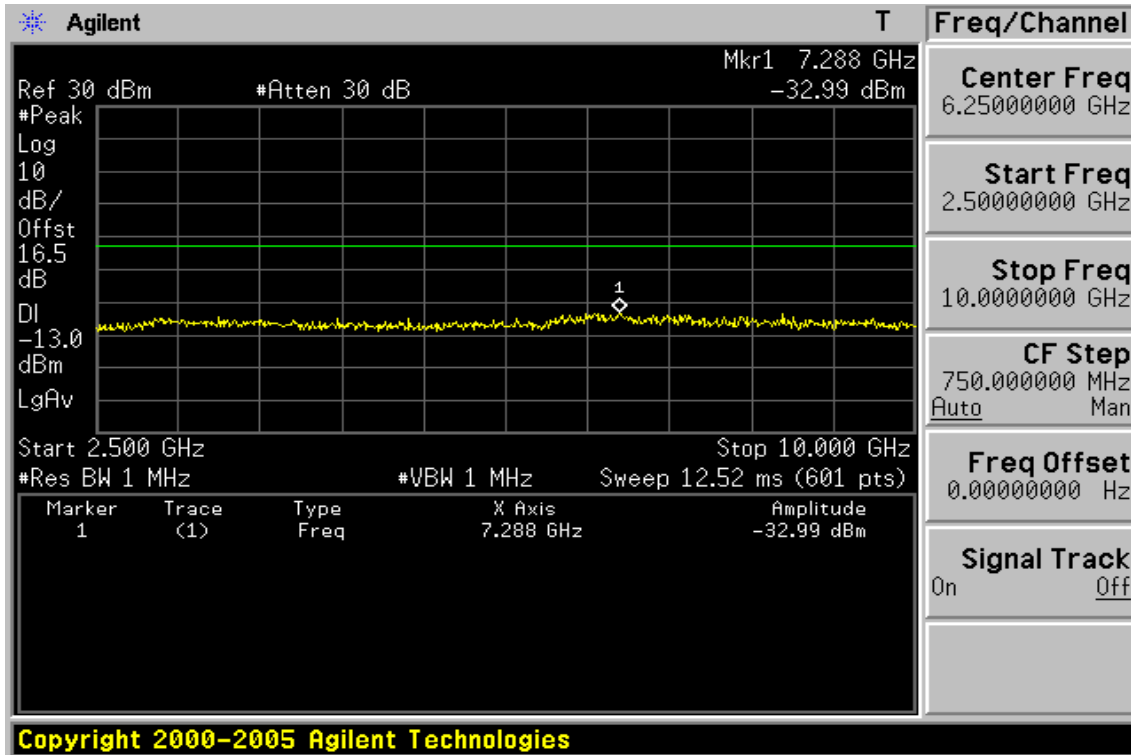
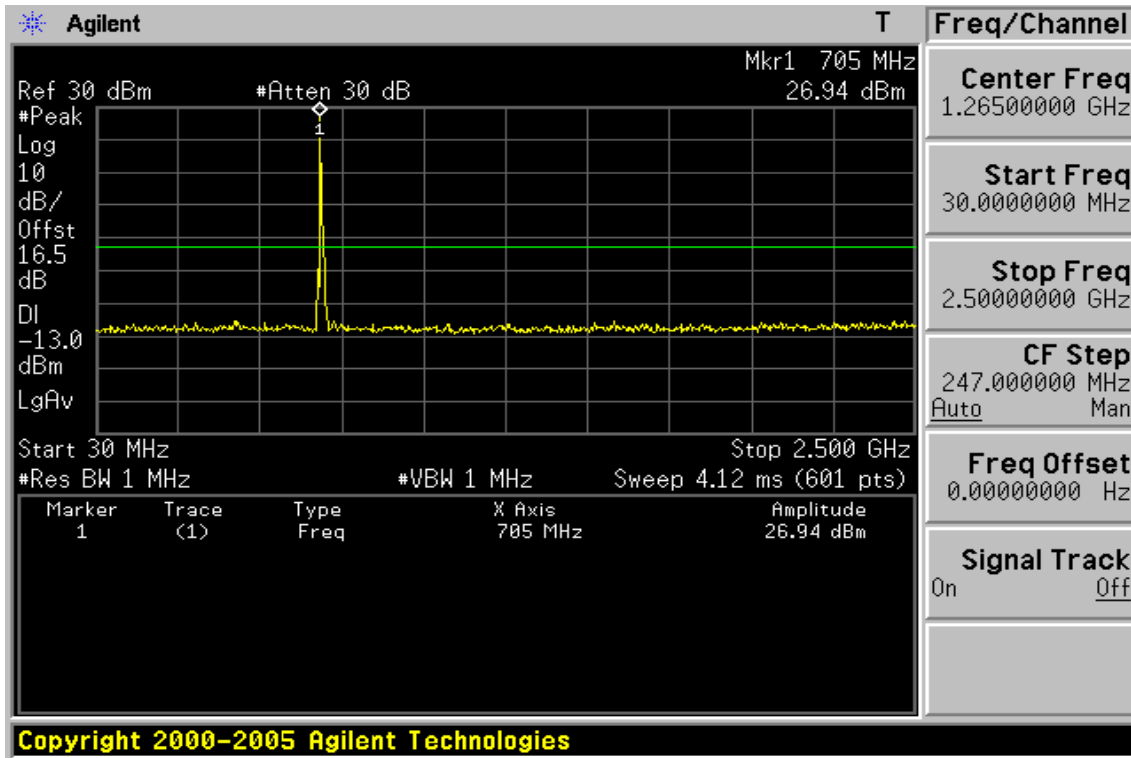
Figure 10-96: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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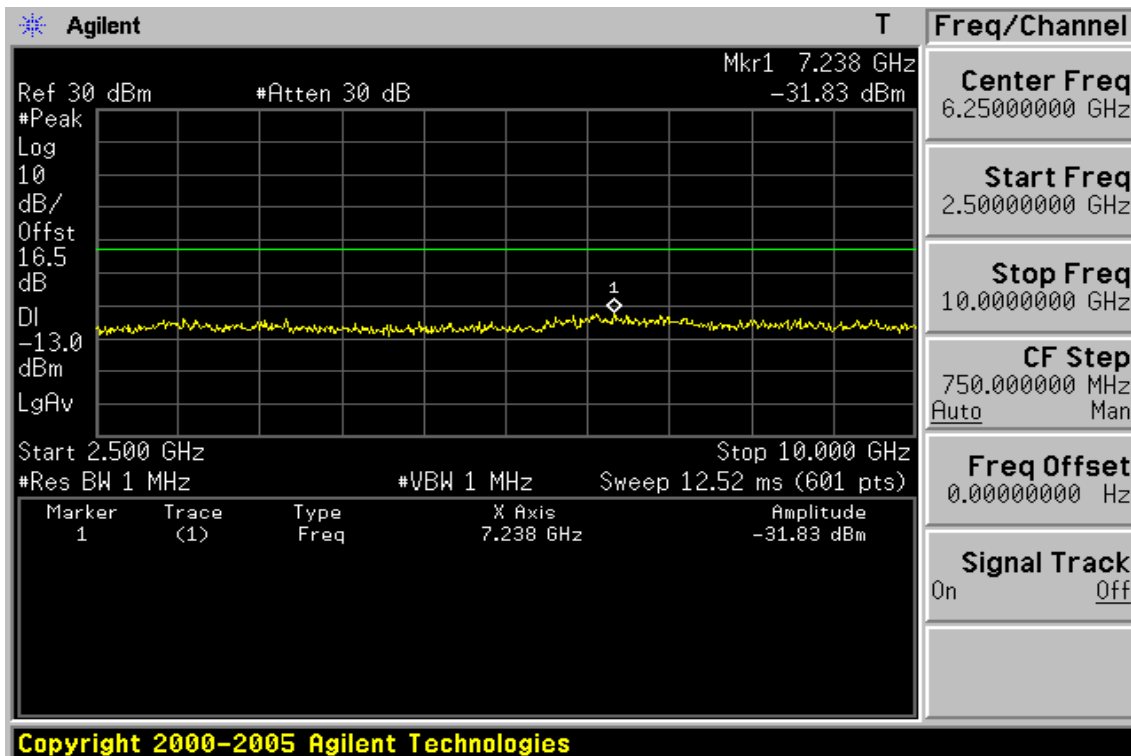
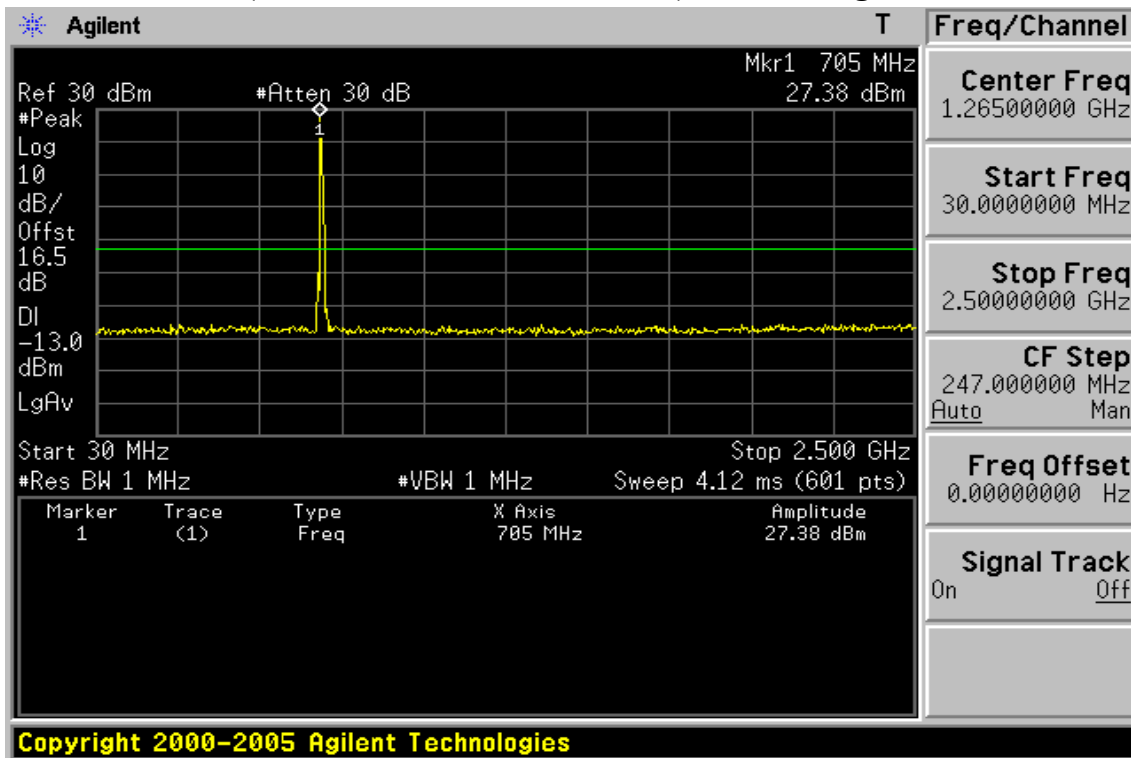
Figure 10-97: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Mid



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Figure 10-98: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Highest



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Figure 10-99: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 0) Channel Lowest

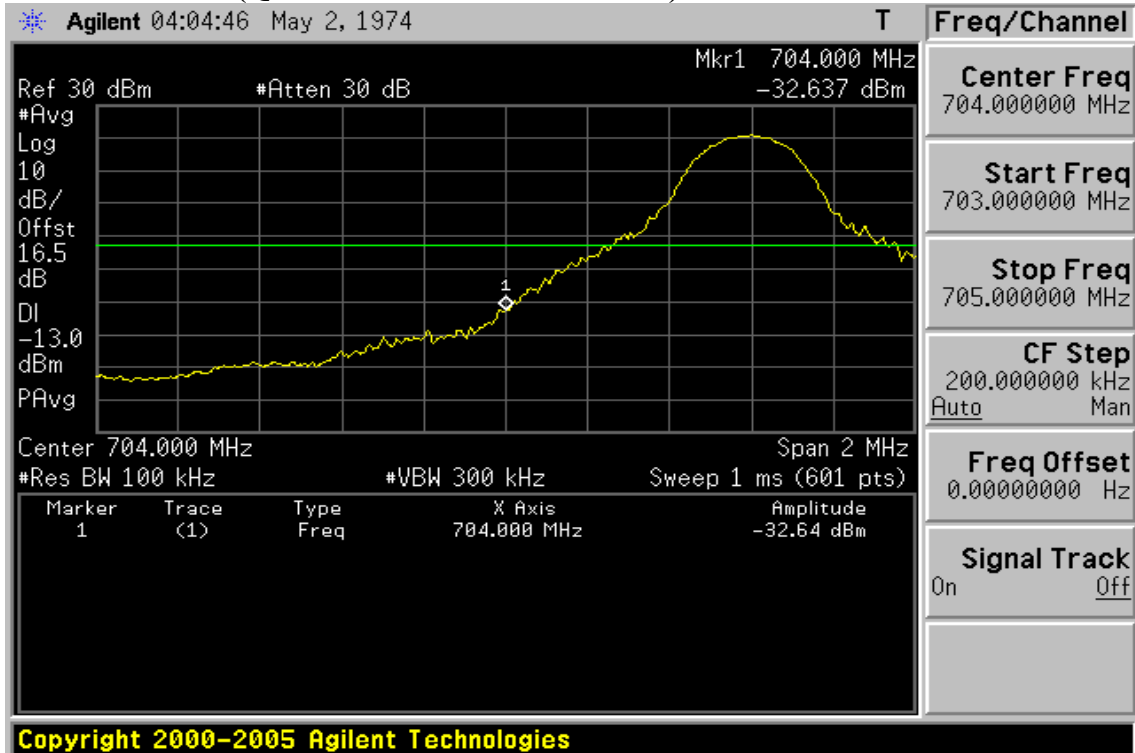
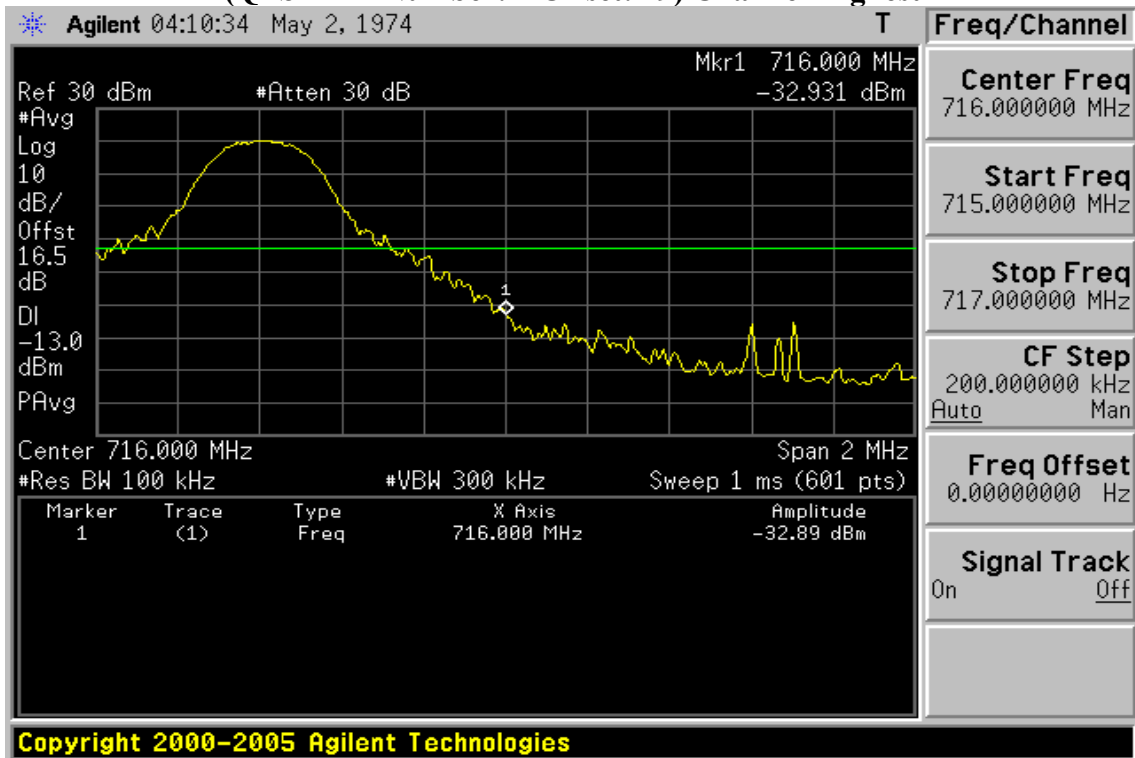


Figure 10-100: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (QPSK RB Number: 1 Offset: 49) Channel Highest



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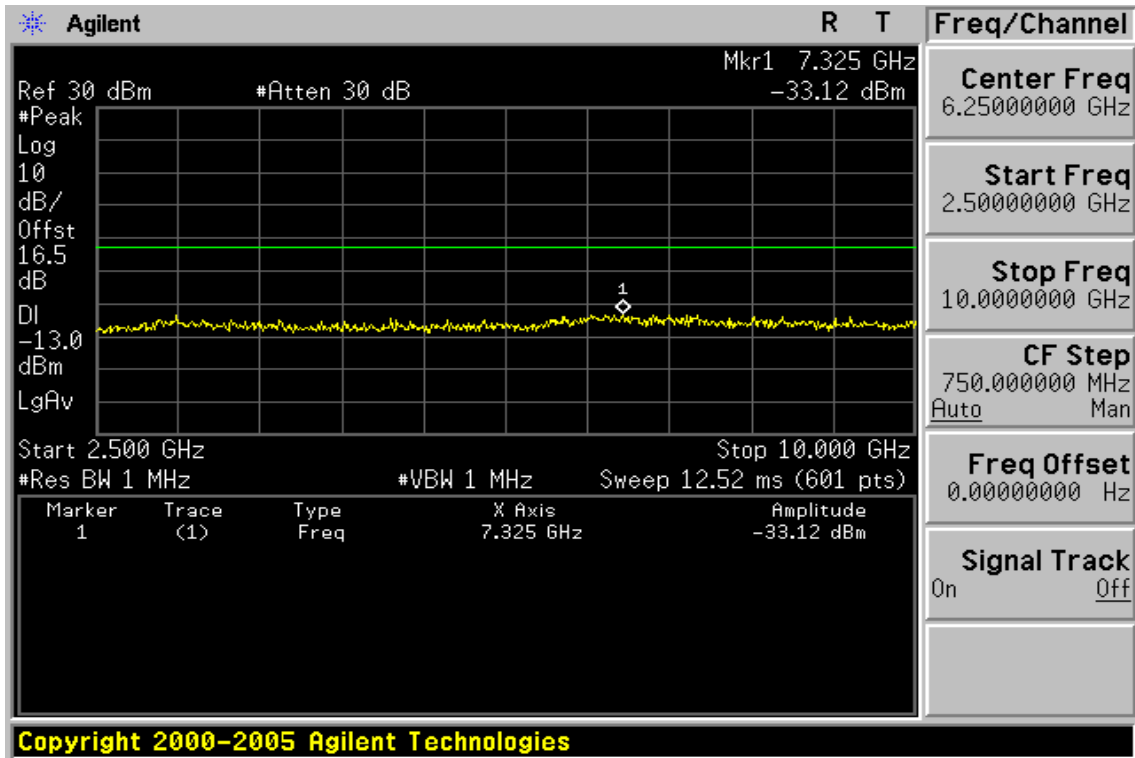
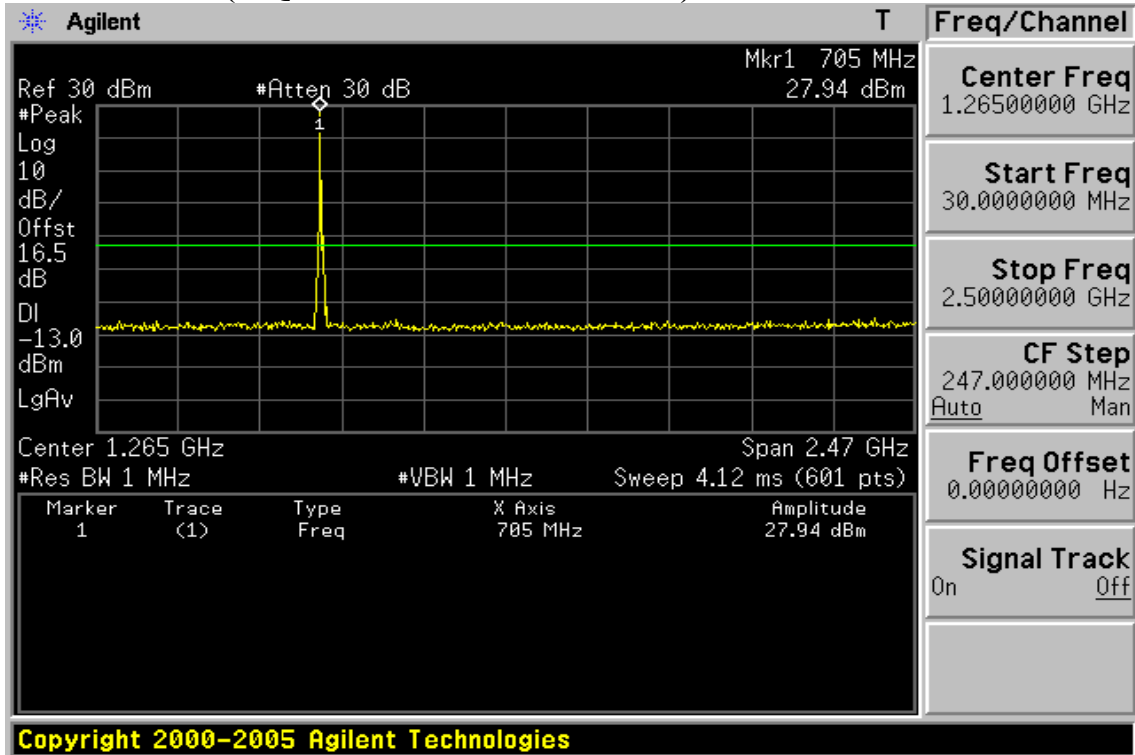
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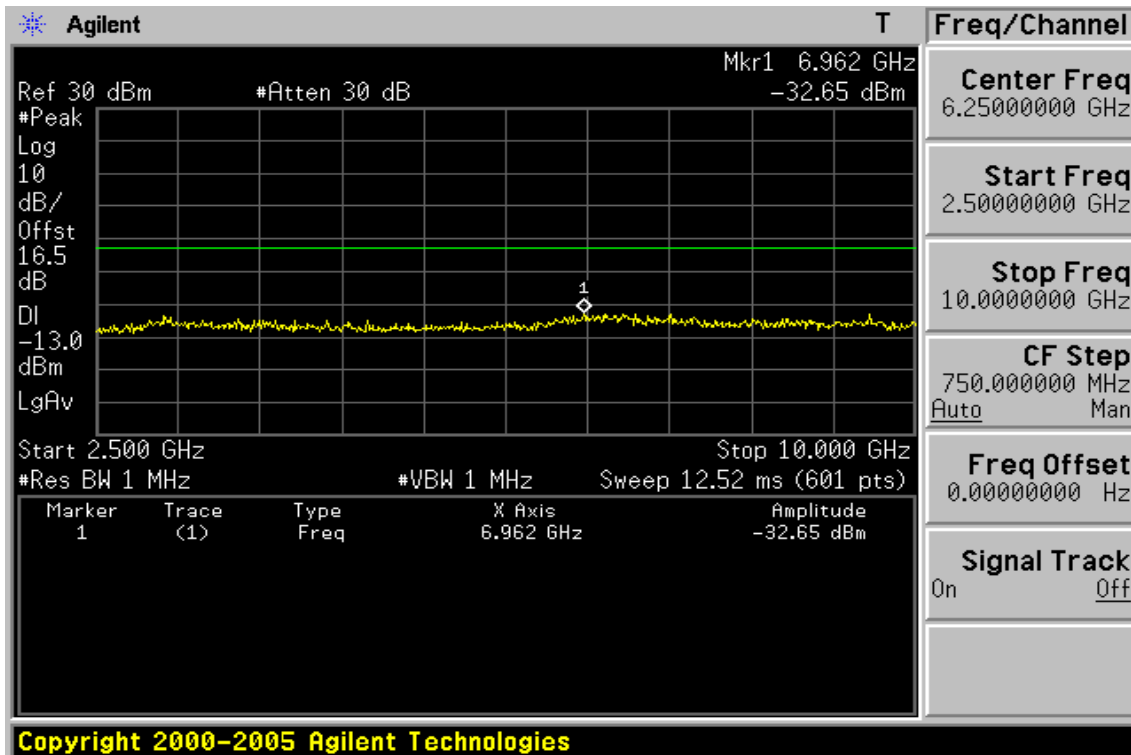
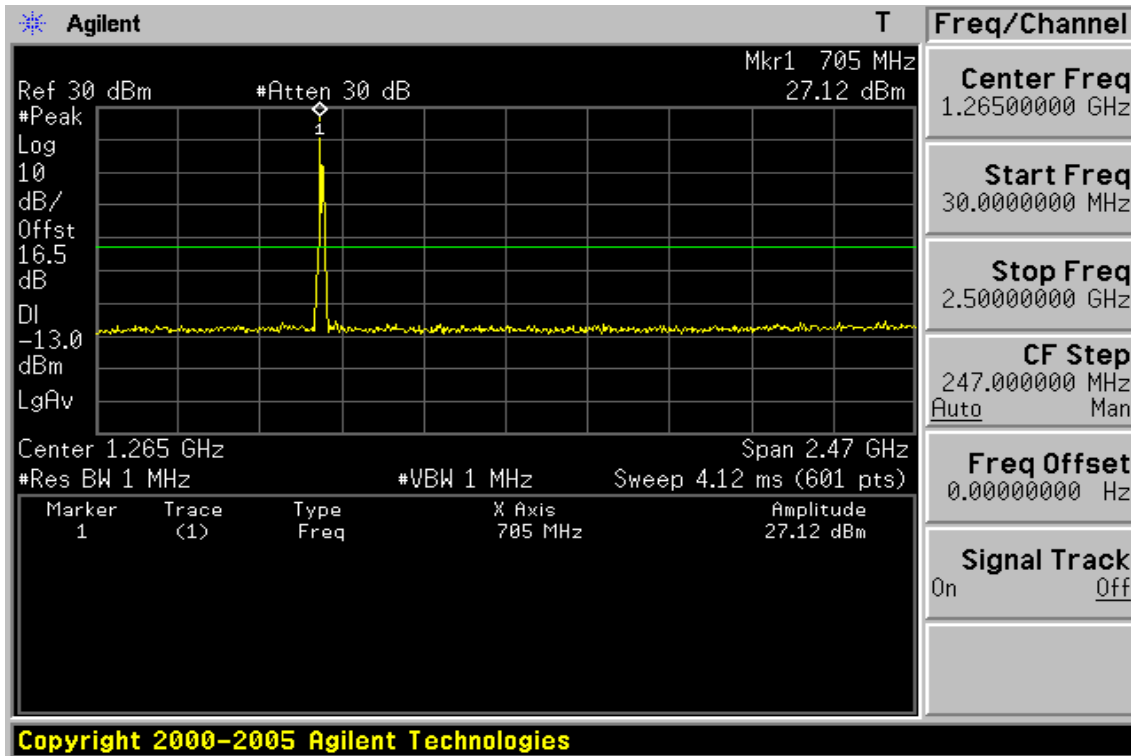
Figure 10-101: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 0) Channel Lowest



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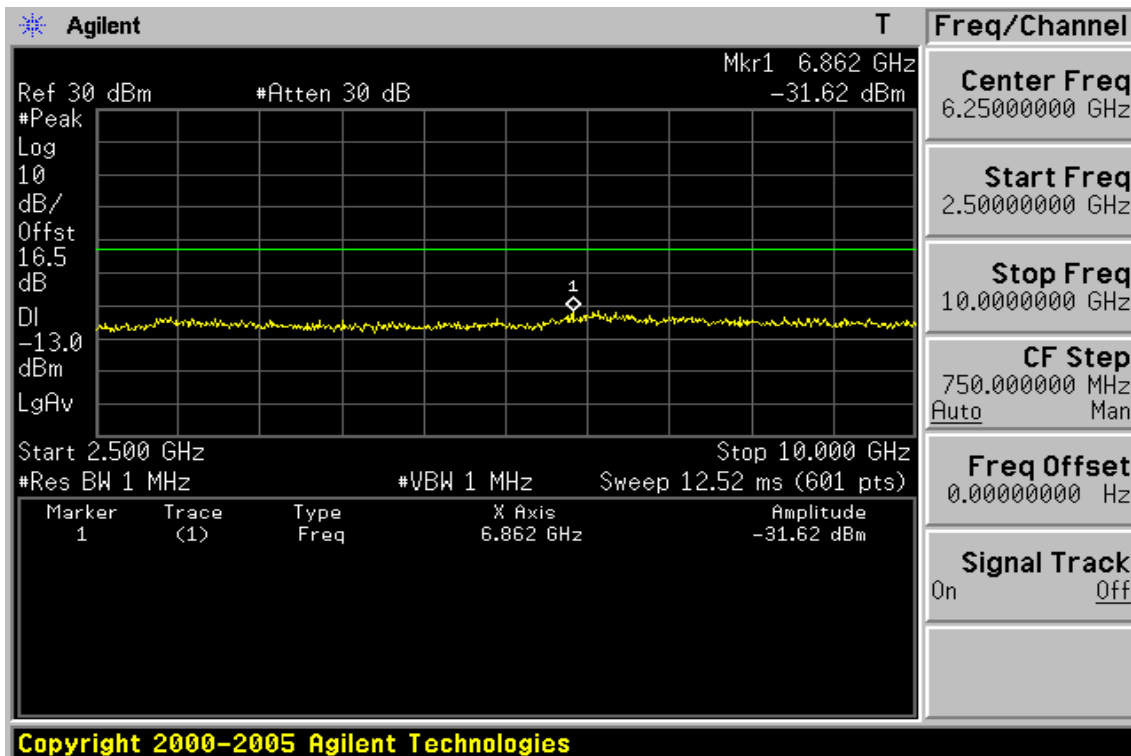
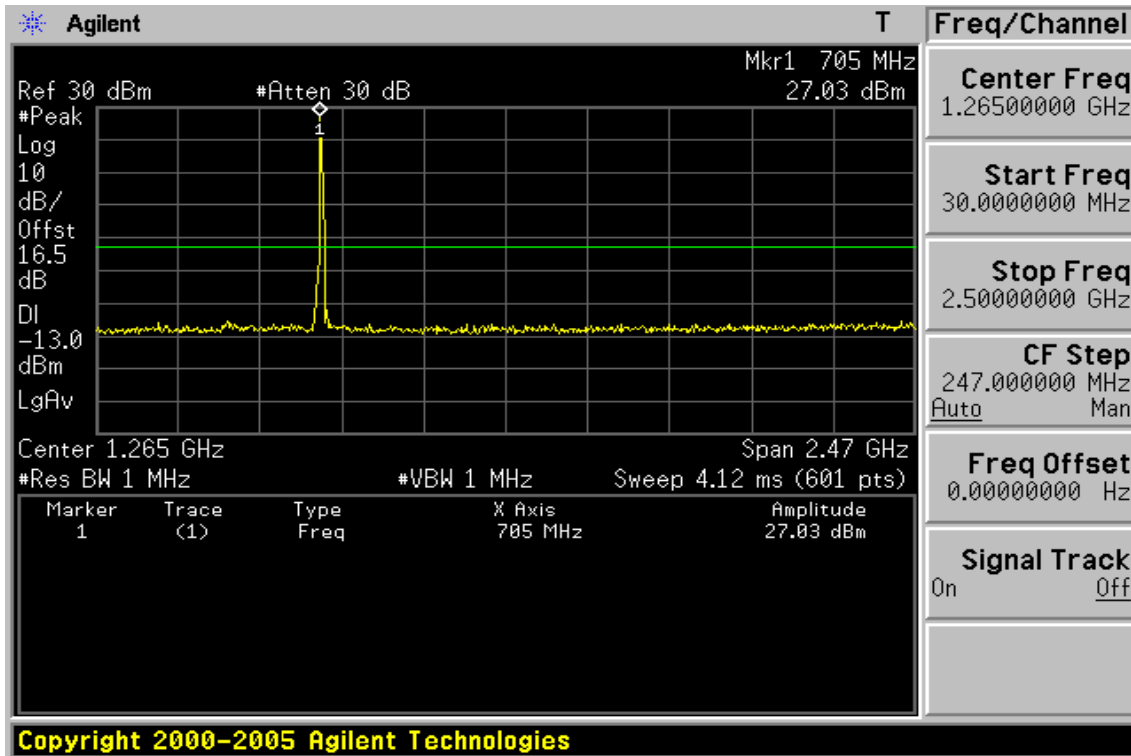
Figure 10-102: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 0) Channel Mid



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Figure 10-103: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 0) Channel Highest



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Figure 10-104: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 0) Channel Lowest

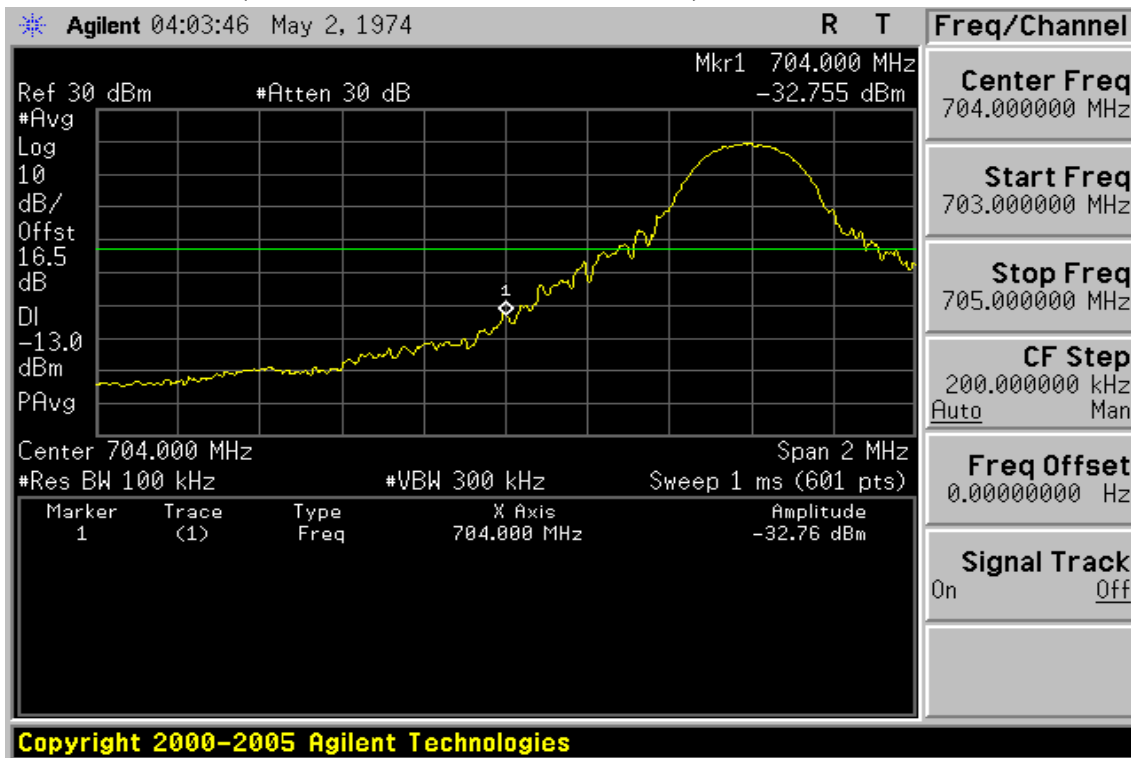
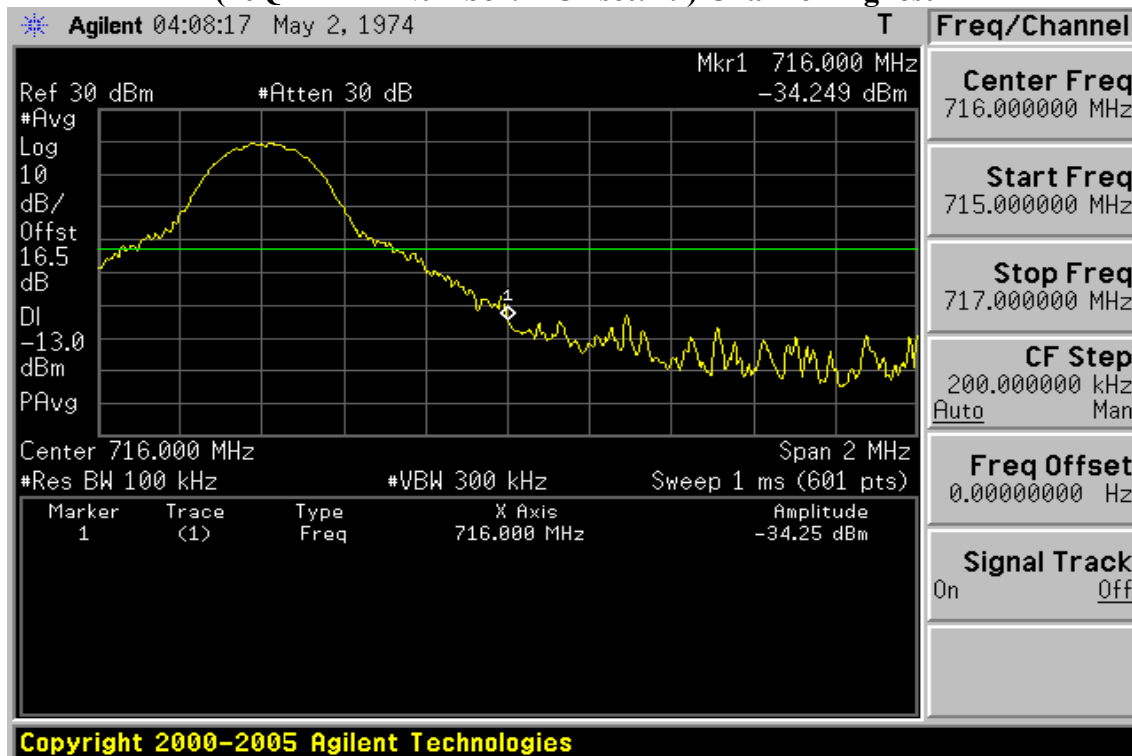


Figure 10-105: Out of Band emission at antenna terminals–10MHz BW LTE-Band 17 (16QAM RB Number: 1 Offset: 49) Channel Highest



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11. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

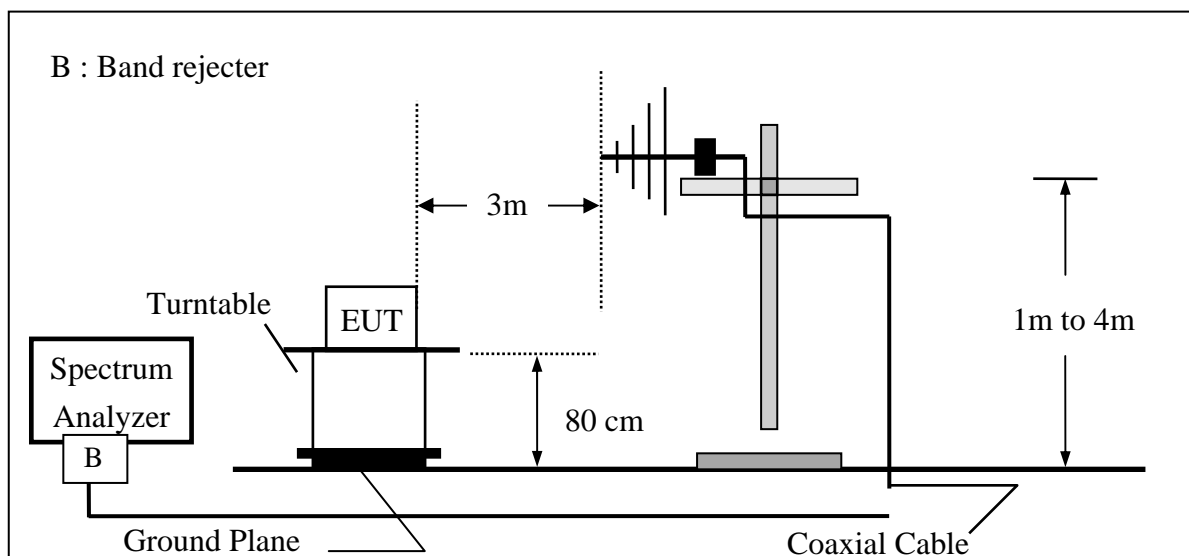
11.1. Standard Applicable:

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(g) 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)

11.2. EUT Setup (Block Diagram of Configuration):

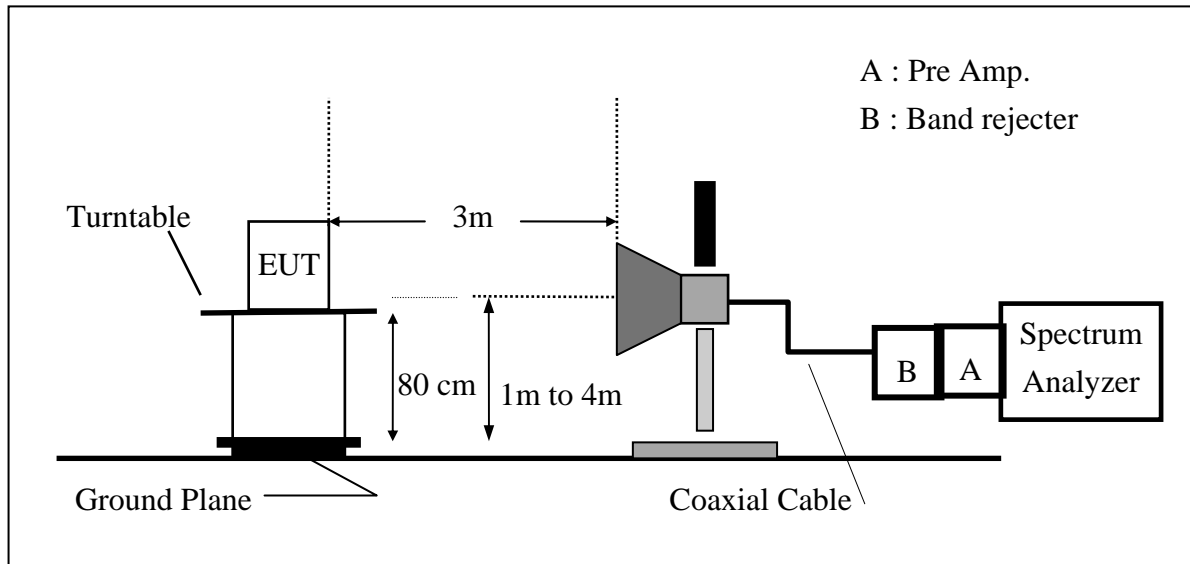
Radiated Emission Test Set-Up, Frequency Below 1000MHz



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Radiated Emission Test Set-UP Frequency Over 1 GHz



11.3. Measurement Procedure:

The EUT was placed on a non-conductive; The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

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

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

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

11.5. Measurement Result:

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Band	:HSUPA B2	Test Date	:2011-12-01
ARFCN	:9262	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1852.4 MHZ	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
199.75	S	-70.73	-74.51	6.85	-3.09	-13.00	-57.73
288.99	S	-69.42	-72.90	6.68	-3.22	-13.00	-56.42
368.53	S	-65.71	-69.12	6.81	-3.43	-13.00	-52.71
443.22	S	-79.08	-82.06	6.65	-3.70	-13.00	-66.08
805.03	S	-76.59	-78.52	6.06	-4.20	-13.00	-63.59
3704.80	H	-50.54	-51.07	7.40	-6.98	-13.00	-37.54
5557.20	---						
7409.60	---						
9262.00	---						
11114.40	---						
12966.80	---						
14819.20	---						
16671.60	---						
18524.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Band	:HSUPA B2	Test Date	:2011-12-01
ARFCN	:9262	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1852.4 MHZ	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
35.82	S	-73.95	-59.88	-11.62	-2.47	-13.00	-60.95
127.00	S	-76.33	-74.81	1.25	-2.77	-13.00	-63.33
288.02	S	-69.77	-73.24	6.67	-3.22	-13.00	-56.77
375.32	S	-71.35	-74.71	6.76	-3.43	-13.00	-58.35
440.31	S	-75.65	-78.64	6.66	-3.70	-13.00	-62.65
623.64	S	-76.72	-79.02	6.22	-3.97	-13.00	-63.72
3704.80	H	-53.89	-53.91	6.90	-6.98	-13.00	-40.89
5557.20	---						
7409.60	---						
9262.00	---						
11114.40	---						
12966.80	---						
14819.20	---						
16671.60	---						
18524.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Band	:HSUPA B2	Test Date	:2011-12-01
ARFCN	:9400	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1880.0 MHZ	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
35.82	S	-73.65	-59.59	-11.62	-2.47	-13.00	-60.65
64.92	S	-72.32	-64.89	-4.87	-2.59	-13.00	-59.32
288.02	S	-70.58	-74.04	6.67	-3.22	-13.00	-57.58
375.32	S	-70.47	-73.83	6.76	-3.43	-13.00	-57.47
441.28	S	-76.62	-79.61	6.66	-3.70	-13.00	-63.62
625.58	S	-76.74	-79.05	6.23	-3.97	-13.00	-63.74
3760.00	H	-49.81	-50.41	7.42	-7.12	-13.00	-36.81
5640.00	H	-45.98	-46.87	9.01	-8.26	-13.00	-32.98
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Band	:HSUPA B2	Test Date	:2011-12-01
ARFCN	:9400	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1880.0 MHZ	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
144.46	S	-80.55	-78.68	0.91	-2.79	-13.00	-67.55
217.21	S	-77.42	-81.28	6.99	-3.14	-13.00	-64.42
290.93	S	-69.29	-72.75	6.71	-3.25	-13.00	-56.29
374.35	S	-65.61	-68.98	6.76	-3.43	-13.00	-52.61
446.13	S	-77.75	-80.72	6.64	-3.70	-13.00	-64.75
538.28	S	-79.67	-82.71	6.76	-3.77	-13.00	-66.67
3760.00	H	-53.44	-53.47	6.85	-7.12	-13.00	-40.44
5640.00	---						
7520.00	---						
9400.00	---						
11280.00	---						
13160.00	---						
15040.00	---						
16920.00	---						
18800.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Band	:HSUPA B2	Test Date	:2011-12-01
ARFCN	:9538	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1907.6MHZ	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
35.82	S	-73.93	-59.87	-11.62	-2.47	-13.00	-60.93
284.14	S	-69.66	-73.08	6.62	-3.22	-13.00	-56.66
375.32	S	-70.72	-74.08	6.76	-3.43	-13.00	-57.72
443.22	S	-76.40	-79.38	6.65	-3.70	-13.00	-63.40
636.25	S	-76.33	-78.65	6.25	-3.98	-13.00	-63.33
707.06	S	-76.46	-78.75	6.21	-3.98	-13.00	-63.46
3815.20	H	-50.29	-50.81	7.50	-7.20	-13.00	-37.29
5722.80	H	-43.76	-44.52	9.02	-8.44	-13.00	-30.76
7630.40	---						
9538.00	---						
11445.60	---						
13353.20	---						
15260.80	---						
17168.40	---						
19076.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band II Mode

Operation Band	:HSUPA B2	Test Date	:2011-12-01
ARFCN	:9538	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1907.6MHZ	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
143.49	S	-79.60	-77.71	0.89	-2.79	-13.00	-66.60
215.27	S	-77.67	-81.51	6.98	-3.14	-13.00	-64.67
287.05	S	-68.47	-71.92	6.66	-3.22	-13.00	-55.47
370.47	S	-66.18	-69.57	6.79	-3.43	-13.00	-53.18
444.19	S	-78.64	-81.61	6.65	-3.70	-13.00	-65.64
622.67	S	-79.27	-81.57	6.22	-3.97	-13.00	-66.27
3815.20	---						
5722.80	H	-47.84	-47.90	8.33	-8.49	-13.00	-34.84
7630.40	---						
9538.00	---						
11445.60	---						
13353.20	---						
15260.80	---						
17168.40	---						
19076.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Band	:WCDMA B4	Test Date	:2011-12-12
ARFCN	:1312	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1712.4 MHZ	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
39.70	S	-83.27	-69.25	-11.30	-2.73	-13.00	-70.27
201.69	S	-79.89	-83.65	6.89	-3.14	-13.00	-66.89
246.31	S	-76.05	-79.49	6.64	-3.23	-13.00	-63.05
359.80	S	-72.45	-75.92	6.87	-3.43	-13.00	-59.45
519.85	S	-78.55	-81.67	6.81	-3.74	-13.00	-65.55
842.86	S	-75.22	-77.23	6.16	-4.24	-13.00	-62.22
3424.80	H	-42.91	-43.56	7.20	-6.89	-13.00	-29.91
5137.20	---						
6849.60	---						
8562.00	---						
10274.40	---						
11986.80	---						
13699.20	---						
15411.60	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Band	:WCDMA B4	Test Date	:2011-12-12
ARFCN	:1312	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1712.4 MHZ	Engineer	:Marcus
Operation Mode	:TX LOW		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
67.83	S	-85.69	-78.98	-4.15	-2.59	-13.00	-72.69
247.28	S	-75.77	-79.22	6.66	-3.23	-13.00	-62.77
322.94	S	-76.73	-80.15	6.77	-3.39	-13.00	-63.73
396.66	S	-75.61	-79.00	6.91	-3.56	-13.00	-62.61
625.58	S	-80.47	-82.78	6.23	-3.97	-13.00	-67.47
847.71	S	-76.90	-78.84	6.17	-4.33	-13.00	-63.90
3424.80	H	-44.32	-44.91	7.15	-6.89	-13.00	-31.32
5137.20	---						
6849.60	---						
8562.00	---						
10274.40	---						
11986.80	---						
13699.20	---						
15411.60	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Band	:WCDMA B4	Test Date	:2011-12-01
ARFCN	:1413	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1732.6 MHZ	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
36.79	S	-82.05	-68.07	-11.54	-2.47	-13.00	-69.05
143.49	S	-80.91	-79.02	0.89	-2.79	-13.00	-67.91
246.31	S	-76.05	-79.49	6.64	-3.23	-13.00	-63.05
283.17	S	-76.58	-79.99	6.61	-3.22	-13.00	-63.58
364.65	S	-77.64	-81.07	6.83	-3.43	-13.00	-64.64
519.85	S	-78.55	-81.67	6.81	-3.74	-13.00	-65.55
3464.80	H	-39.12	-39.66	7.31	-6.99	-13.00	-26.12
5197.20	---						
6929.60	---						
8662.00	---						
10394.40	---						
12126.80	---						
13859.20	---						
15591.60	---						
17324.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Band	:WCDMA B4	Test Date	:2011-12-01
ARFCN	:1413	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1732.6 MHZ	Engineer	:Marcus
Operation Mode	:TX MID		
EUT Pol.	:E2	Pol.	: HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
67.83	S	-85.69	-78.98	-4.15	-2.59	-13.00	-72.69
184.23	S	-79.41	-81.45	5.11	-3.09	-13.00	-66.41
246.31	S	-73.44	-76.87	6.64	-3.23	-13.00	-60.44
316.15	S	-73.13	-76.56	6.79	-3.39	-13.00	-60.13
355.92	S	-72.24	-75.74	6.90	-3.43	-13.00	-59.24
853.53	S	-76.31	-78.23	6.15	-4.33	-13.00	-63.31
3464.80	H	-40.47	-40.94	7.24	-6.99	-13.00	-27.47
5197.20	---						
6929.60	---						
8662.00	---						
10394.40	---						
12126.80	---						
13859.20	---						
15591.60	---						
17324.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Band	:WCDMA B4	Test Date	:2011-12-01
ARFCN	:1513	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1752.6 MHZ	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
38.73	S	-82.16	-68.33	-11.38	-2.47	-13.00	-69.16
143.49	S	-80.91	-79.02	0.89	-2.79	-13.00	-67.91
246.31	S	-76.05	-79.49	6.64	-3.23	-13.00	-63.05
364.65	S	-77.64	-81.07	6.83	-3.43	-13.00	-64.64
612.00	S	-76.75	-79.08	6.20	-3.92	-13.00	-63.75
841.89	S	-76.76	-78.76	6.16	-4.24	-13.00	-63.76
3505.20	H	-35.78	-36.58	7.40	-6.99	-13.00	-22.78
5257.80	---						
7010.40	---						
8763.00	---						
10515.60	---						
12268.20	---						
14020.80	---						
15773.40	---						
17526.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Band	:WCDMA B4	Test Date	:2011-12-01
ARFCN	:1513	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1752.6 MHZ	Engineer	:Marcus
Operation Mode	:TX HIGH		
EUT Pol.	:E2	Pol.	: HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
67.83	S	-85.69	-78.98	-4.15	-2.59	-13.00	-72.69
184.23	S	-79.41	-81.45	5.11	-3.09	-13.00	-66.41
246.31	S	-73.44	-76.87	6.64	-3.23	-13.00	-60.44
357.86	S	-72.16	-75.65	6.88	-3.43	-13.00	-59.16
516.94	S	-80.67	-83.79	6.82	-3.74	-13.00	-67.67
913.67	S	-74.09	-75.55	5.79	-4.42	-13.00	-61.09
3505.20	H	-36.45	-37.14	7.30	-6.99	-13.00	-23.45
5257.80	---						
7010.40	---						
8763.00	---						
10515.60	---						
12268.20	---						
14020.80	---						
15773.40	---						
17526.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Band	: HSUPA B5	Test Date	: 2011-12-01
ARFCN	: 4132	Temp./Humi.	: 27 deg_C / 66 RH
Fundamental Frequency	: 826.4 MHZ	Engineer	: Marcus
Operation Mode	: TX LOW		
EUT Pol.	: E2 PLAN	Pol.	: VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
64.92	S	-74.76	-65.18	-7.02	-2.59	-13.00	-61.76
107.60	S	-75.04	-71.27	-1.05	-2.72	-13.00	-62.04
168.71	S	-73.72	-71.49	0.68	-2.93	-13.00	-60.72
199.75	S	-73.51	-75.18	4.70	-3.09	-13.00	-60.51
287.05	S	-72.07	-73.43	4.51	-3.22	-13.00	-59.07
360.77	S	-72.15	-73.54	4.71	-3.43	-13.00	-59.15
1652.80	H	-58.88	-56.22	2.38	-5.29	-13.00	-45.88
2479.20	---						
3305.60	---						
4132.00	---						
4958.40	---						
5784.80	---						
6611.20	---						
7437.60	---						
8264.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Band	: HSUPA B5	Test Date	: 2011-12-01
ARFCN	: 4132	Temp./Humi.	: 27 deg_C / 66 RH
Fundamental Frequency	: 826.4 MHZ	Engineer	: Marcus
Operation Mode	: TX LOW		
EUT Pol.	: E2 PLAN	Pol.	: HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
143.49	S	-81.91	-77.88	-1.26	-2.79	-13.00	-68.91
219.15	S	-79.65	-81.37	4.85	-3.17	-13.00	-66.65
288.02	S	-70.80	-72.17	4.52	-3.22	-13.00	-57.80
367.56	S	-66.20	-67.54	4.66	-3.43	-13.00	-53.20
691.54	S	-79.57	-80.50	4.15	-4.07	-13.00	-66.57
824.43	S	-71.97	-72.84	3.96	-4.22	38.40	-110.37
1652.80	H	-60.44	-58.07	2.67	-5.29	-13.00	-47.44
2479.20	---						
3305.60	---						
4132.00	---						
4958.40	---						
5784.80	---						
6611.20	---						
7437.60	---						
8264.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Band	: HSUPA B5	Test Date	: 2011-12-01
ARFCN	: 4183	Temp./Humi.	: 27 deg_C / 66 RH
Fundamental Frequency	: 836.6 MHZ	Engineer	: Marcus
Operation Mode	: TX MID		
EUT Pol.	: E2 PLAN	Pol.	: VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
35.82	S	-76.72	-60.50	-13.77	-2.47	-13.00	-63.72
126.03	S	-78.72	-74.99	-0.97	-2.77	-13.00	-65.72
286.08	S	-71.51	-72.85	4.50	-3.22	-13.00	-58.51
371.44	S	-72.88	-74.18	4.63	-3.43	-13.00	-59.88
440.31	S	-78.41	-79.33	4.51	-3.70	-13.00	-65.41
839.95	S	-75.71	-76.61	4.00	-4.24	38.40	-114.11
1673.20	H	-57.31	-54.64	2.35	-5.29	-13.00	-44.31
2509.80	---						
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Band	: HSUPA B5	Test Date	: 2011-12-01
ARFCN	: 4183	Temp./Humi.	: 27 deg_C / 66 RH
Fundamental Frequency	: 836.6 MHZ	Engineer	: Marcus
Operation Mode	: TX MID		
EUT Pol.	: E2 PLAN	Pol.	: HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
143.49	S	-81.90	-77.86	-1.26	-2.79	-13.00	-68.90
217.21	S	-79.05	-80.80	4.84	-3.14	-13.00	-66.05
289.96	S	-70.62	-72.01	4.55	-3.22	-13.00	-57.62
361.74	S	-67.36	-68.73	4.70	-3.43	-13.00	-54.36
445.16	S	-79.58	-80.49	4.49	-3.70	-13.00	-66.58
625.58	S	-79.93	-80.40	4.08	-3.97	-13.00	-66.93
1673.20	H	-59.88	-57.53	2.66	-5.29	-13.00	-46.88
2509.80	---						
3346.40	---						
4183.00	---						
5019.60	---						
5856.20	---						
6692.80	---						
7529.40	---						
8366.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Band	: HSUPA B5	Test Date	: 2011-12-01
ARFCN	: 4233	Temp./Humi.	: 27 deg_C / 66 RH
Fundamental Frequency	: 846.6 MHZ	Engineer	: Marcus
Operation Mode	: TX HIGH		
EUT Pol.	: E2 PLAN	Pol.	: VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
35.82	S	-75.59	-59.37	-13.77	-2.47	-13.00	-62.59
123.12	S	-77.01	-73.09	-1.16	-2.77	-13.00	-64.01
184.23	S	-70.37	-70.27	2.96	-3.09	-13.00	-57.37
288.02	S	-72.21	-73.58	4.52	-3.22	-13.00	-59.21
373.38	S	-72.44	-73.72	4.62	-3.43	-13.00	-59.44
442.25	S	-79.70	-80.63	4.50	-3.70	-13.00	-66.70
1693.20	H	-57.45	-54.69	2.30	-5.34	-13.00	-44.45
2539.80	---						
3386.40	---						
4233.00	---						
5079.60	---						
5926.20	---						
6772.80	---						
7619.40	---						
8466.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: HSUPA Band V Mode

Operation Band	: HSUPA B5	Test Date	: 2011-12-01
ARFCN	: 4233	Temp./Humi.	: 27 deg_C / 66 RH
Fundamental Frequency	: 846.6 MHZ	Engineer	: Marcus
Operation Mode	: TX HIGH		
EUT Pol.	: E2 PLAN	Pol.	: HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
144.46	S	-82.60	-78.59	-1.24	-2.79	-13.00	-69.60
217.21	S	-80.08	-81.83	4.84	-3.14	-13.00	-67.08
287.05	S	-70.43	-71.78	4.51	-3.22	-13.00	-57.43
373.38	S	-67.78	-69.07	4.62	-3.43	-13.00	-54.78
446.13	S	-80.90	-81.81	4.49	-3.70	-13.00	-67.90
847.71	S	-75.07	-75.91	4.02	-4.33	38.40	-113.47
1693.20	H	-56.30	-53.81	2.65	-5.40	-13.00	-43.30
2539.80	---						
3386.40	---						
4233.00	---						
5079.60	---						
5926.20	---						
6772.80	---						
7619.40	---						
8466.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4

Operation Band	:BAND 4 16 QAM 1.4BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :1 0	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1710.7 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 19957		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
110.51	S	-78.37	-6.98	1.06	-2.72	-13.00	-65.37
184.23	S	-73.82	-6.78	5.11	-3.09	-13.00	-60.82
275.41	S	-75.81	-6.51	6.63	-3.22	-13.00	-62.81
369.50	S	-75.25	-6.19	6.80	-3.43	-13.00	-62.25
702.21	S	-75.95	0.41	6.27	-4.07	-13.00	-62.95
939.86	S	-72.26	5.08	5.78	-4.51	-13.00	-59.26
3421.40	H	-46.73	15.83	7.19	-6.89	-13.00	-33.73
5132.10	---						
6842.80	---						
8553.50	---						
10264.20	---						
11974.90	---						
13685.60	---						
15396.30	---						
17107.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4

Operation Band	:BAND 4 16 QAM 1.4BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :1 0	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1710.7 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 19957		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
108.57	S	-82.51	-8.43	1.09	-2.72	-13.00	-69.51
184.23	S	-75.42	-11.06	5.11	-3.09	-13.00	-62.42
275.41	S	-73.75	-10.97	6.63	-3.22	-13.00	-60.75
374.35	S	-69.71	-6.50	6.76	-3.43	-13.00	-56.71
818.61	S	-76.96	0.89	6.10	-4.22	-13.00	-63.96
892.33	S	-75.43	1.78	5.86	-4.34	-13.00	-62.43
3421.40	H	-46.74	14.68	7.14	-6.89	-13.00	-33.74
5132.10	---						
6842.80	---						
8553.50	---						
10264.20	---						
11974.90	---						
13685.60	---						
15396.30	---						
17107.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4

Operation Band	:BAND 4 16 QAM 1.4BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :1 0	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1732.5 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 20175		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
106.63	S	-79.47	-6.98	1.11	-2.72	-13.00	-66.47
143.49	S	-79.73	-3.53	0.89	-2.79	-13.00	-66.73
226.91	S	-73.68	-7.67	6.84	-3.17	-13.00	-60.68
369.50	S	-75.39	-6.19	6.80	-3.43	-13.00	-62.39
800.18	S	-75.55	1.40	6.05	-4.20	-13.00	-62.55
922.40	S	-73.64	4.45	5.79	-4.50	-13.00	-60.64
3465.00	H	-42.88	16.44	7.31	-6.99	-13.00	-29.88
5197.50	---						
6930.00	---						
8662.50	---						
10395.00	---						
12127.50	---						
13860.00	---						
15592.50	---						
17325.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4

Operation Band	:BAND 4 16 QAM 1.4BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :1 0	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1732.5 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 20175		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	EIRP dBm	SG Output Level dBm	Antenna Gain dBi	Cable Loss dB	Limit dBm	Safe Margin dB
107.60	S	-83.67	-8.43	1.10	-2.72	-13.00	-70.67
146.40	S	-81.95	-4.56	0.96	-2.79	-13.00	-68.95
234.67	S	-69.90	-13.17	6.66	-3.17	-13.00	-56.90
375.32	S	-69.84	-6.50	6.76	-3.43	-13.00	-56.84
817.64	S	-76.45	0.89	6.10	-4.22	-13.00	-63.45
962.17	S	-75.27	3.44	5.87	-4.45	-13.00	-62.27
3465.00	H	-45.15	15.23	7.24	-6.99	-13.00	-32.15
5197.50	---						
6930.00	---						
8662.50	---						
10395.00	---						
12127.50	---						
13860.00	---						
15592.50	---						
17325.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4

Operation Band	:BAND 4 16 QAM 1.4BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :1 0	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1754.3 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 20393		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
109.54	S	-79.60	-6.98	1.08	-2.72	-13.00	-66.60
143.49	S	-79.35	-3.53	0.89	-2.79	-13.00	-66.35
273.47	S	-76.67	-6.51	6.66	-3.22	-13.00	-63.67
369.50	S	-75.45	-6.19	6.80	-3.43	-13.00	-62.45
800.18	S	-75.75	1.40	6.05	-4.20	-13.00	-62.75
967.99	S	-73.48	4.75	5.92	-4.45	-13.00	-60.48
3508.60	H	-38.19	16.27	7.40	-6.99	-13.00	-25.19
5262.90	---						
7017.20	---						
8771.50	---						
10525.80	---						
12280.10	---						
14034.40	---						
15788.70	---						
17543.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 1.4MHz BW LTE-Band 4

Operation Band	:BAND 4 16 QAM 1.4BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :1 0	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:1754.3 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 20393		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	Margin dB
107.60	S	-79.74	-8.43	1.10	-2.72	-13.00	-66.74
199.75	S	-72.67	-11.06	6.85	-3.09	-13.00	-59.67
226.91	S	-65.96	-13.17	6.84	-3.17	-13.00	-52.96
376.29	S	-69.96	-6.50	6.77	-3.43	-13.00	-56.96
809.88	S	-76.38	0.89	6.08	-4.20	-13.00	-63.38
967.02	S	-73.82	3.44	5.91	-4.45	-13.00	-60.82
3508.60	H	-39.74	15.38	7.31	-6.99	-13.00	-26.74
5262.90	---						
7017.20	---						
8771.50	---						
10525.80	---						
12280.10	---						
14034.40	---						
15788.70	---						
17543.00	---						

$EIRP(dBm) = SG\ Level(dBm) + Antenna\ Gain(dBd) + Cable\ Loss(dB)$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17

Operation Band	:BAND 17 16QAM 5BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :12 6	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:706.5 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 23755		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
105.66	S	-90.57	-86.82	-1.04	-2.72	-13.00	-77.57
159.98	S	-86.98	-83.48	-0.57	-2.93	-13.00	-73.98
249.22	S	-85.90	-87.21	4.54	-3.23	-13.00	-72.90
462.62	S	-83.77	-84.58	4.53	-3.72	-13.00	-70.77
587.75	S	-78.87	-79.13	4.16	-3.90	-13.00	-65.87
961.20	S	-75.40	-74.66	3.71	-4.45	-13.00	-62.40
1413.00	H	-61.95	-58.88	2.07	-5.14	-13.00	-48.95
2119.50	---						
2826.00	---						
3532.50	---						
4239.00	---						
4945.50	---						
5652.00	---						
6358.50	---						
7065.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17

Operation Band	:BAND 17 16QAM 5BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :12 6	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:706.5 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 23755		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
115.36	S	-90.33	-86.33	-1.23	-2.77	-13.00	-77.33
158.04	S	-87.56	-83.95	-0.67	-2.93	-13.00	-74.56
249.22	S	-85.92	-87.23	4.54	-3.23	-13.00	-72.92
463.59	S	-83.22	-84.03	4.54	-3.72	-13.00	-70.22
597.45	S	-79.33	-79.47	4.06	-3.92	-13.00	-66.33
962.17	S	-75.02	-74.29	3.72	-4.45	-13.00	-62.02
1413.00	H	-64.30	-61.22	2.07	-5.14	-13.00	-51.30
2119.50	---						
2826.00	---						
3532.50	---						
4239.00	---						
4945.50	---						
5652.00	---						
6358.50	---						
7065.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17

Operation Band	:BAND 17 16QAM 5BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :12 6	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:710.0 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 23790		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
88.20	S	-90.14	-86.19	-1.29	-2.67	-13.00	-77.14
146.40	S	-87.09	-83.12	-1.19	-2.79	-13.00	-74.09
272.50	S	-85.54	-86.80	4.52	-3.27	-13.00	-72.54
376.29	S	-84.66	-85.85	4.62	-3.43	-13.00	-71.66
575.14	S	-80.90	-81.32	4.30	-3.87	-13.00	-67.90
939.86	S	-74.99	-74.11	3.63	-4.51	-13.00	-61.99
1420.00	H	-62.26	-59.24	2.12	-5.14	-13.00	-49.26
2130.00	---						
2840.00	---						
3550.00	---						
4260.00	---						
4970.00	---						
5680.00	---						
6390.00	---						
7100.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17

Operation Band	:BAND 17 16QAM 5BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :12 6	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:710.0 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 23790		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq. MHz	Note F/H/E/S	ERP dBm	SG Output Level dBm	Antenna Gain dBd	Cable Loss dB	Limit dBm	Safe Margin dB
101.78	S	-89.72	-86.00	-1.00	-2.72	-13.00	-76.72
159.98	S	-86.85	-83.35	-0.57	-2.93	-13.00	-73.85
256.01	S	-85.46	-86.83	4.64	-3.27	-13.00	-72.46
466.50	S	-84.01	-84.84	4.55	-3.72	-13.00	-71.01
621.70	S	-79.01	-79.11	4.07	-3.97	-13.00	-66.01
995.15	S	-74.68	-74.16	3.97	-4.49	-13.00	-61.68
1420.00	H	-63.67	-60.65	2.12	-5.14	-13.00	-50.67
2130.00	---						
2840.00	---						
3550.00	---						
4260.00	---						
4970.00	---						
5680.00	---						
6390.00	---						
7100.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17

Operation Band	:BAND 17 16QAM 5BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :12 6	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:713.5 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 23825		
EUT Pol.	:E2	Pol.	:VERTICAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
107.60	S	-89.43	-85.67	-1.05	-2.72	-13.00	-76.43
160.95	S	-86.48	-83.12	-0.43	-2.93	-13.00	-73.48
268.62	S	-84.90	-86.21	4.58	-3.27	-13.00	-71.90
470.38	S	-83.61	-84.47	4.57	-3.70	-13.00	-70.61
624.61	S	-79.18	-79.28	4.08	-3.97	-13.00	-66.18
937.92	S	-75.84	-74.96	3.63	-4.51	-13.00	-62.84
1427.00	H	-63.44	-60.53	2.18	-5.09	-13.00	-50.44
2140.50	---						
2854.00	---						
3567.50	---						
4281.00	---						
4994.50	---						
5708.00	---						
6421.50	---						
7135.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---“ : denotes Noise Floor.

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Radiated Spurious Emission Measurement Result: 5MHz BW LTE-Band 17

Operation Band	:BAND 17 16QAM 5BW	Test Date	:2011-12-09
ARFCN	:RB SIZE / RB OFFSET :12 6	Temp./Humi.	:27 deg_C / 66 RH
Fundamental Frequency	:713.5 MHZ	Engineer	:Marcus
Operation Mode	:TX CH 23825		
EUT Pol.	:E2	Pol.	:HORIZONTAL

Freq.	Note	ERP	SG	Antenna	Cable	Limit	Safe
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	Margin dB
108.57	S	-90.14	-86.36	-1.06	-2.72	-13.00	-77.14
163.86	S	-86.57	-83.63	-0.01	-2.93	-13.00	-73.57
228.85	S	-85.43	-86.90	4.65	-3.17	-13.00	-72.43
462.62	S	-84.22	-85.03	4.53	-3.72	-13.00	-71.22
611.03	S	-78.82	-78.94	4.05	-3.92	-13.00	-65.82
981.57	S	-74.94	-74.32	3.87	-4.49	-13.00	-61.94
1427.00	H	-63.67	-60.76	2.18	-5.09	-13.00	-50.67
2140.50	---						
2854.00	---						
3567.50	---						
4281.00	---						
4994.50	---						
5708.00	---						
6421.50	---						
7135.00	---						

ERP(dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

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12. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(a) (1)

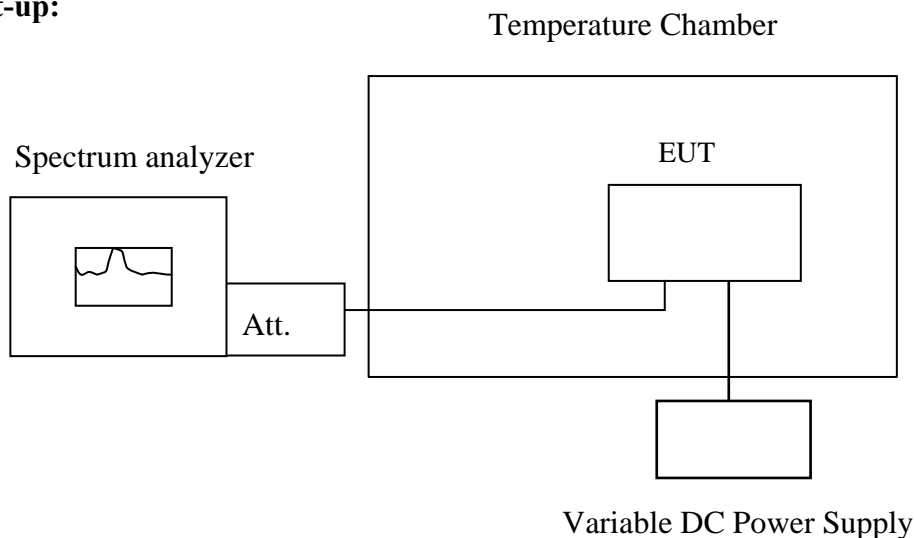
Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

12.2. Test Set-up:



Note : Measurement setup for testing on Antenna connector

12.3. Measurement Procedure:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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12.5. Measurement Result:

Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-30	1879.999997	6.00	4700
3.6	-20	1879.999999	4.00	4700
3.6	-10	1880.000004	-1.00	4700
3.6	0	1880.000009	-6.00	4700
3.6	10	1880.000006	-3.00	4700
3.6	20	1880.000003	0.00	4700
3.6	30	1880.000008	-5.00	4700
3.6	40	1879.999993	10.00	4700
3.6	50	1879.999996	7.00	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6(ARFCN1413) MHz @ 25°C				
Limit: +/- 2.5 ppm = 4331 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-30	1732.599996	8.00	4331
3.6	-20	1732.599998	6.00	4331
3.6	-10	1732.599994	10.00	4331
3.6	0	1732.599997	7.00	4331
3.6	10	1732.600008	-4.00	4331
3.6	20	1732.600004	0.00	4331
3.6	30	1732.600007	-3.00	4331
3.6	40	1732.600009	-5.00	4331
3.6	50	1732.600012	-8.00	4331

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Reference Frequency: WCDMA V Mid Channel 836.6 MHz (ARFCN4183)				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-30	836.599999	3.00	2091
3.6	-20	836.599994	8.00	2091
3.6	-10	836.599998	4.00	2091
3.6	0	836.600004	-2.00	2091
3.6	10	836.600006	-4.00	2091
3.6	20	836.600002	0.00	2091
3.6	30	836.600008	-6.00	2091
3.6	40	836.599992	10.00	2091
3.6	50	836.599988	14.00	2091

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 1.4M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	1732.500006	-2.00	4331
3.6	-10	1732.500003	1.00	4331
3.6	0	1732.500004	0.00	4331
3.6	10	1732.500002	2.00	4331
3.6	20	1732.500004	0.00	4331
3.6	30	1732.500005	-1.00	4331
3.6	40	1732.500002	2.00	4331
3.6	50	1732.500021	-17.00	4331
3.6	60	1732.500039	-35.00	4332

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 1.4M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	1732.500005	-7.00	4331
3.6	-10	1732.500003	-5.00	4331
3.6	0	1732.500004	-6.00	4331
3.6	10	1732.499997	1.00	4331
3.6	20	1732.499998	0.00	4331
3.6	30	1732.499995	3.00	4331
3.6	40	1732.499990	8.00	4331
3.6	50	1732.499981	17.00	4331
3.6	60	1732.499965	33.00	4332

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 3M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	1732.500003	2.00	4331
3.6	-10	1732.500005	0.00	4331
3.6	0	1732.500004	1.00	4331
3.6	10	1732.500003	2.00	4331
3.6	20	1732.500005	0.00	4331
3.6	30	1732.500007	-2.00	4331
3.6	40	1732.500005	0.00	4331
3.6	50	1732.500018	-13.00	4331
3.6	60	1732.500028	-23.00	4332

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 3M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	1732.499995	1.00	4331
3.6	-10	1732.499994	2.00	4331
3.6	0	1732.499996	0.00	4331
3.6	10	1732.499998	-2.00	4331
3.6	20	1732.499996	0.00	4331
3.6	30	1732.499997	-1.00	4331
3.6	40	1732.499990	6.00	4331
3.6	50	1732.500015	-19.00	4331
3.6	60	1732.500036	-40.00	4332

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 5M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	1732.500040	-37.00	4331
3.6	-10	1732.500003	0.00	4331
3.6	0	1732.499998	5.00	4331
3.6	10	1732.499999	4.00	4331
3.6	20	1732.500003	0.00	4331
3.6	30	1732.500004	-1.00	4331
3.6	40	1732.500009	-6.00	4331
3.6	50	1732.499987	16.00	4331
3.6	60	1732.499975	28.00	4332

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 5M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	1732.499996	-1.00	4331
3.6	-10	1732.499997	-2.00	4331
3.6	0	1732.500003	-8.00	4331
3.6	10	1732.500001	-6.00	4331
3.6	20	1732.499995	0.00	4331
3.6	30	1732.499994	1.00	4331
3.6	40	1732.499997	-2.00	4331
3.6	50	1732.499980	15.00	4331
3.6	60	1732.499963	32.00	4332

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 10M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	1732.500005	-3.00	4331
3.6	-10	1732.500004	-2.00	4331
3.6	0	1732.500002	0.00	4331
3.6	10	1732.500003	-1.00	4331
3.6	20	1732.500002	0.00	4331
3.6	30	1732.500003	-1.00	4331
3.6	40	1732.500004	-2.00	4331
3.6	50	1732.500011	-9.00	4331
3.6	60	1732.500037	-35.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz 10M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	1732.500008	-5.00	4331
3.6	-10	1732.500006	-3.00	4331
3.6	0	1732.499997	6.00	4331
3.6	10	1732.500002	1.00	4331
3.6	20	1732.500003	0.00	4331
3.6	30	1732.500005	-2.00	4331
3.6	40	1732.500007	-4.00	4331
3.6	50	1732.500016	-13.00	4331
3.6	60	1732.500025	-22.00	4332

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Reference Frequency: LTE B17 Mid Channel 710 MHz @ 5M QPSK CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	710.000003	1.00	1775
3.6	-10	710.000004	0.00	1775
3.6	0	710.000001	3.00	1775
3.6	10	710.000002	2.00	1775
3.6	20	710.000004	0.00	1775
3.6	30	710.000003	1.00	1775
3.6	40	710.000005	-1.00	1775
3.6	50	710.000008	-4.00	1775
3.6	60	710.000018	-14.00	1775

Reference Frequency: LTE B17 Mid Channel 710 MHz 5M 16QAM CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	709.999997	6.00	1775
3.6	-10	709.999998	5.00	1775
3.6	0	709.999997	6.00	1775
3.6	10	709.999999	4.00	1775
3.6	20	710.000003	0.00	1775
3.6	30	710.000003	0.00	1775
3.6	40	710.000006	-3.00	1775
3.6	50	710.000010	-7.00	1775
3.6	60	710.000021	-18.00	1776

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Reference Frequency: LTE B17 Mid Channel 710 MHz 10M QPSK CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	710.000004	-5.00	1775
3.6	-10	710.000001	-2.00	1775
3.6	0	709.999999	0.00	1775
3.6	10	710.000001	-2.00	1775
3.6	20	709.999999	0.00	1775
3.6	30	710.000002	-3.00	1775
3.6	40	710.000004	-5.00	1775
3.6	50	710.000003	-4.00	1775
3.6	60	710.000020	-21.00	1775

Reference Frequency: LTE B17 Mid Channel 710 MHz 10M 16QAM CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	-20	710.000003	-6.00	1775
3.6	-10	709.999998	-1.00	1775
3.6	0	710.000000	-3.00	1775
3.6	10	709.999999	-2.00	1775
3.6	20	709.999997	0.00	1775
3.6	30	709.999996	1.00	1775
3.6	40	709.999998	-1.00	1775
3.6	50	709.999996	1.00	1775
3.6	60	709.999981	16.00	1775

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13. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

13.1. Standard Applicable:

According to FCC §2.1055(a) (1)

Frequency Tolerance: +/-2.5ppm for 850MHz band

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

+/-2.5ppm for 700MHz band

13.2. Test Set-up:

Refer to section 10.2 in this report

13.3. Measurement Procedure:

Set chamber temperature to 25°C . Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

13.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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13.5. Measurement Result:

Reference Frequency: WCDMA II Mid Channel 1880 (ARFCN9400) MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25	1880.0000060	-3.00	4700
3.6	25	1880.0000030	0.00	4700
3.3	25	1880.0000160	-13.00	4700
2.9 (Endpoint)	25	1879.9999820	21.00	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz(ARFCN1413) @ 25°C				
Limit: +/- 2.5 ppm = 4331 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25	1732.6000020	2.00	4331
3.6	25	1732.6000040	0.00	4331
3.3	25	1732.5999960	8.00	4331
2.9 (Endpoint)	25	1732.6000580	-54.00	4331

Reference Frequency: WCDMA V Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25.00	836.6000080	-6.00	2091.00
3.6	25.00	836.6000020	0.00	2091.00
3.3	25.00	836.5999960	6.00	2091.00
2.9 (Endpoint)	25.00	836.6000030	-1.00	2091.00

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz @ 25°C 1.4M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25.00	1732.500004	0.00	4331
4.0	25.00	1732.500001	3.00	4331
3.3	25.00	1732.500007	-3.00	4331
2.8 (End Point)	25.00	1732.500070	-66.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz @ 25°C 1.4M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25	1732.499998	0.00	4331
4.0	25	1732.500003	-5.00	4331
3.3	25	1732.499997	1.00	4331
2.8 (End Point)	25	1732.499960	38.00	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz @ 25°C 3M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25.00	1732.499995	0.00	4331
4.0	25.00	1732.499998	-3.00	4331
3.3	25.00	1732.499996	-1.00	4331
2.8 (End Point)	25.00	1732.499950	45.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz @ 25°C 3M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25	1732.499996	0.00	4331
4.0	25	1732.499998	-2.00	4331
3.3	25	1732.500004	-8.00	4331
2.8 (End Point)	25	1732.500060	-64.00	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz @ 25°C 5M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25.00	1732.500003	0.00	4331
4.0	25.00	1732.500002	1.00	4331
3.3	25.00	1732.500005	-2.00	4331
2.8 (End Point)	25.00	1732.500090	-87.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz @ 25°C 5M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25.00	1732.499995	0.00	4331
4.0	25.00	1732.500002	-7.00	4331
3.3	25.00	1732.499999	-4.00	4331
2.8 (End Point)	25.00	1732.499970	25.00	4331

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Reference Frequency: LTE B4 Mid Channel 1732.5 MHz @ 25°C 10M QPSK CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25.00	1732.500002	0.00	4331
4.0	25.00	1732.500005	-3.00	4331
3.3	25.00	1732.500003	-1.00	4331
2.8 (End Point)	25.00	1732.500060	-58.00	4331

Reference Frequency: LTE B4 Mid Channel 1732.5 MHz @ 25°C 10M 16QAM CH 20175				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25	1732.500003	0.00	4331
4.0	25	1732.500004	-1.00	4331
3.3	25	1732.500002	1.00	4331
2.8 (End Point)	25	1732.500080	-77.00	4331

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Reference Frequency: LTE B17 Mid Channel 710 MHz @ 25°C 5M QPSK CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25.00	710.000004	0.00	1775
4.0	25.00	710.000002	2.00	1775
3.3	25.00	710.000001	3.00	1775
2.8 (End Point)	25.00	709.999970	34.00	1775

Reference Frequency: LTE B17 Mid Channel 710 MHz @ 25°C 5M 16QAM CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25.00	710.000003	0.00	1775
4.0	25.00	710.000001	2.00	1775
3.3	25.00	710.000002	1.00	1775
2.8 (End Point)	25.00	709.999960	43.00	1775

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Reference Frequency: LTE B17 Mid Channel 710 MHz @ 25°C 10M QPSK CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25.00	709.999999	0.00	1775
4.0	25.00	710.000003	-4.00	1775
3.3	25.00	710.000005	-6.00	1775
2.8 (End Point)	25.00	709.999970	29.00	1775

Reference Frequency: LTE B17 Mid Channel 710 MHz @ 25°C 10M 16QAM CH 23790				
Limit: +/- 2.5 ppm = Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.6	25	709.999997	0.00	1775
4.0	25	710.000001	-4.00	1775
3.3	25	710.000002	-5.00	1775
2.8 (End Point)	25	709.999960	37.00	1775

~ End of Report ~

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