

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO

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

REQUIREMENT

OF

Product Name: Tablet PC

Brand Name: hp

Model No.: HSTNN-I72C

FCC ID: B94HNI72CWR

Report No.: ER/2015/90037

Issue Date: Nov. 09, 2015

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

Prepared for: Hewlett-Packard Company
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94304, United States
SGS Taiwan Ltd.
Electronics & Communication Laboratory

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VERIFICATION OF COMPLIANCE

Applicant: Hewlett-Packard Company
1501 Page Mill Road, M/S1419, Palo Alto, CA, 94304, United States

Product Name: Tablet PC

Brand Name: hp

Model No.: HSTNN-I72C

FCC ID: B94HNI72CWR

File Number: ER/2015/90037

Date of test: Oct. 12, 2015 ~ Nov. 09, 2015

Date of EUT Received: Oct. 12, 2015

We hereby certify that:

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

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

Test By: Nick Lin **Date:** Nov. 09, 2015

Nick Lin / Sr. Engineer

Prepared By: Karen Huang **Date:** Nov. 09, 2015

Karen Huang / Clerk

Approved By: Jim Chang **Date:** Nov. 09, 2015

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
ER/2015/90037	Rev.00	Initial creation of document	Nov. 09, 2015

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Tablet PC	
Brand Name:	hp	
Model No.:	HSTNN-I72C	
Product SW/HW version:	N/A	
Radio SW/HW version:	N/A	
WWAN Module:	Model No.: MU736, Supplier: HUAWEI TECHNOLOGIES Co., Ltd.	
Power Supply:	7.7Vdc form Rechargeable Li-polymer Battery or 100~240V from adapter	
	Battery:	Model No.: HSTNN-DB7F; Supplier: Dynapack
	Adapter:	1. Model No.: TPN-CA01; Supplier: CHICONY 2. Model No.: TPN-CA02; Supplier: CHICONY 3. Model No.: TPN-DA04; Supplier: DELTA

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GPRS / WCDMA:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GPRS 850	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850	824.2 MHz– 848.8 MHz	27dBm
	GPRS 1900	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
Type of Emission:	GPRS 850	243KGXW	
	EDGE 850	248KG7W	
	GPRS 1900	245KGXW	
	EDGE 1900	249KG7W	
	WCDMA Band II	4M06F9W	
	HSDPA Band II	4M05F9W	
	HSUPA Band II	4M04F9W	
	WCDMA Band IV	4M06F9W	
	HSDPA Band IV	4M07F9W	
	HSUPA Band IV	4M06F9W	
	WCDMA Band V	4M07F9W	
	HSDPA Band V	4M04F9W	
	HSUPA Band V	4M05F9W	

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Max ERP/EIRP measurement result:

	dBm		W
GPRS 850 Band	20.87	ERP	0.122
EDGE 850 Band	18.02	ERP	0.063
GPRS 1900 Band	27.81	EIRP	0.604
EDGE 1900 Band	25.00	EIRP	0.316
WCDMA Band II	18.88	EIRP	0.077
HSDPA Band II	22.17	EIRP	0.165
HSUPA Band II	22.10	EIRP	0.162
WCDMA Band IV	17.19	EIRP	0.052
HSDPA Band IV	16.49	EIRP	0.045
HSUPA Band IV	16.42	EIRP	0.044
WCDMA Band V	17.63	ERP	0.058
HSDPA Band V	19.50	ERP	0.089
HSUPA Band V	17.61	ERP	0.058

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Tablet PC supporting, GSM / WCDMA, Wi-Fi 802.11abgn & ac, Bluetooth and GPS features, and below is details of information.

Product Feature	
Product Name:	Tablet PC
Brand Name:	hp
Model No.:	HSTNN-I72C
FCC ID	B94HNI72CWR
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33 / Class 33
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Version	V4.1 dual mode

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

Note: Certified WIFI/BT module FCC ID: PD98260NG.

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1.3. Test Methodology of Applied Standards

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

ANSI / TIA / EIA 603C-C-2004

KDB971168 D01 Power Meas license Digital System v02r01

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

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

Note:

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

1.4. Test Facility

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

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-5

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

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2.4. Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

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

Low Band: Offset = RF cable loss (dB) + attenuation factor (dB) = 0.6(dB)

High Band: Offset = RF cable loss (dB) + attenuation factor (dB) = 0.9(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GPRS 850	7.7	903
GPRS 1900	7.7	826
EDGE 850	7.7	804
EDGE 1900	7.7	796
WCDMA B2	7.7	804
WCDMA B4	7.7	881
WCDMA B5	7.7	796
HSUPA B2	7.7	806
HSUPA B4	7.7	833
HSUPA B5	7.7	726
HSDPA B2	7.7	739
HSDPA B4	7.7	758
HSDPA B5	7.7	751

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2.6. Configuration of Tested System

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

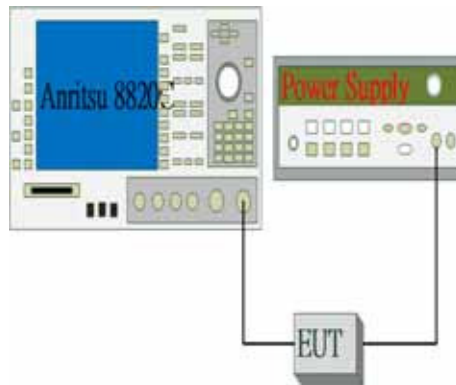


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

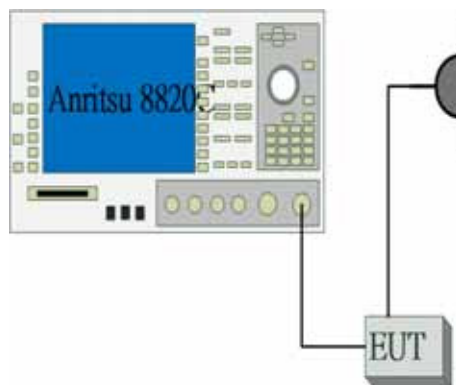


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	8820C	6201107337	shielded	Un-shielded
2.	DC Power Supply	Agilent	E3640A	MY53140006	shielded	Un-shielded
3.	Test Software	DRTU	N/A	N/A	N/A	N/A

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(d)(4)	ERP/ EIRP measurement	Compliant
§2.1049(h)	Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(h)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

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

BAND	ERP/EIRP	RADIATED EMISSION
GPRS/EDGE 850	E2-plan	E2-plan
GPRS/EDGE 1900	E2-plan	E2-plan
WCDMA/HSPA Band II	E2-plan	E2-plan
WCDMA/HSPA Band IV	E2-plan	E2-plan
WCDMA/HSPA Band V	E2-plan	E2-plan

GSM/GPRS/EDGE MODE

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

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WCDMA/HSPA MODE

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

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

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

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

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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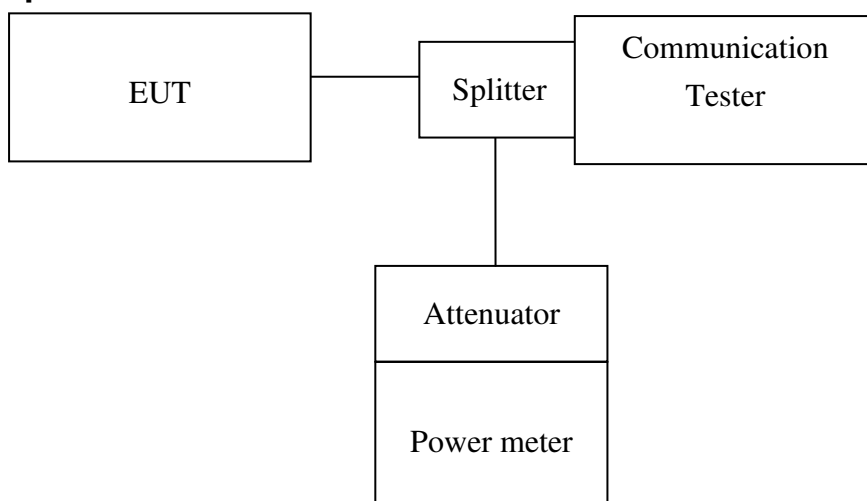
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

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6.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	KR93300208	08/14/2015	08/13/2016

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6.5. Measurement Result

RF Conducted Output Power

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

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.10	32.00	29.40	29.10
	836.6	190	32.10	32.00	29.30	29.10
	848.8	251	32.20	32.00	29.30	29.10
GPRS 1900	1850.2	512	29.70	29.50	26.60	26.40
	1880.0	661	29.80	29.70	26.80	26.50
	1909.8	810	29.40	29.30	26.40	26.20

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 1UP) Class 8 (dBm)	Peak Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)	Peak Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Peak Power (1DN 4UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
EDGE 850	824.2	128	29.40	26.20	26.50	23.30	24.50	21.40	23.50	20.40
	836.6	190	29.40	26.20	26.50	23.30	24.50	21.40	23.40	20.40
	848.8	251	29.40	26.20	26.50	23.30	24.50	21.40	23.60	20.50
EDGE 1900	1850.2	512	28.90	26.00	26.00	23.00	24.00	20.90	23.10	19.90
	1880.0	661	29.00	26.00	26.10	23.10	24.10	21.00	23.10	20.00
	1909.8	810	28.70	25.60	25.90	22.70	23.70	20.60	22.80	19.60

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WCDMA MODE:

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

Results:

EUT Mode		WCDMA Band II		HSDPA Band II		HSUPA Band II	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1852.4	9262	27.17	23.75	26.90	22.69	26.91	22.50
1880.0	9400	27.48	24.00	27.16	23.08	27.15	23.02
1907.6	9538	26.51	23.20	26.42	22.28	26.24	22.15

EUT Mode		WCDMA Band IV		HSDPA Band IV		HSUPA Band IV	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
1712.4	1312	26.96	23.58	26.71	22.60	26.69	22.52
1732.6	1412	26.62	23.37	26.39	22.41	26.45	22.37
1752.6	1513	26.68	23.43	26.47	22.40	26.40	22.35

EUT Mode		WCDMA Band V		HSDPA Band V		HSUPA Band V	
Frequency (MHz)	CH	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)	Peak Power (dBm)	Avg. Power (dBm)
826.4	4132	26.81	23.30	26.86	22.30	26.77	22.21
836.6	4183	26.69	23.17	26.64	22.14	26.51	22.13
846.6	4233	26.42	23.04	26.31	21.93	26.15	21.89

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

Cable loss offset: Low Band: 0.6dB, High Band: 0.9dB

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HSDPA Release 8 MODE:

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

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

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

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

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSDPA (B2)	1	23.92	23.89	23.06	20.3dBm – 25.7dBm	Pass
	2	23.63	23.86	23.05	20.3dBm – 25.7dBm	Pass
	3	23.44	23.44	22.53	19.8dBm – 25.7dBm	Pass
	4	23.51	23.45	22.65	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSDPA (B4)	1	23.29	23.47	23.27	20.3dBm – 25.7dBm	Pass
	2	23.46	23.23	23.28	20.3dBm – 25.7dBm	Pass
	3	22.81	23.02	22.74	19.8dBm – 25.7dBm	Pass
	4	22.88	23.03	22.86	19.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSDPA (B5)	1	23.09	23.03	23.16	20.3dBm – 25.7dBm	Pass
	2	23.23	23.06	22.91	20.3dBm – 25.7dBm	Pass
	3	22.63	22.55	22.67	19.8dBm – 25.7dBm	Pass
	4	22.68	22.59	22.73	19.8dBm – 25.7dBm	Pass

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HSPA (HSDPA & HSUPA) Release 8 MODE

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

HSPA SUB-TEST Setting

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

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

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

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Results:

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		9262	9400	9538		
HSUPA(B2)	1	23.37	23.98	23.14	18.8dBm – 25.7dBm	Pass
	2	21.72	22.05	21.18	16.8dBm – 25.7dBm	Pass
	3	22.73	23.00	22.22	17.8dBm – 25.7dBm	Pass
	4	21.85	22.10	21.22	16.8dBm – 25.7dBm	Pass
	5	23.56	23.84	23.05	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	RMS Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		1312	1413	1513		
HSUPA (B4)	1	23.50	23.35	23.37	18.8dBm – 25.7dBm	Pass
	2	21.55	21.42	21.41	16.8dBm – 25.7dBm	Pass
	3	22.56	22.37	22.45	17.8dBm – 25.7dBm	Pass
	4	21.68	21.47	21.45	16.8dBm – 25.7dBm	Pass
	5	23.39	23.21	23.28	18.8dBm – 25.7dBm	Pass

Mode	Sub-test	Avg. Power (dBm) Channel			Power Class 3 Lim- itation (dBm)	Comments
		4132	4183	4233		
HSUPA(B5)	1	23.26	23.10	22.96	18.8dBm – 25.7dBm	Pass
	2	21.32	21.18	21.00	16.8dBm – 25.7dBm	Pass
	3	22.30	22.16	22.04	17.8dBm – 25.7dBm	Pass
	4	21.37	21.24	21.08	16.8dBm – 25.7dBm	Pass
	5	23.12	22.93	22.85	18.8dBm – 25.7dBm	Pass

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Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	27.6	27.1	24.2	23.5	21.5	19.5	17.5	15.7	13.7

PCL	9	10	11	12	13	14	15
Output power (dBm)	12	9.9	8	5.8	3.9	2	1.5

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 -52.3dBm. The power variation can be 0.1dB step by setting.

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

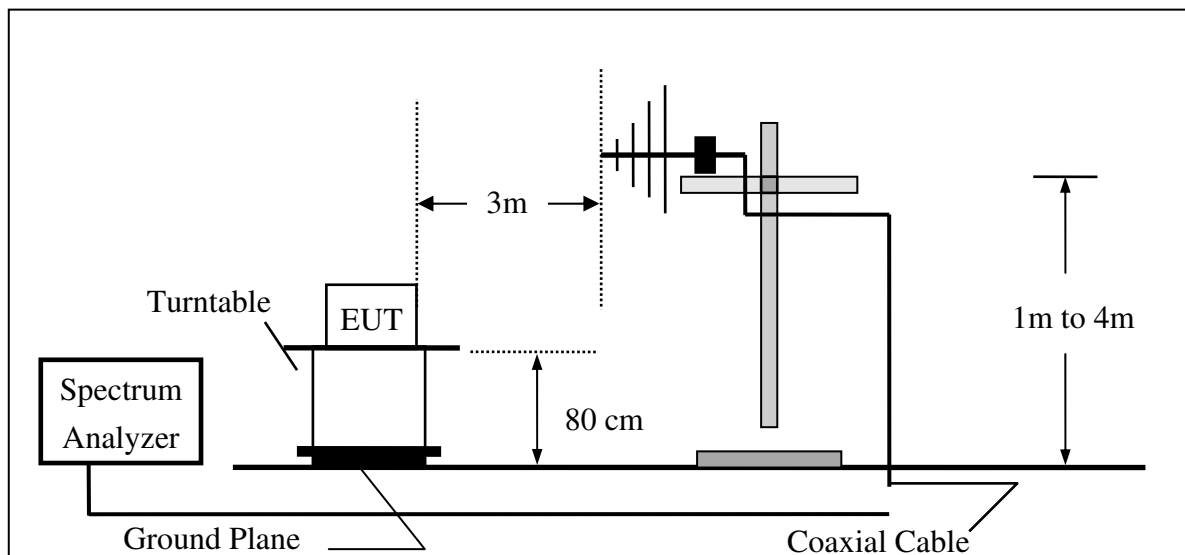
FCC 22.913(a) Mobile station is limited to 7W.

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

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

7.2. Test SET-UP

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



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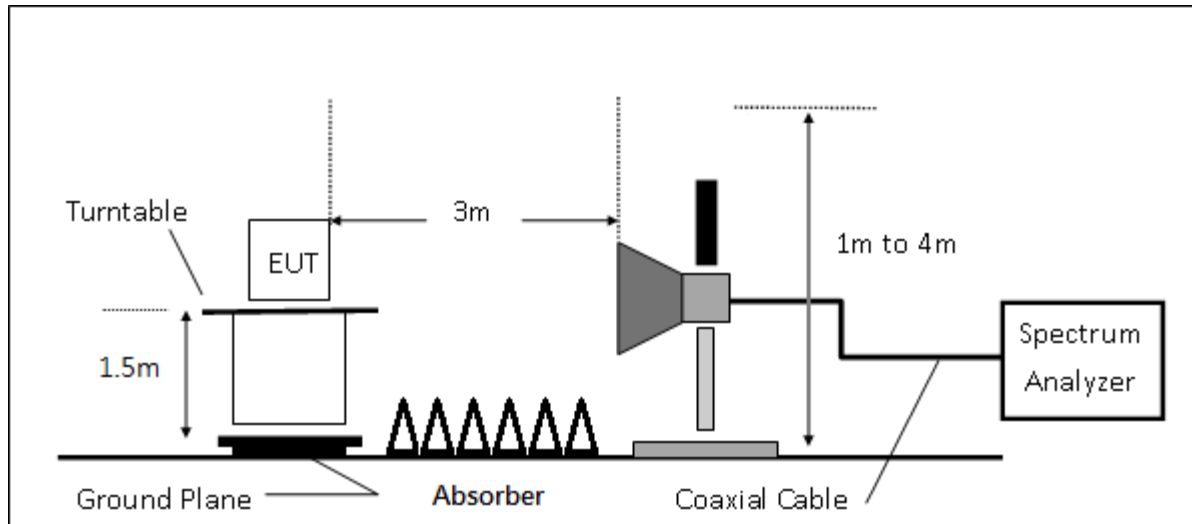
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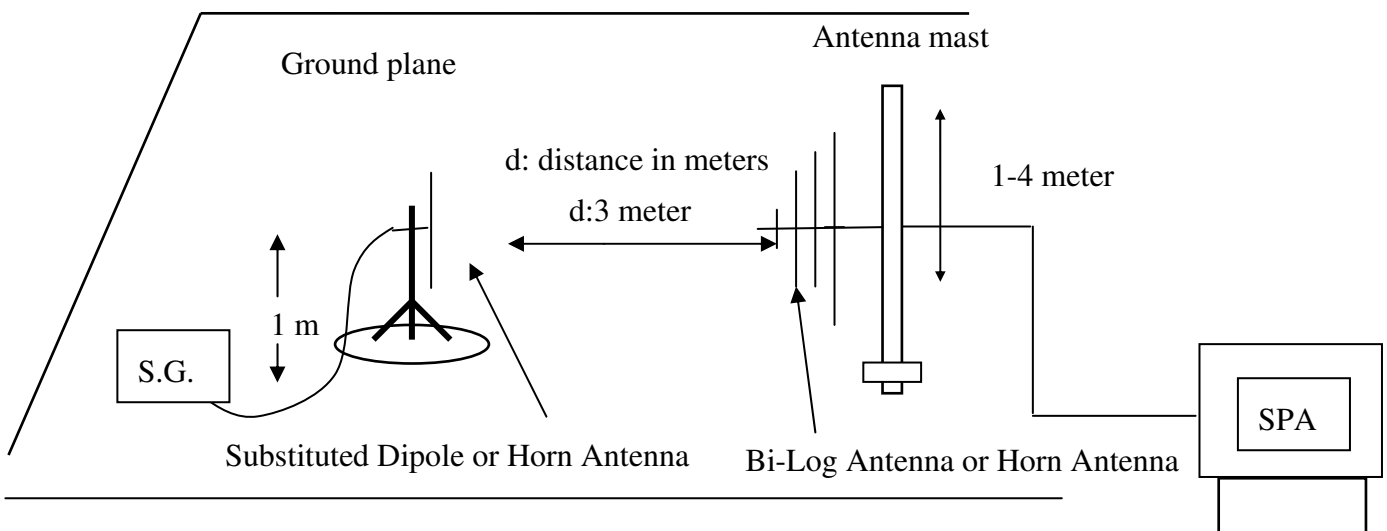
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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7.3. Measurement Procedure

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

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

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

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

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7.4. Measurement Equipment Used

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Spectrum Analyzer	R&S	FSV-30	101398	09/23/2015	09/22/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/26/2015	10/25/2016
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/25/2015	07/24/2016
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	07/31/2015	07/30/2016
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	25/09/2015	24/09/2016
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	060776	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/01/2015	06/30/2016

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

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

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

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

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

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

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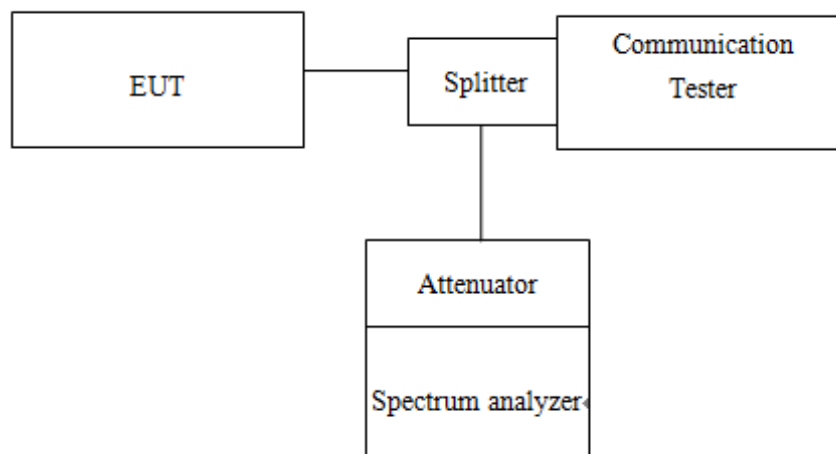
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

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

8.2. Test Set-up



8.3. Measurement Procedure

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

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

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8.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	KR93300208	08/14/2015	08/13/2016

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8.5. Measurement Result

99% Bandwidth

Frequency (MHz)	CH	99% Bandwidth (kHz)	
		GPRS 850	EDGE 850
824.20	128	236.9409	248.1053
836.60	190	243.5271	247.1780
848.80	251	241.4108	248.5412

Frequency (MHz)	CH	99% Bandwidth (kHz)	
		GPRS 1900	EDGE 1900
1850.20	512	242.8298	247.7853
1880.00	661	245.8280	241.2262
1909.80	810	244.0349	249.0009

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Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.0372	4.0448	4.0382
1880.00	9400	4.0503	4.0448	4.0429
1909.80	9538	4.0629	4.0496	4.0375

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	4.0555	4.0515	4.0618
1732.6	1413	4.0453	4.0363	4.0544
1752.6	1513	4.0644	4.0716	4.0503

Frequency (MHz)	CH	99% Bandwidth (MHz)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.0505	4.0399	4.0401
836.60	4183	4.0503	4.0417	4.0375
846.60	4233	4.0689	4.0424	4.0470

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26dB Bandwidth

Frequency (MHz)	CH	26dB Bandwidth (kHz)	
		GPRS 850	EDGE 850
824.20	128	314.468	314.112
836.60	190	313.376	308.348
848.80	251	320.926	315.034

Frequency (MHz)	CH	26dB Bandwidth (kHz)	
		GPRS 1900	EDGE 1900
1850.20	512	315.415	315.281
1880.00	661	324.141	309.213
1909.80	810	314.771	311.704

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Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	4.595	4.580	4.561
1880.00	9400	4.603	4.617	4.577
1909.80	9538	4.601	4.583	4.599

Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	4.617	4.591	4.589
1732.6	1413	4.590	4.602	4.583
1752.6	1513	4.592	4.579	4.591

Frequency (MHz)	CH	26dB Bandwidth (MHz)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.596	4.563	4.581
836.60	4183	4.570	4.605	4.575
846.60	4233	4.569	4.578	4.581

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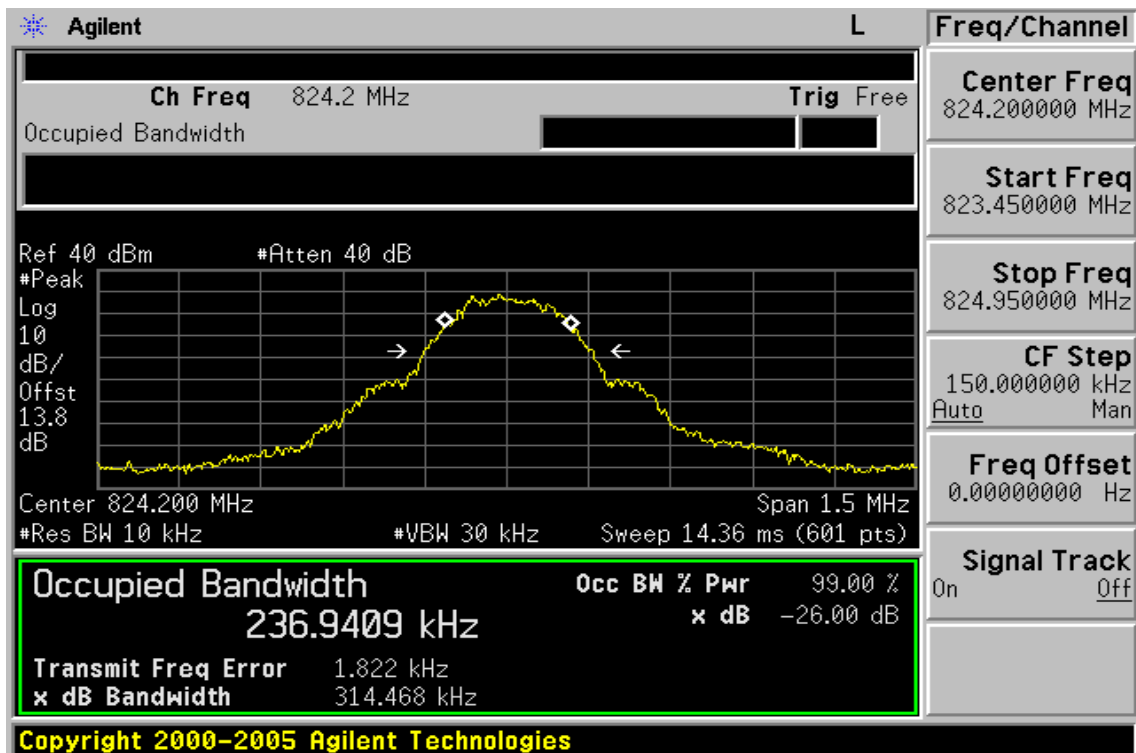
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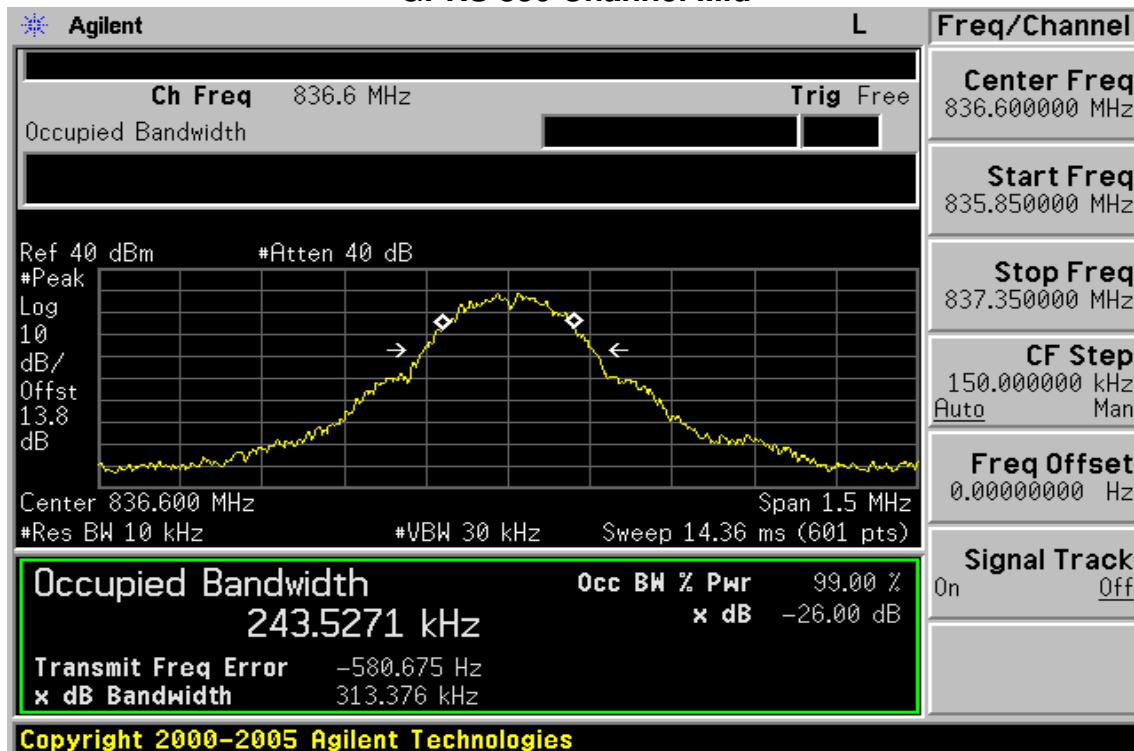
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99% Bandwidth Test Data

GPRS 850 Channel Low



GPRS 850 Channel Mid



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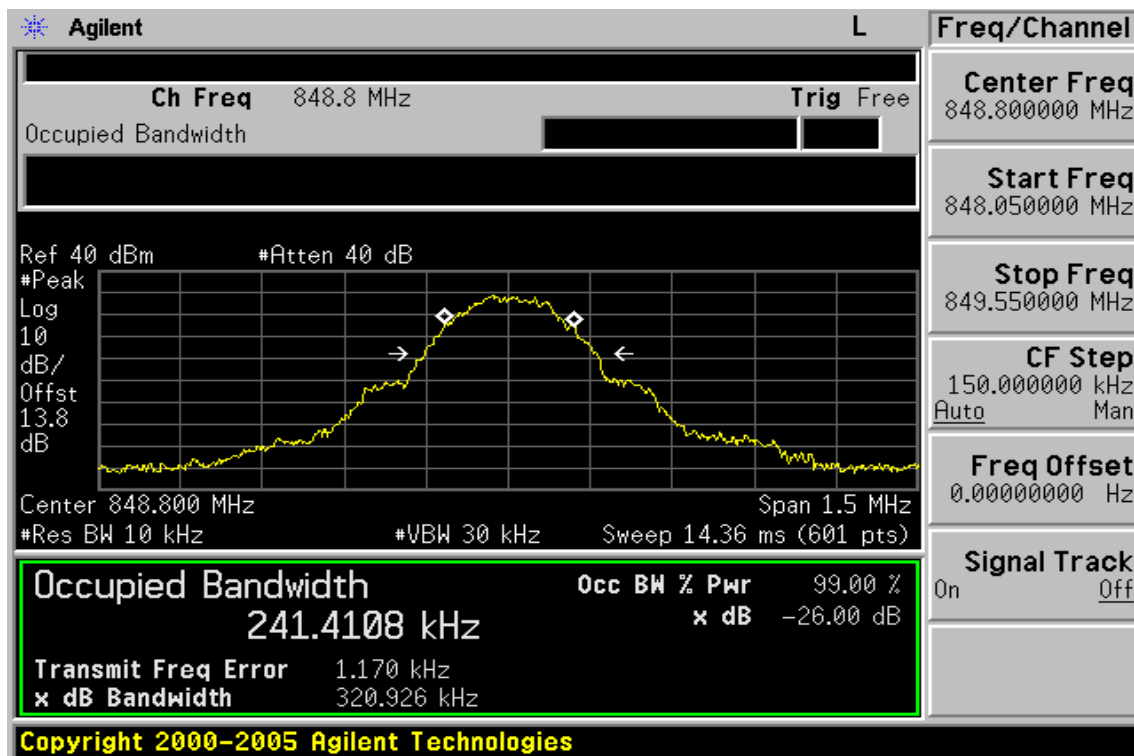
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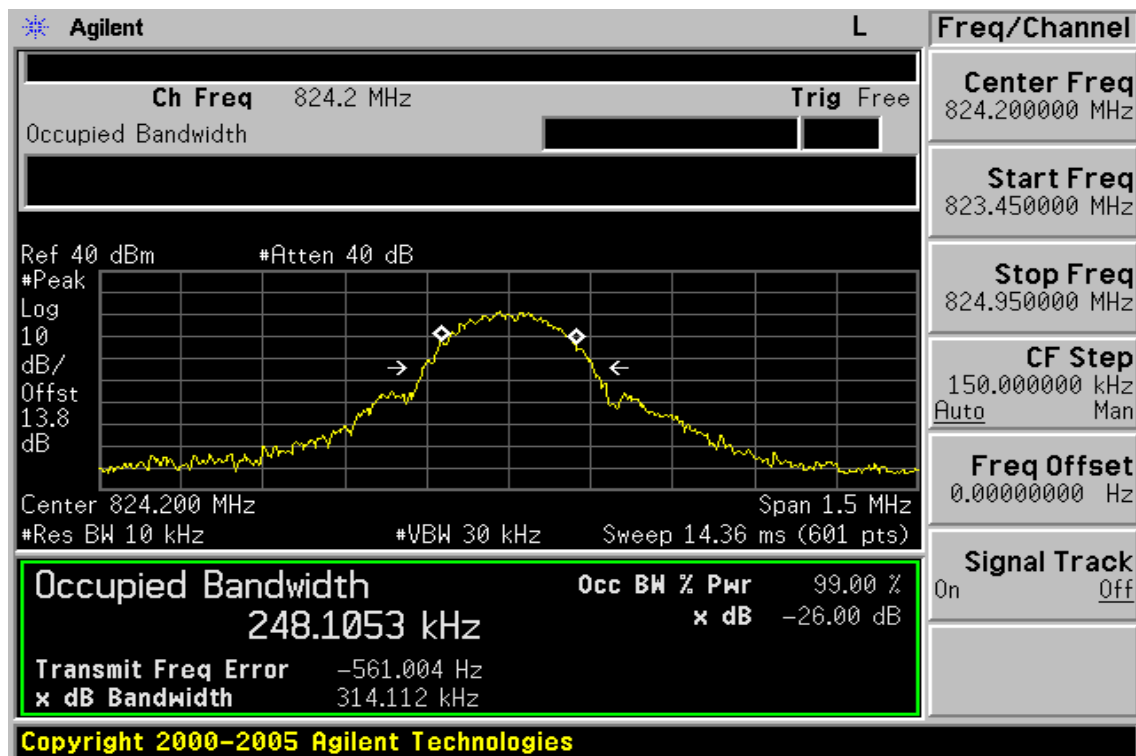
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GPRS 850 Channel High



EDGE 850 Channel Low



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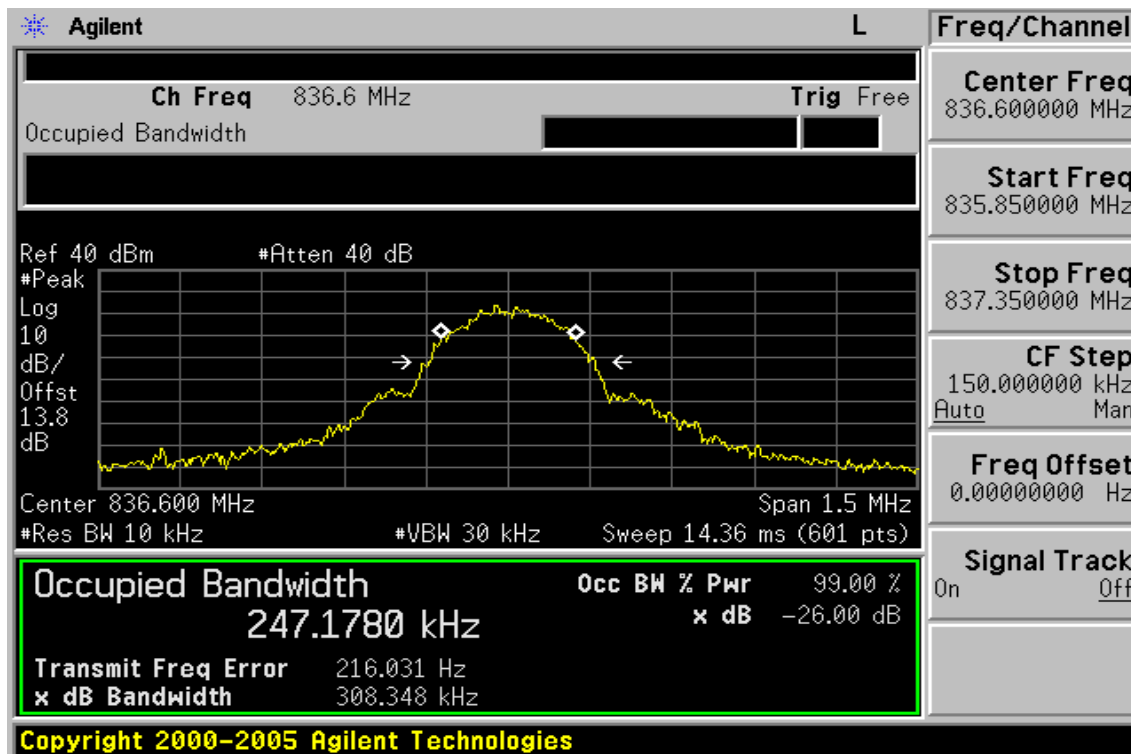
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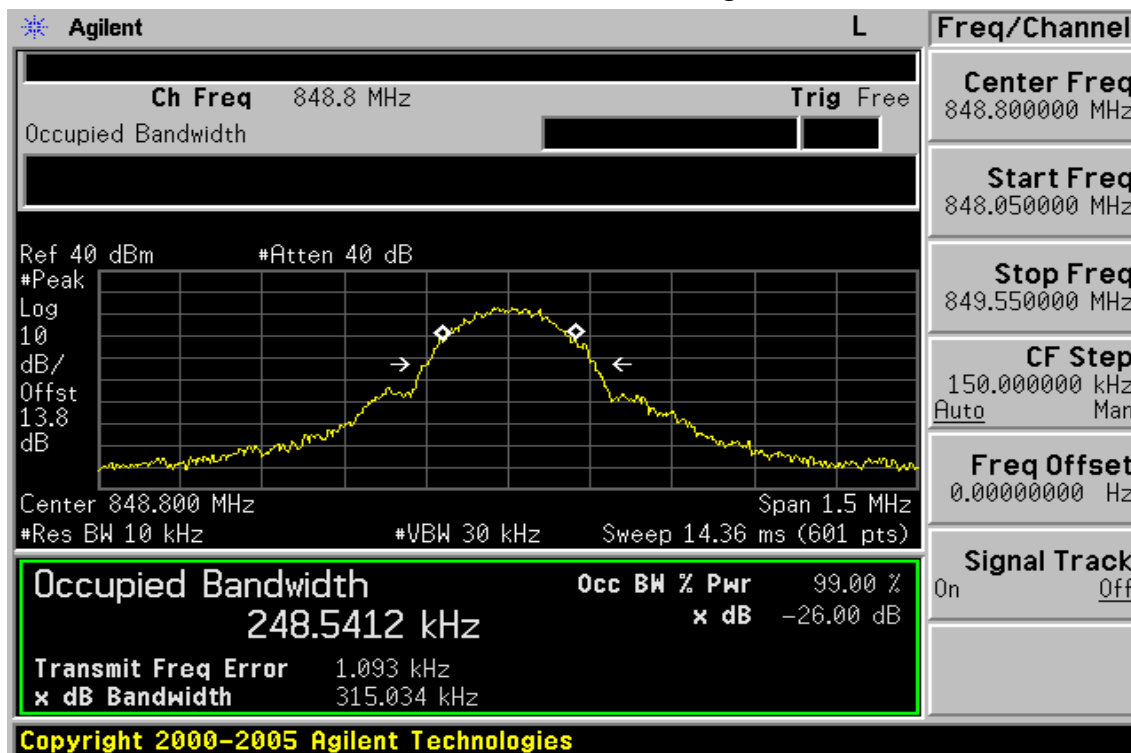
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EDGE 850 Channel Mid



EDGE 850 Channel High



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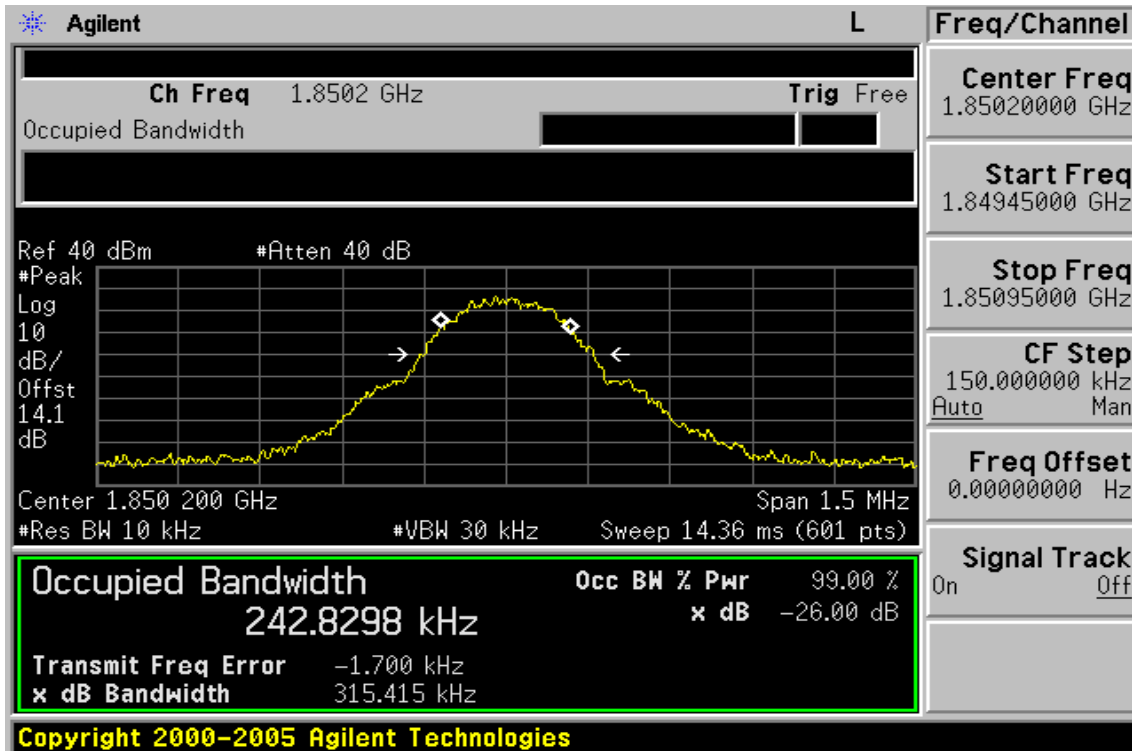
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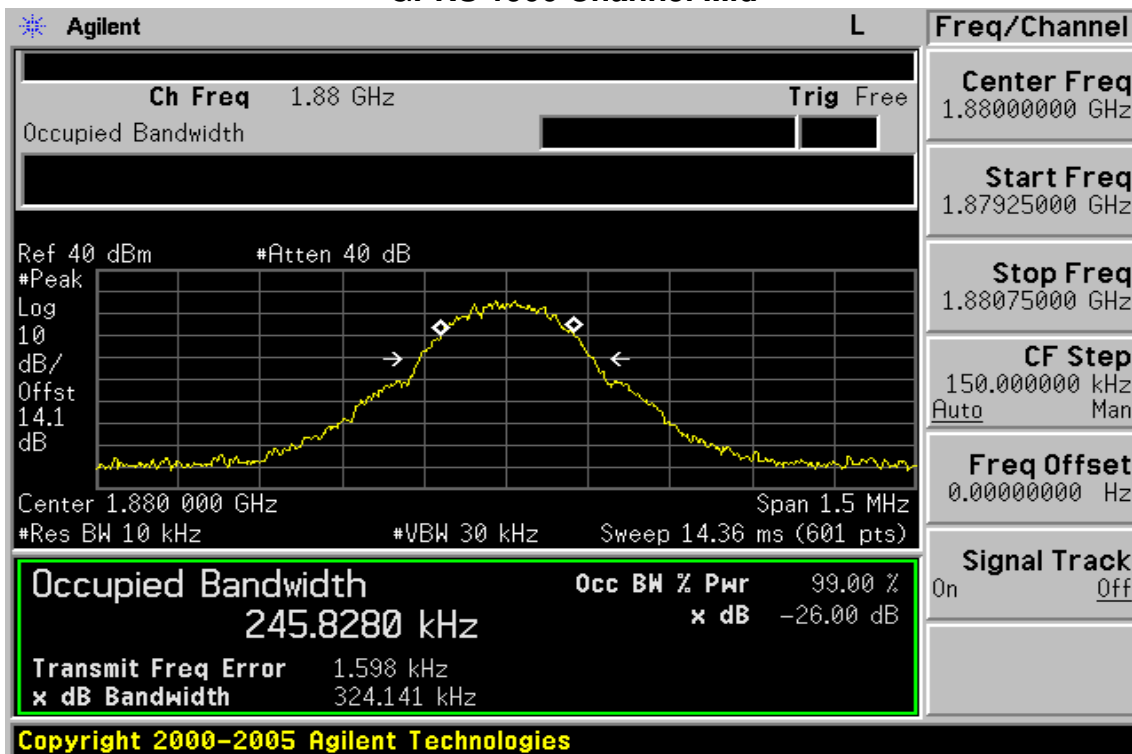
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GPRS 1900 Channel Low



GPRS 1900 Channel Mid



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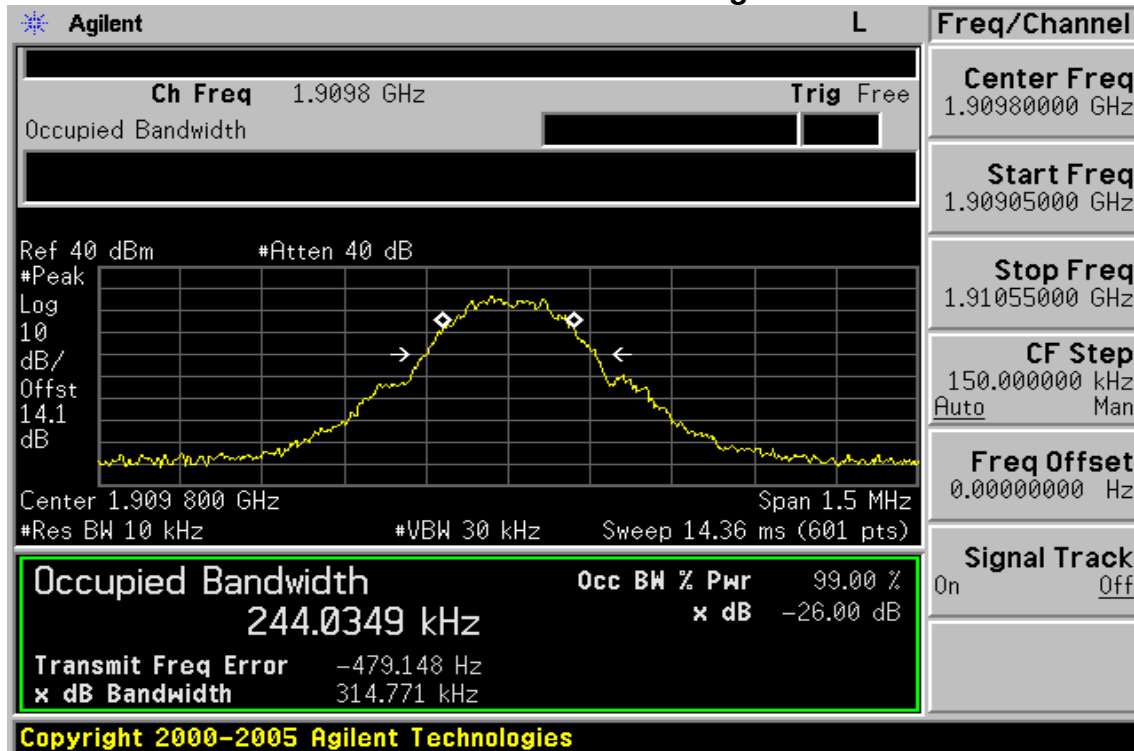
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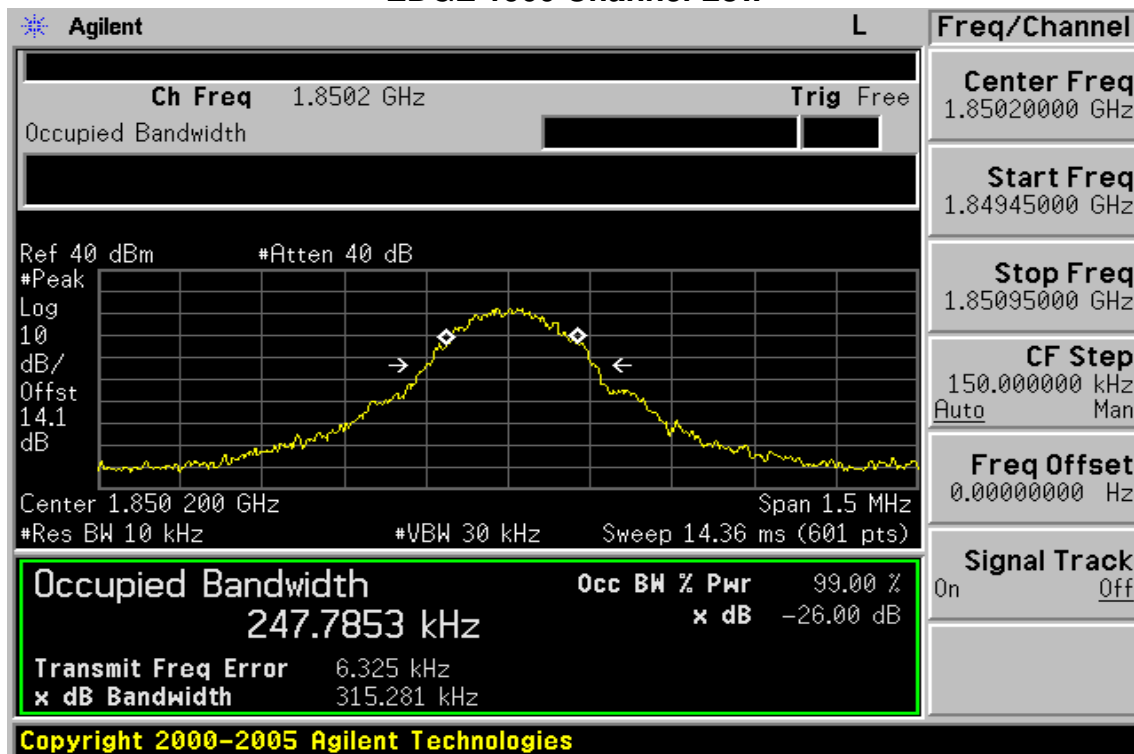
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GPRS 1900 Channel High



EDGE 1900 Channel Low



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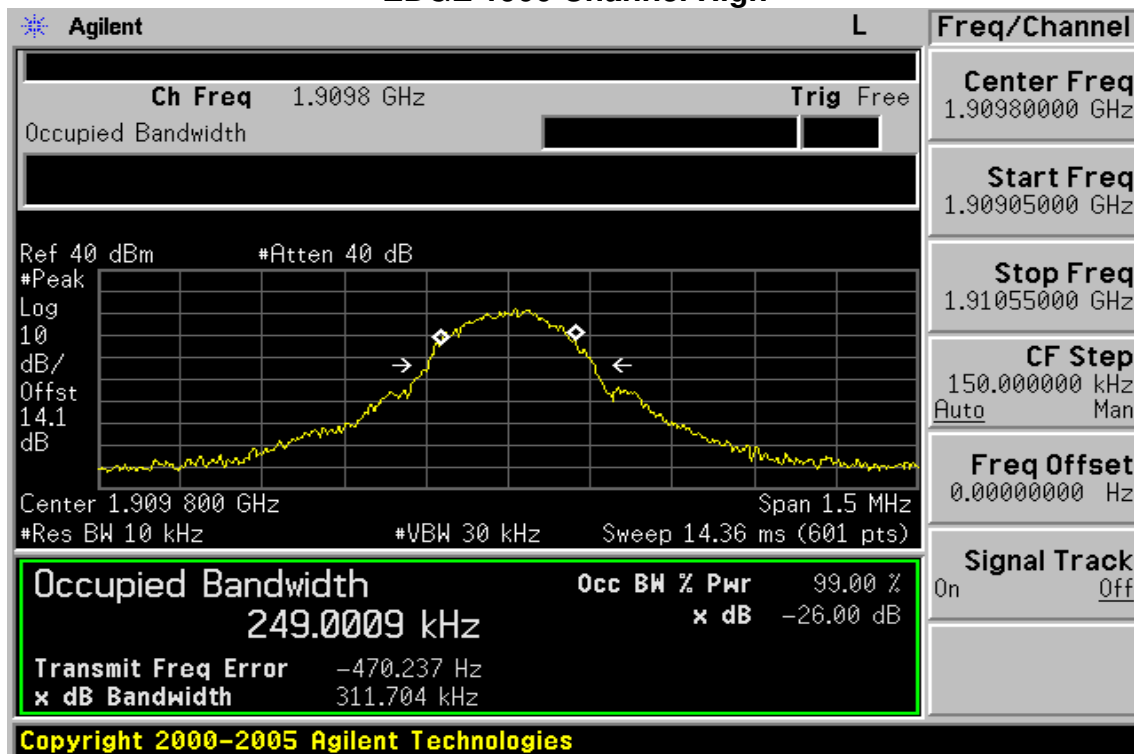
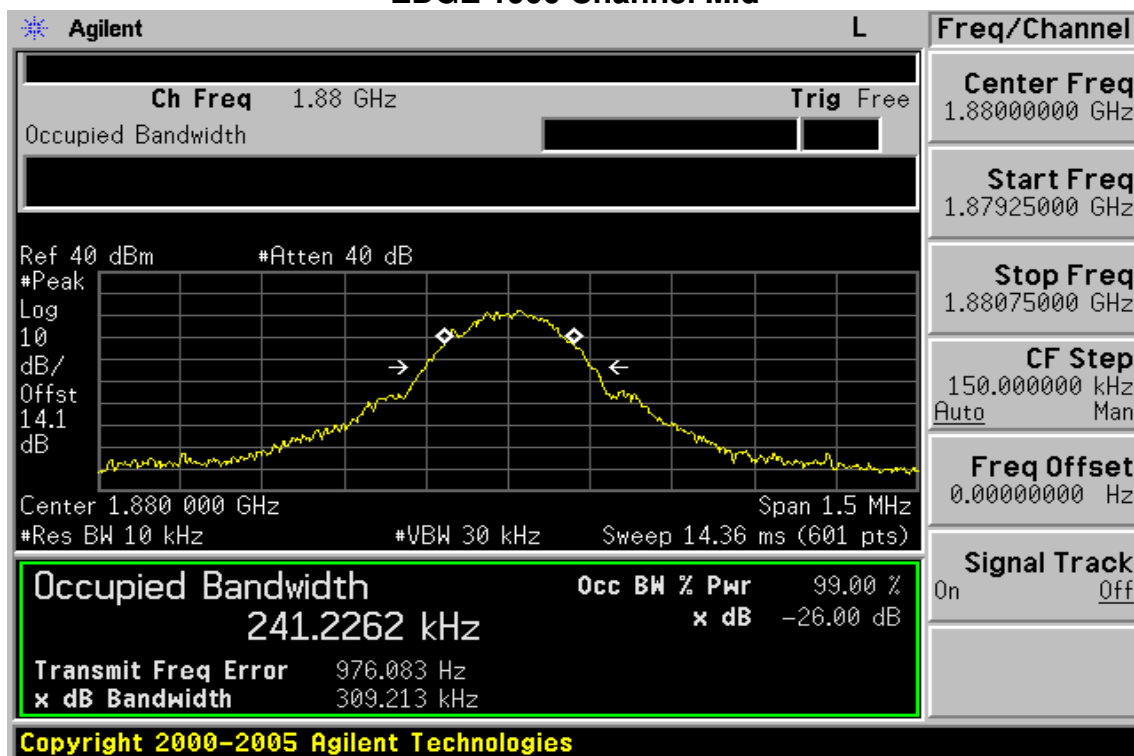
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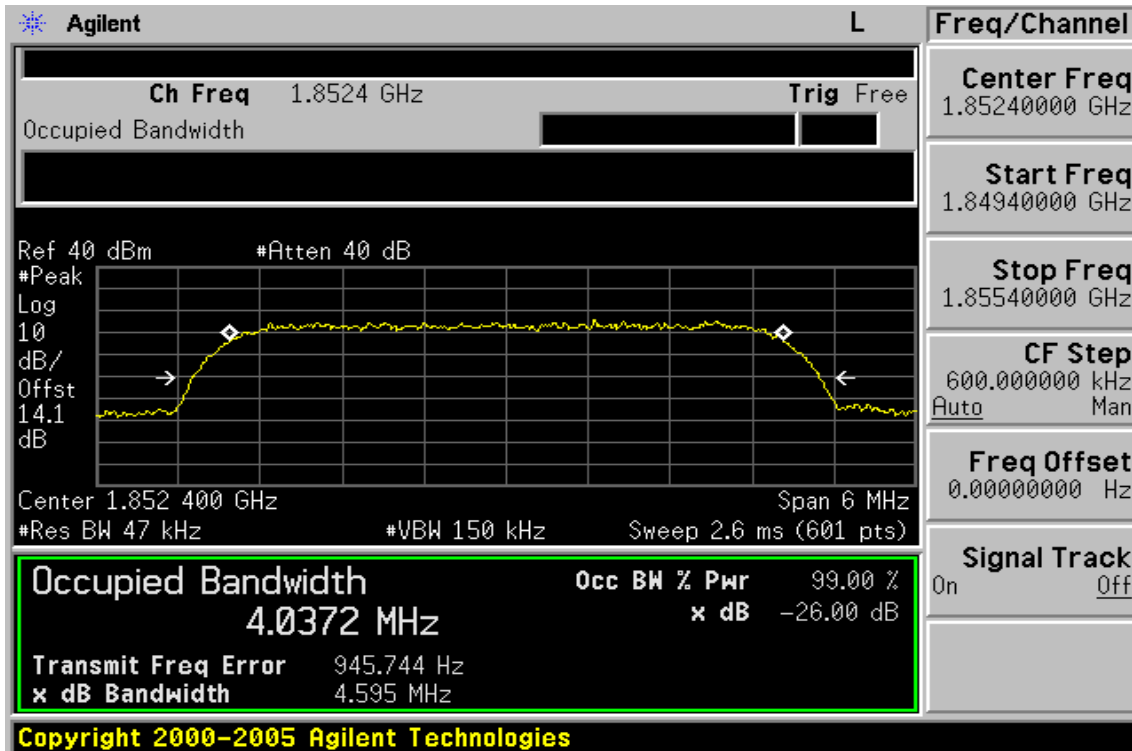
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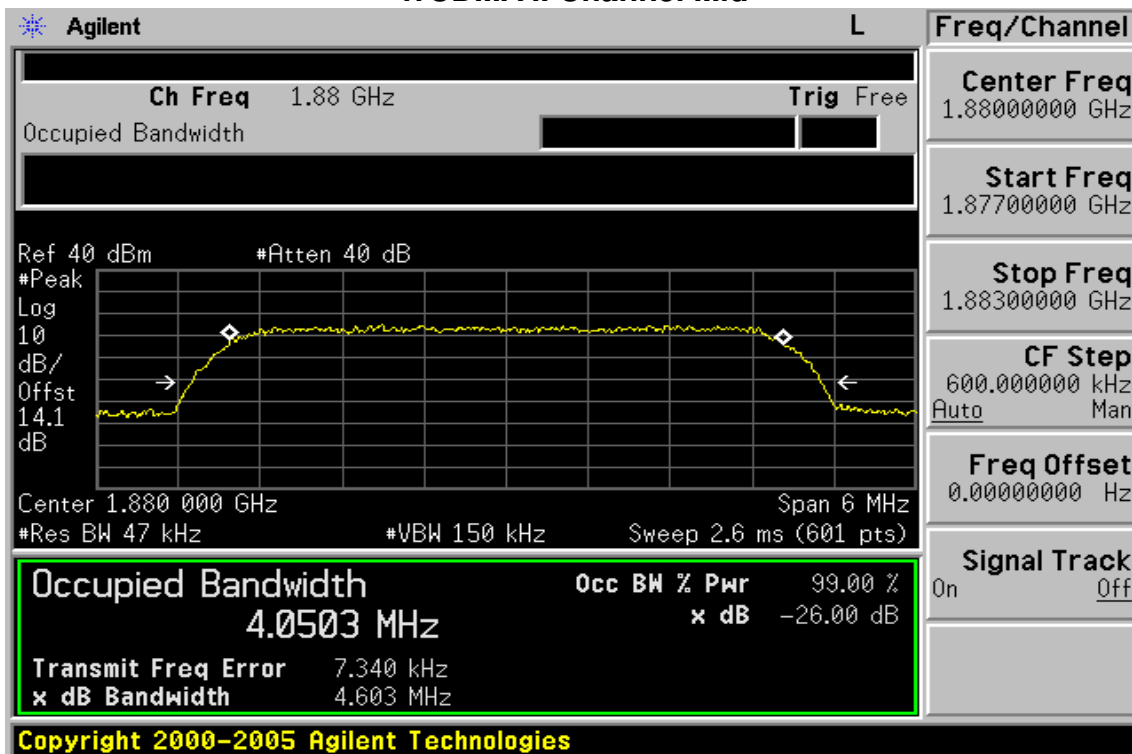
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WCDMA II Channel Low



WCDMA II Channel Mid



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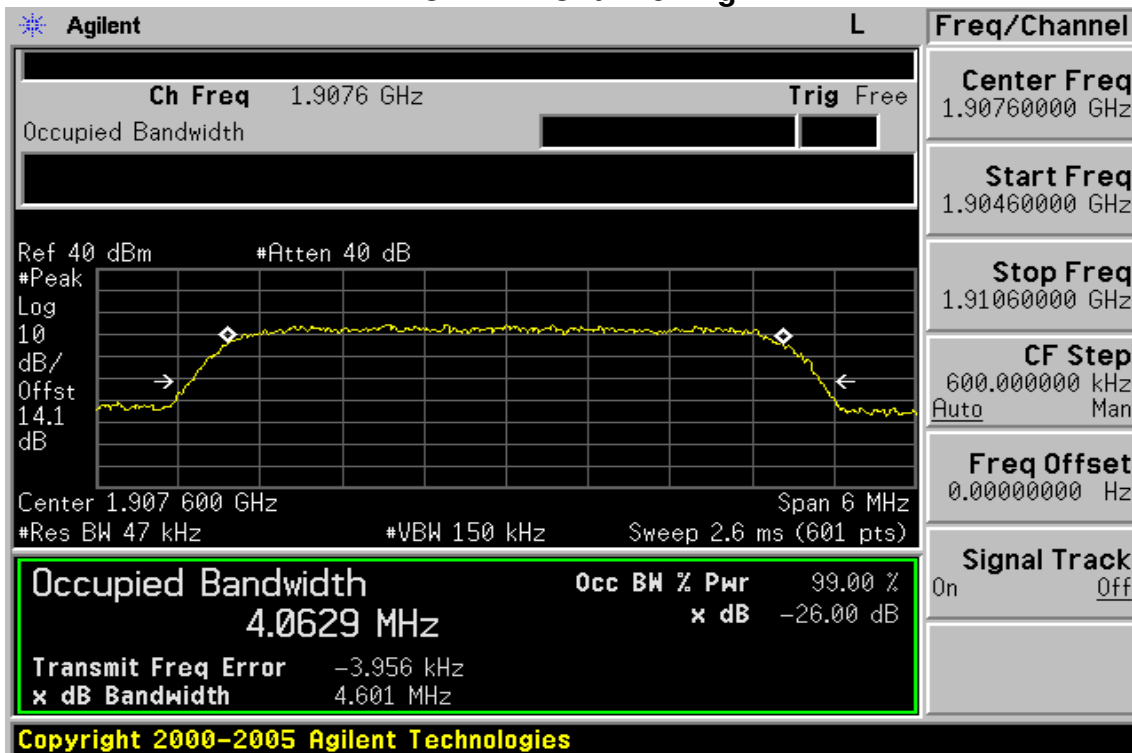
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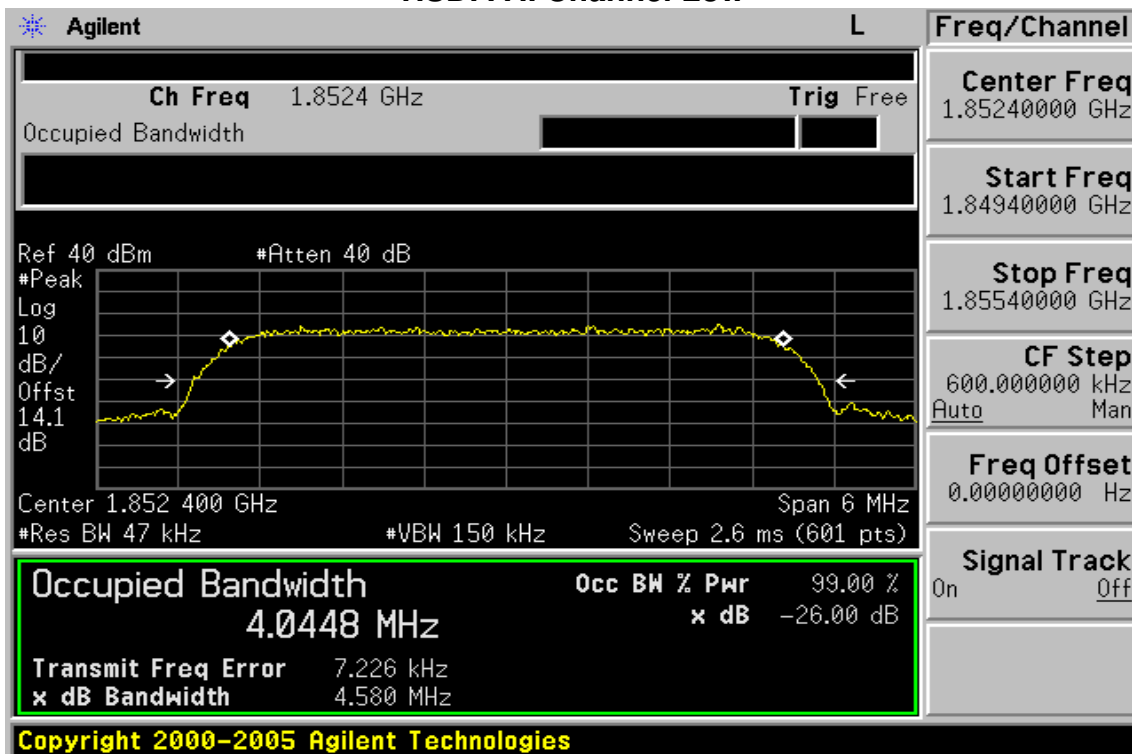
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WCDMA II Channel High



HSDPA II Channel Low



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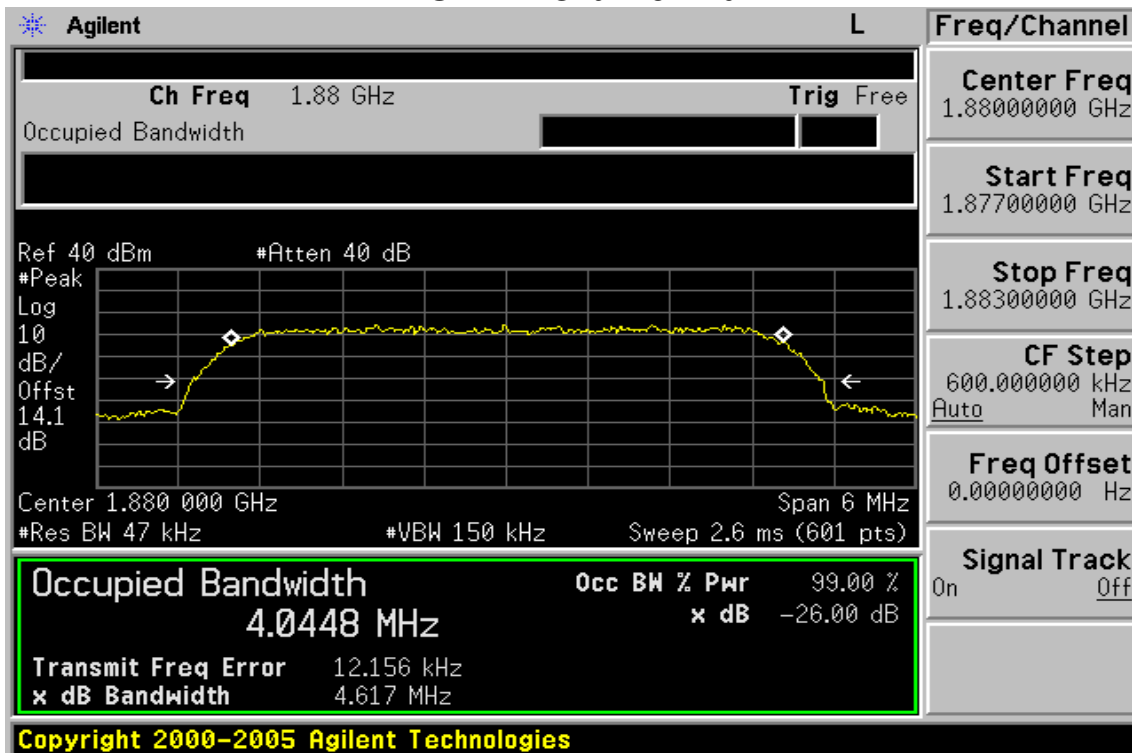
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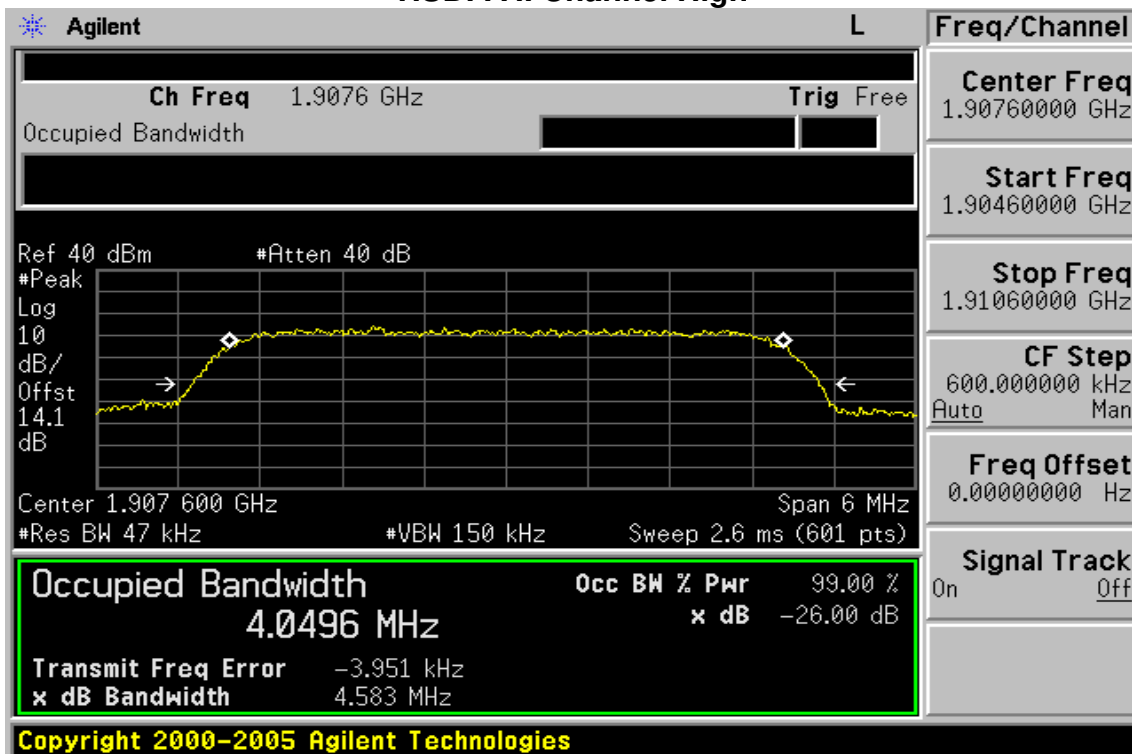
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HSDPA II Channel Mid



HSDPA II Channel High



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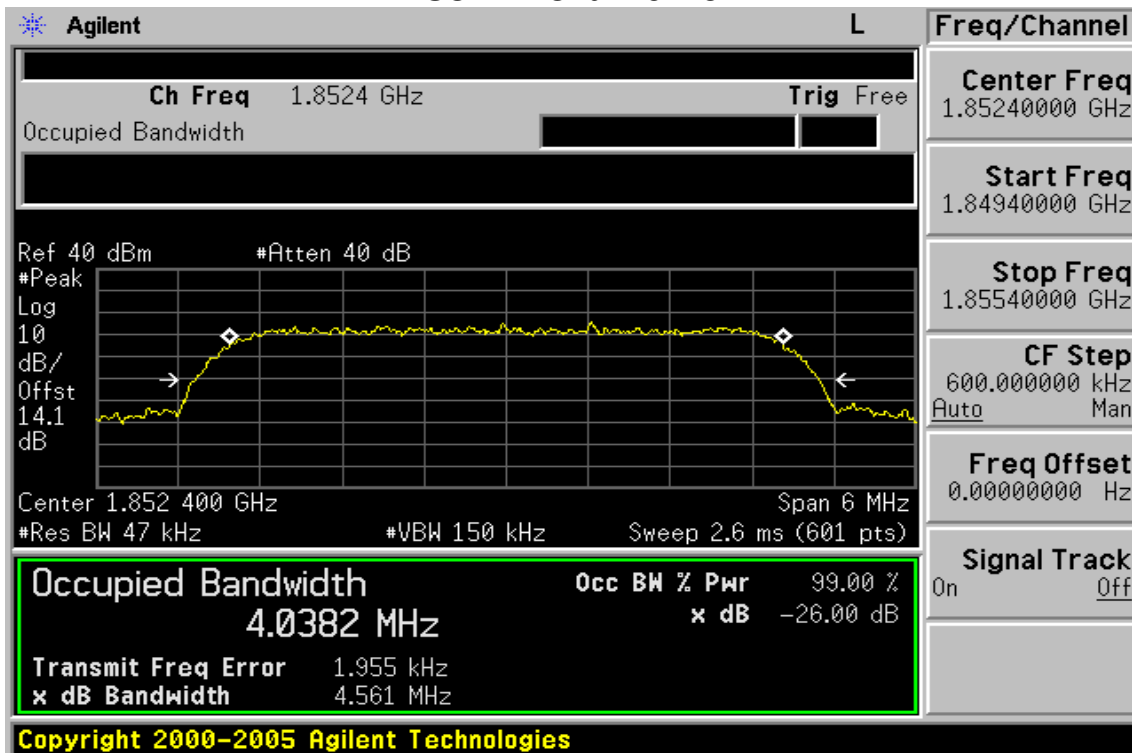
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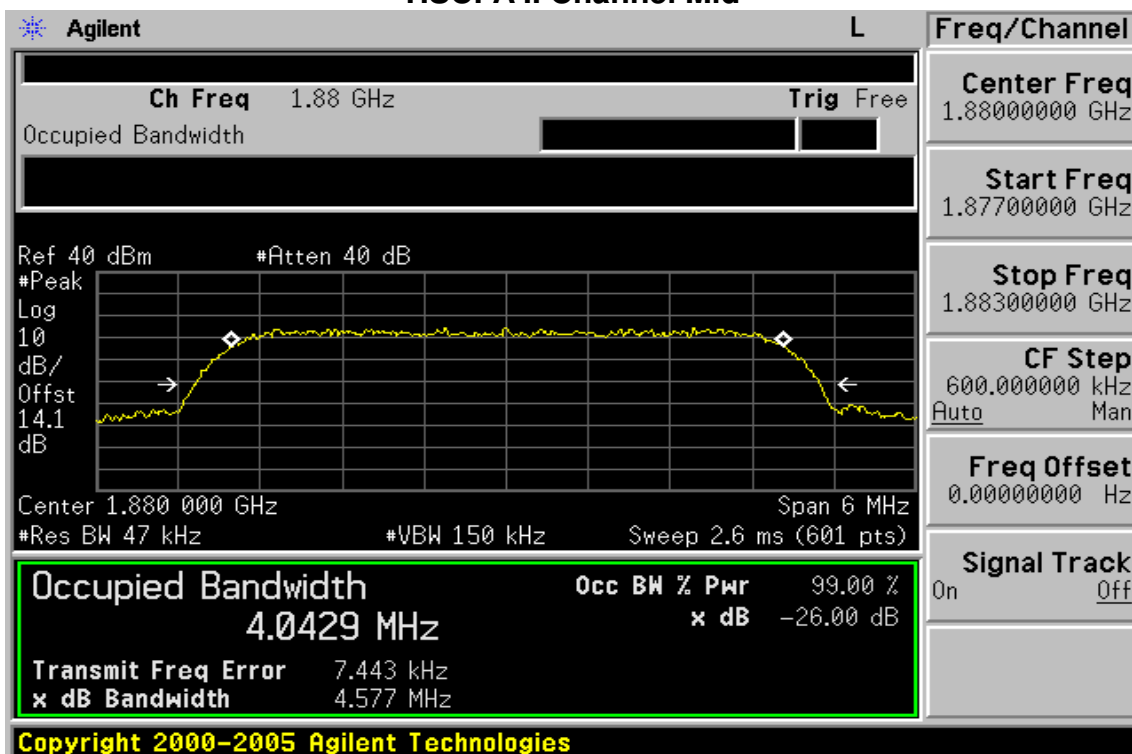
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HSUPA II Channel Low



HSUPA II Channel Mid



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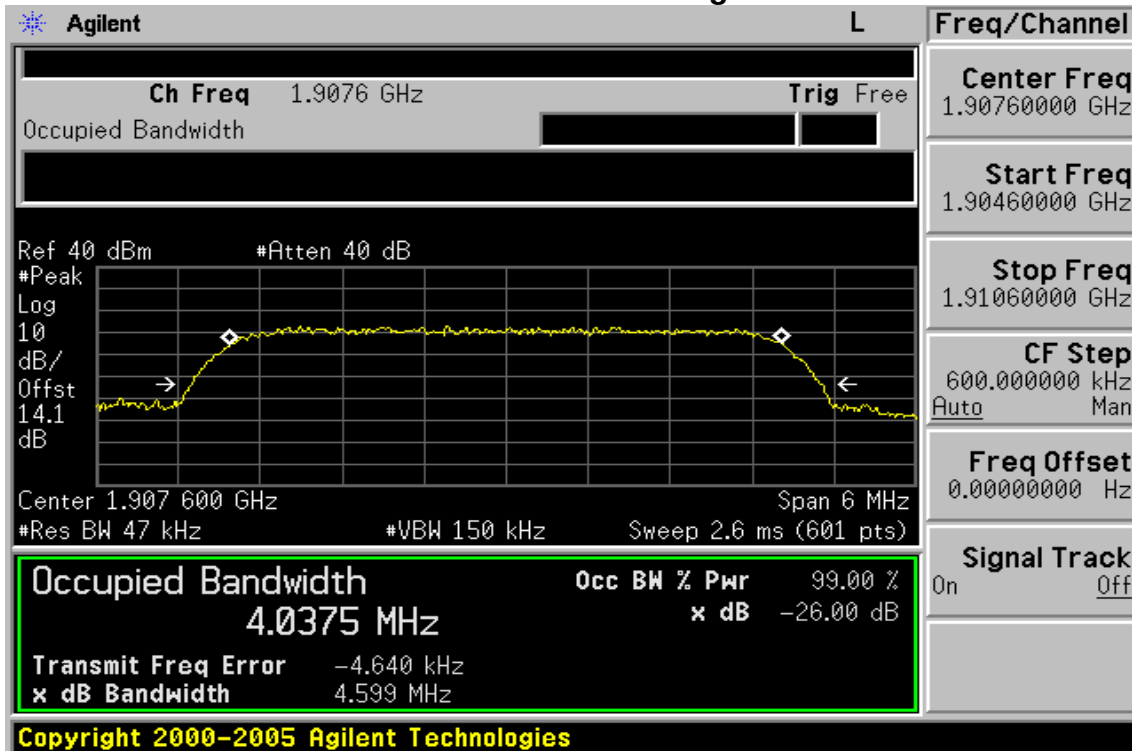
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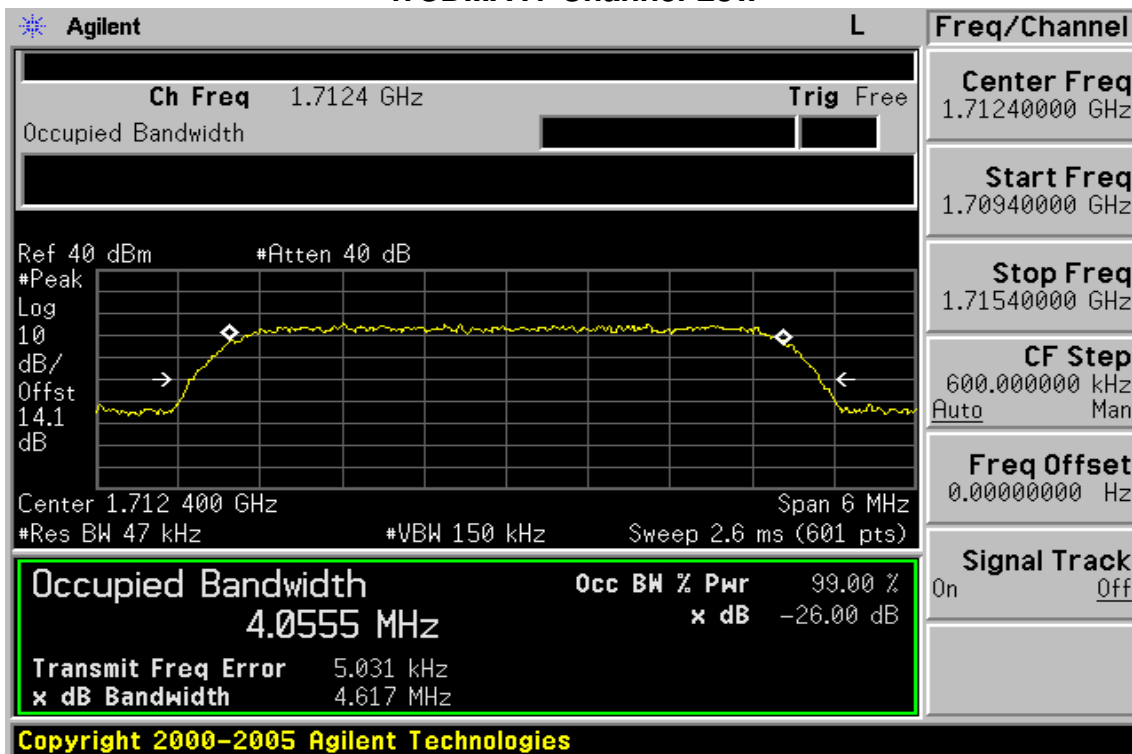
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HSUPA II Channel High



WCDMA IV Channel Low



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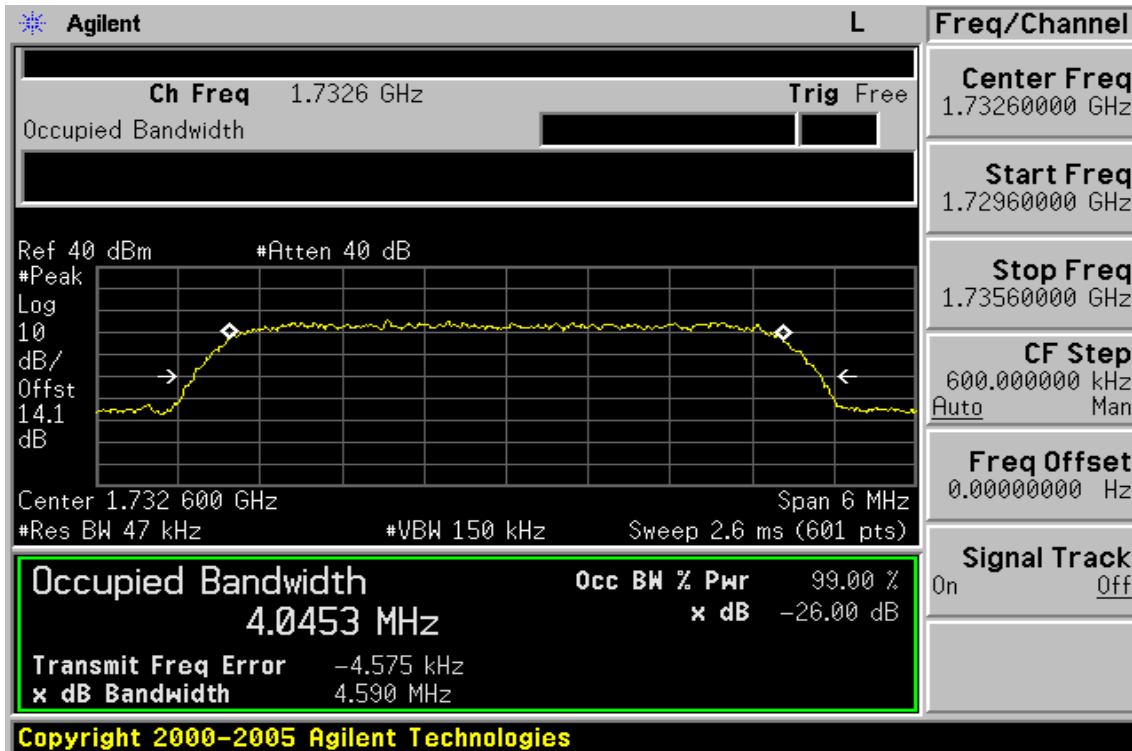
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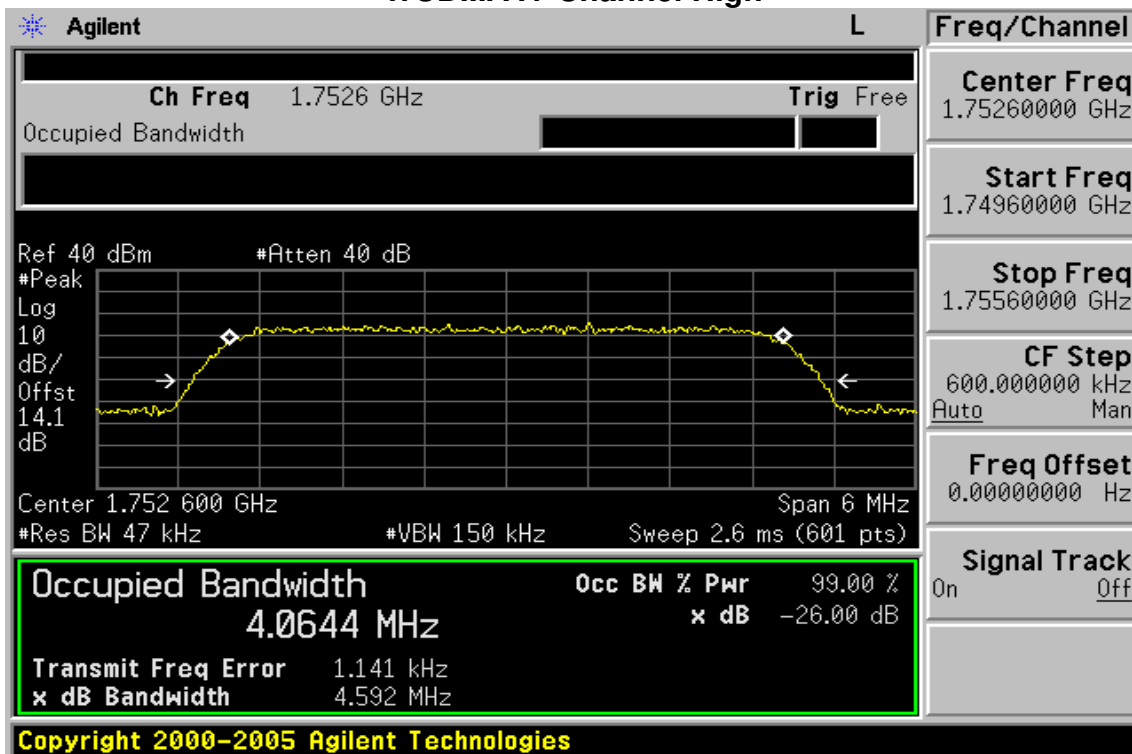
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WCDMA IV Channel Mid



WCDMA IV Channel High



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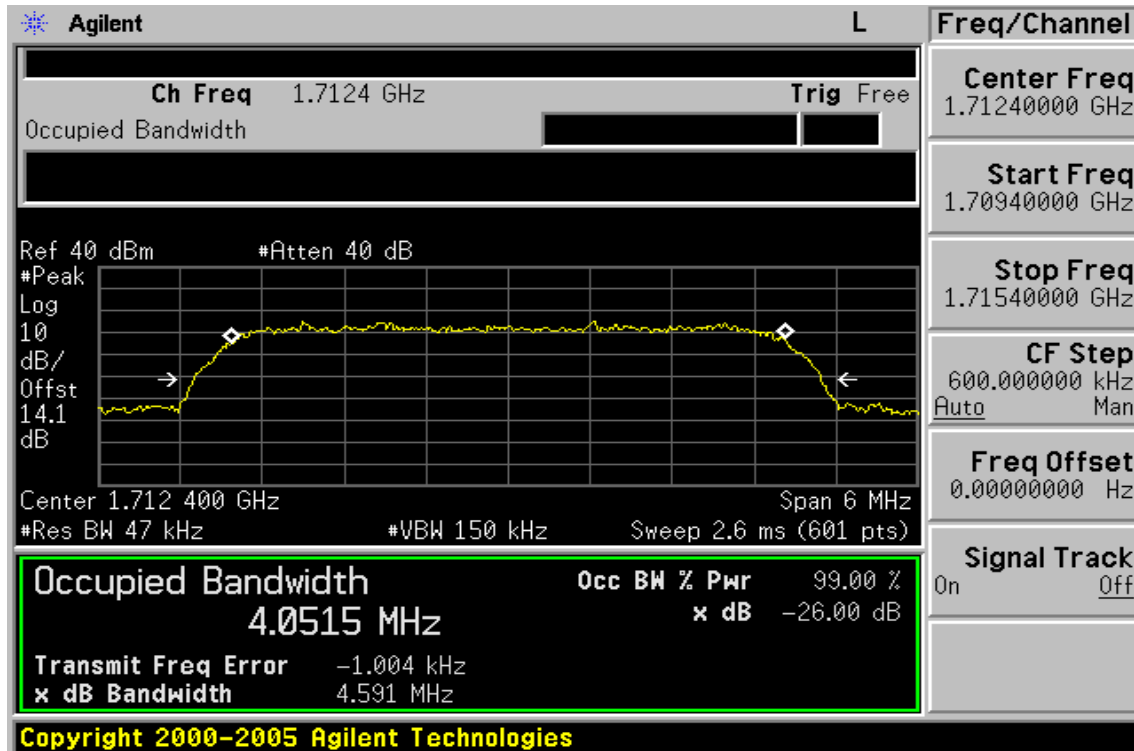
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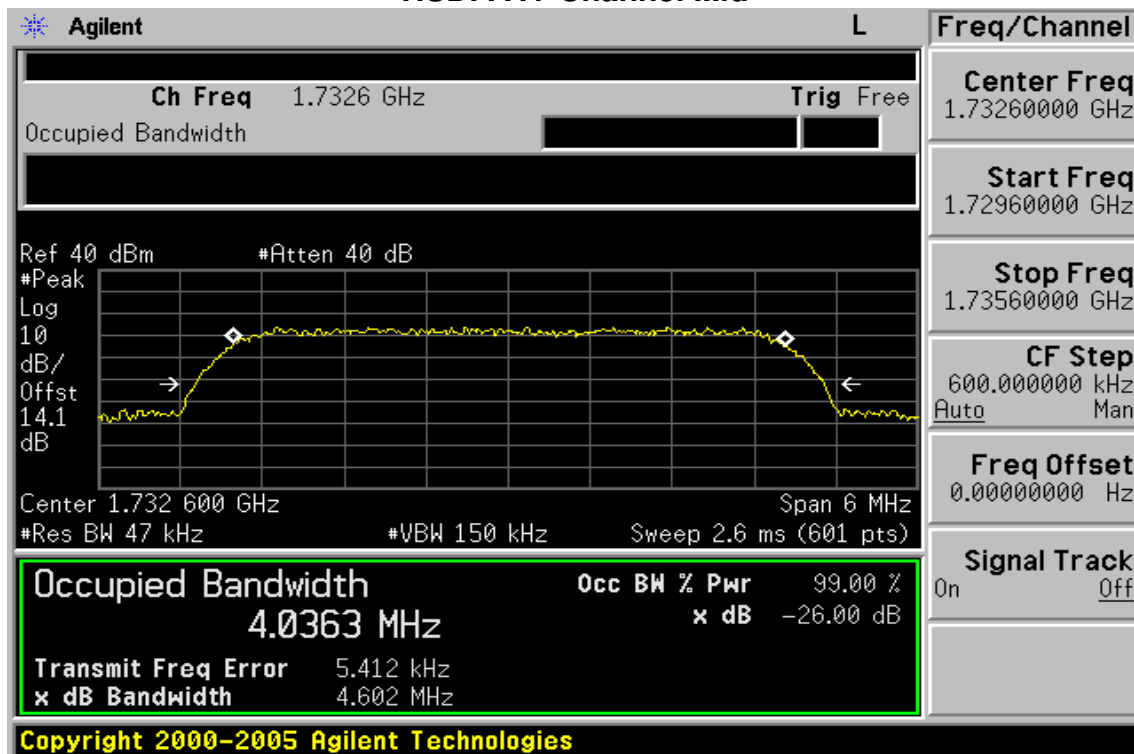
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HSDPA IV Channel Low



HSDPA IV Channel Mid



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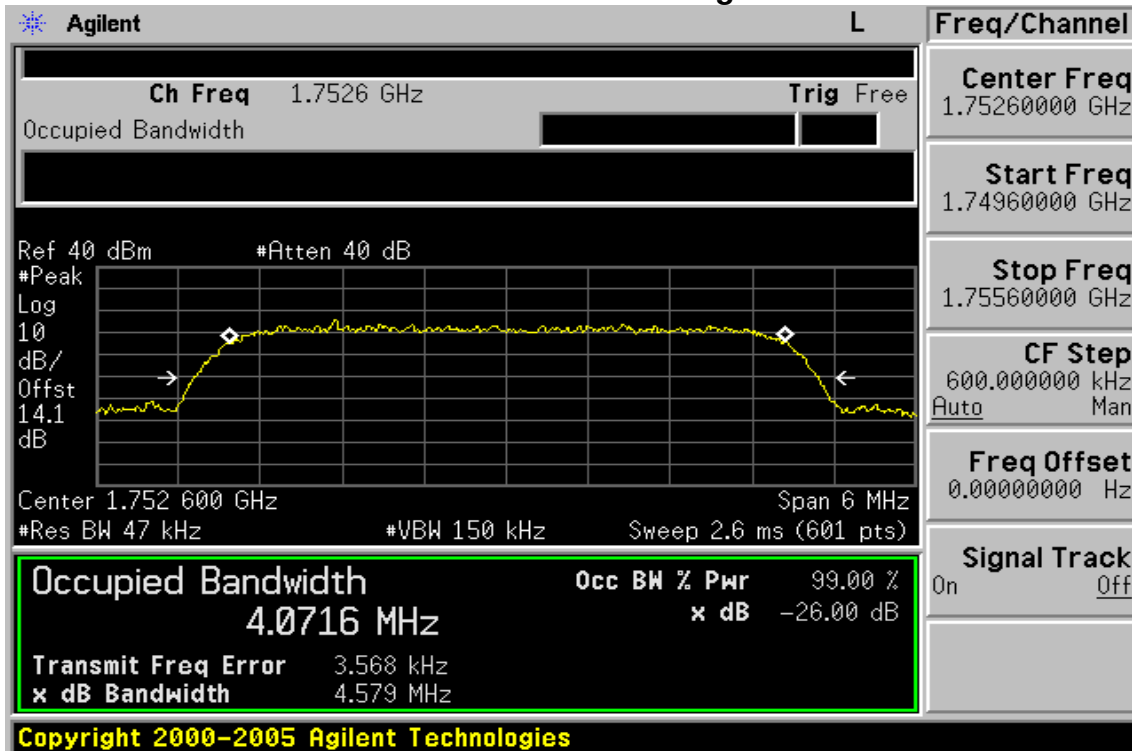
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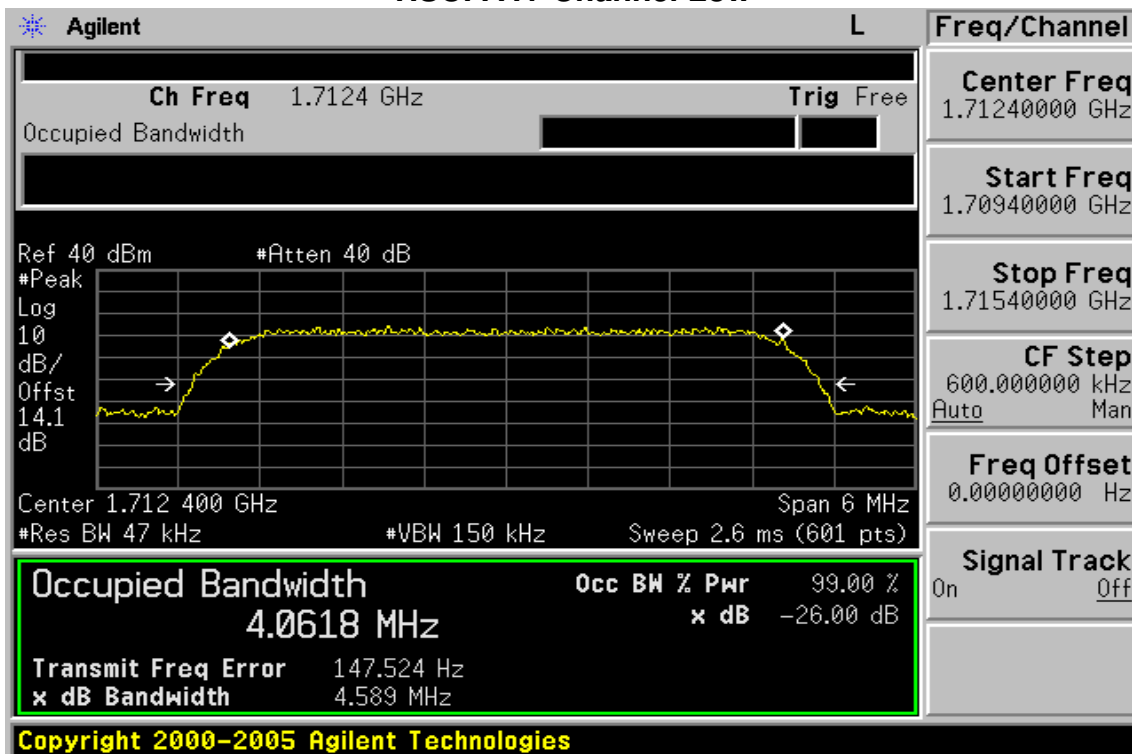
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HSDPA IV Channel High



HSUPA IV Channel Low



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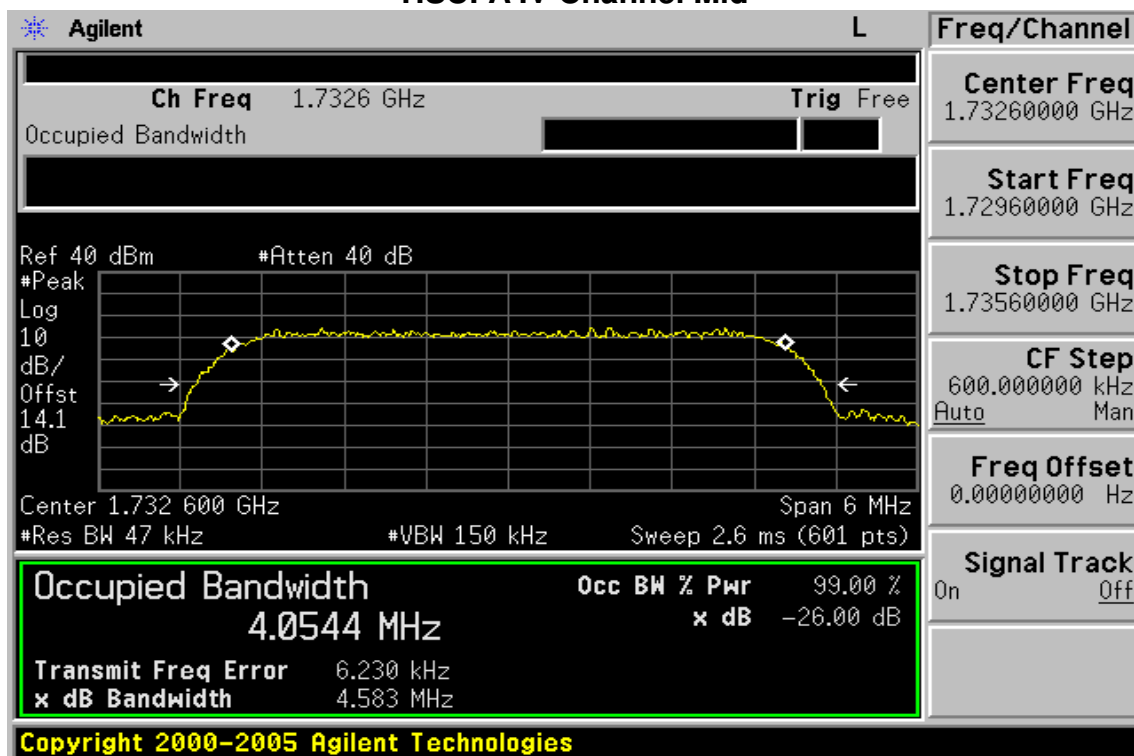
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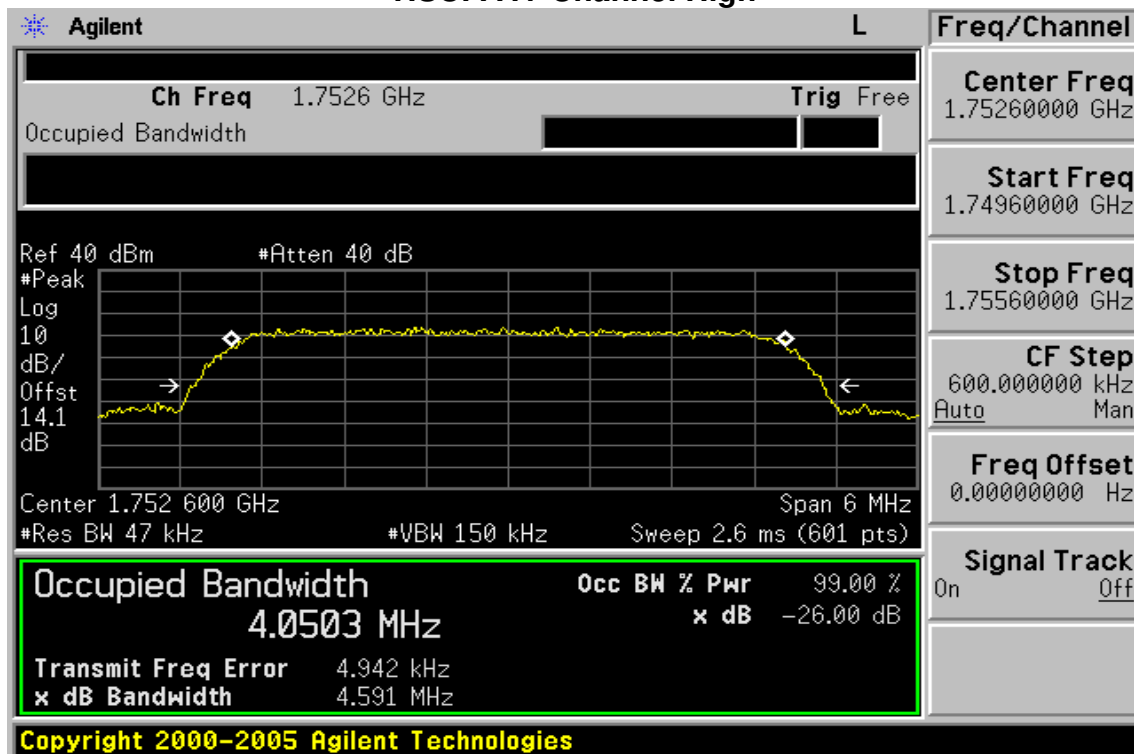
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HSUPA IV Channel Mid



HSUPA IV Channel High



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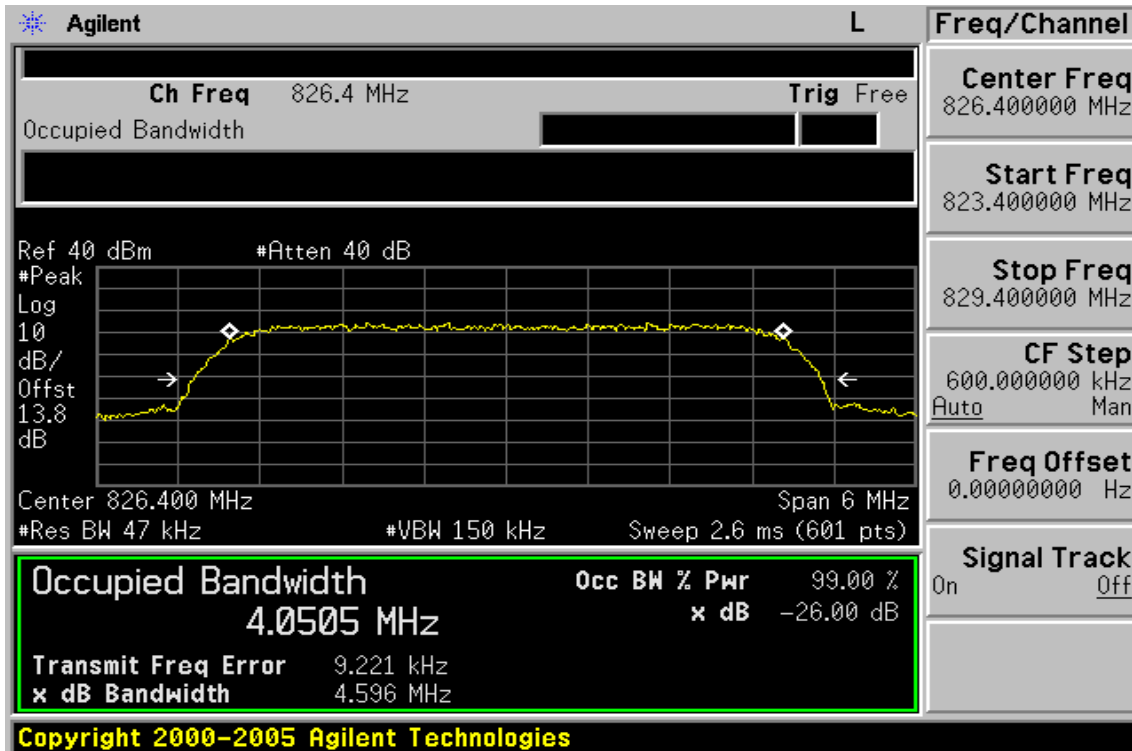
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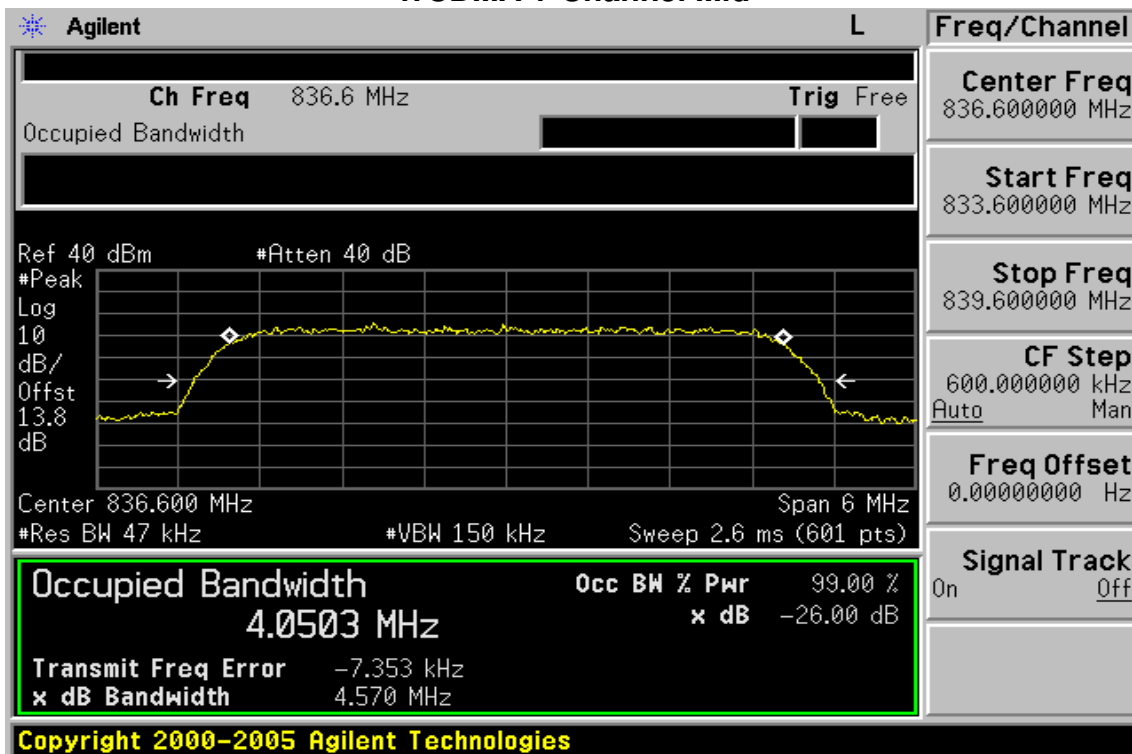
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WCDMA V Channel Low



WCDMA V Channel Mid



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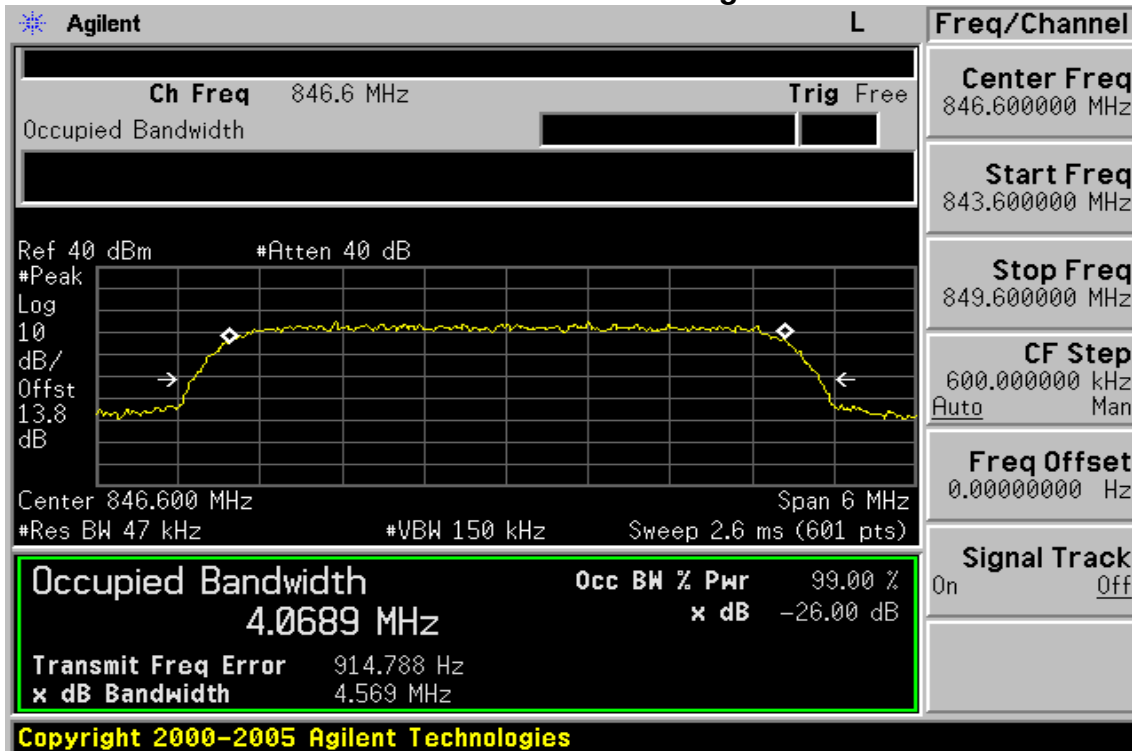
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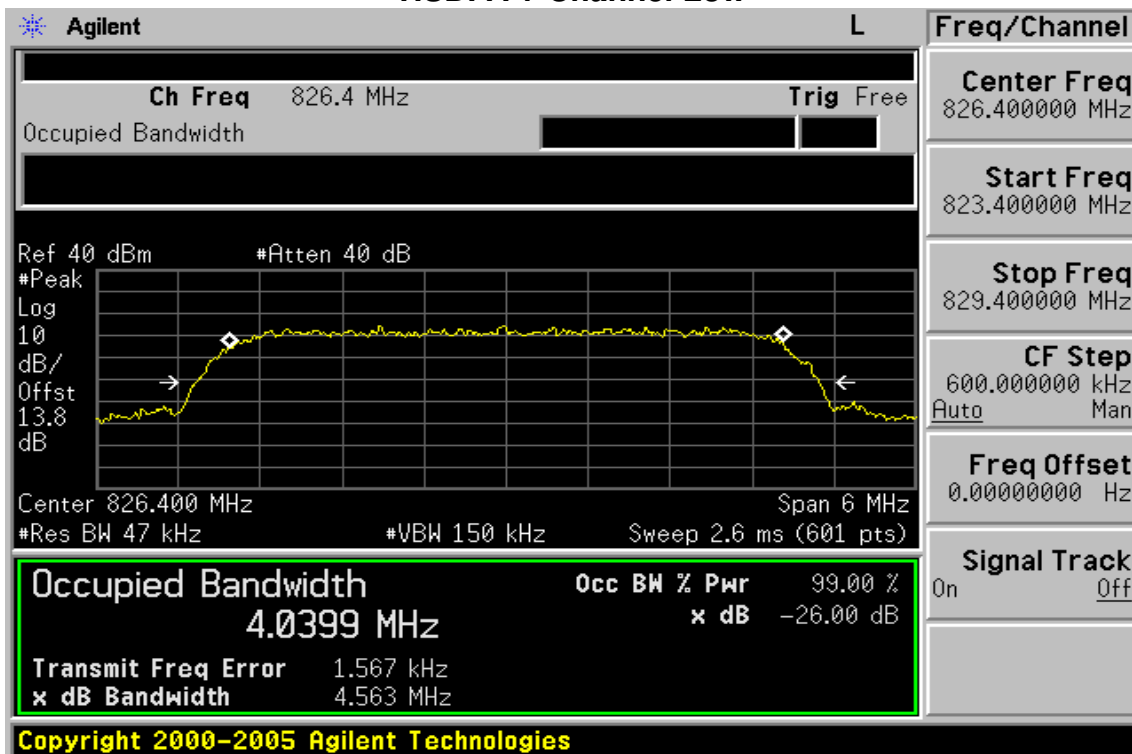
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WCDMA V Channel High



HSDPA V Channel Low



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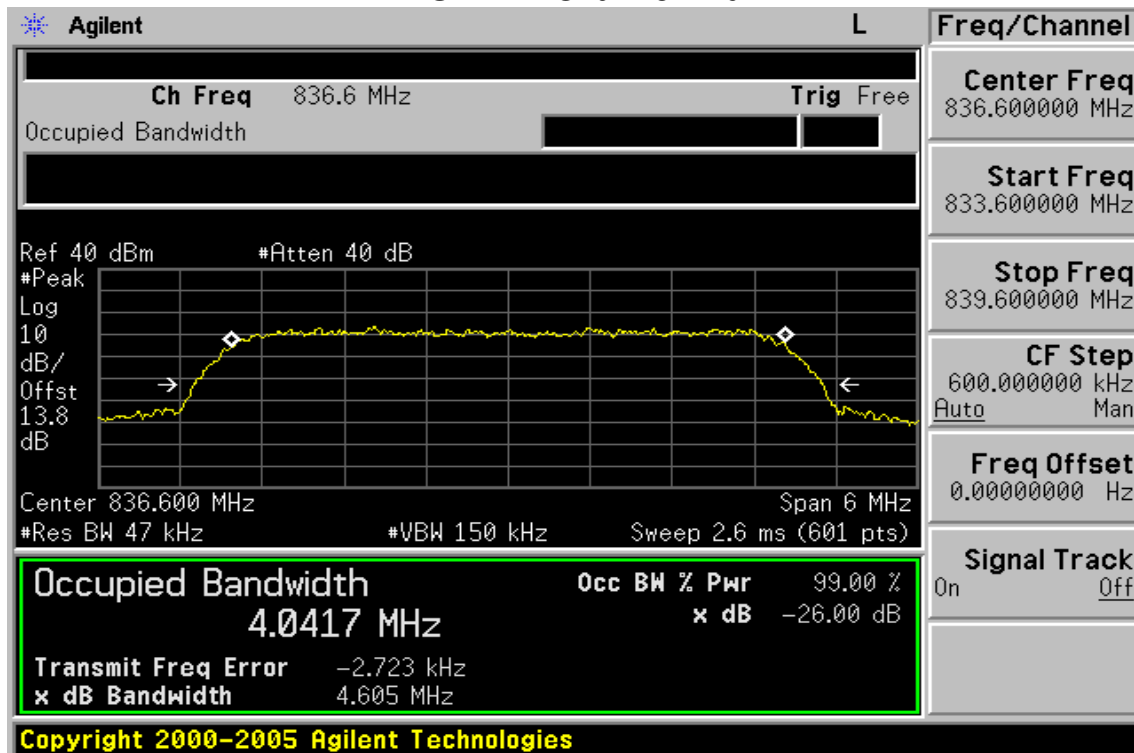
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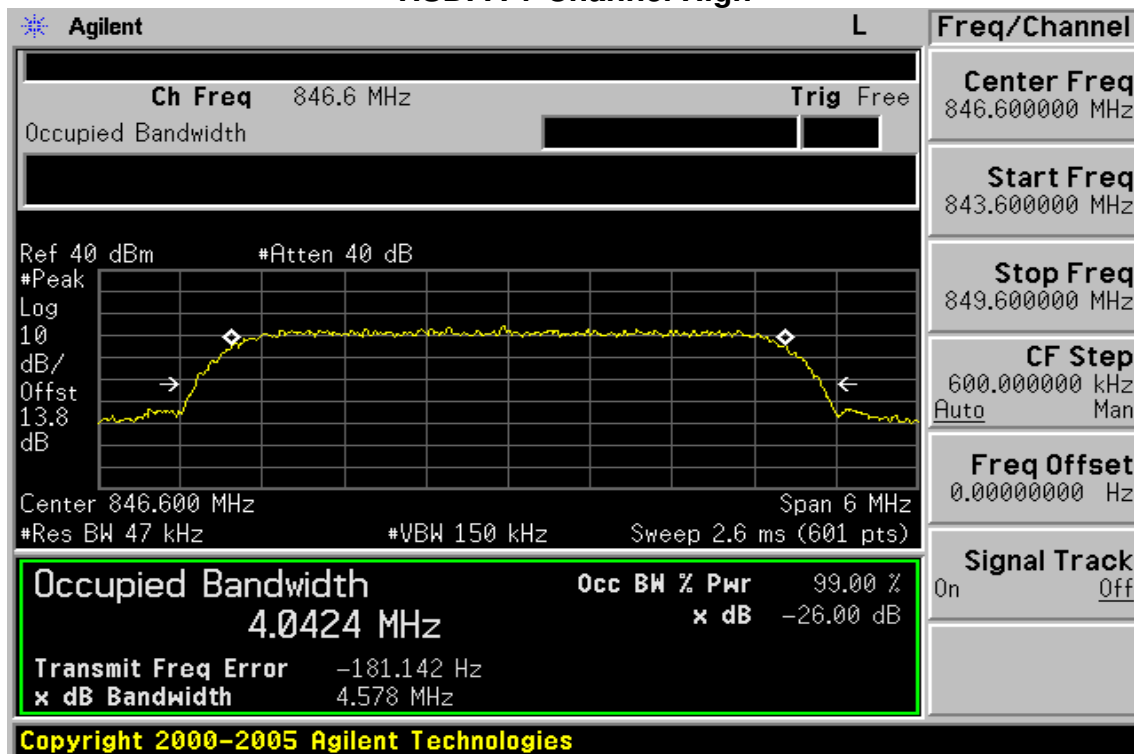
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HSDPA V Channel Mid



HSDPA V Channel High



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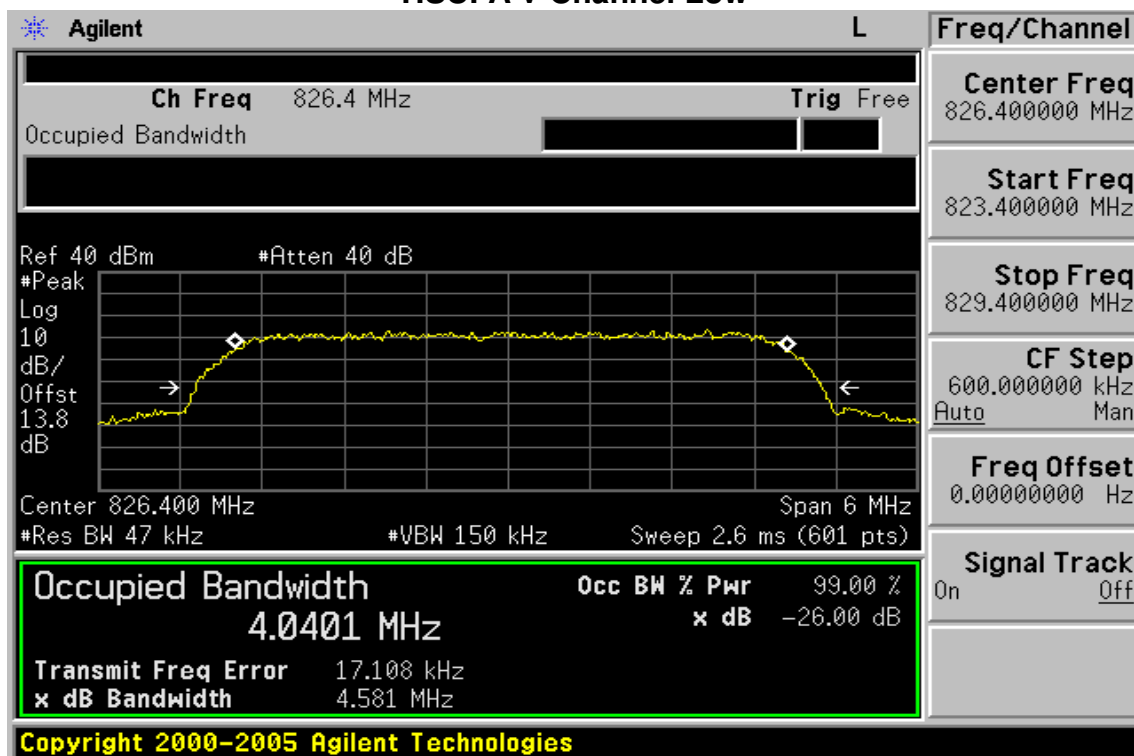
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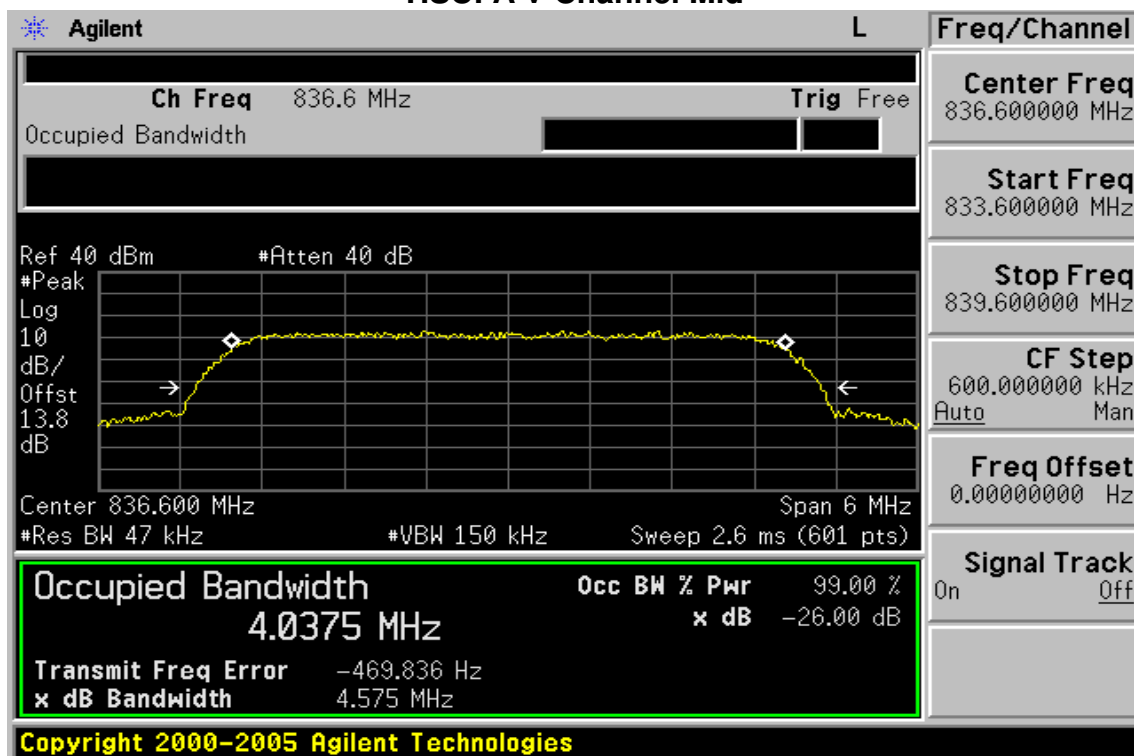
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HSUPA V Channel Low



HSUPA V Channel Mid



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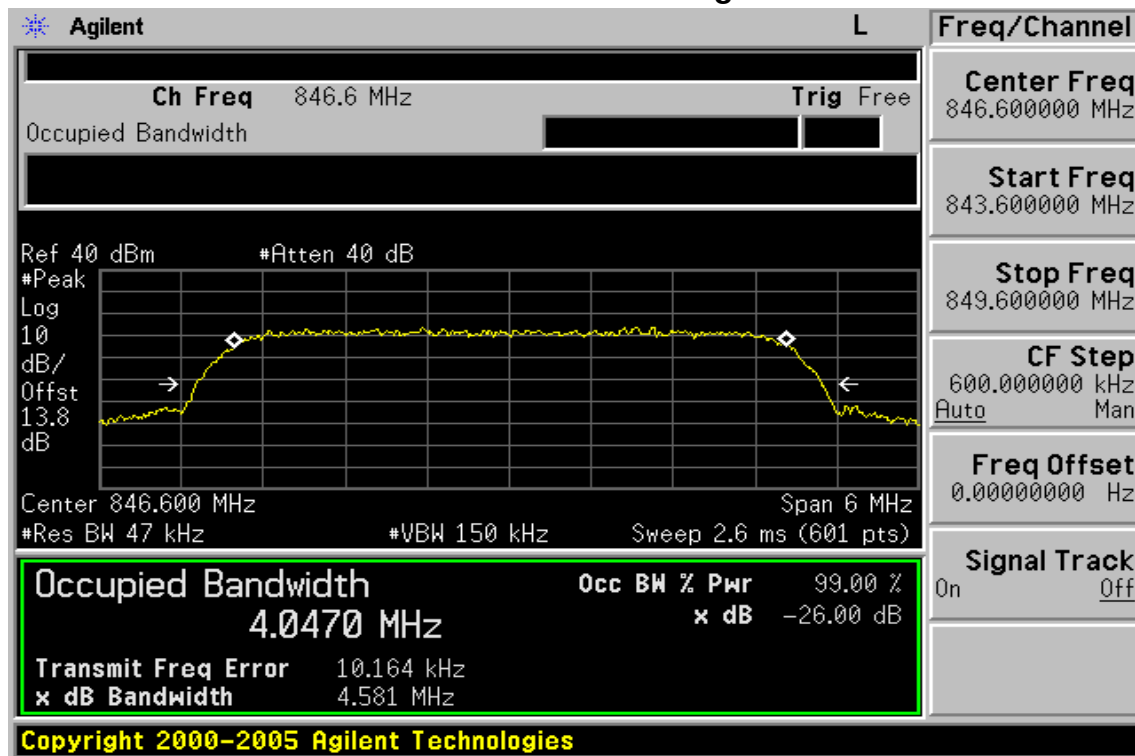
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HSUPA V Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

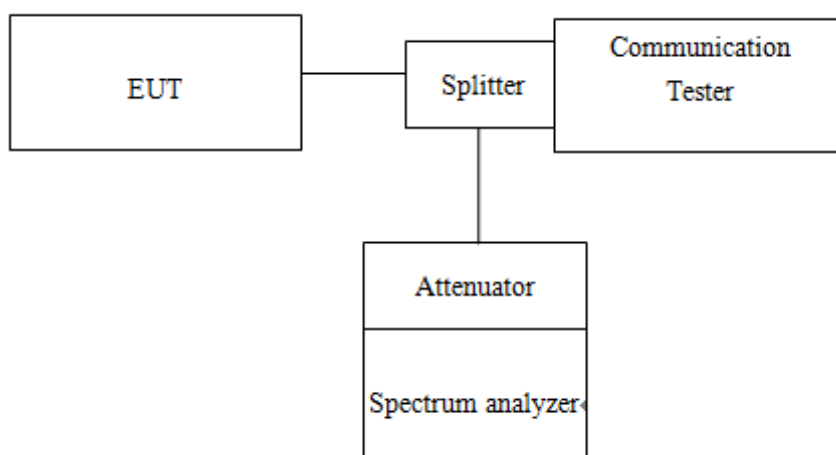
FCC §22.917(a), §24.238(a), §27.53(g)(h) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc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

Band Edge Measurement:

FCC §27.53(h)

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

9.2. Test SET-UP



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9.3. Measurement Procedure

Conducted Emission

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

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

Band Edge

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

9.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	KR93300208	08/14/2015	08/13/2016

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9.5. Measurement Result:

Refer to next pages.

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

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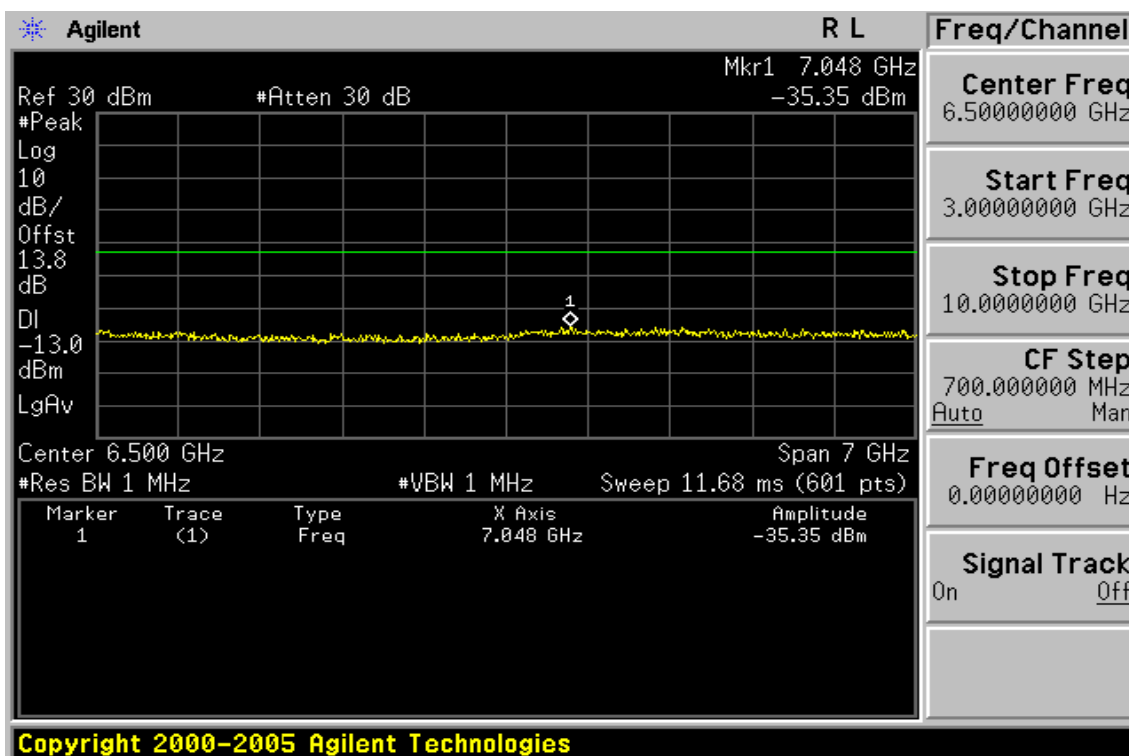
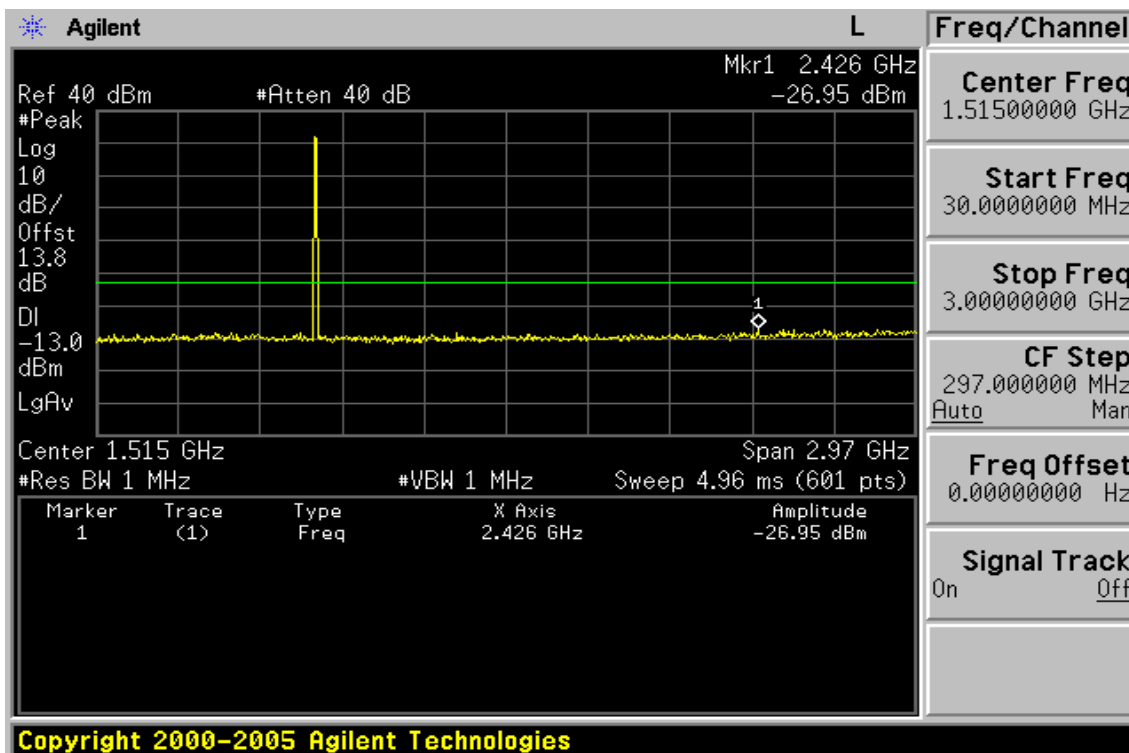
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Out of Band emission at antenna terminals – GPRS 850 Channel Lowest



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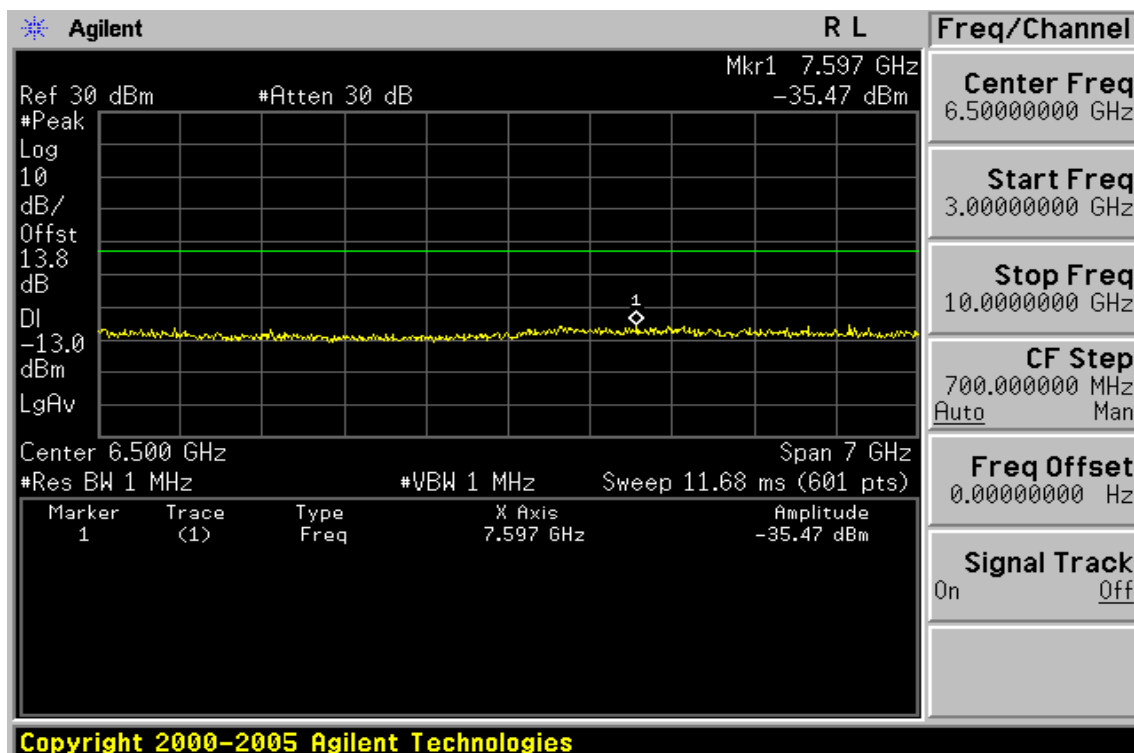
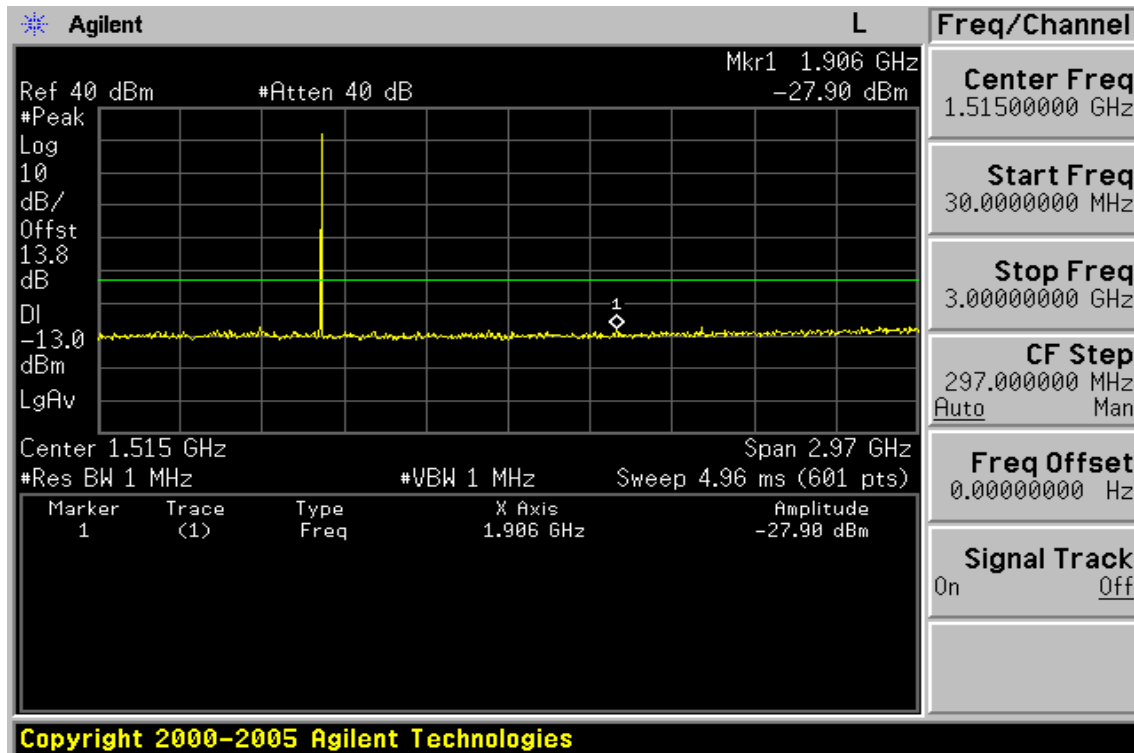
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Out of Band emission at antenna terminals – GPRS 850 Channel Mid



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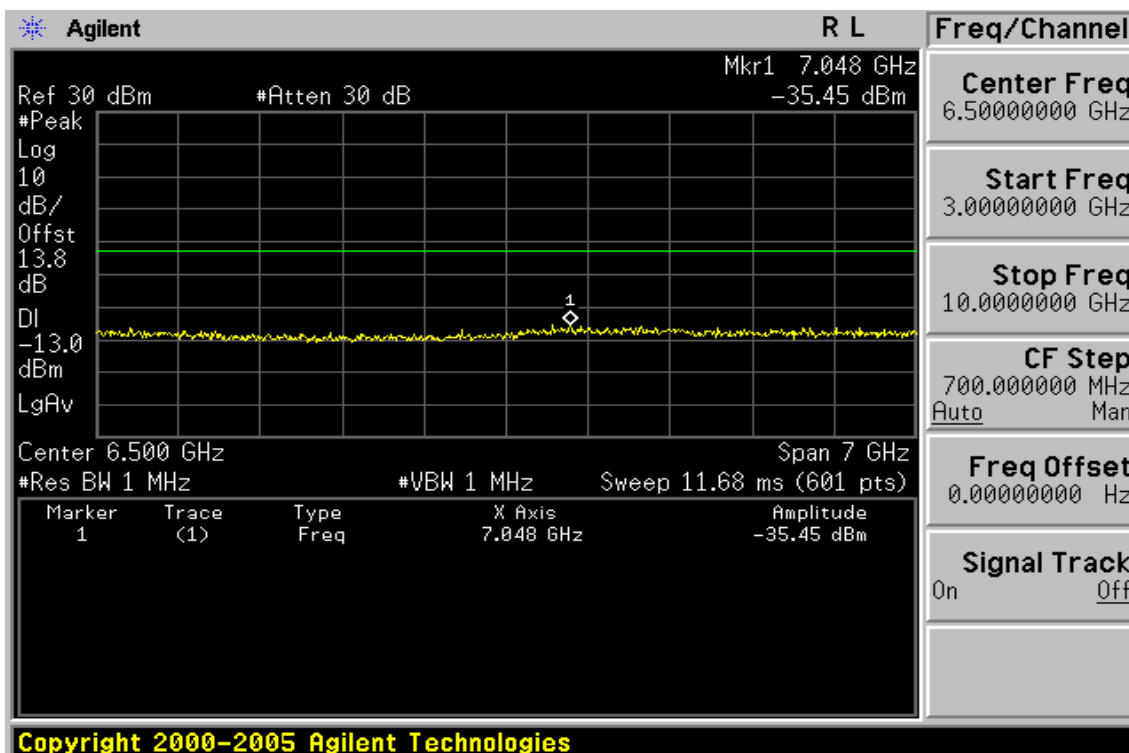
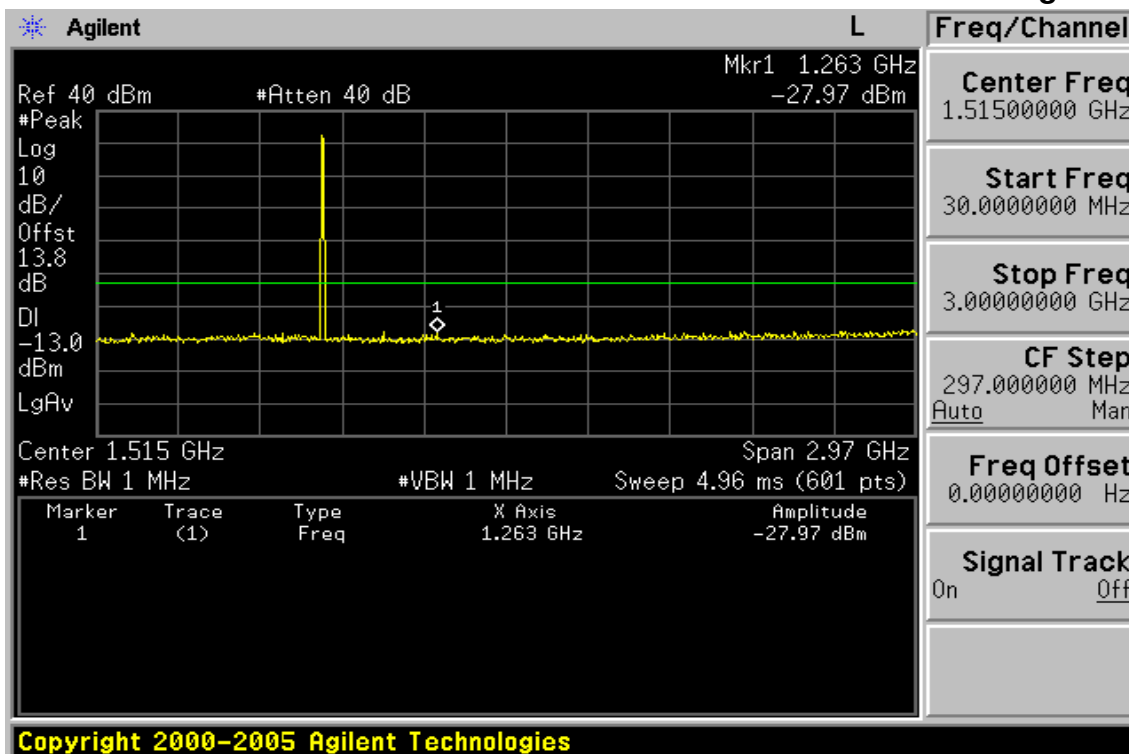
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Out of Band emission at antenna terminals – GPRS 850 Channel Highest



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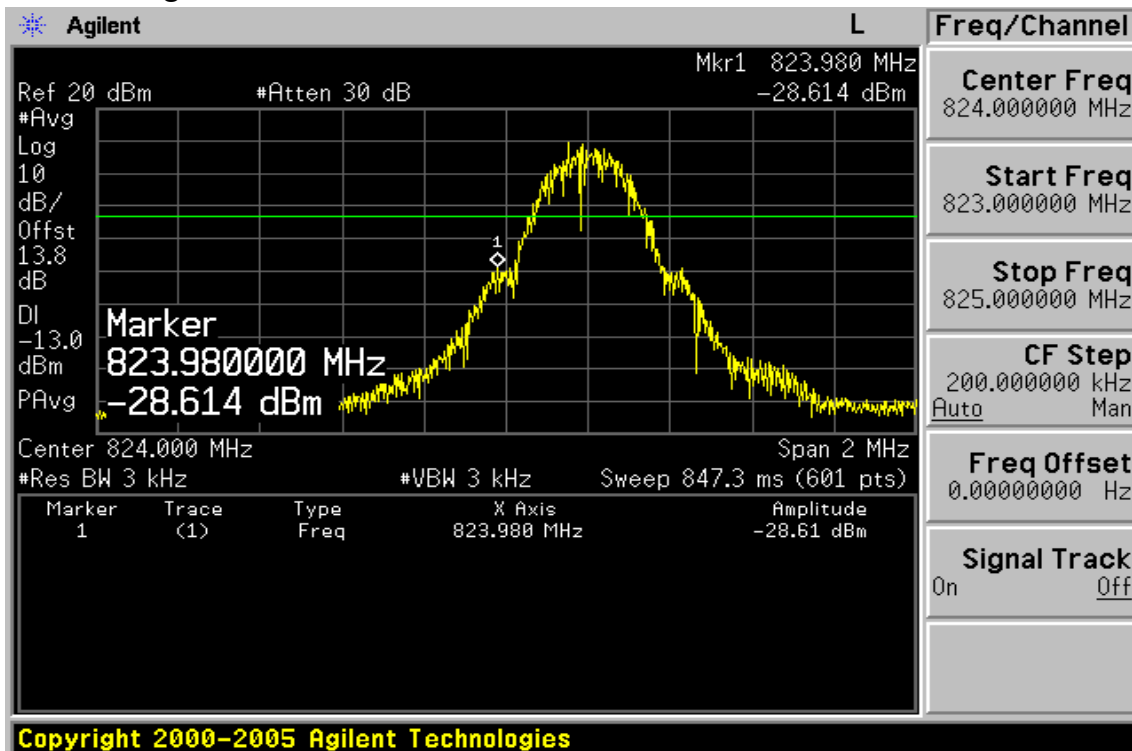
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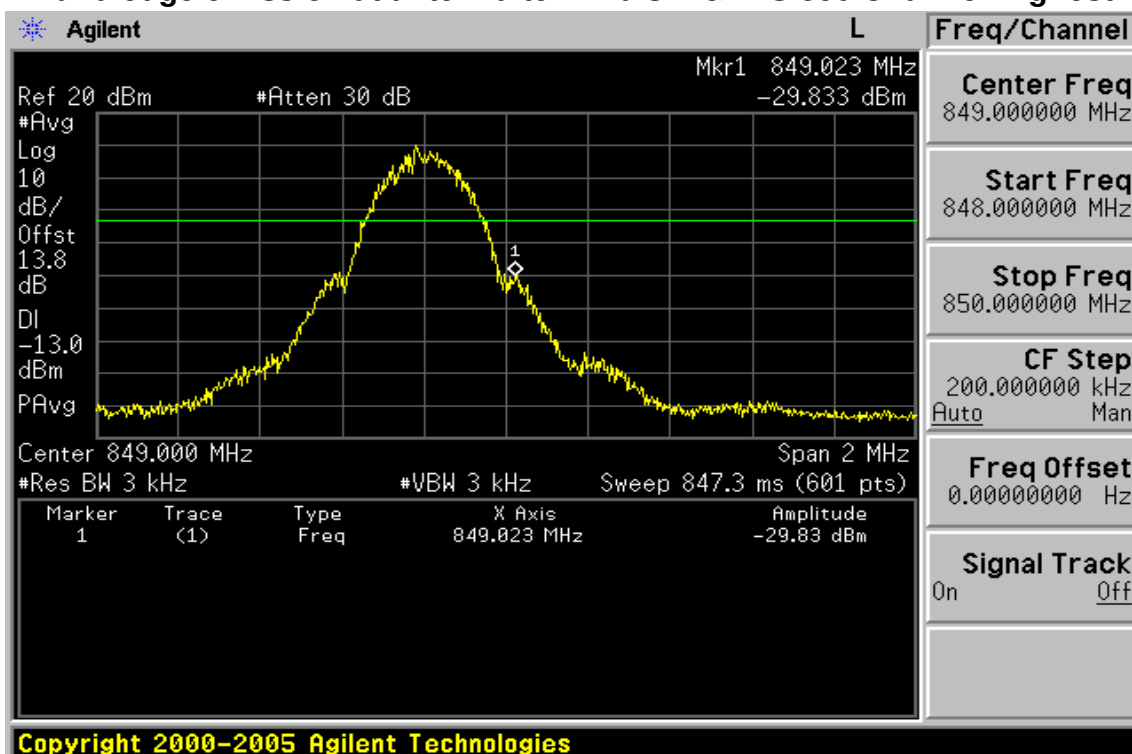
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Band edge emission at antenna terminals – GPRS 850 Channel Lowest



Band edge emission at antenna terminals – GPRS 850 Channel Highest



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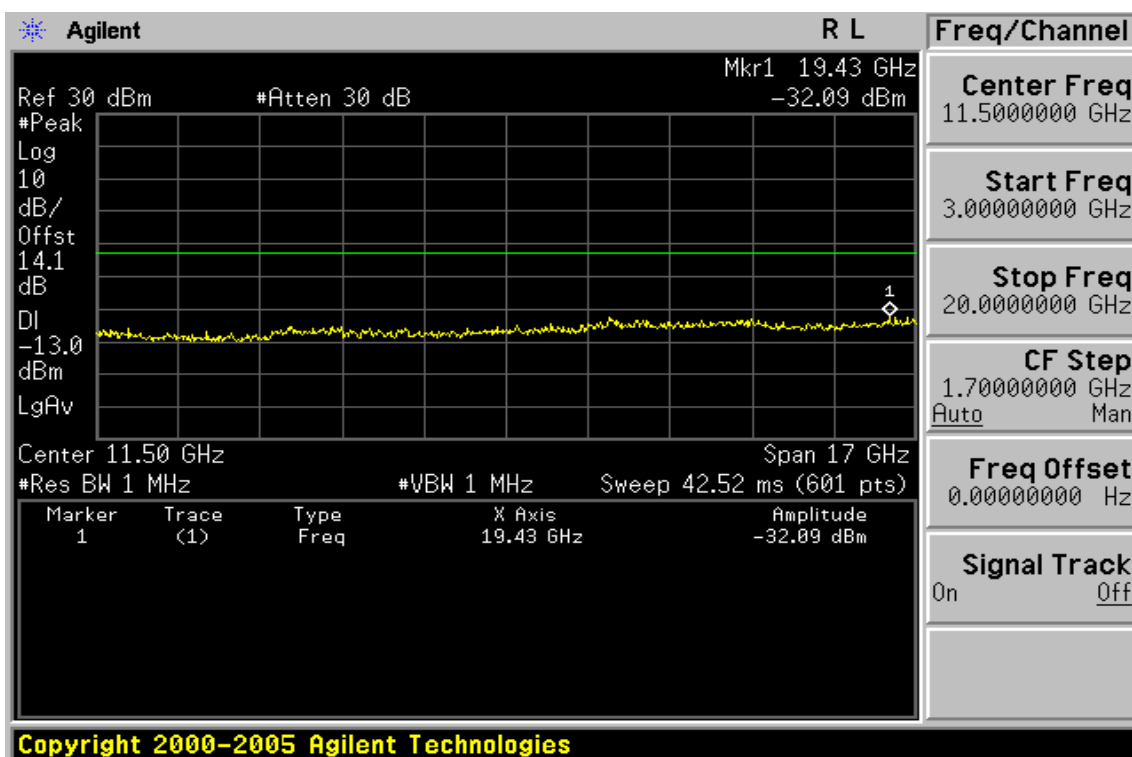
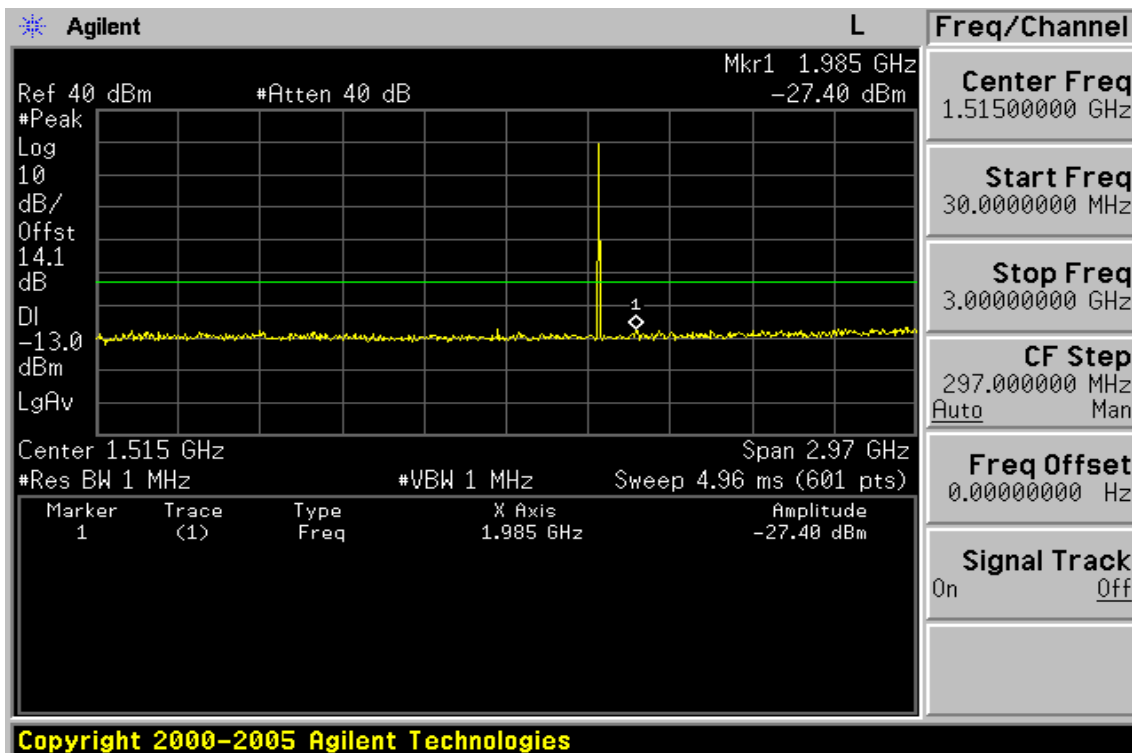
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Out of Band emission at antenna terminals – GPRS 1900 Channel Lowest



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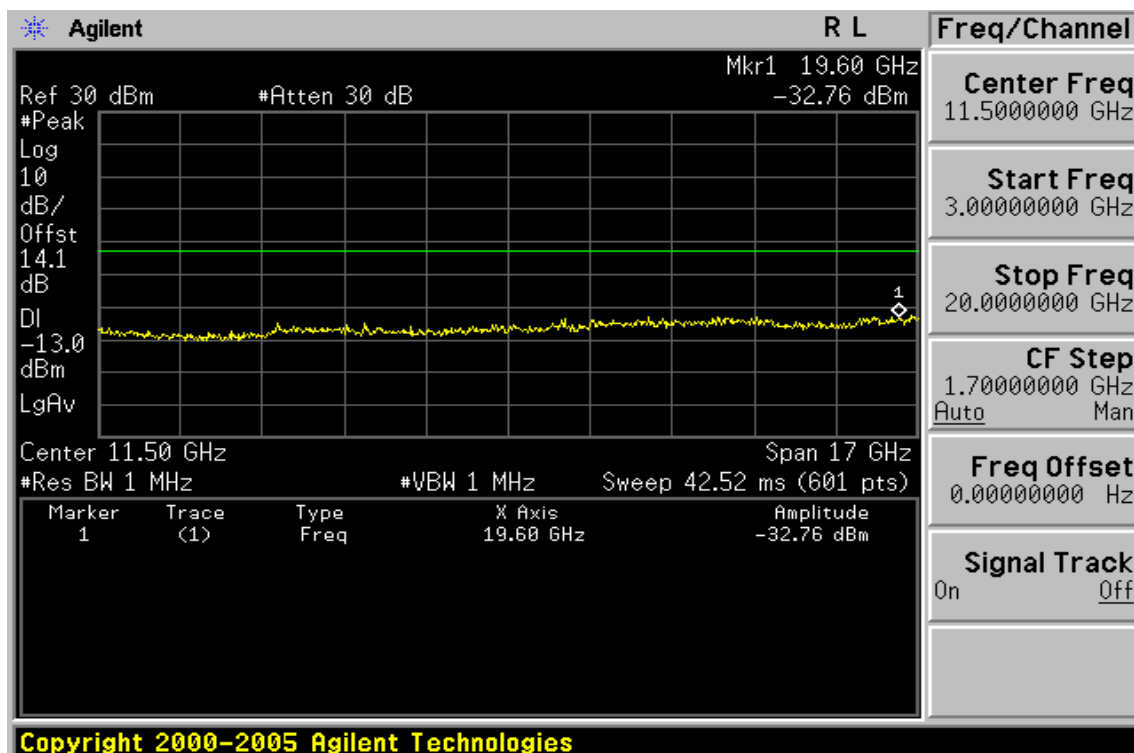
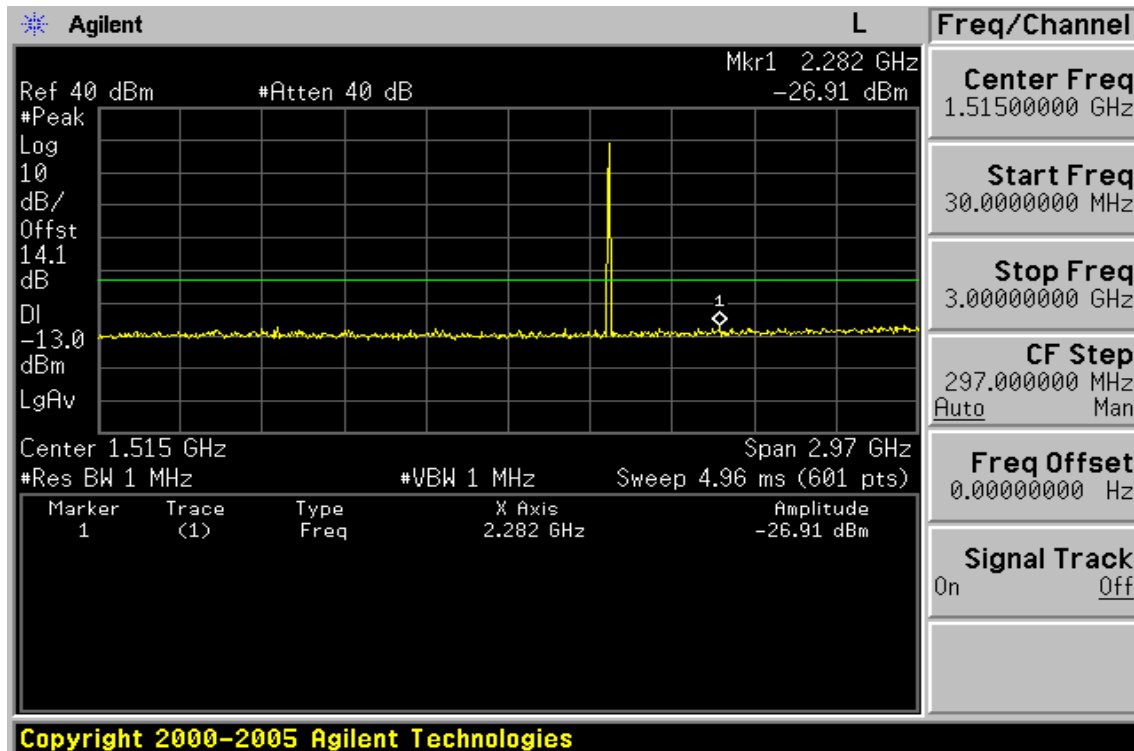
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Out of Band emission at antenna terminals – GPRS 1900 Channel Mid



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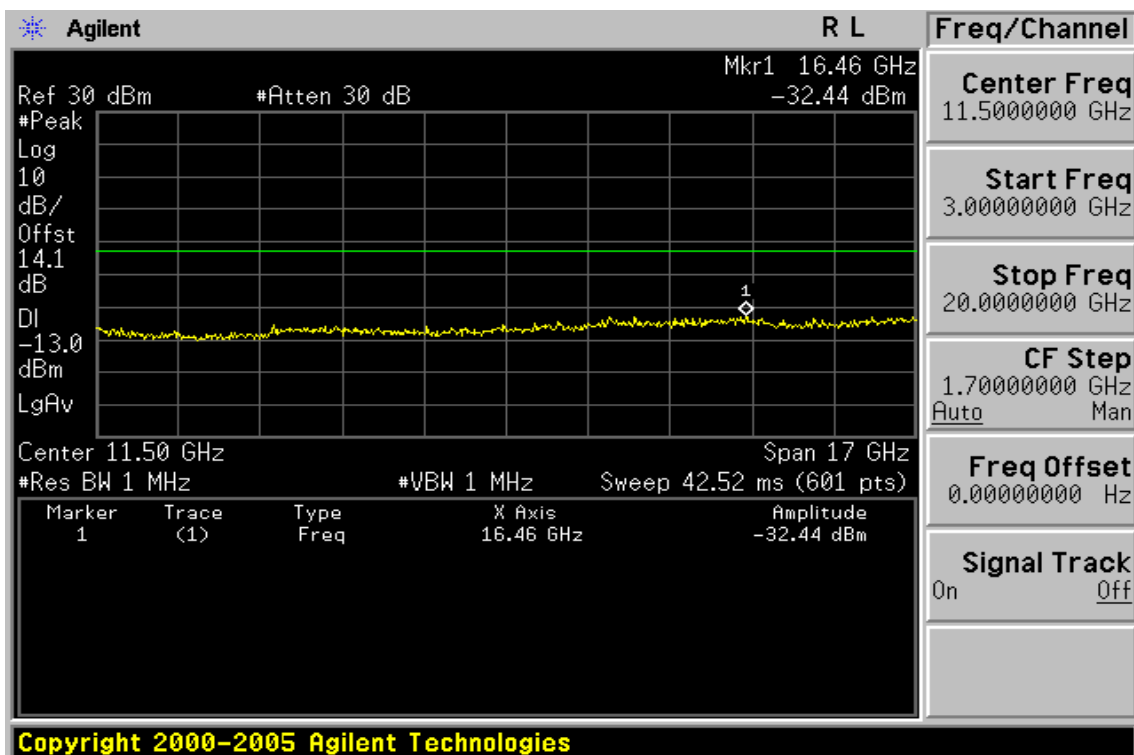
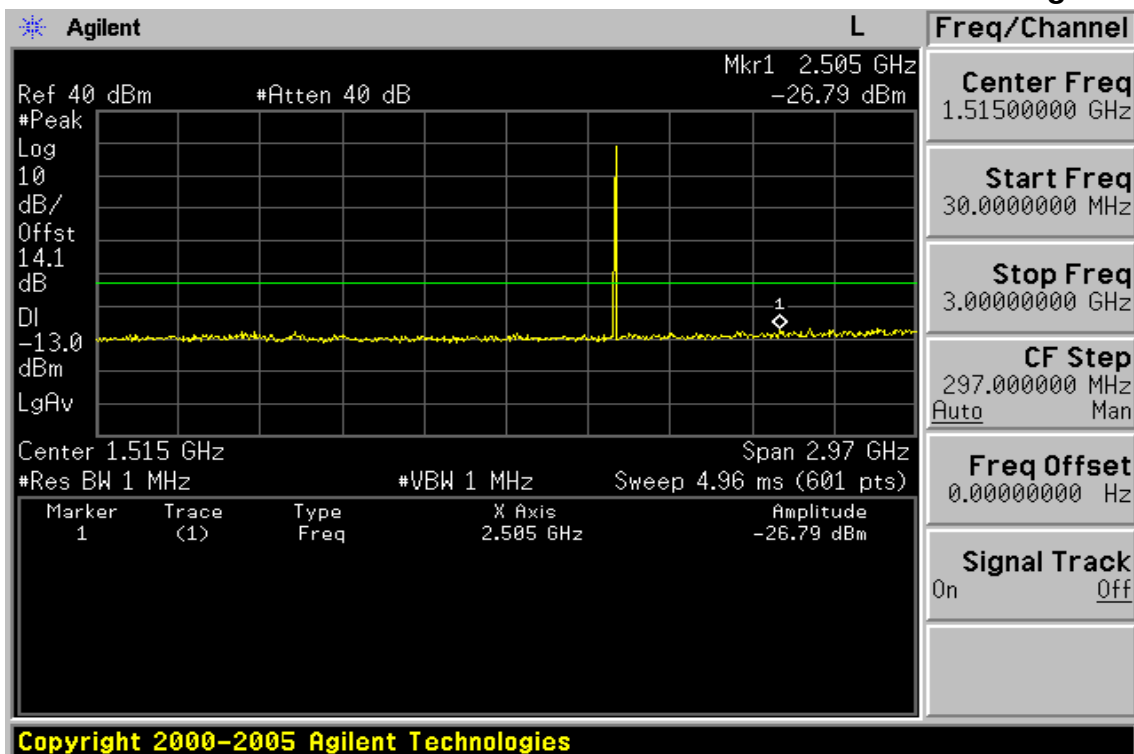
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Out of Band emission at antenna terminals – GPRS 1900 Channel Highest



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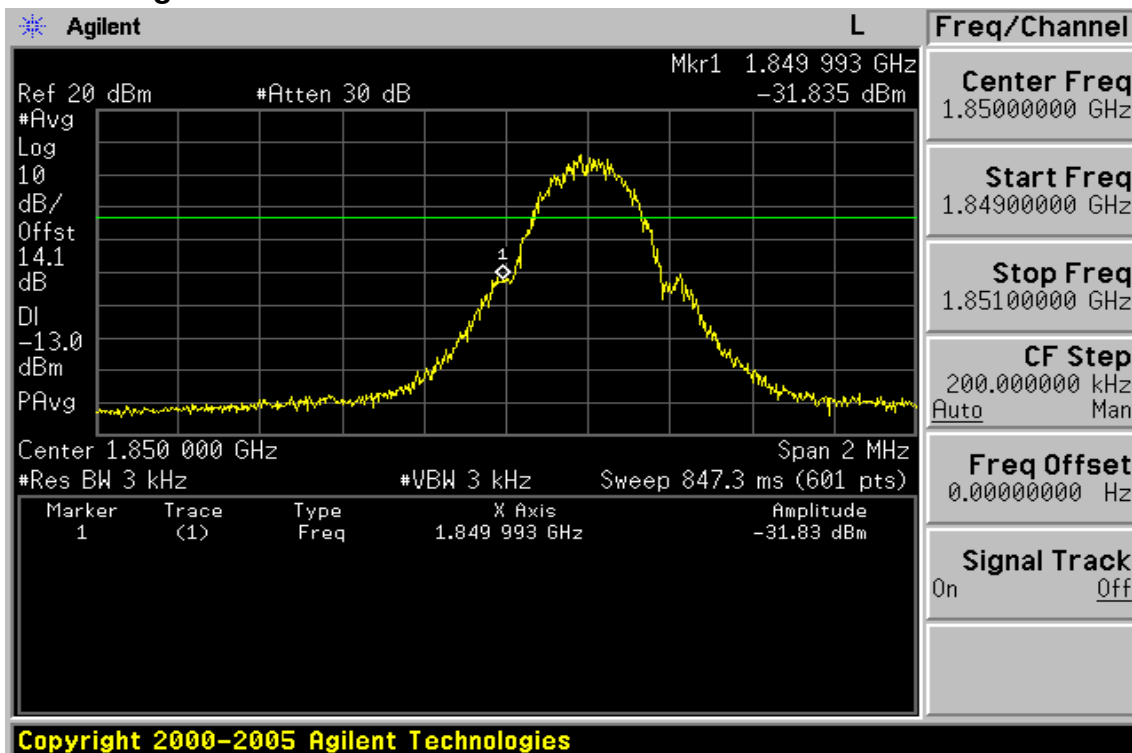
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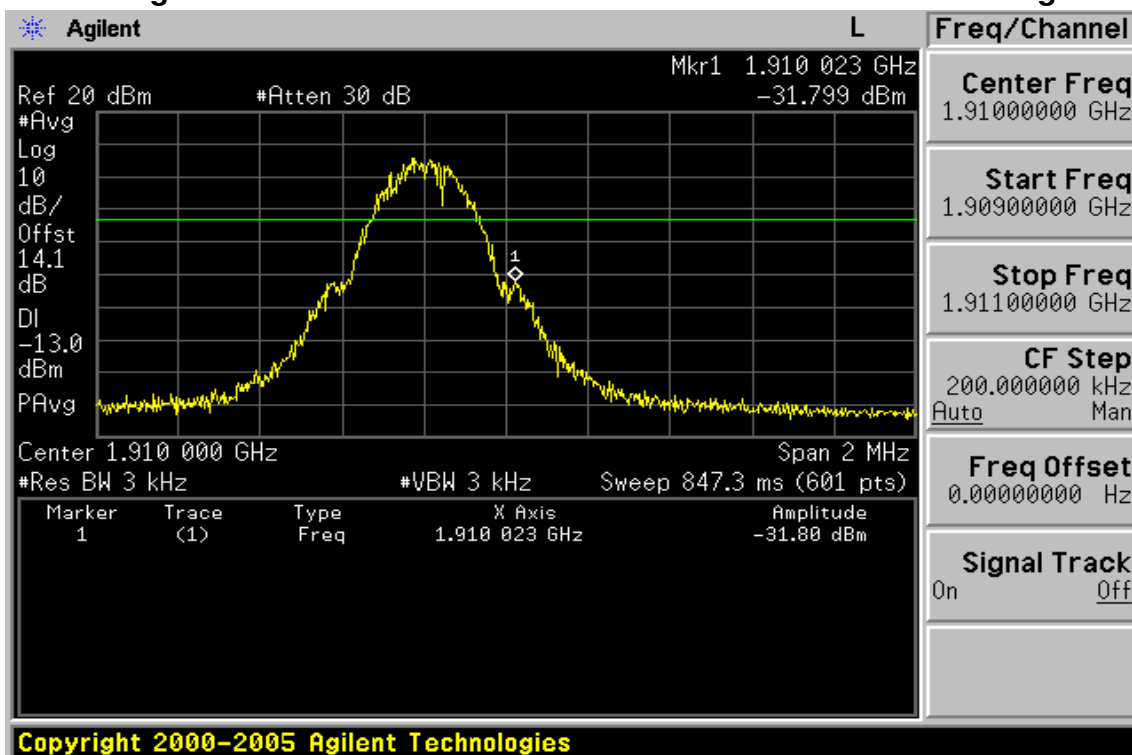
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Band edge emission at antenna terminals – GPRS 1900 Channel Lowest



Band edge emission at antenna terminals – GPRS 1900 Channel Highest



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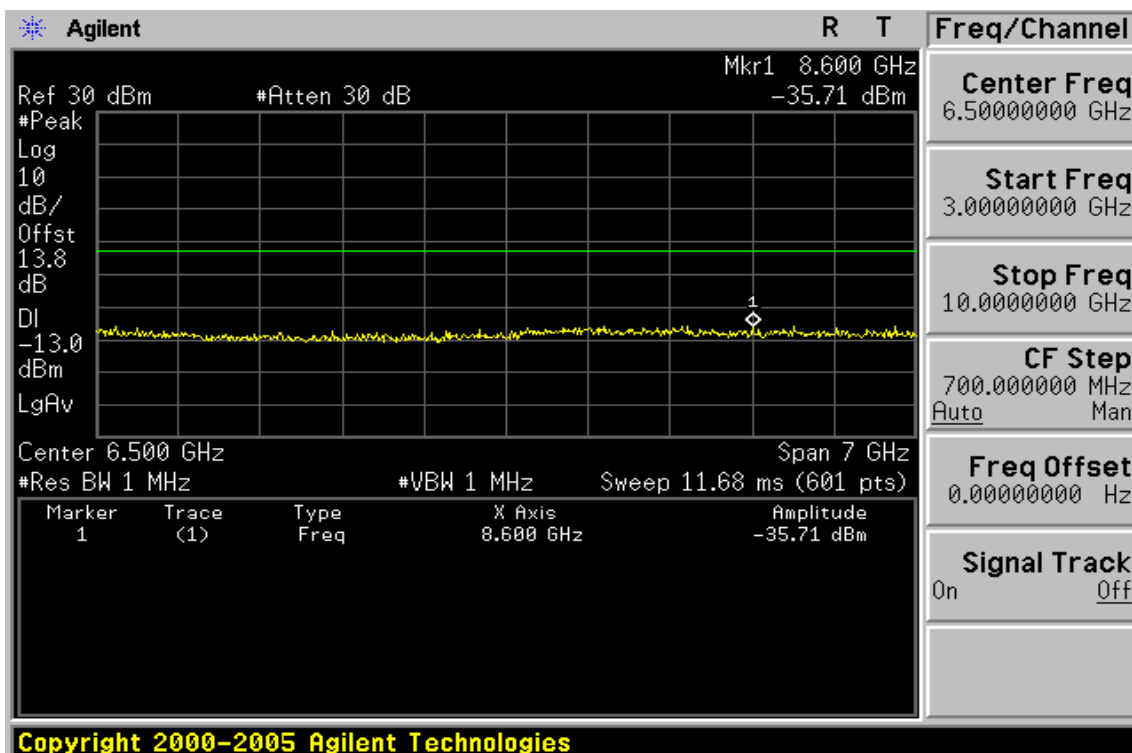
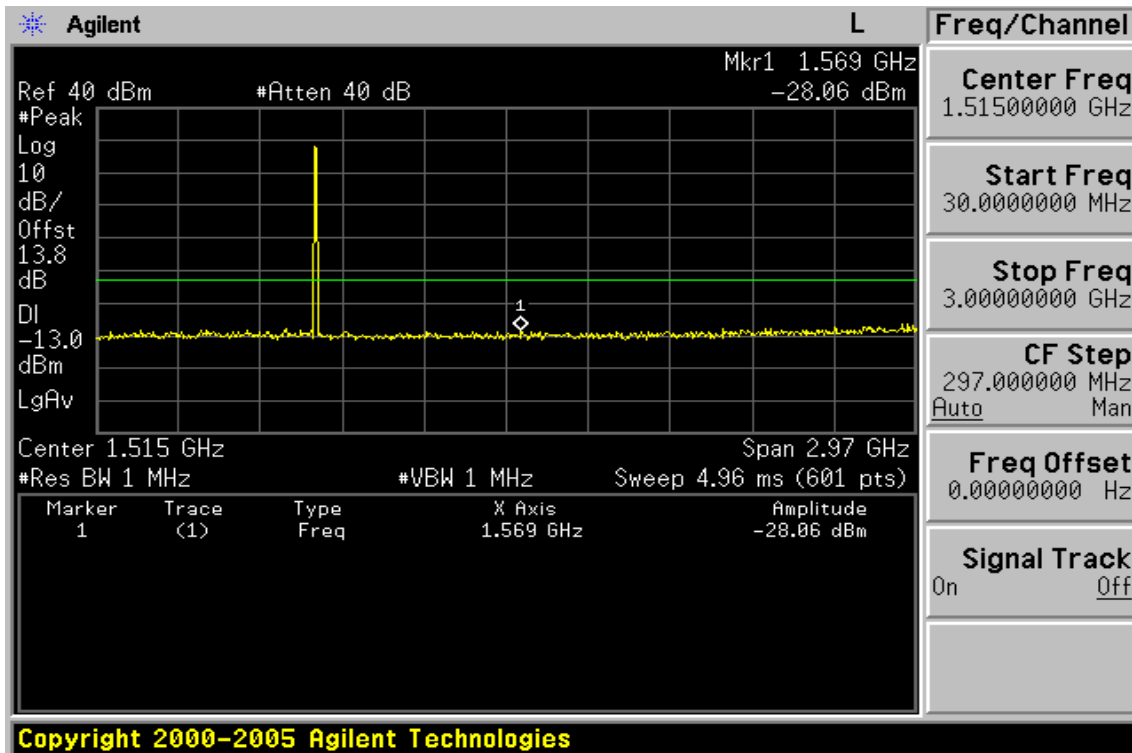
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Out of Band emission at antenna terminals – EDGE 850 Channel Lowest



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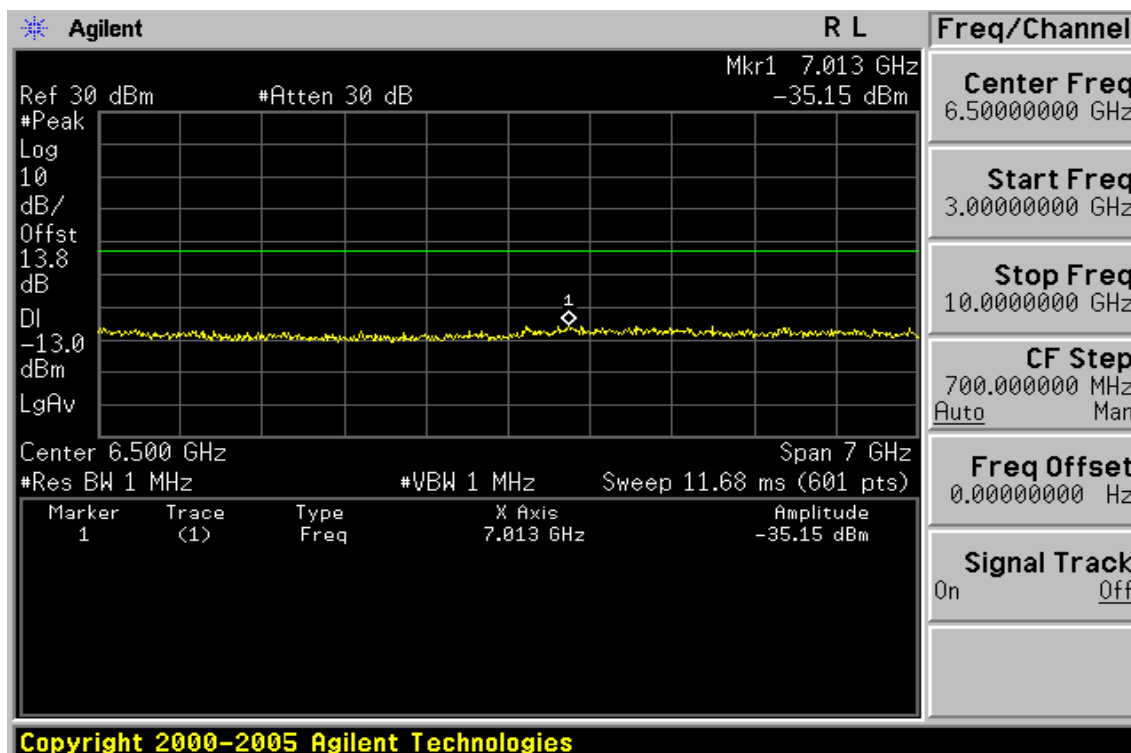
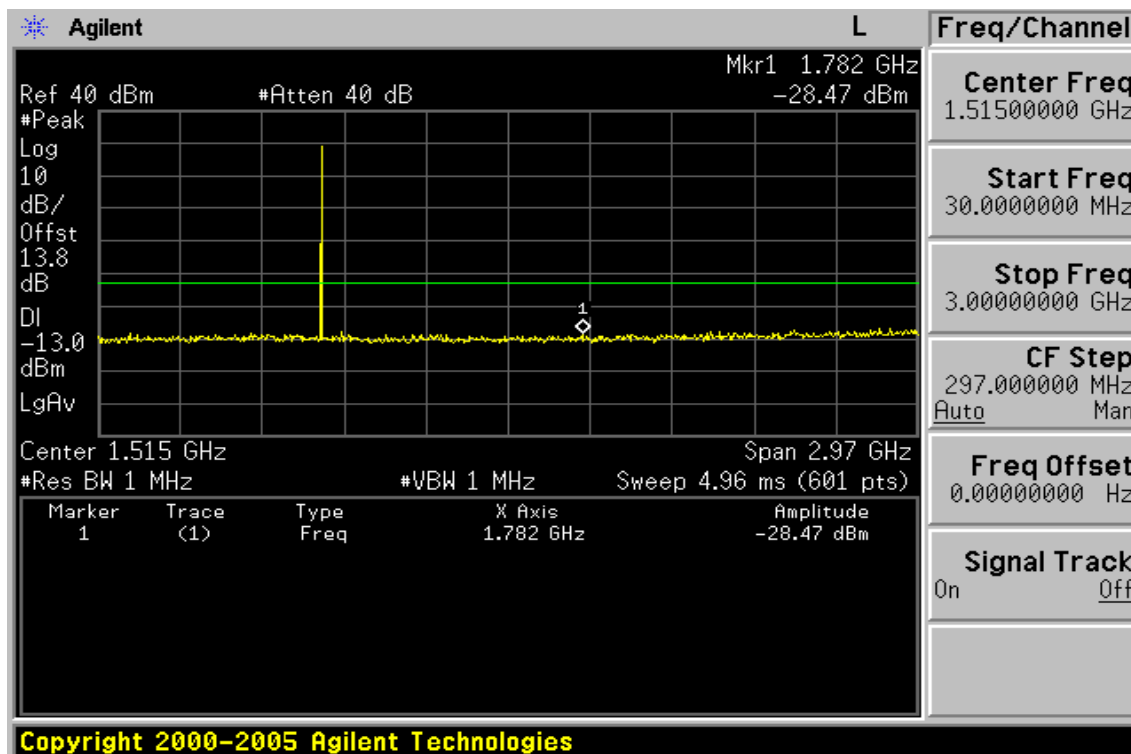
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Out of Band emission at antenna terminals – EDGE 850 Channel Mid



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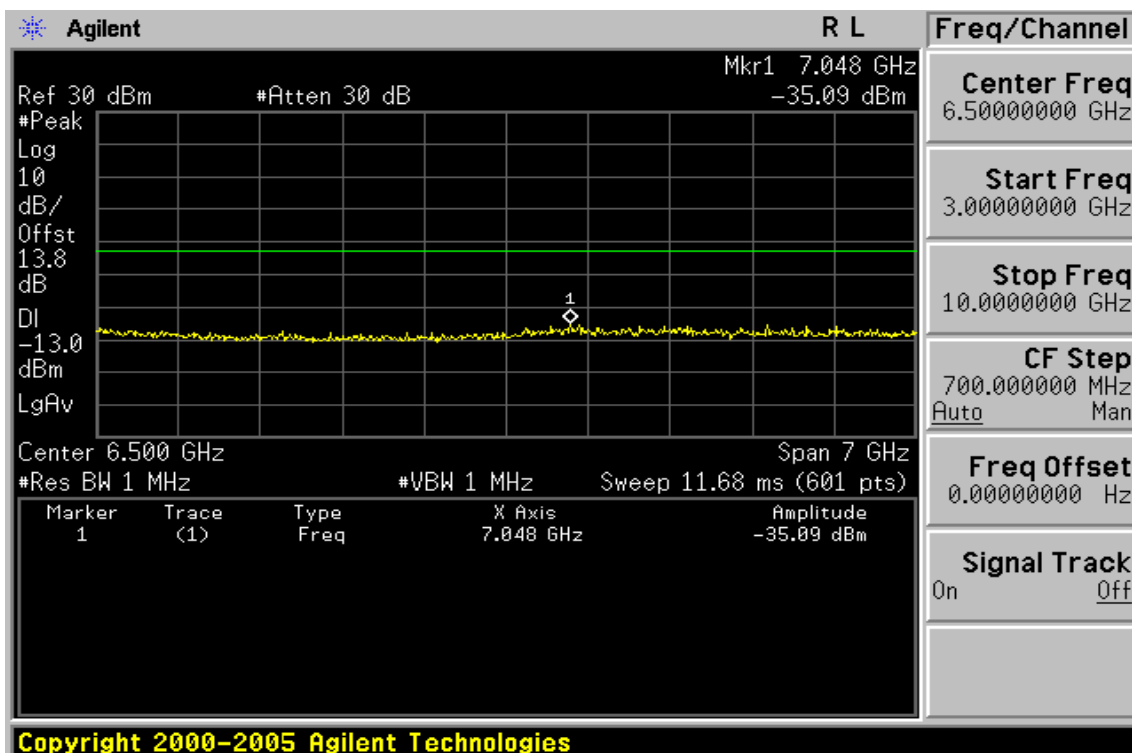
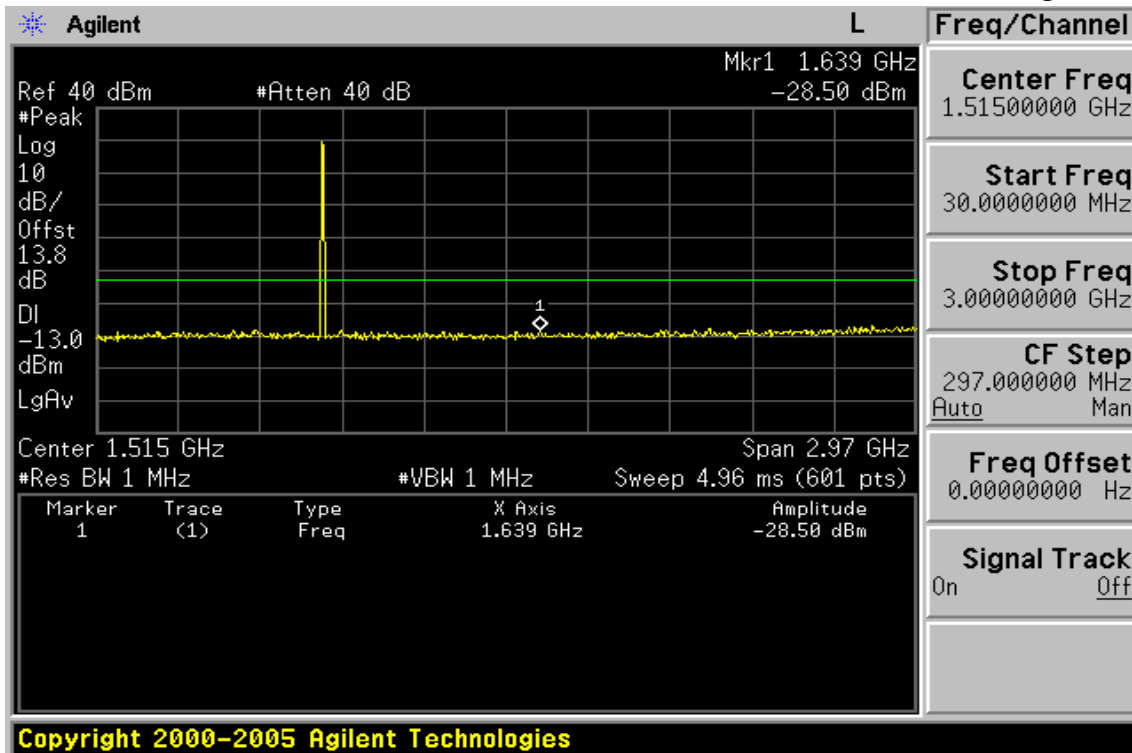
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Out of Band emission at antenna terminals – EDGE 850 Channel Highest



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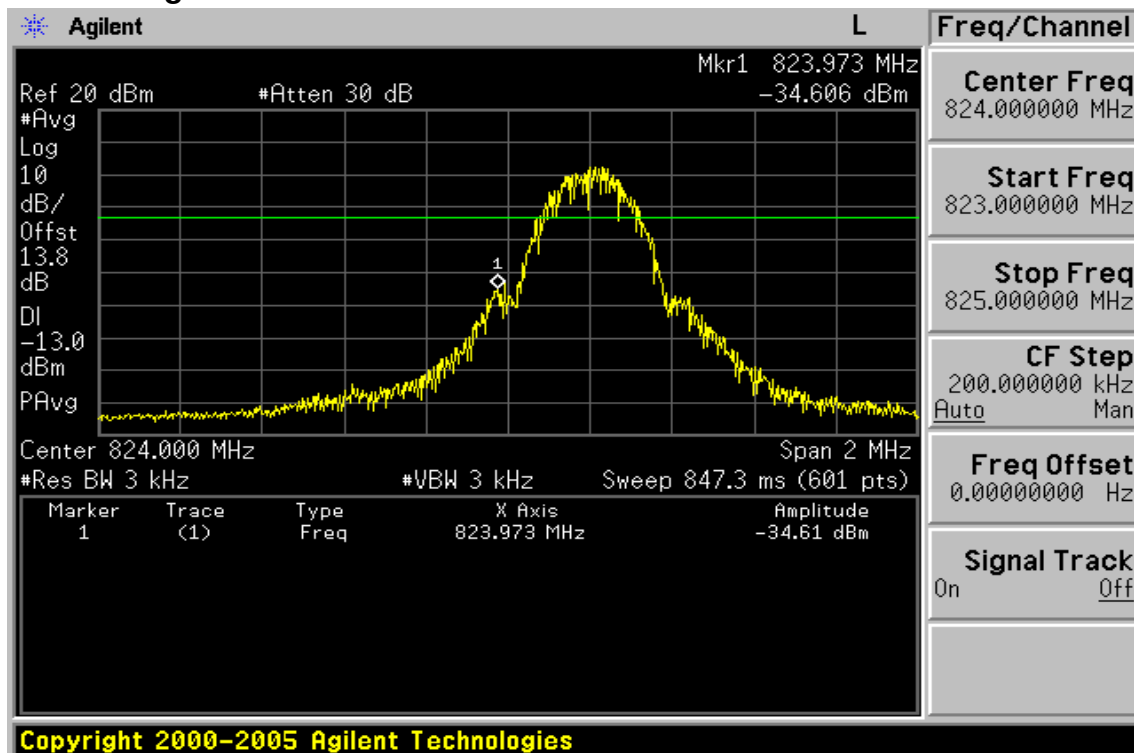
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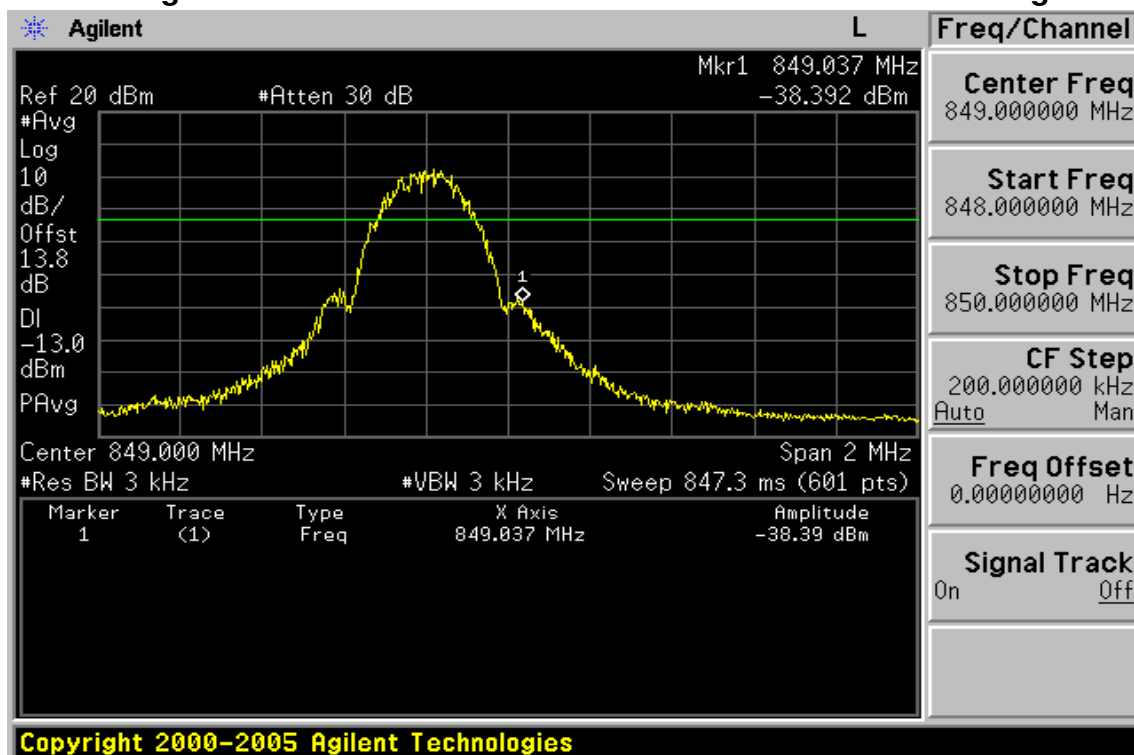
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Band edge emission at antenna terminals – EDGE 850 Channel Lowest



Band edge emission at antenna terminals – EDGE 850 Channel Highest



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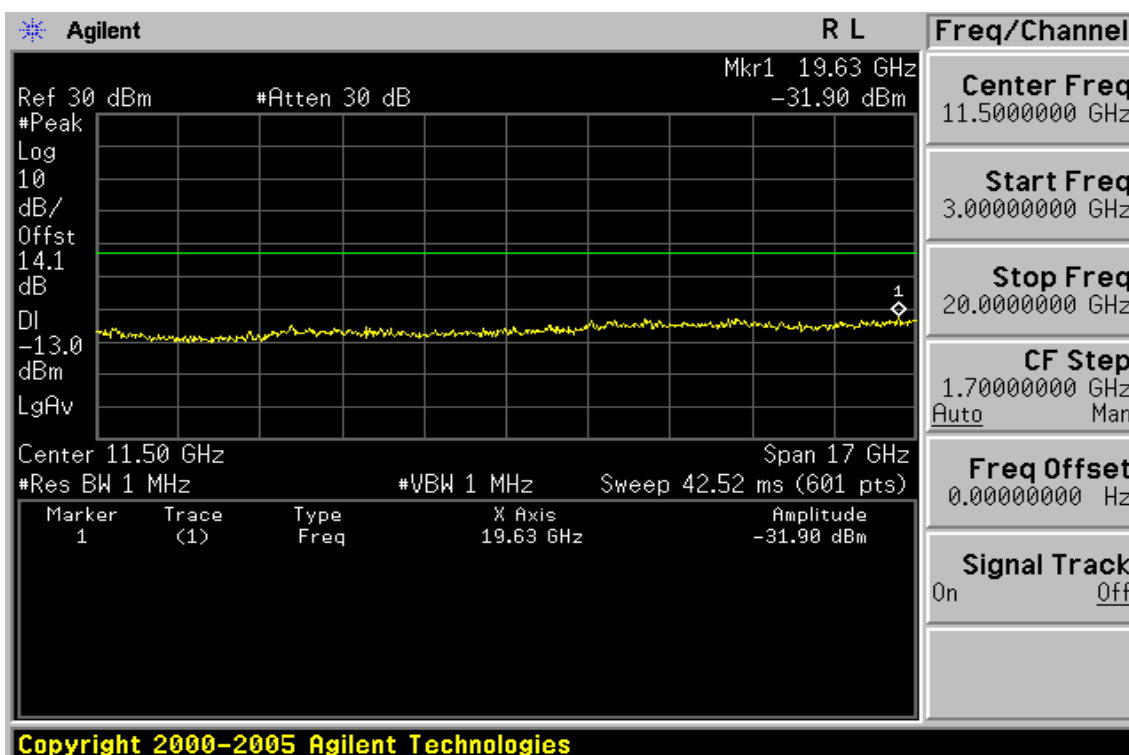
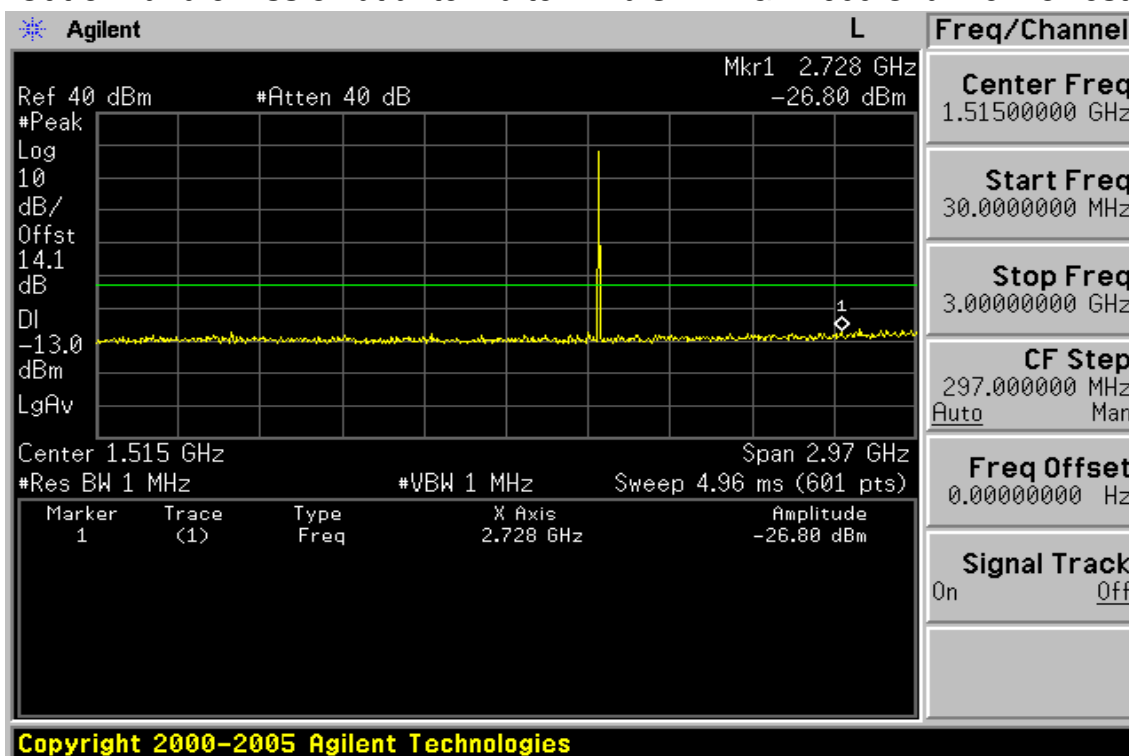
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Out of Band emission at antenna terminals – EDGE 1900 Channel Lowest



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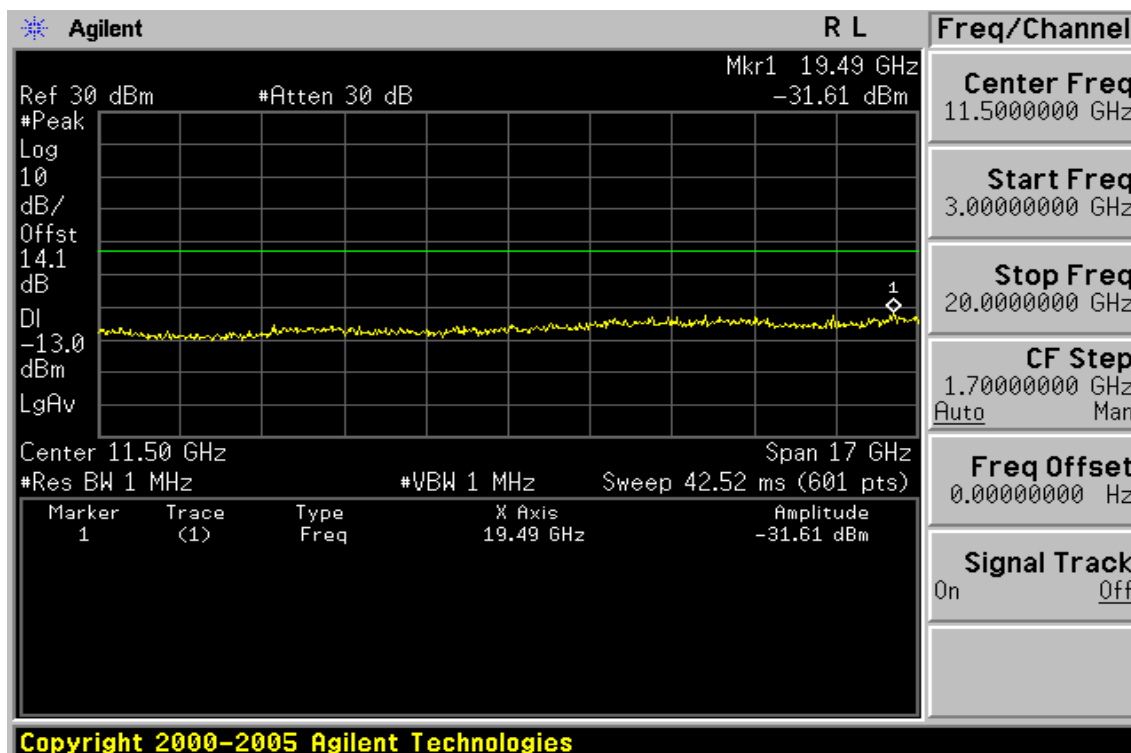
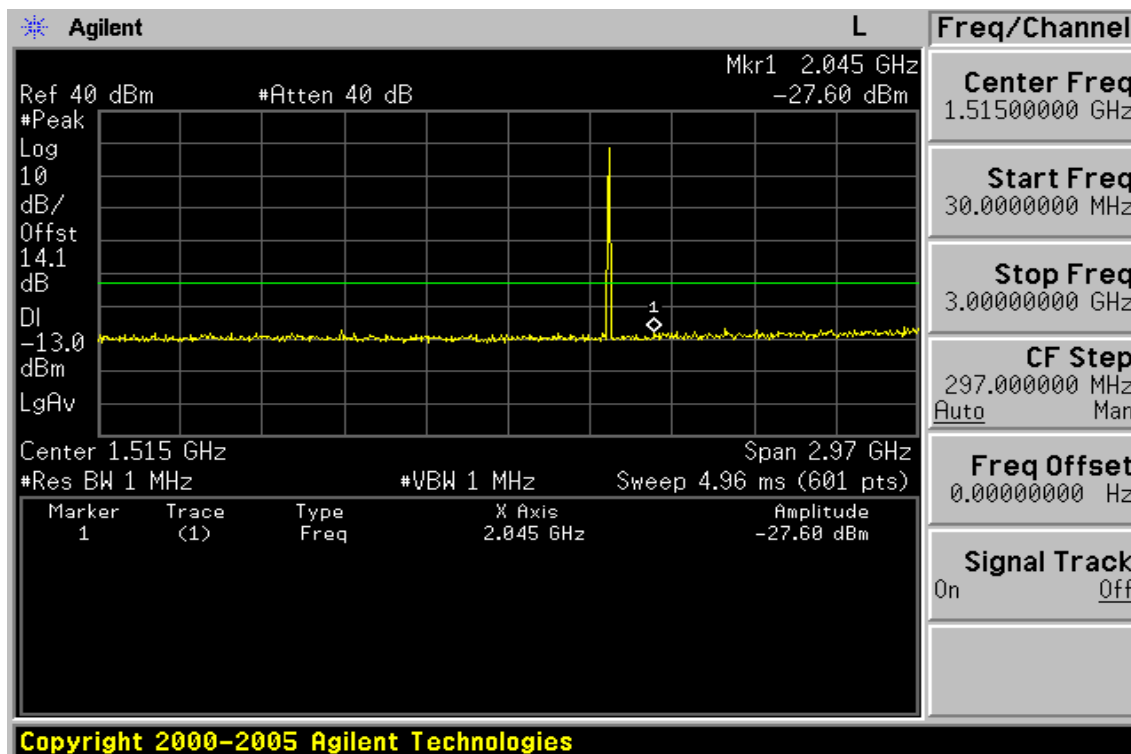
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Out of Band emission at antenna terminals – EDGE 1900 Channel Mid



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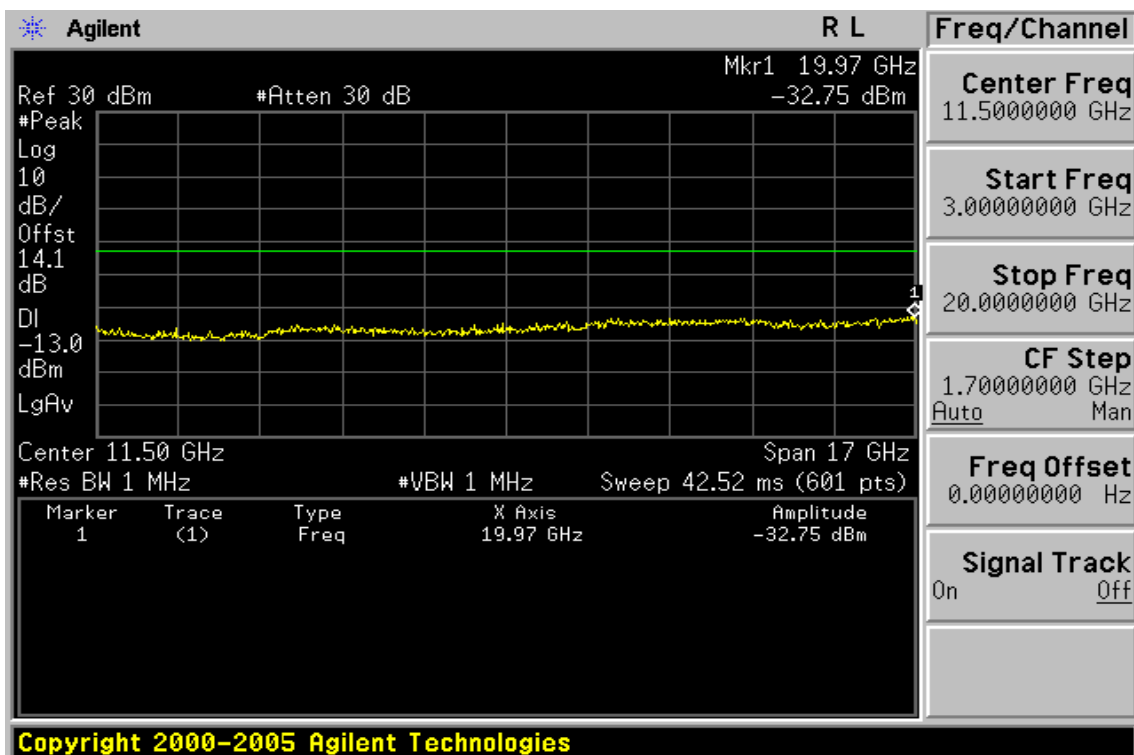
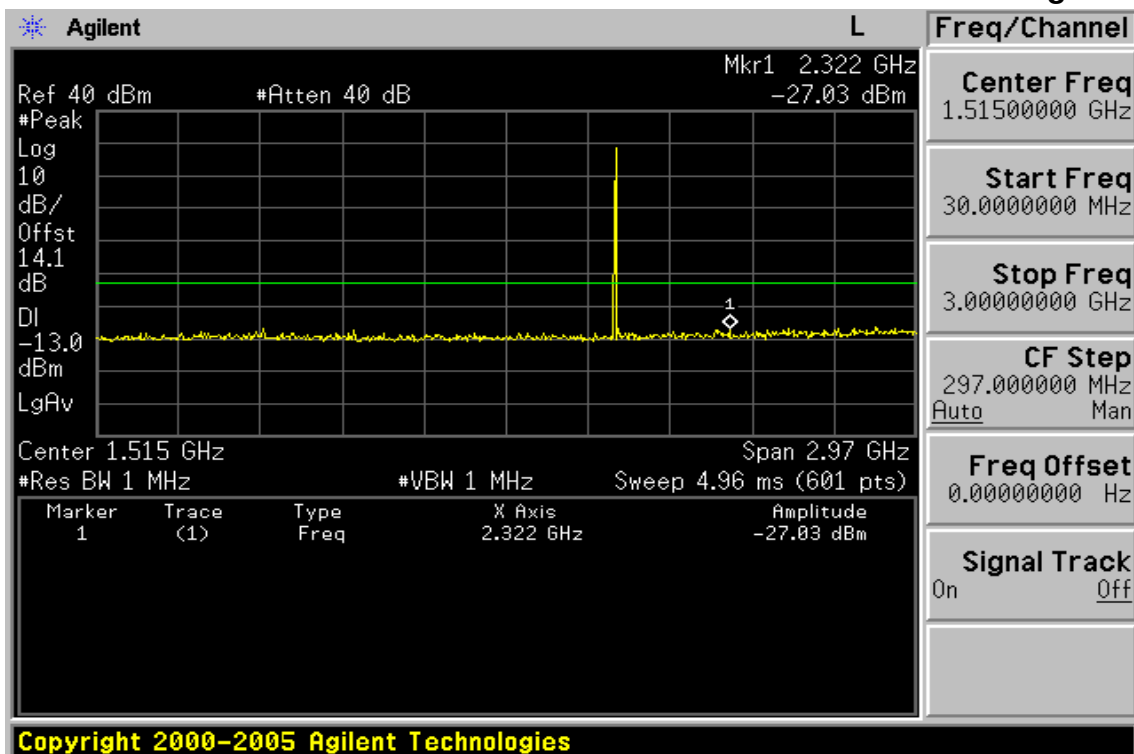
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Out of Band emission at antenna terminals – EDGE 1900 Channel Highest



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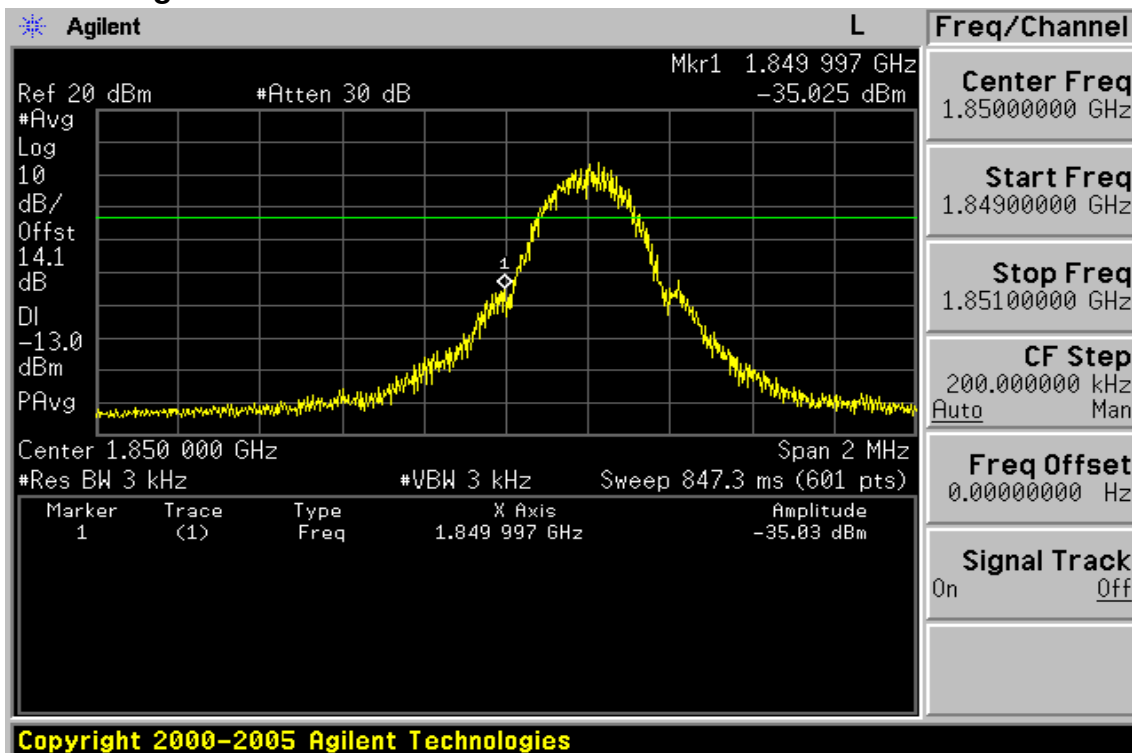
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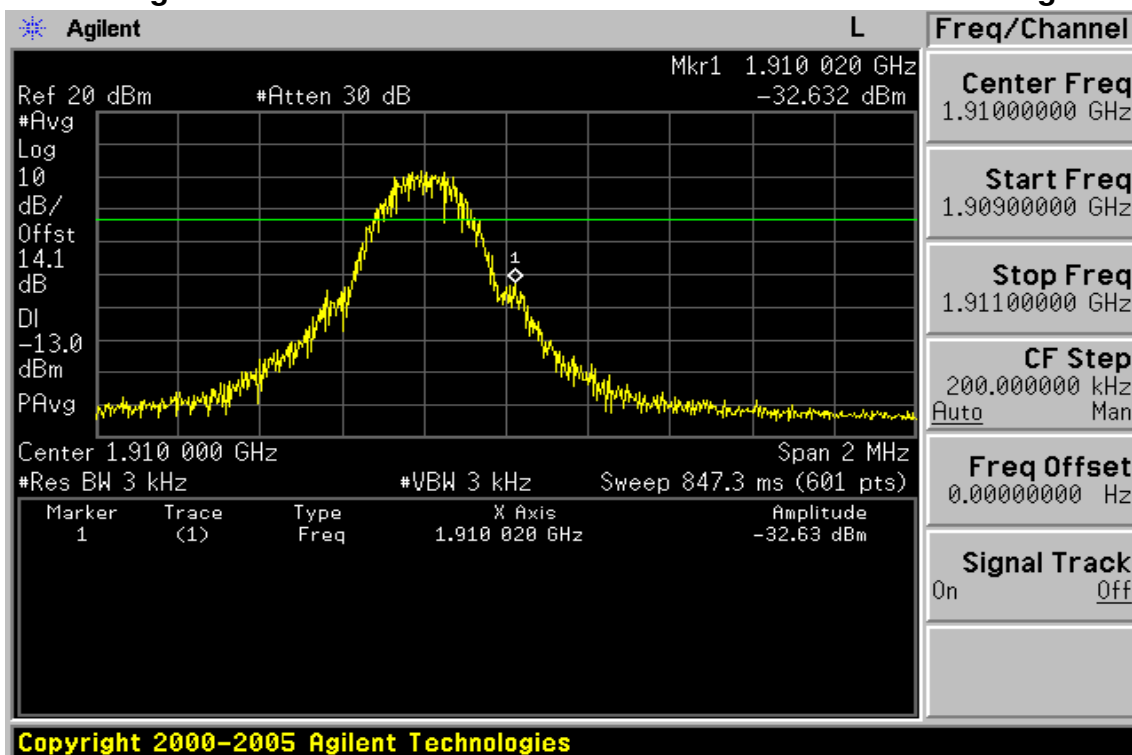
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Band edge emission at antenna terminals – EDGE 1900 Channel Lowest



Band edge emission at antenna terminals – EDGE 1900 Channel Highest



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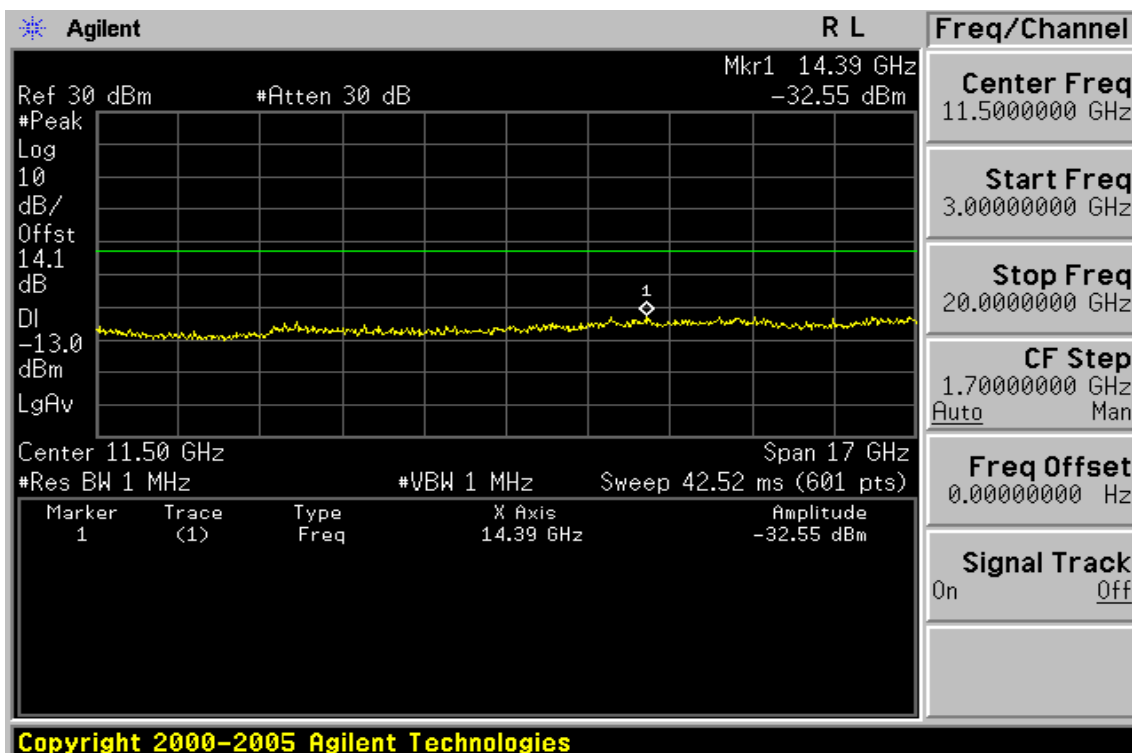
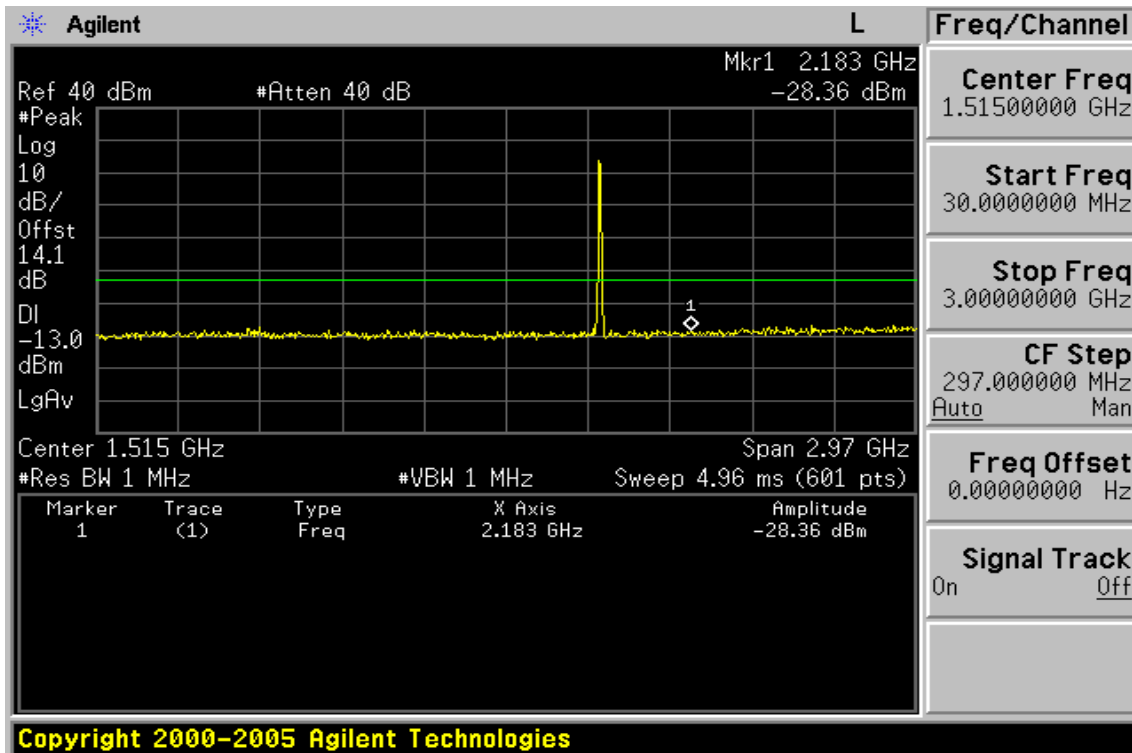
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Out of Band emission at antenna terminals – WCDMA II Channel Lowest



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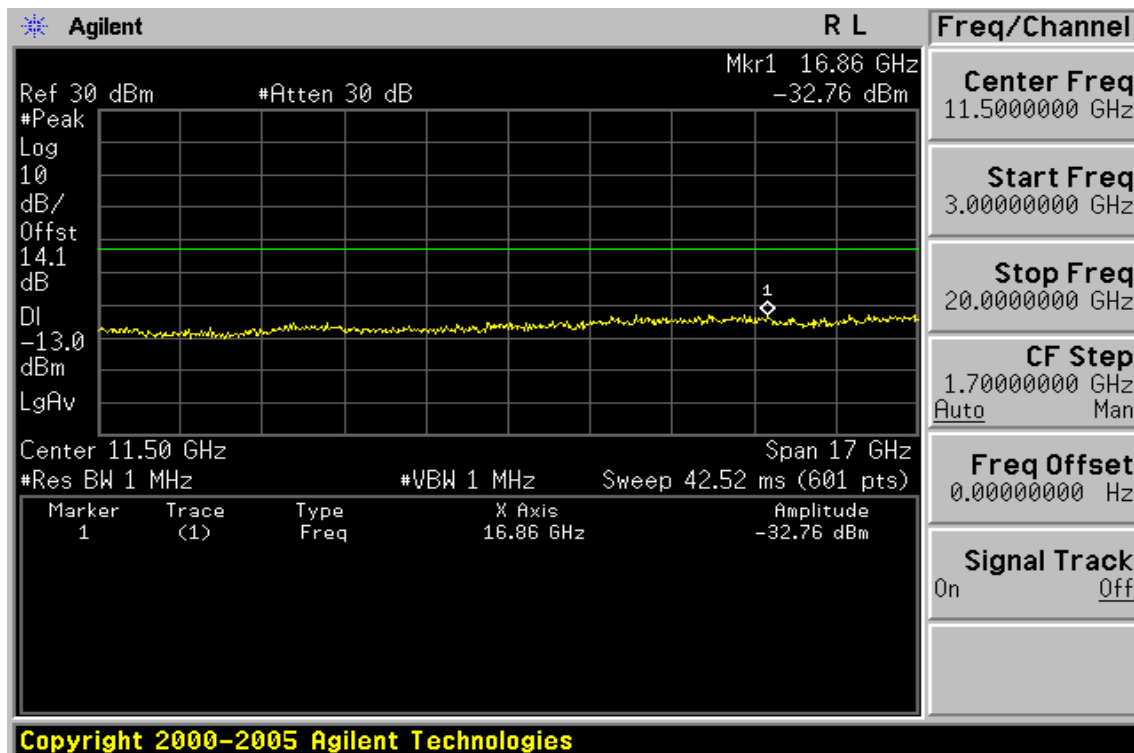
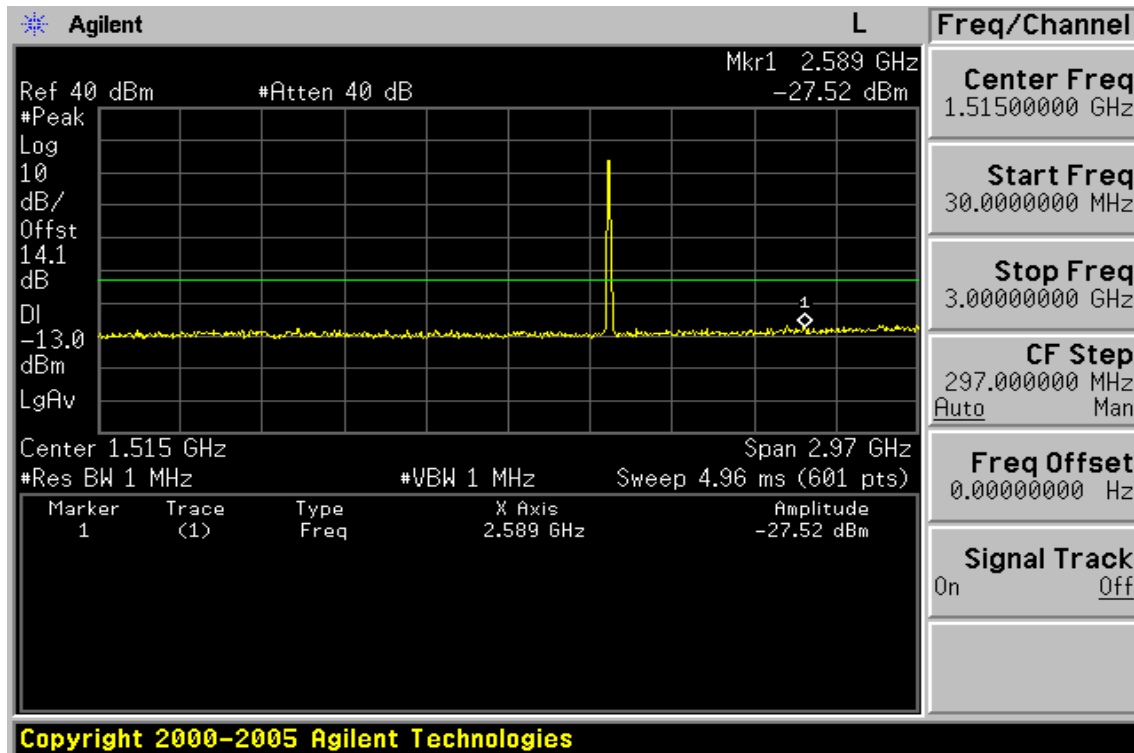
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Out of Band emission at antenna terminals – WCDMA II Channel Mid



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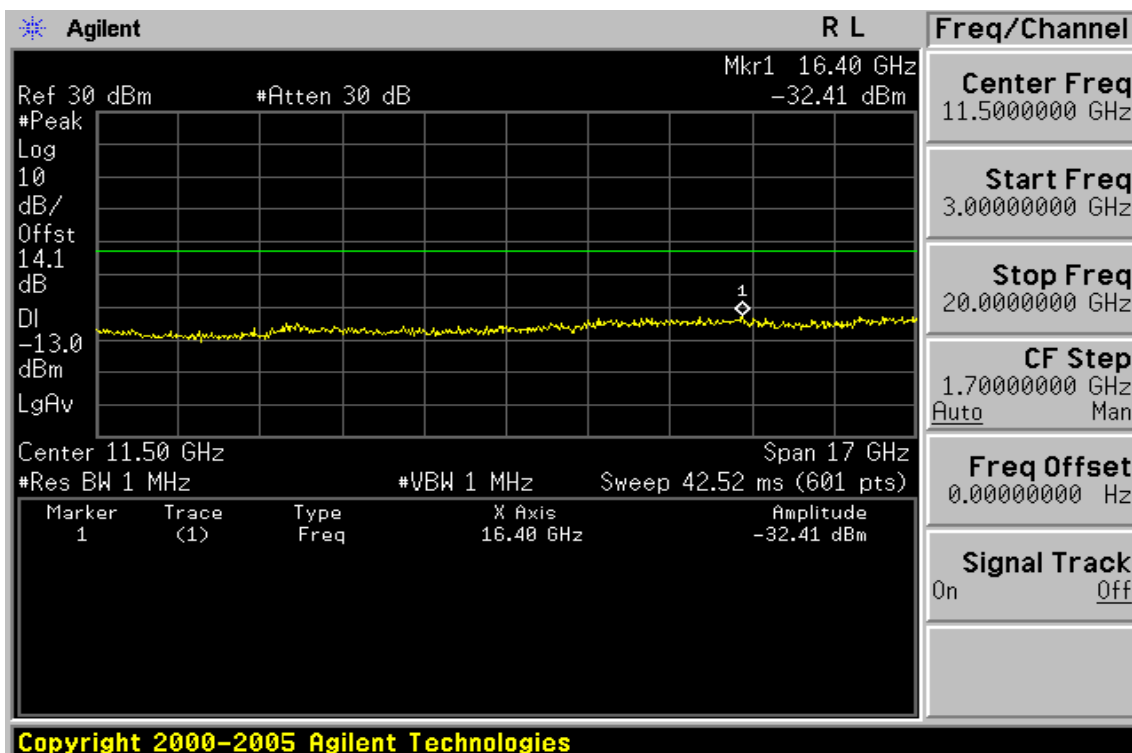
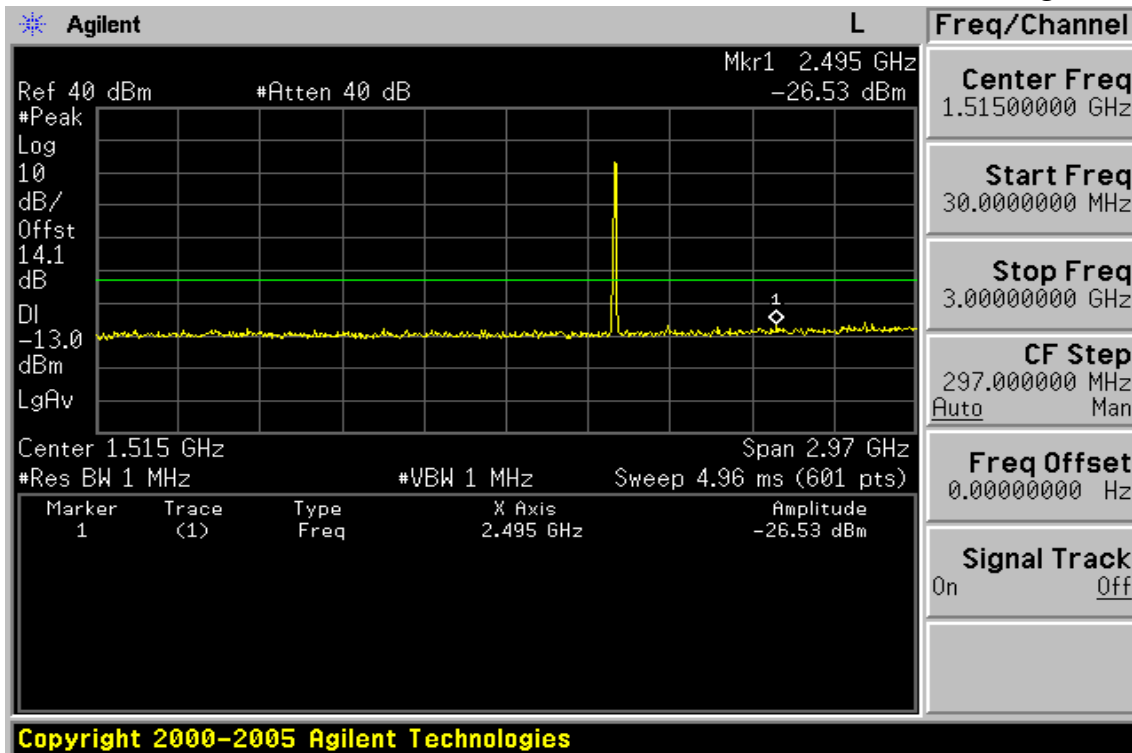
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Out of Band emission at antenna terminals – WCDMA II Channel Highest



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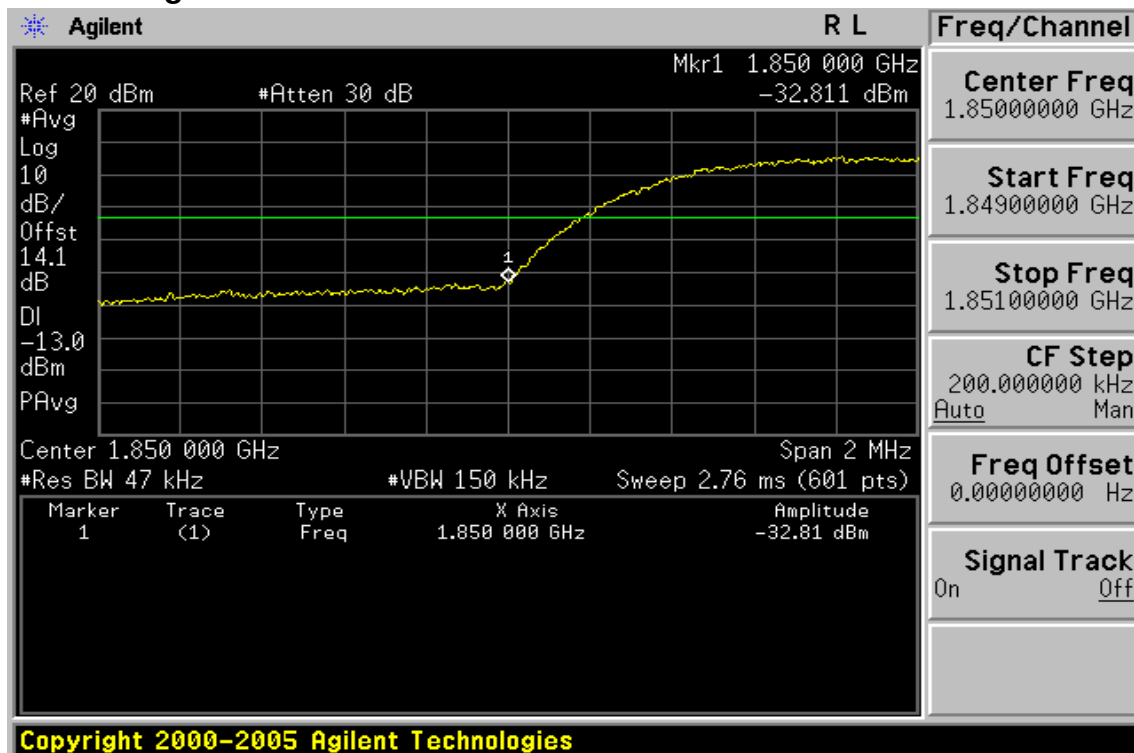
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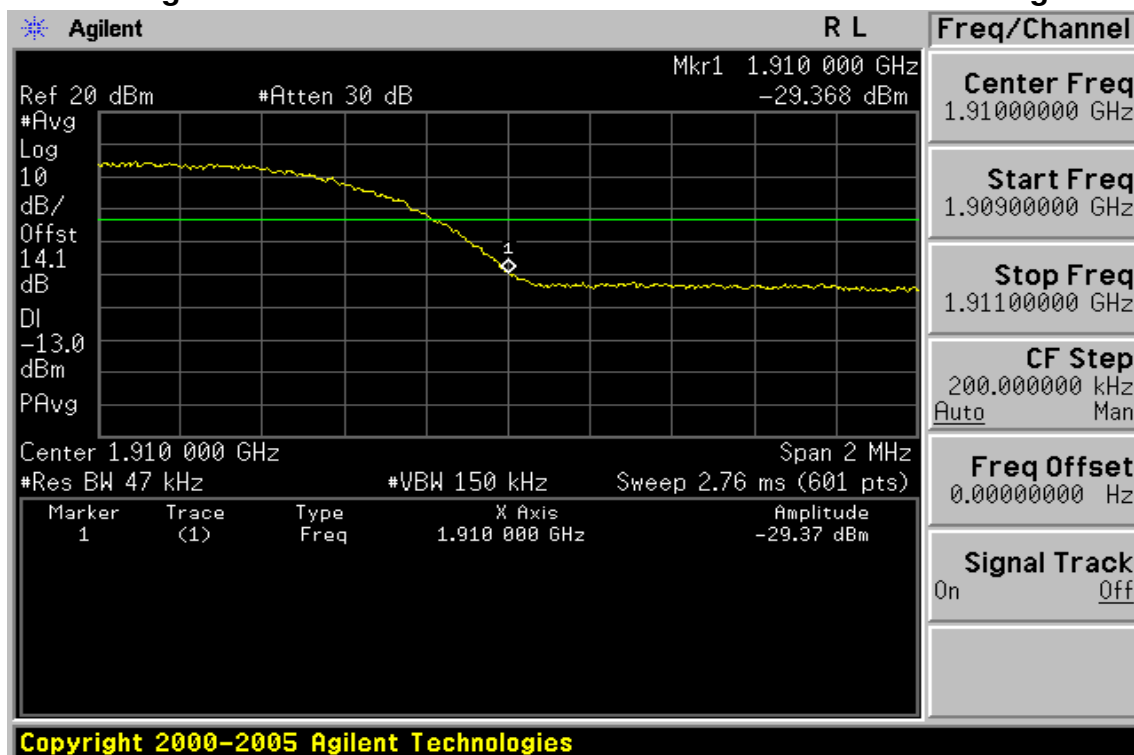
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Band edge emission at antenna terminals – WCDMA II Channel Lowest



Band edge emission at antenna terminals – WCDMA II Channel Highest



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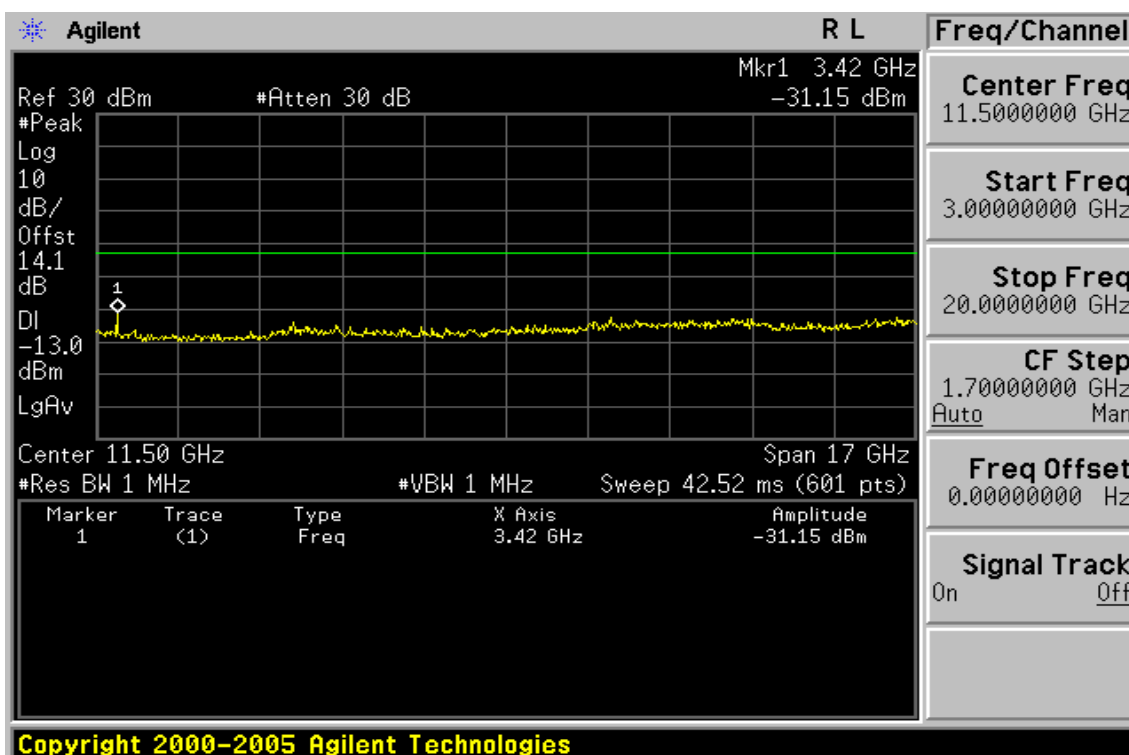
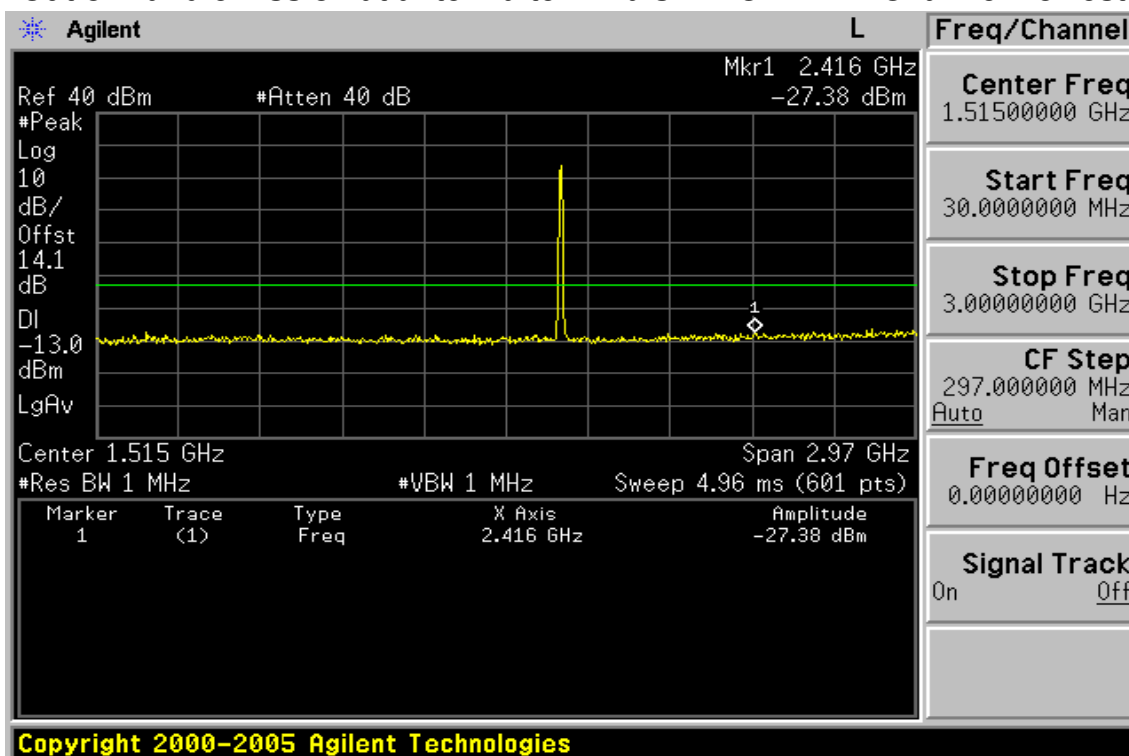
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Out of Band emission at antenna terminals – WCDMA IV Channel Lowest



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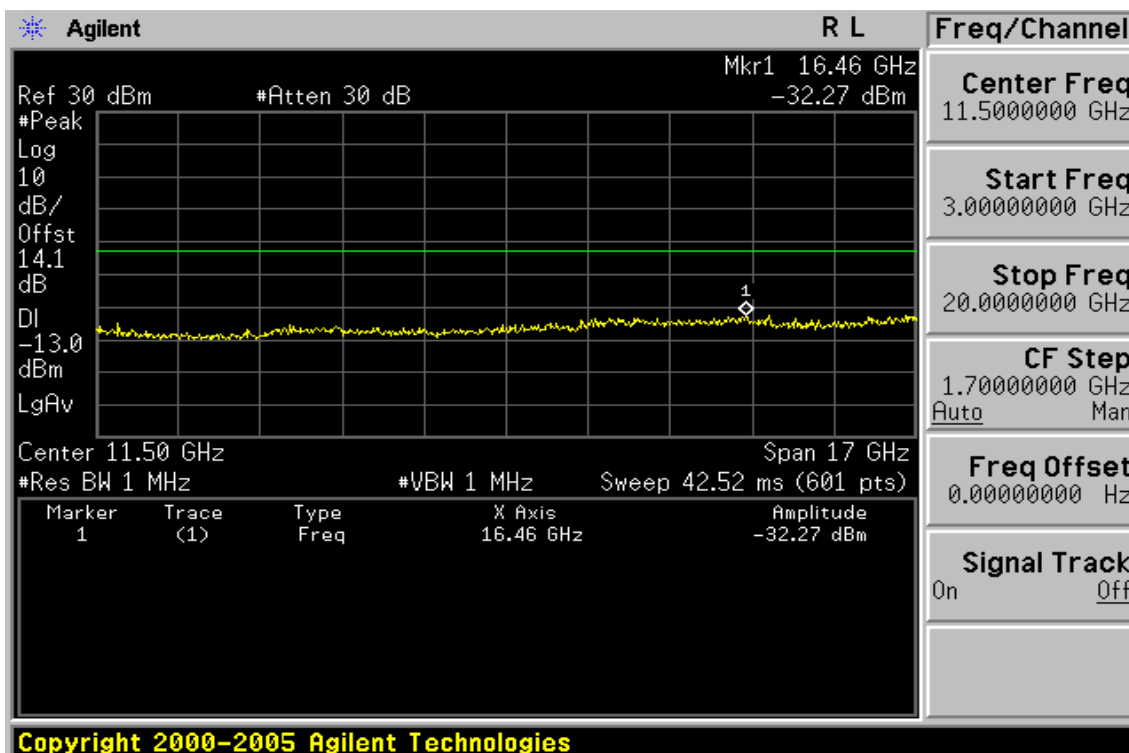
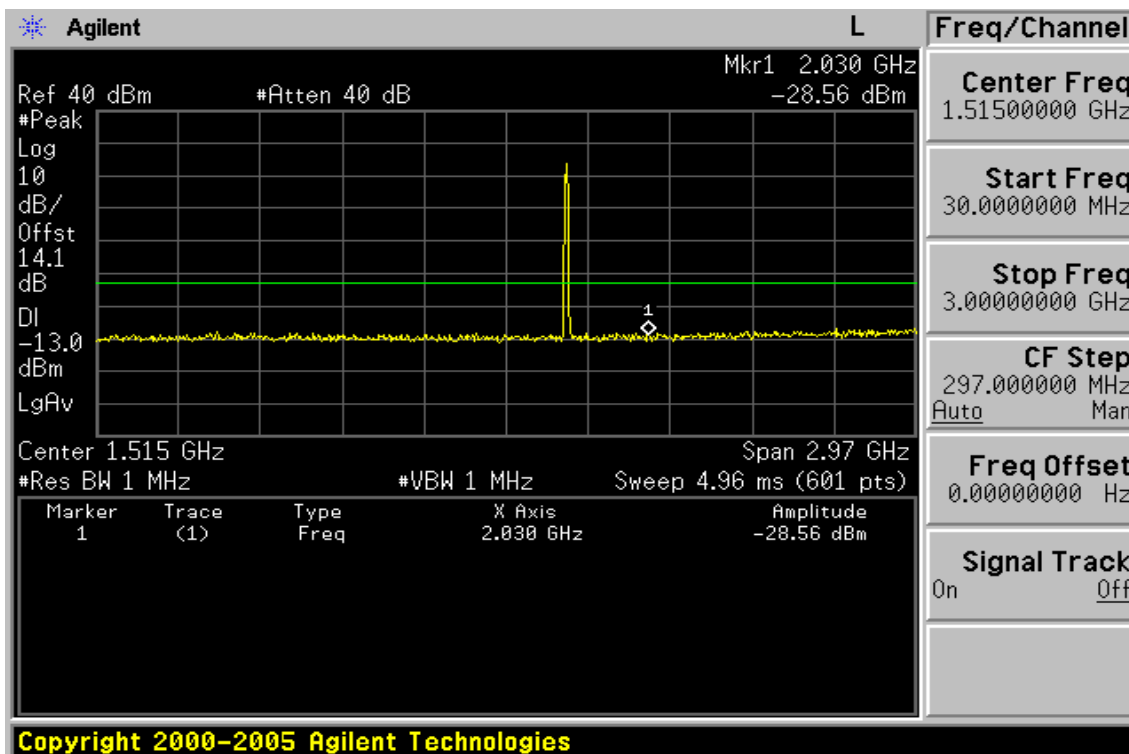
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Out of Band emission at antenna terminals – WCDMA IV Channel Mid



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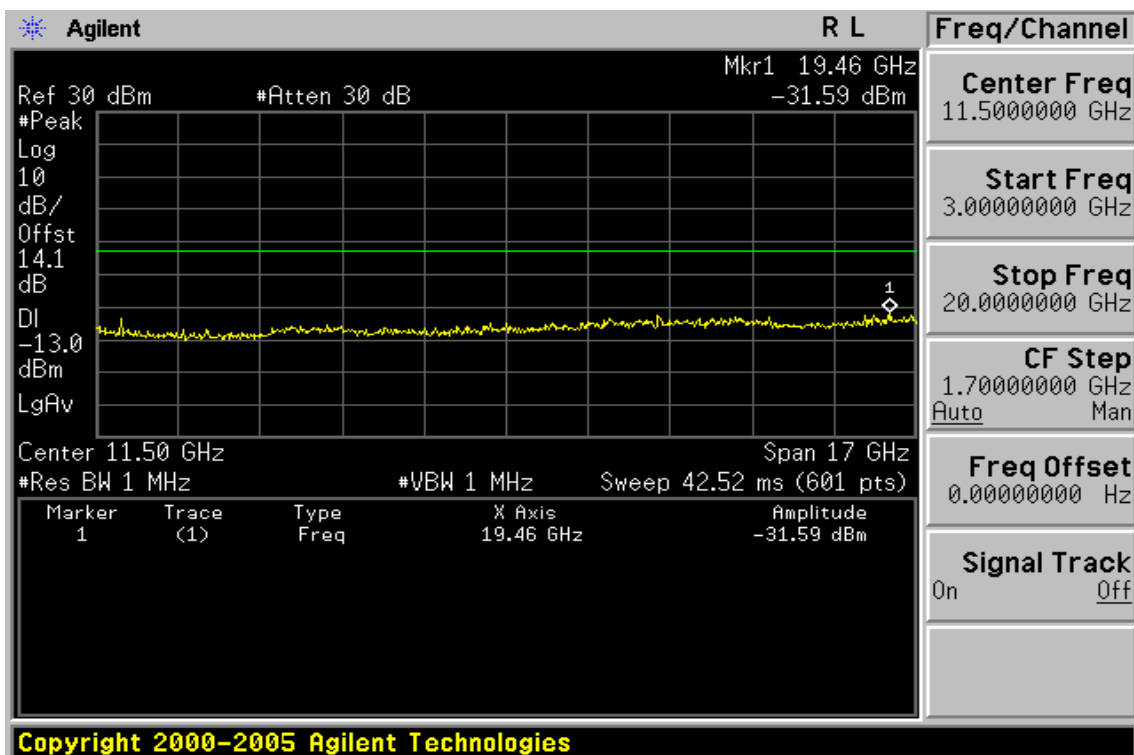
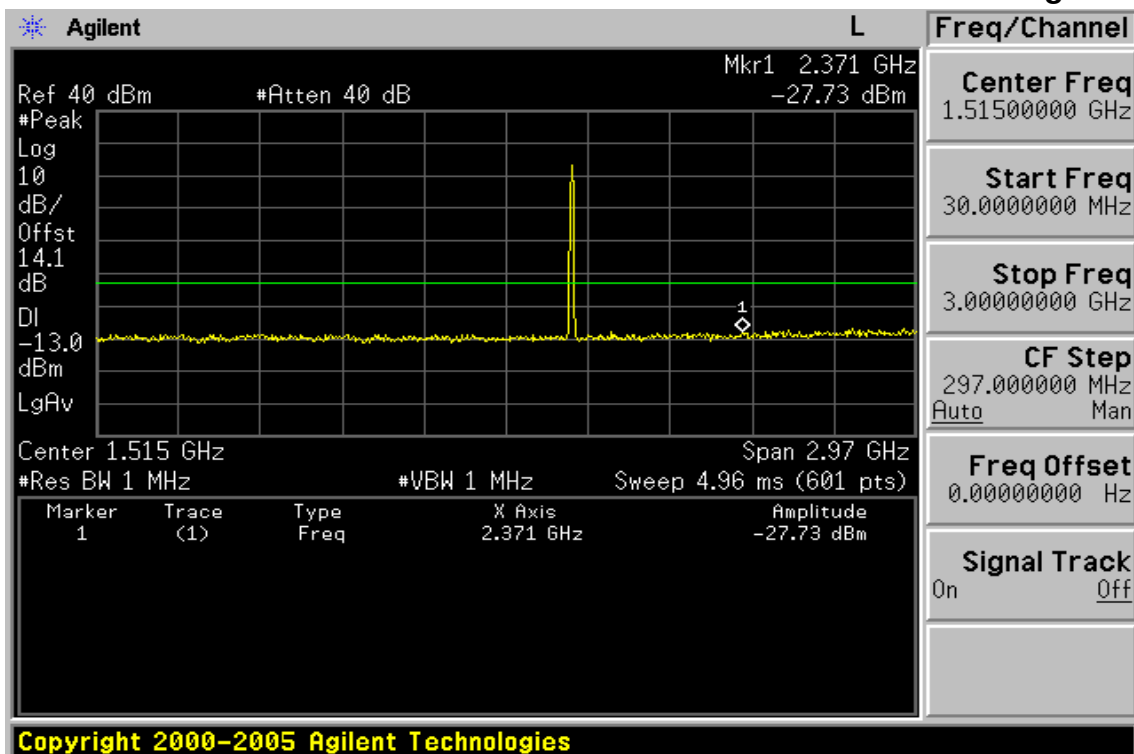
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Out of Band emission at antenna terminals – WCDMA IV Channel Highest



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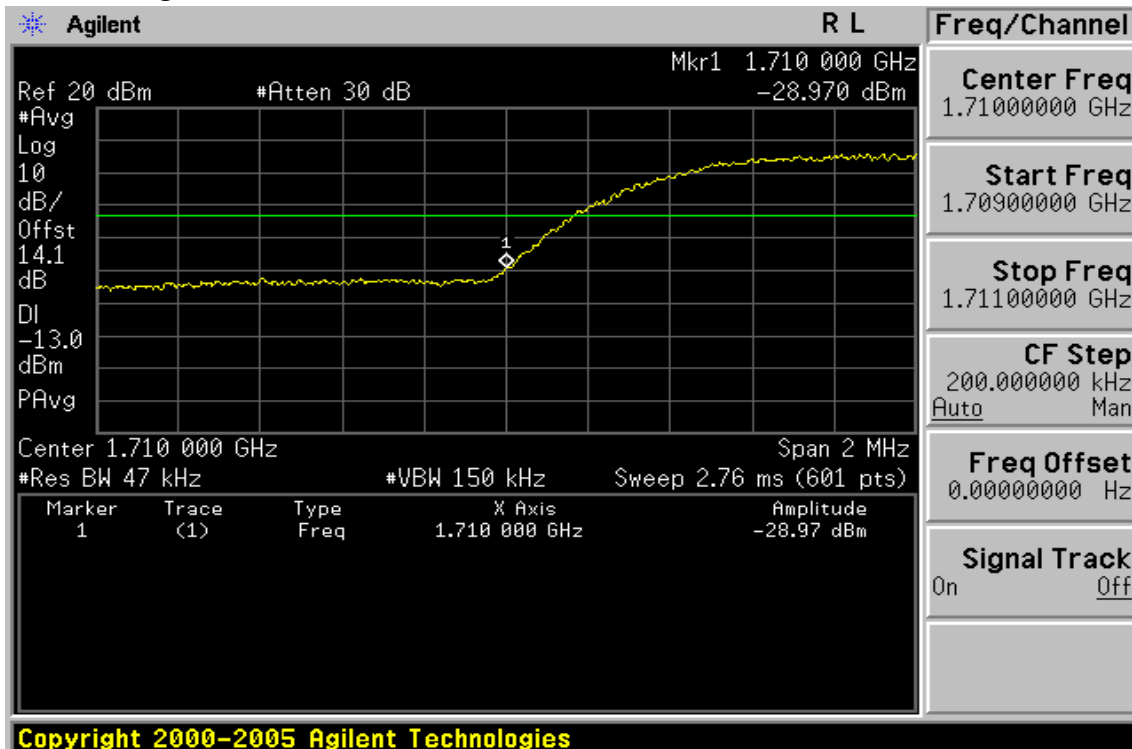
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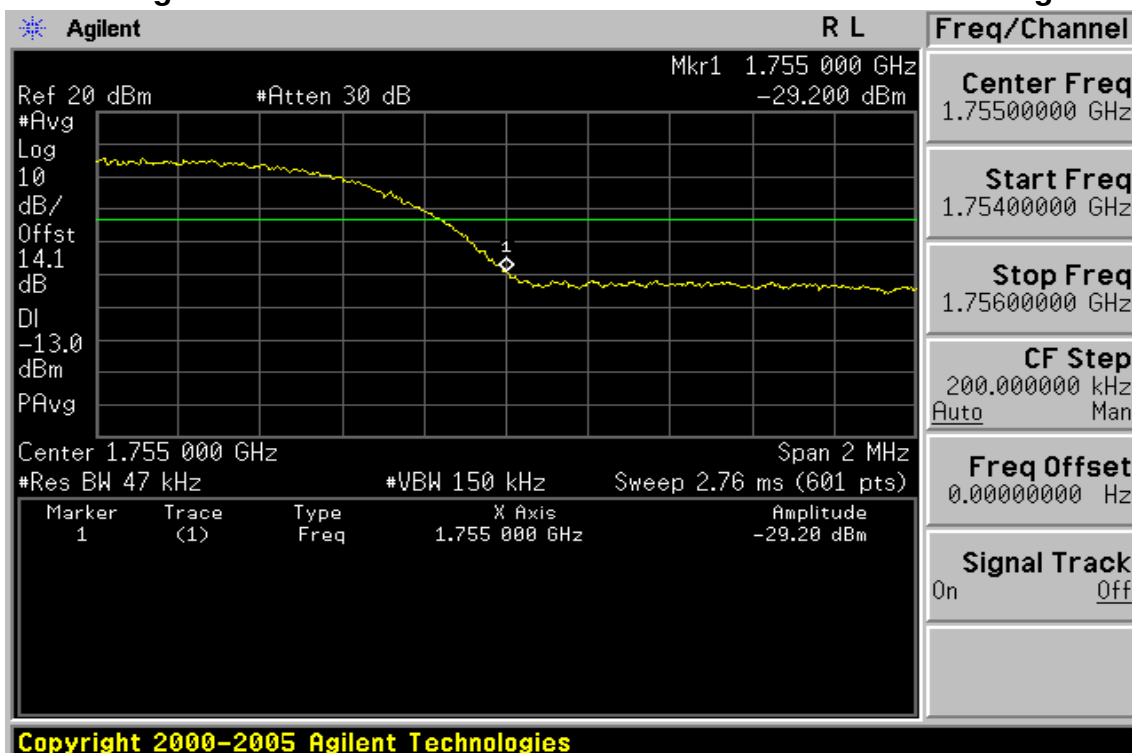
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Band edge emission at antenna terminals – WCDMA IV Channel Lowest



Band edge emission at antenna terminals – WCDMA IV Channel Highest



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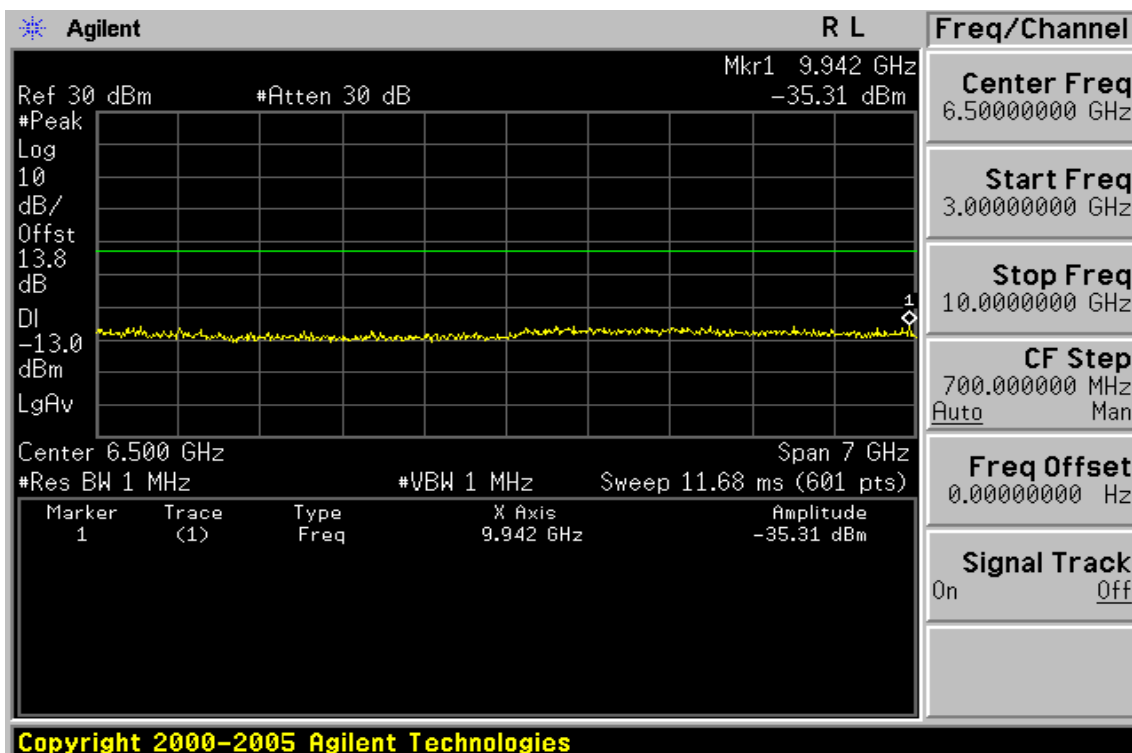
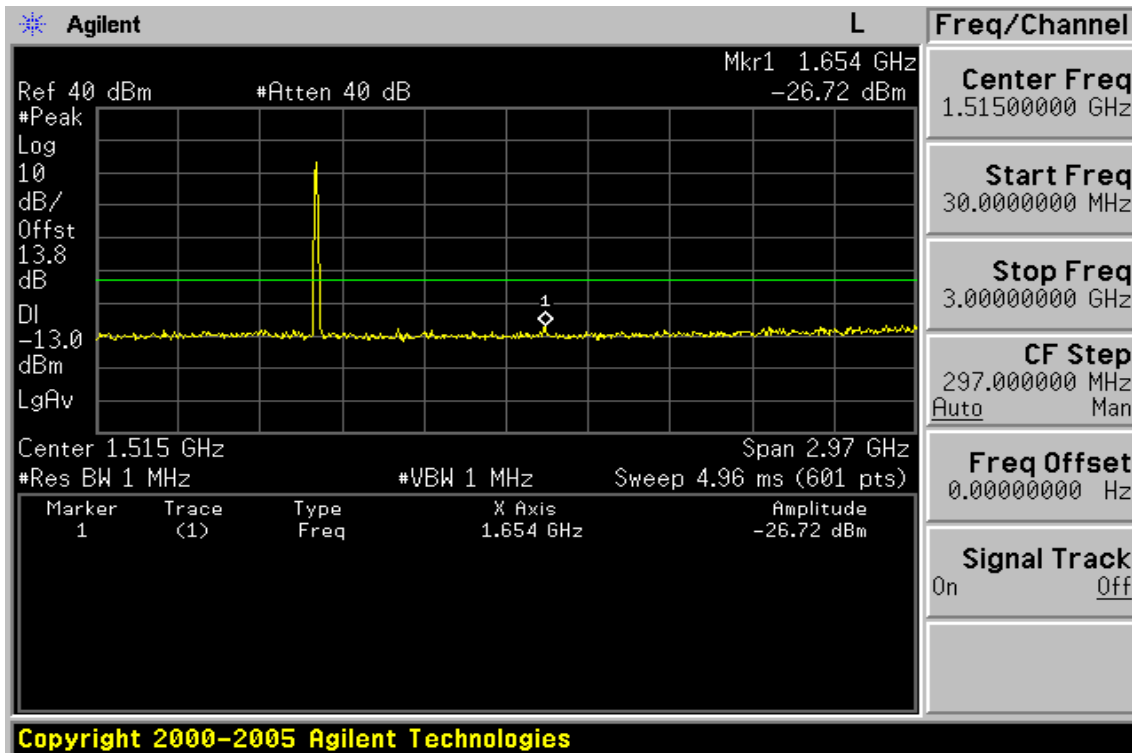
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Out of Band emission at antenna terminals – WCDMA V Channel Lowest



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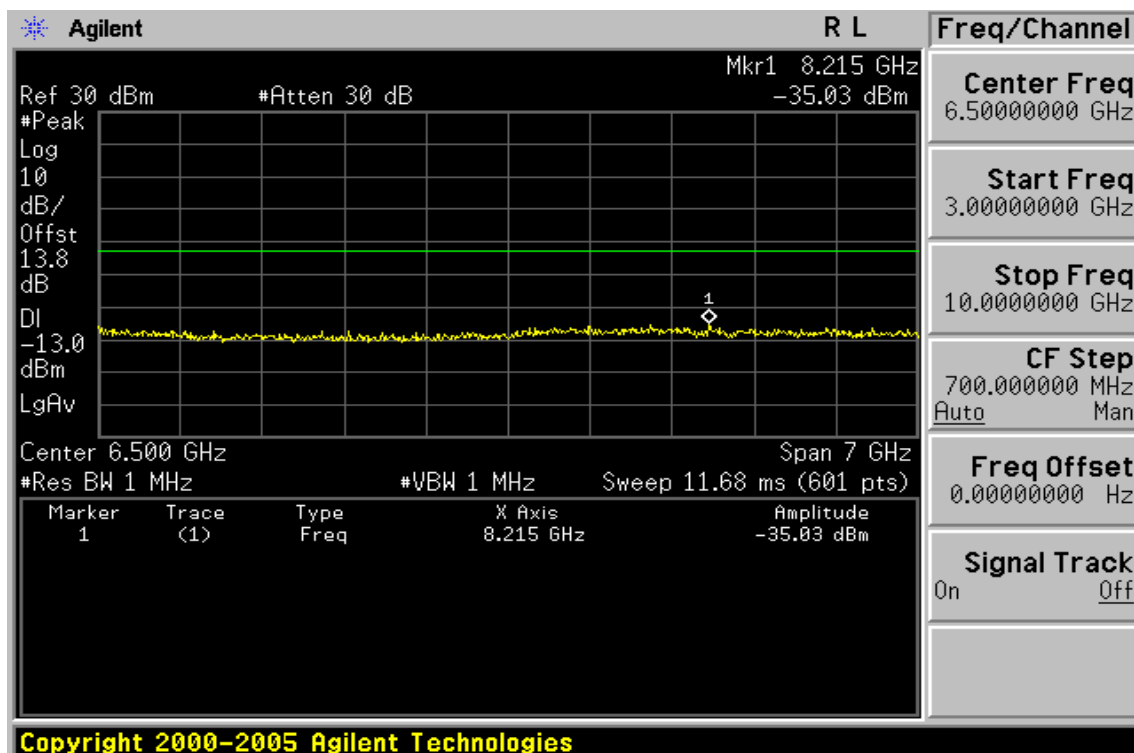
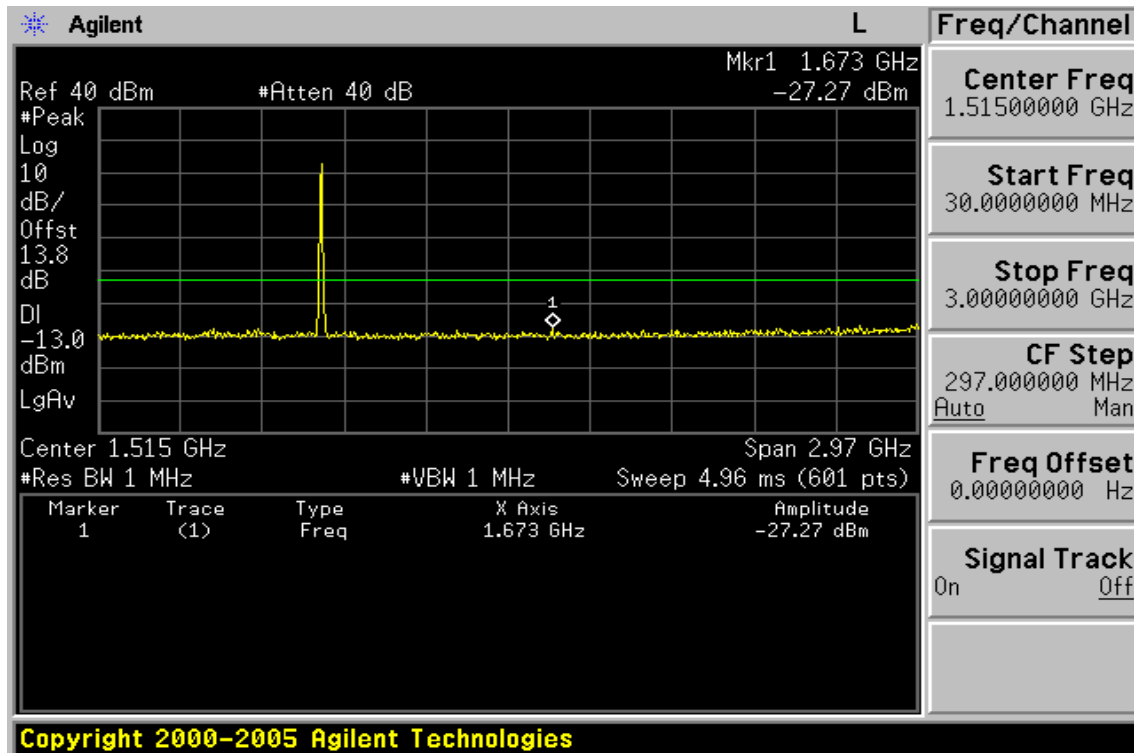
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Out of Band emission at antenna terminals – WCDMA V Channel Mid



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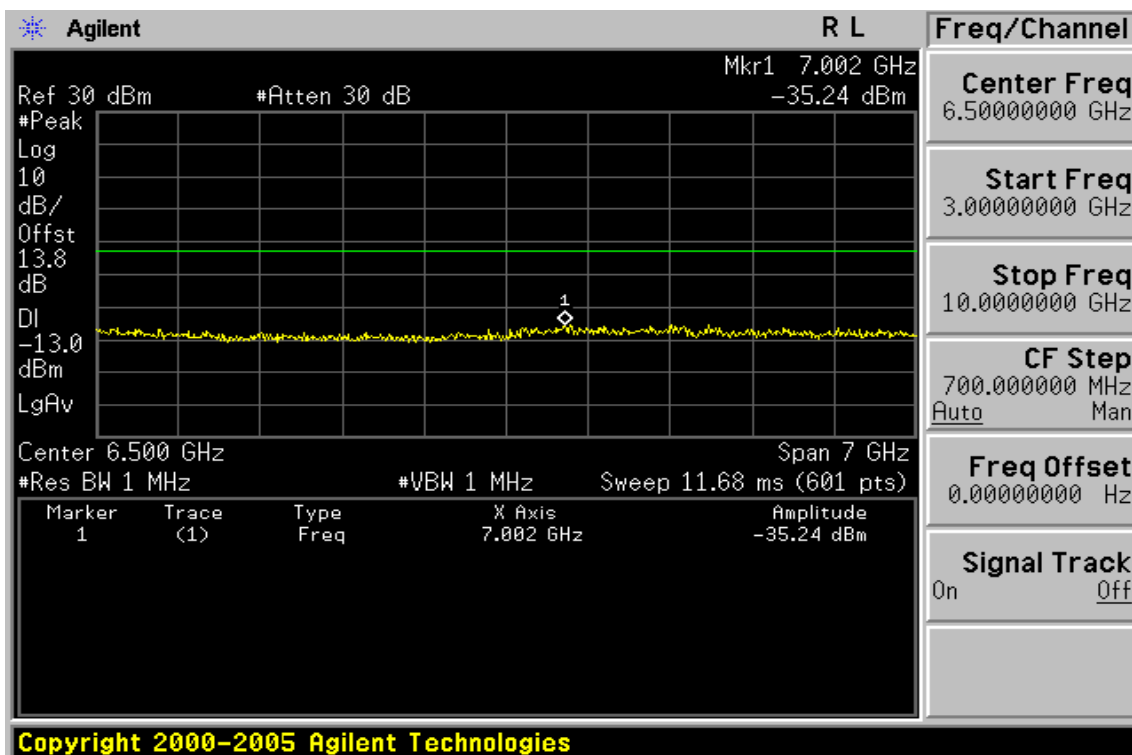
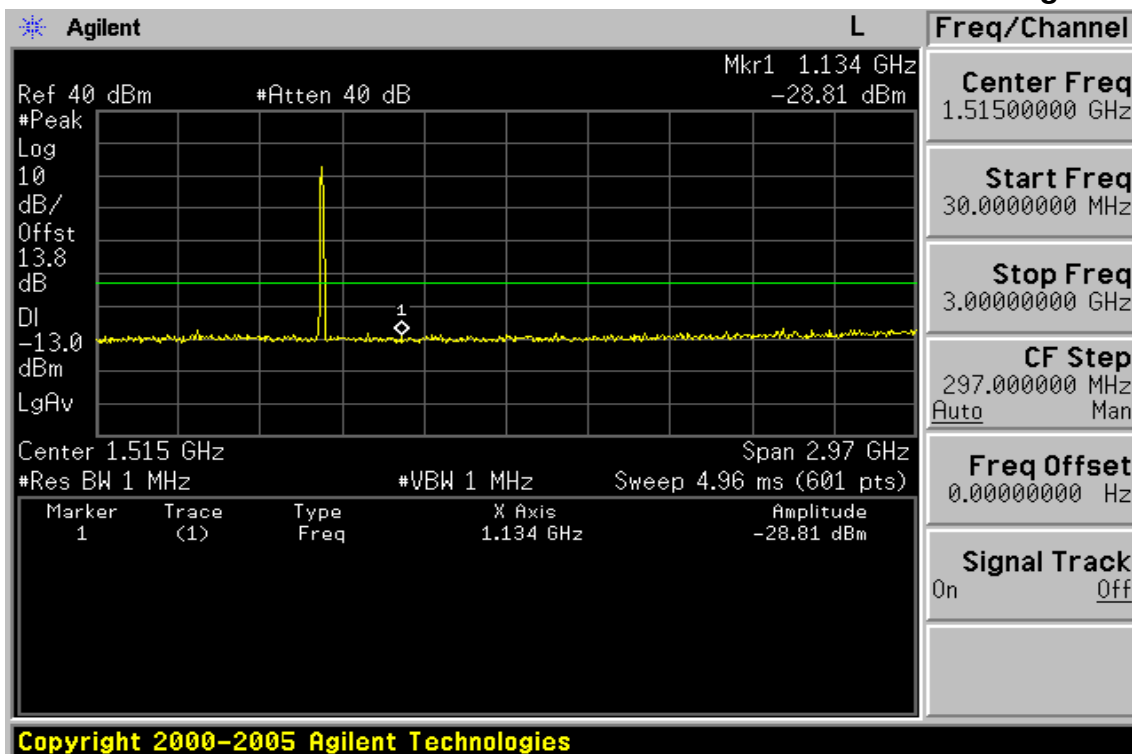
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Out of Band emission at antenna terminals – WCDMA V Channel Highest



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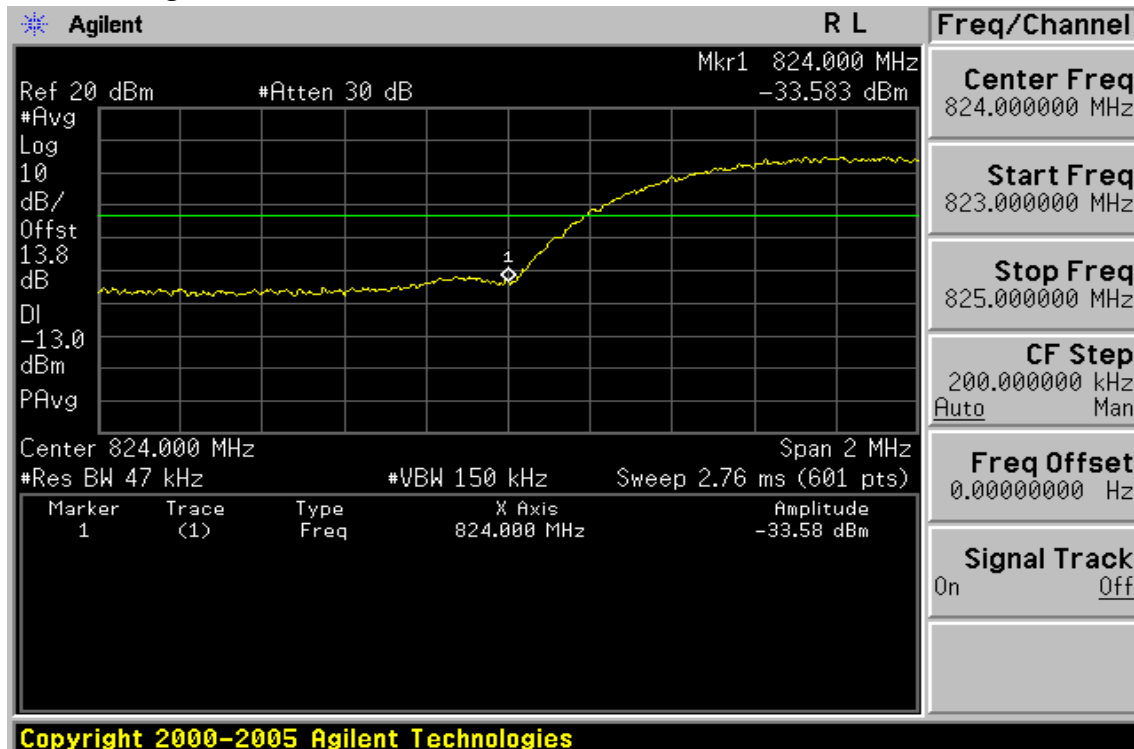
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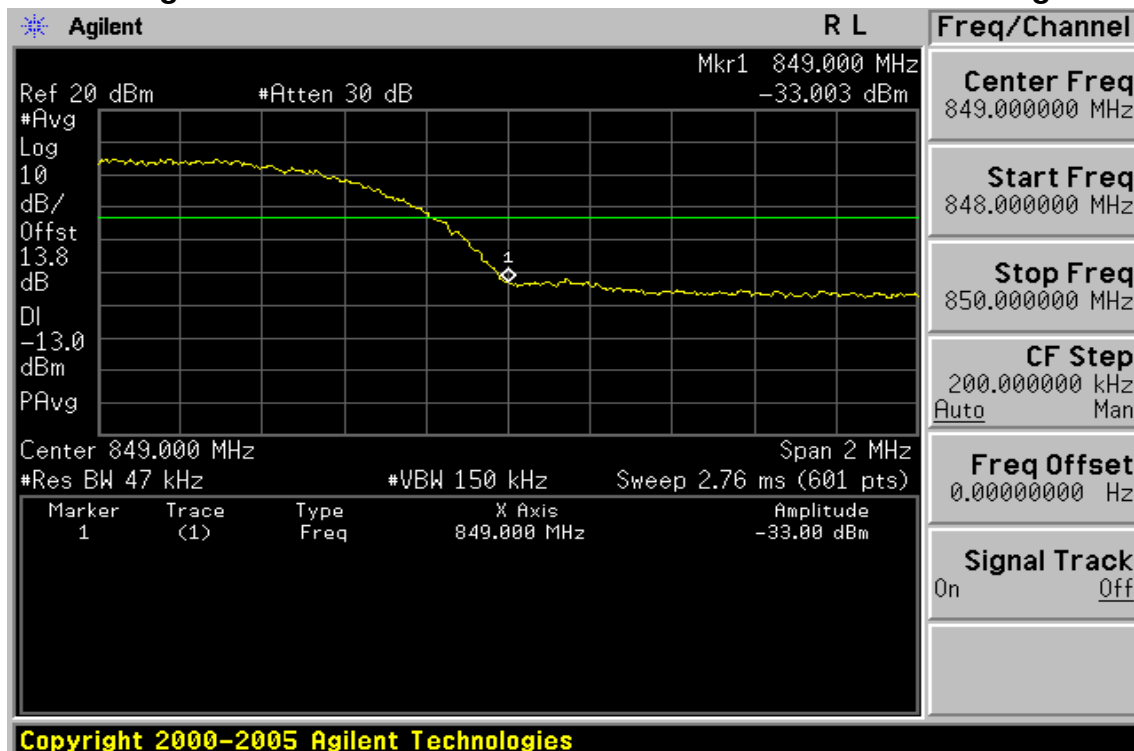
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Band edge emission at antenna terminals – WCDMA V Channel Lowest



Band edge emission at antenna terminals – WCDMA V Channel Highest



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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

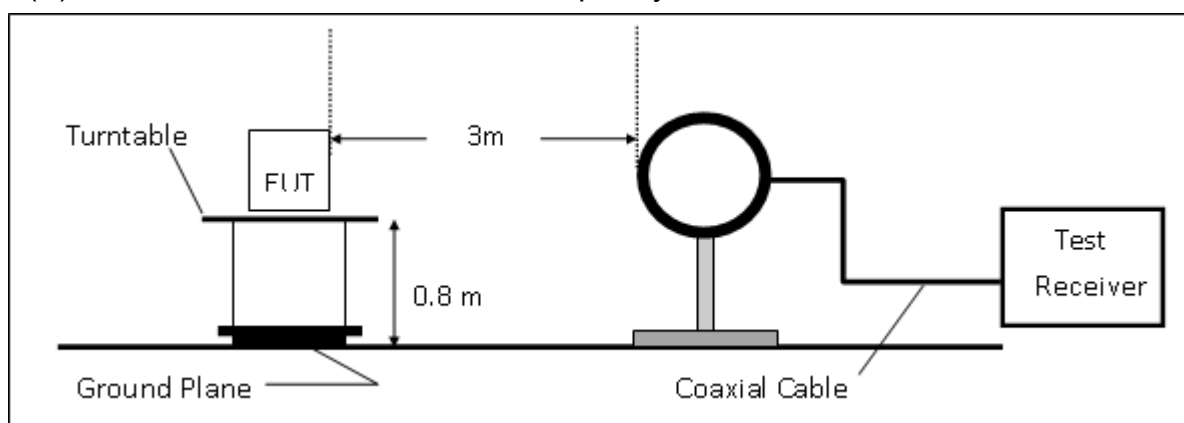
10.1. Standard Applicable

According to FCC §2.1053,

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

10.2. EUT Setup

(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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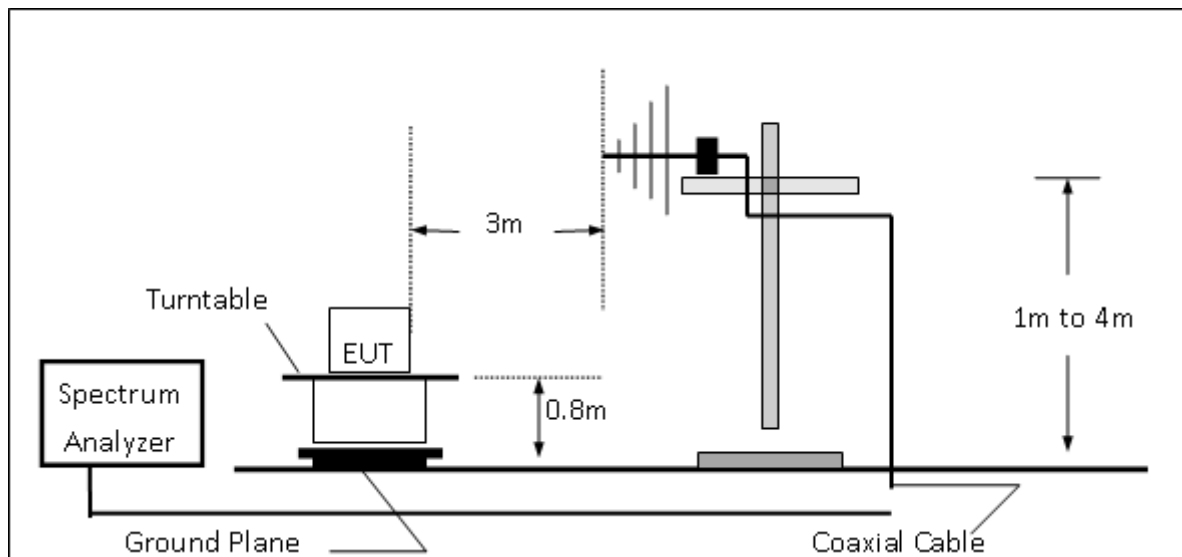
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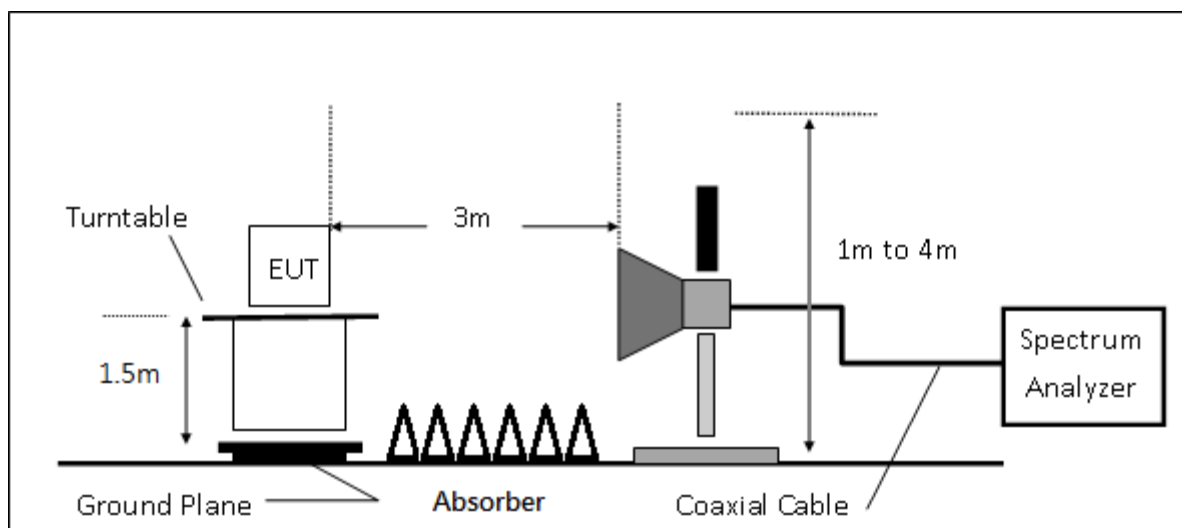
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(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



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



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10.3. 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 frequencies (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. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)

EIRP = S.G. output (dBm) + Antenna Gain (dBi) – Cable Loss (dB)

EIRP (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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10.4. Measurement Equipment Used:

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	12/22/2014	12/21/2015
Spectrum Analyzer	R&S	FSV-30	101398	09/23/2015	09/22/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/23/2014	12/22/2015
Bilog Antenna	SCHWAZBECK	VULB9160	3158	10/31/2014	10/30/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/05/2015	05/04/2016
Horn antenna	ETS.LINDGREN	3117	123991	12/19/2014	12/18/2015
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2014	12/24/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/25/2015	07/24/2016
Network Analyze	Anritsu	MS4644A	1216312	05/23/2015	05/22/2016
Signal Generator	Agilent	E4438C	MY45093613	07/31/2015	07/30/2016
Pre-Amplifier	Agilent	8447D	1937A02834	01/02/2015	01/01/2016
Pre-Amplifier	Agilent	8449B	3008A00578	01/02/2015	01/01/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	004	01/02/2015	01/01/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	25/09/2015	24/09/2016
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	060776	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	966_Tx	10m	01/02/2015	01/01/2016
Low Loss Cable	HUBER+SUHNER	966_Rx	3m	01/02/2015	01/01/2016
Filter 800-1000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1800-2000	Micro-Tronics	EWT	M2	01/02/2015	01/01/2016
Filter 1700-1800	Micro-Tronics	BRC15751	001	01/02/2015	01/01/2016
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2015	01/01/2016
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2015	01/01/2016
3m Site NSA	SGS	966 chamber	N/A	07/01/2015	06/30/2016

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

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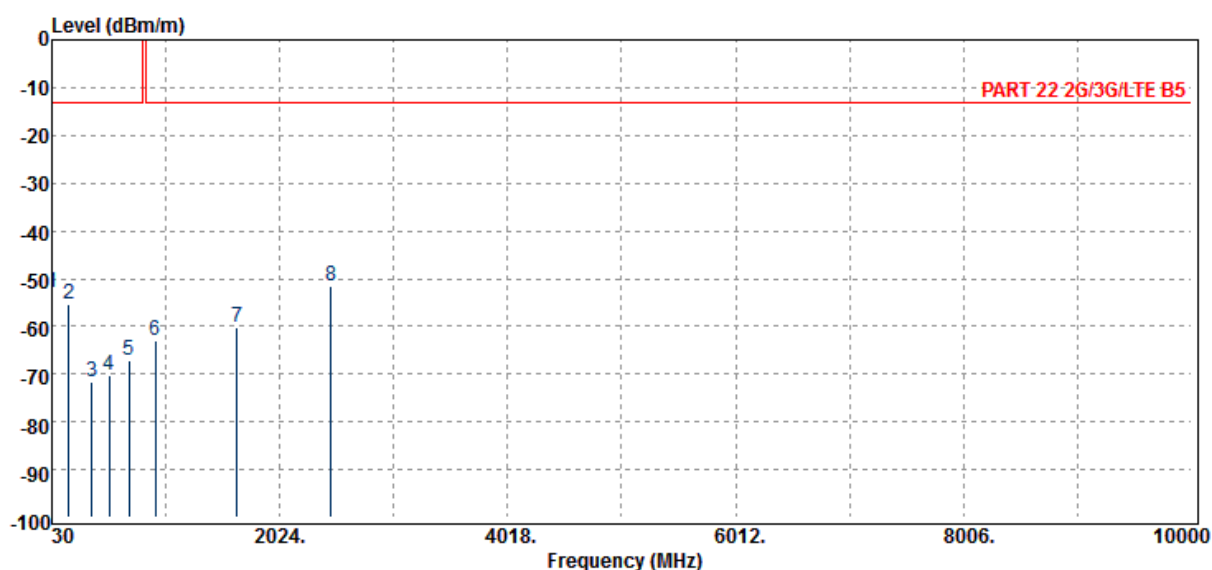
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10.5. Measurement Result :

Radiated Spurious Emission Measurement Result: GPRS 850 Mode

ARFCN	:CH 128	Test Date	:2015-09-26
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-53.00	-37.64	-14.62	-0.74	-13.00	-40.00
175.50	S	-55.53	-54.28	0.23	-1.49	-13.00	-42.53
381.14	S	-71.61	-73.32	3.67	-1.95	-13.00	-58.61
532.46	S	-70.08	-71.25	3.65	-2.48	-13.00	-57.08
702.21	S	-67.22	-67.99	3.38	-2.61	-13.00	-54.22
936.95	S	-62.85	-62.91	3.24	-3.18	-13.00	-49.85
1648.40	H	-60.29	-59.14	3.05	-4.21	-13.00	-47.29
2472.60	H	-51.62	-49.89	3.59	-5.32	-13.00	-38.62

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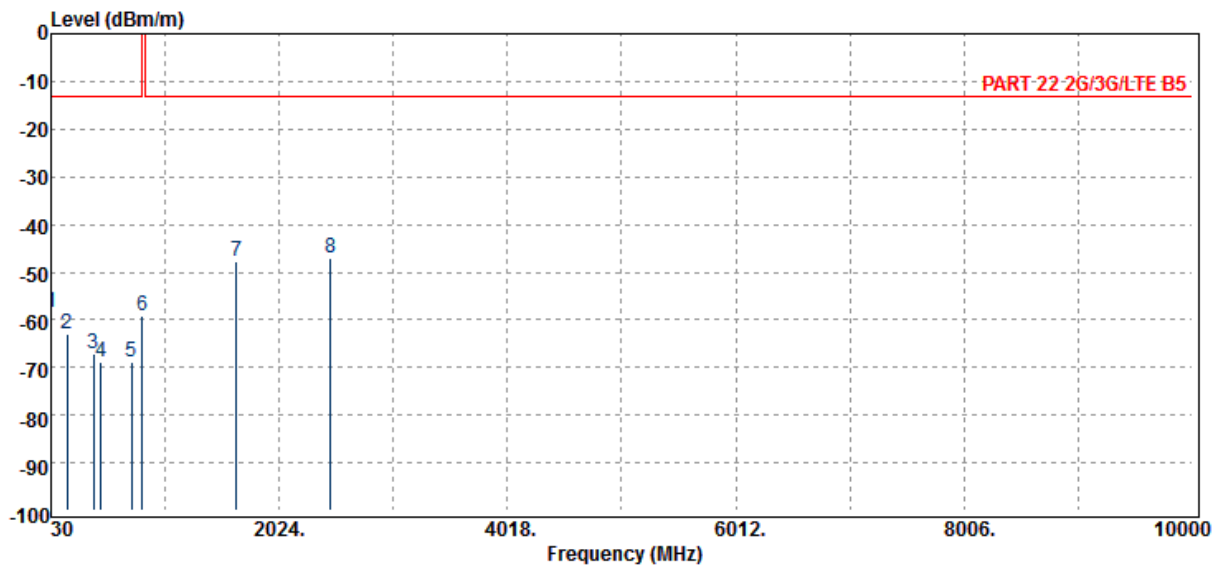
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ARFCN	:CH 128	Test Date	:2015-09-26
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:824.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-58.62	-43.26	-14.62	-0.74	-13.00	-45.62
173.56	S	-62.95	-61.36	-0.10	-1.49	-13.00	-49.95
400.54	S	-67.15	-68.82	3.62	-1.95	-13.00	-54.15
468.44	S	-69.01	-70.39	3.50	-2.12	-13.00	-56.01
733.25	S	-68.79	-69.44	3.31	-2.66	-13.00	-55.79
824.00	S	-59.34	-59.86	3.45	-2.94	-13.00	-46.34
1648.40	H	-47.70	-46.55	3.05	-4.21	-13.00	-34.70
2472.60	H	-47.17	-45.44	3.59	-5.32	-13.00	-34.17

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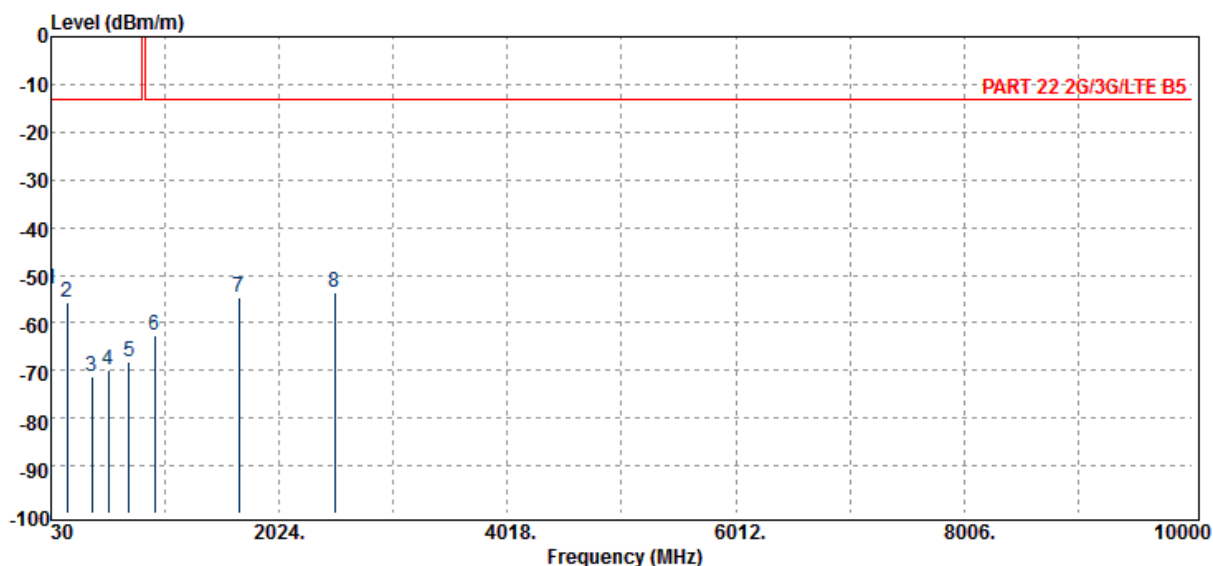
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ARFCN	:CH 190	Test Date	:2015-09-26
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-52.82	-37.46	-14.62	-0.74	-13.00	-39.82
173.56	S	-55.77	-54.19	-0.10	-1.49	-13.00	-42.77
384.05	S	-71.31	-73.02	3.66	-1.95	-13.00	-58.31
531.49	S	-69.76	-70.93	3.65	-2.48	-13.00	-56.76
711.91	S	-68.00	-68.75	3.36	-2.60	-13.00	-55.00
936.95	S	-62.75	-62.81	3.24	-3.18	-13.00	-49.75
1673.20	H	-54.71	-53.46	3.01	-4.26	-13.00	-41.71
2509.80	H	-53.65	-51.97	3.67	-5.35	-13.00	-40.65

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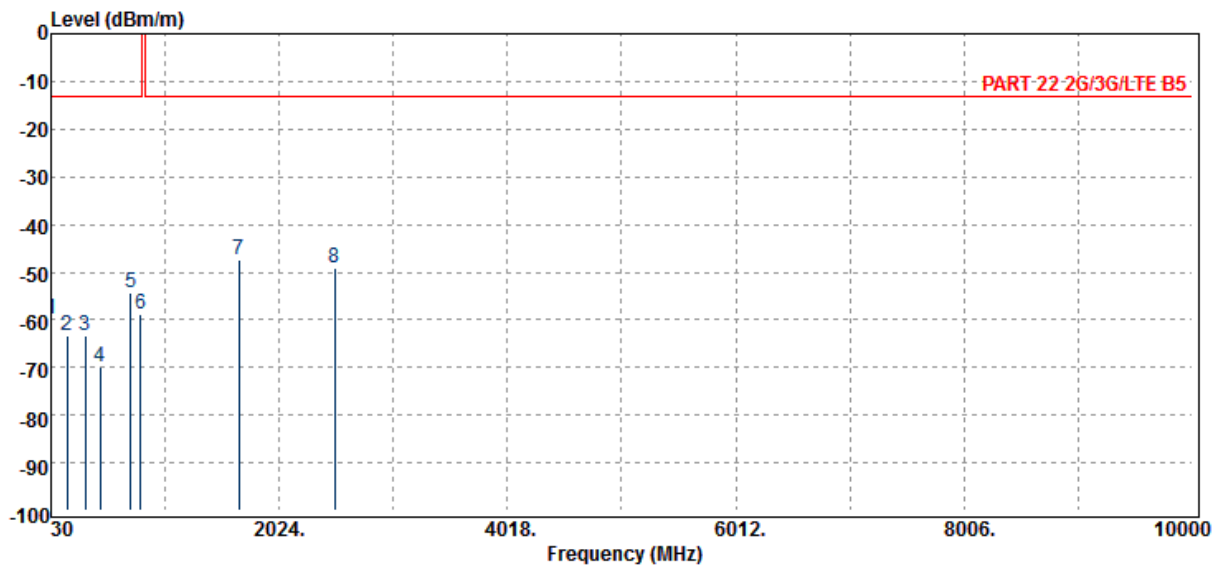
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ARFCN	:CH 190	Test Date	:2015-09-26
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
34.85	S	-59.76	-45.30	-13.67	-0.78	-13.00	-46.76
172.59	S	-63.27	-61.52	-0.26	-1.49	-13.00	-50.27
330.70	S	-63.20	-65.00	3.71	-1.90	-13.00	-50.20
460.68	S	-70.06	-71.40	3.44	-2.10	-13.00	-57.06
728.40	S	-54.30	-54.98	3.32	-2.64	-13.00	-41.30
814.00	S	-58.81	-59.36	3.45	-2.90	-13.00	-45.81
1673.20	H	-47.30	-46.05	3.01	-4.26	-13.00	-34.30
2509.80	H	-49.03	-47.35	3.67	-5.35	-13.00	-36.03

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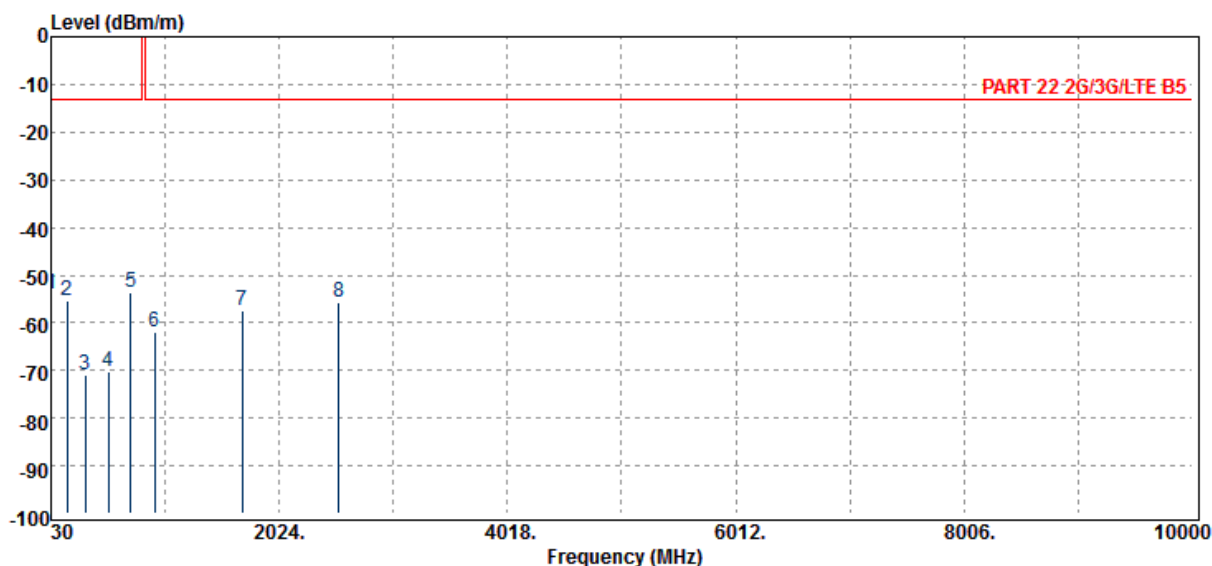
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ARFCN	:CH 251	Test Date	:2015-09-26
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-53.82	-38.46	-14.62	-0.74	-13.00	-40.82
173.56	S	-55.21	-53.62	-0.10	-1.49	-13.00	-42.21
332.64	S	-70.90	-72.71	3.72	-1.91	-13.00	-57.90
532.46	S	-70.20	-71.37	3.65	-2.48	-13.00	-57.20
728.40	S	-53.73	-54.41	3.32	-2.64	-13.00	-40.73
935.01	S	-61.89	-61.95	3.24	-3.18	-13.00	-48.89
1697.60	H	-57.57	-56.25	2.96	-4.28	-13.00	-44.57
2546.40	H	-55.60	-53.95	3.75	-5.41	-13.00	-42.60

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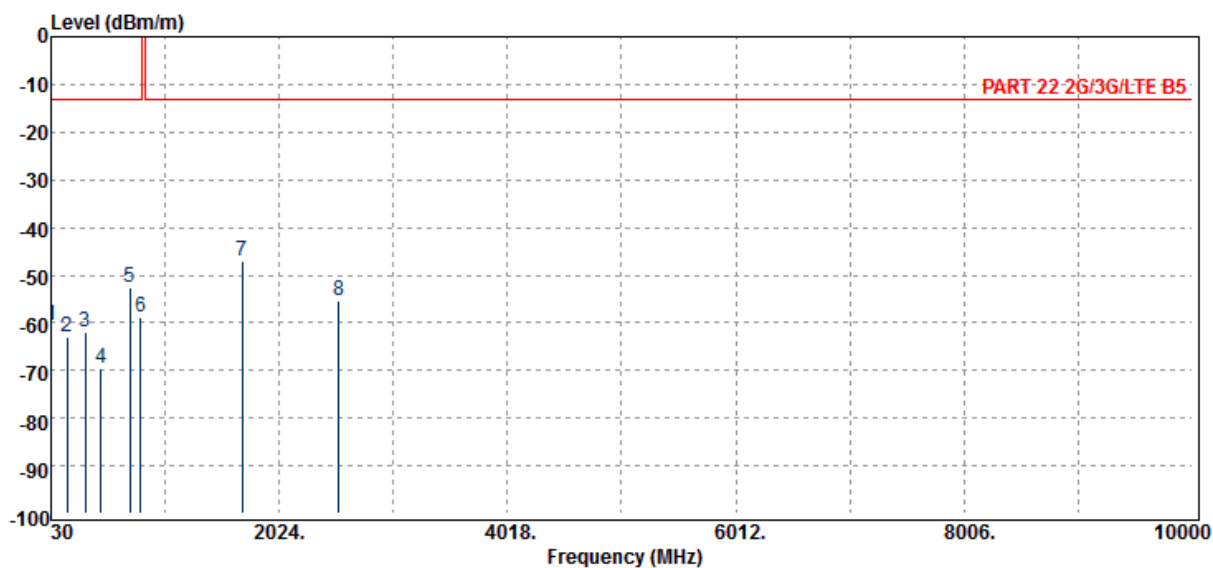
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ARFCN	:CH 251	Test Date	:2015-09-26
Operation Band	:GPRS 850	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:848.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
31.94	S	-60.53	-45.41	-14.37	-0.75	-13.00	-47.53
172.59	S	-63.03	-61.28	-0.26	-1.49	-13.00	-50.03
330.70	S	-62.00	-63.81	3.71	-1.90	-13.00	-49.00
466.50	S	-69.54	-70.91	3.49	-2.11	-13.00	-56.54
721.61	S	-52.53	-53.24	3.34	-2.63	-13.00	-39.53
811.00	S	-58.92	-59.47	3.45	-2.89	-13.00	-45.92
1697.60	H	-47.10	-45.79	2.96	-4.28	-13.00	-34.10
2546.40	H	-55.42	-53.77	3.75	-5.41	-13.00	-42.42

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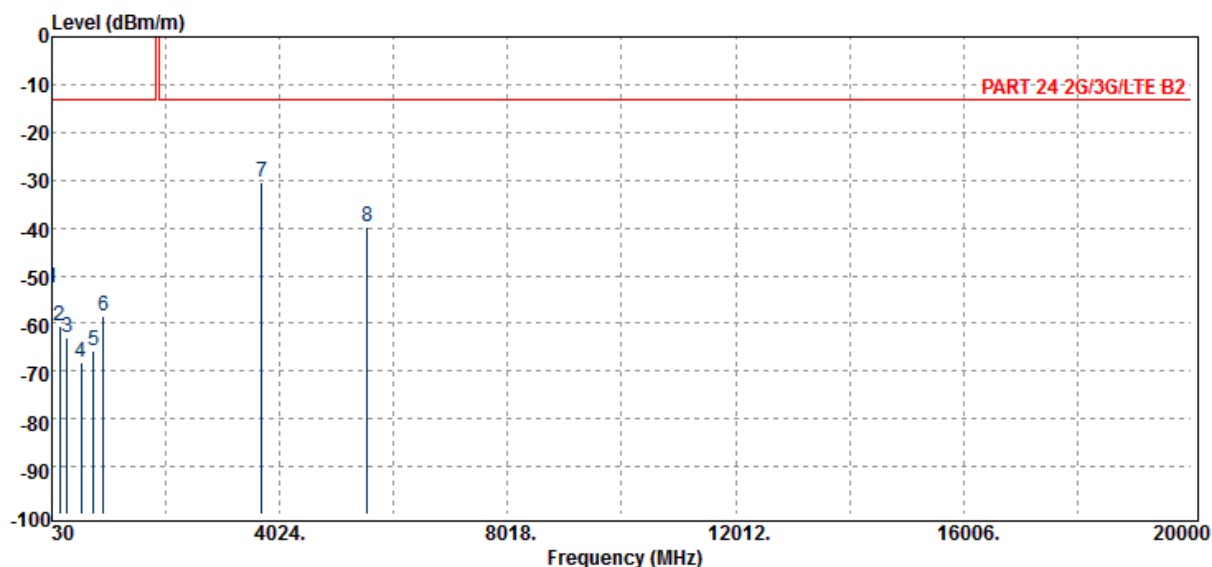
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Radiated Spurious Emission Measurement Result: GPRS 1900 Mode

ARFCN	:CH 512	Test Date	:2015-09-26
Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
39.70	S	-52.46	-40.96	-10.68	-0.83	-13.00	-39.46
172.59	S	-60.70	-61.10	1.89	-1.49	-13.00	-47.70
293.84	S	-62.99	-66.89	5.65	-1.76	-13.00	-49.99
547.01	S	-68.33	-71.53	5.75	-2.56	-13.00	-55.33
760.41	S	-65.79	-68.54	5.47	-2.72	-13.00	-52.79
938.89	S	-58.39	-60.59	5.39	-3.19	-13.00	-45.39
3700.40	H	-30.32	-31.87	8.43	-6.88	-13.00	-17.32
5550.60	H	-39.74	-41.29	10.10	-8.55	-13.00	-26.74

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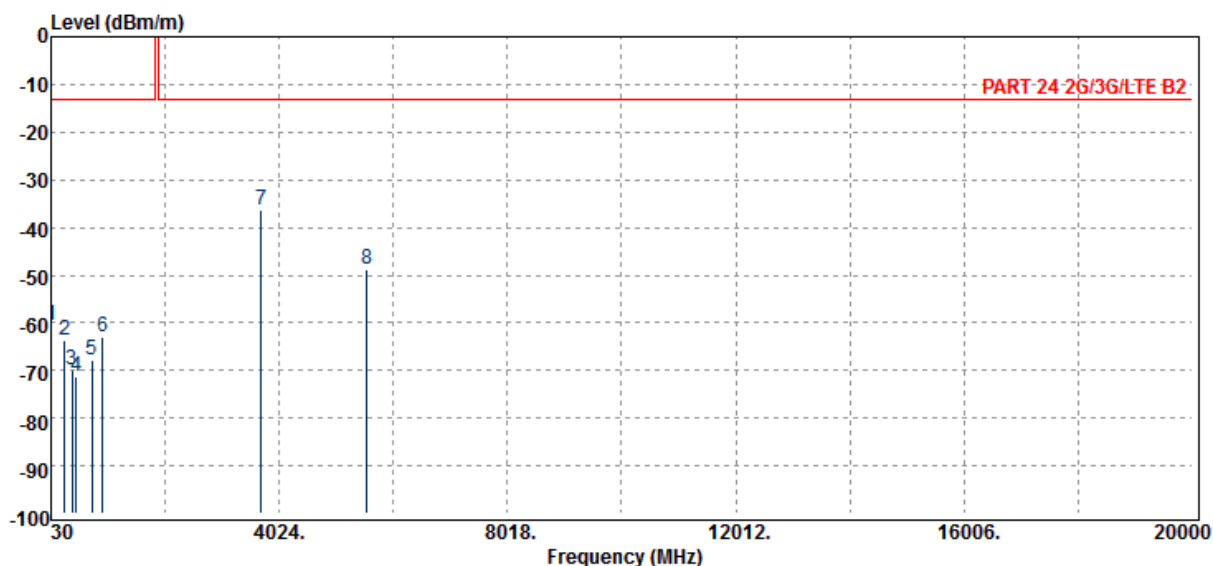
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ARFCN	:CH 512	Test Date	:2015-09-26
Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1850.2 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
41.64	S	-60.45	-49.12	-10.48	-0.84	-13.00	-47.45
269.59	S	-63.54	-67.61	5.76	-1.69	-13.00	-50.54
403.45	S	-70.03	-73.83	5.75	-1.94	-13.00	-57.03
468.44	S	-71.21	-74.74	5.65	-2.12	-13.00	-58.21
740.04	S	-67.88	-70.66	5.45	-2.67	-13.00	-54.88
938.89	S	-63.05	-65.25	5.39	-3.19	-13.00	-50.05
3700.40	H	-36.44	-37.98	8.43	-6.88	-13.00	-23.44
5550.60	H	-48.66	-50.21	10.10	-8.55	-13.00	-35.66

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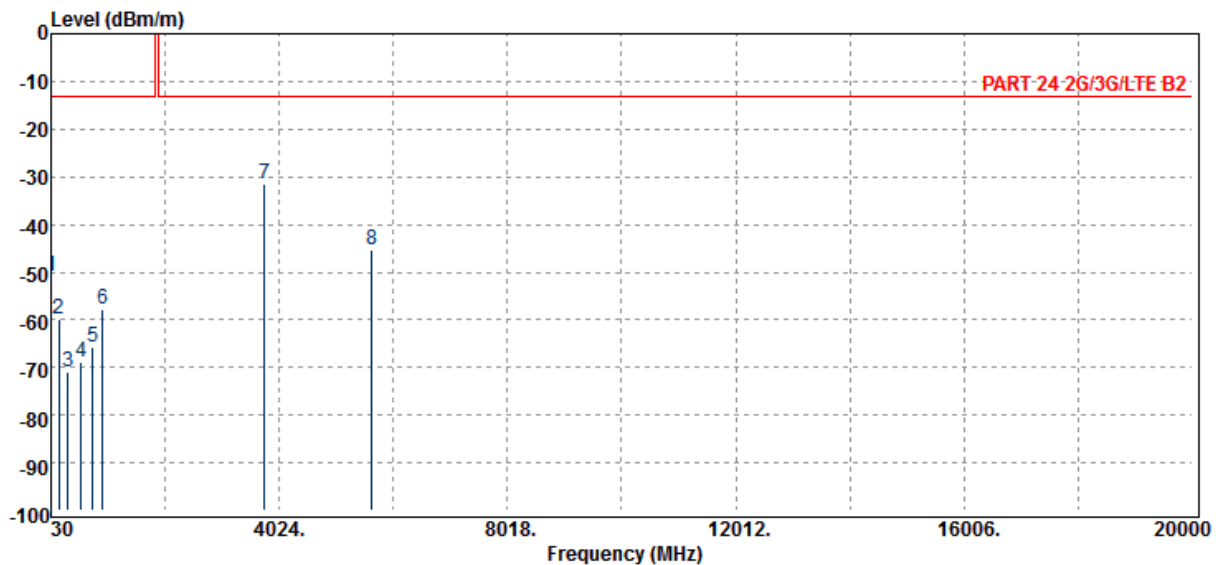
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ARFCN	:CH 661	Test Date	:2015-09-26
Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
34.85	S	-50.78	-38.48	-11.52	-0.78	-13.00	-37.78
173.56	S	-59.85	-60.42	2.05	-1.49	-13.00	-46.85
330.70	S	-70.82	-74.78	5.86	-1.90	-13.00	-57.82
556.71	S	-68.92	-72.04	5.72	-2.61	-13.00	-55.92
755.56	S	-65.74	-68.48	5.45	-2.71	-13.00	-52.74
936.95	S	-57.72	-59.93	5.39	-3.18	-13.00	-44.72
3760.00	H	-31.55	-32.99	8.46	-7.02	-13.00	-18.55
5640.00	H	-45.38	-46.90	10.11	-8.59	-13.00	-32.38

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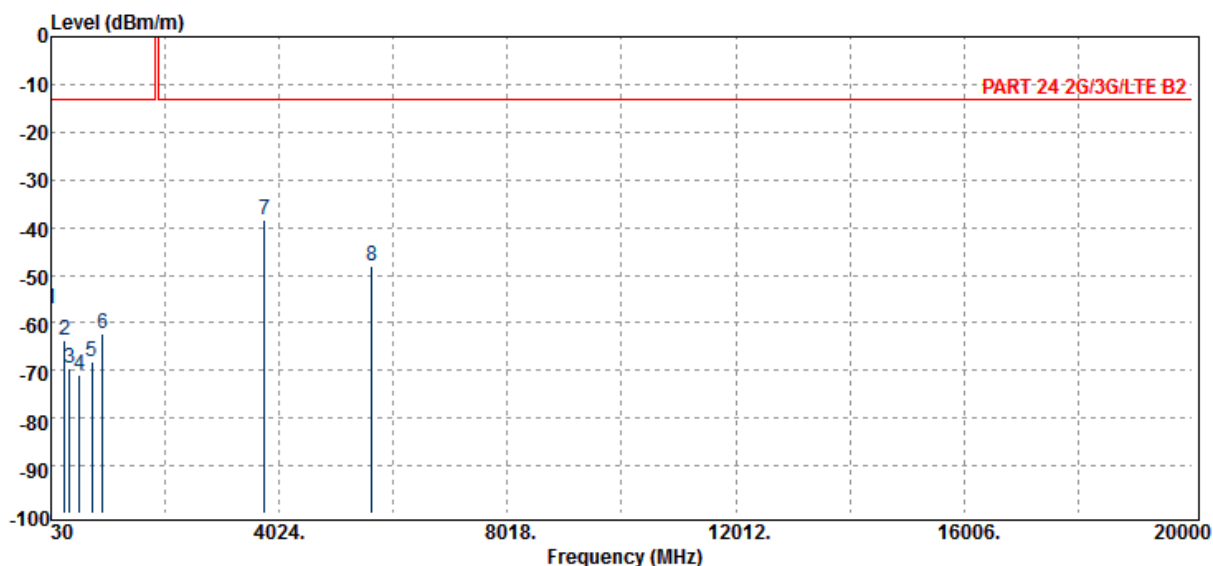
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ARFCN	:CH 661	Test Date	:2015-09-26
Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-57.25	-44.50	-11.98	-0.76	-13.00	-44.25
269.59	S	-63.79	-67.86	5.76	-1.69	-13.00	-50.79
361.74	S	-69.38	-73.29	5.88	-1.96	-13.00	-56.38
524.70	S	-70.79	-74.17	5.82	-2.44	-13.00	-57.79
750.71	S	-68.13	-70.87	5.43	-2.70	-13.00	-55.13
936.95	S	-62.20	-64.41	5.39	-3.18	-13.00	-49.20
3760.00	H	-38.25	-39.70	8.46	-7.02	-13.00	-25.25
5640.00	H	-48.19	-49.71	10.11	-8.59	-13.00	-35.19

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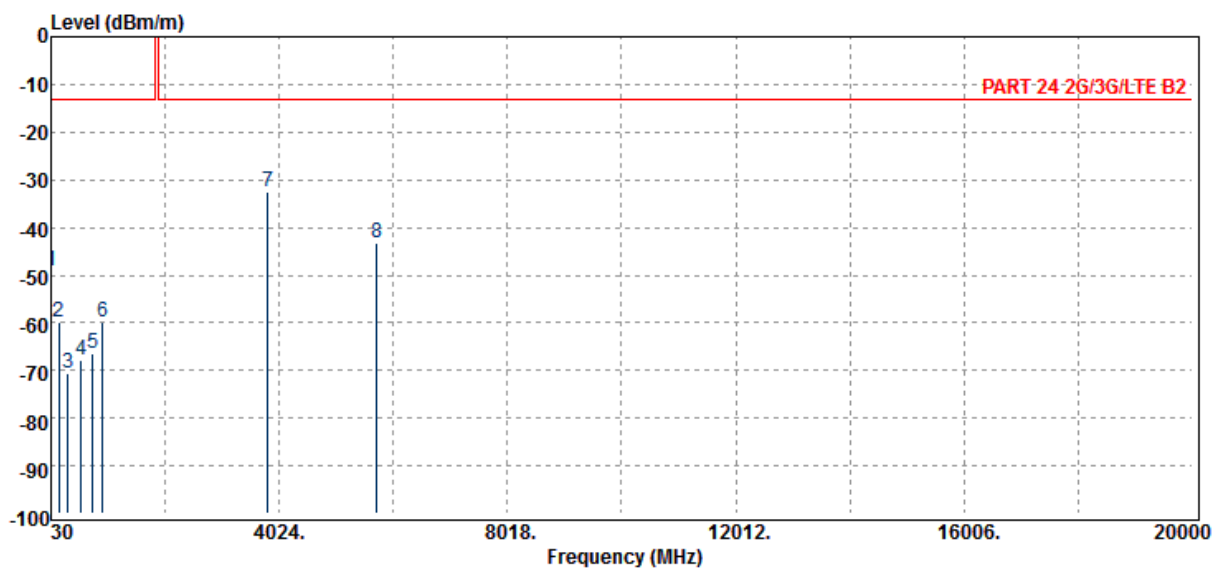
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ARFCN	:CH 810	Test Date	:2015-09-26
Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
30.97	S	-49.04	-35.82	-12.47	-0.74	-13.00	-36.04
173.56	S	-59.88	-60.44	2.05	-1.49	-13.00	-46.88
328.76	S	-70.53	-74.50	5.85	-1.89	-13.00	-57.53
555.74	S	-67.93	-71.05	5.72	-2.60	-13.00	-54.93
760.41	S	-66.46	-69.21	5.47	-2.72	-13.00	-53.46
936.95	S	-59.82	-62.03	5.39	-3.18	-13.00	-46.82
3819.60	H	-32.42	-33.87	8.50	-7.05	-13.00	-19.42
5729.40	H	-43.36	-44.84	10.12	-8.64	-13.00	-30.36

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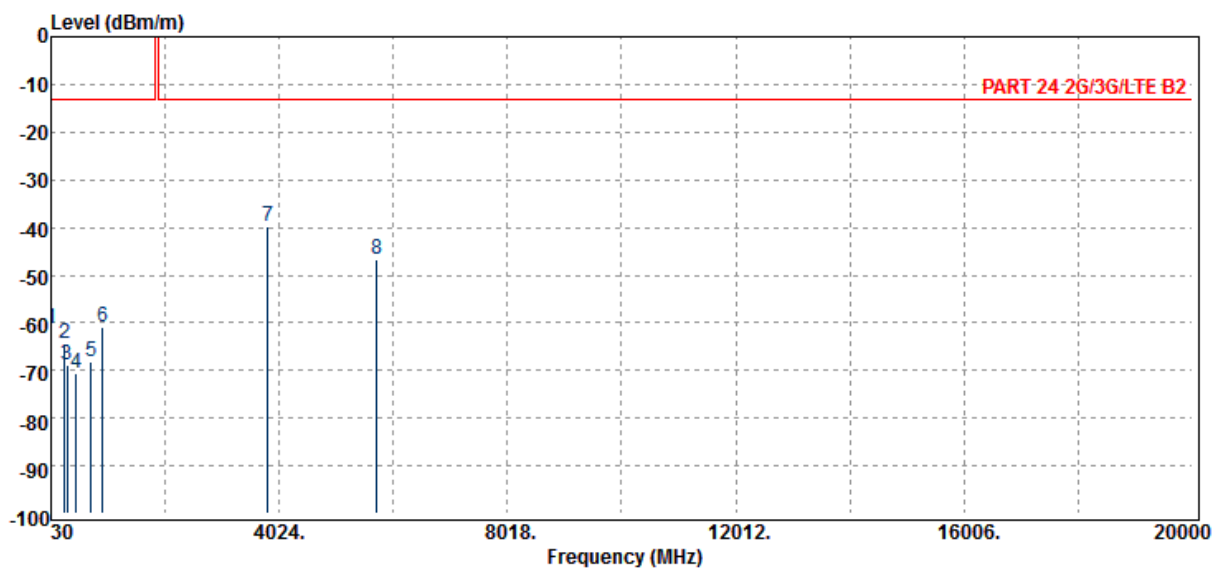
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ARFCN	:CH 810	Test Date	:2015-09-26
Operation Band	:GPRS 1900	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1909.8 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-61.33	-48.58	-11.98	-0.76	-13.00	-48.33
267.65	S	-64.25	-68.34	5.77	-1.69	-13.00	-51.25
318.09	S	-68.97	-72.94	5.83	-1.85	-13.00	-55.97
469.41	S	-70.42	-73.96	5.66	-2.12	-13.00	-57.42
726.46	S	-68.10	-70.94	5.48	-2.64	-13.00	-55.10
938.89	S	-60.82	-63.02	5.39	-3.19	-13.00	-47.82
3819.60	H	-39.84	-41.29	8.50	-7.05	-13.00	-26.84
5729.40	H	-46.86	-48.34	10.12	-8.64	-13.00	-33.86

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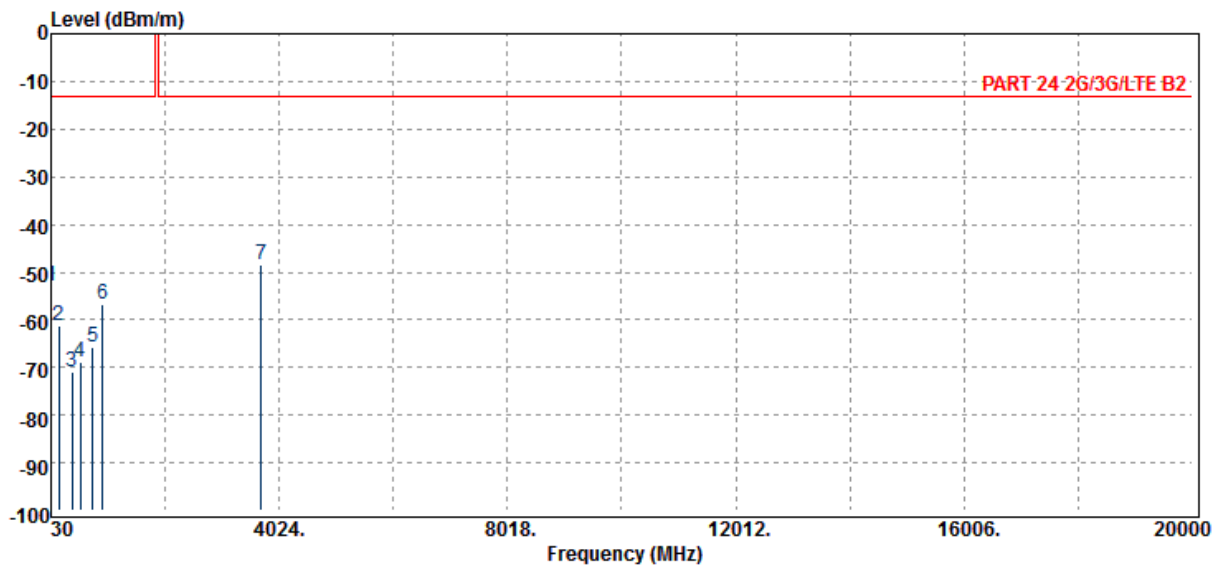
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Radiated Spurious Emission Measurement Result: HSDPA II Mode

ARFCN	:CH 9262	Test Date	:2015-09-26
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
41.64	S	-52.85	-41.52	-10.48	-0.84	-13.00	-39.85
173.56	S	-61.08	-61.64	2.05	-1.49	-13.00	-48.08
393.75	S	-70.87	-74.71	5.79	-1.95	-13.00	-57.87
544.10	S	-69.01	-72.22	5.76	-2.54	-13.00	-56.01
755.56	S	-65.59	-68.33	5.45	-2.71	-13.00	-52.59
936.95	S	-56.66	-58.87	5.39	-3.18	-13.00	-43.66
3704.80	H	-48.28	-49.82	8.43	-6.89	-13.00	-35.28

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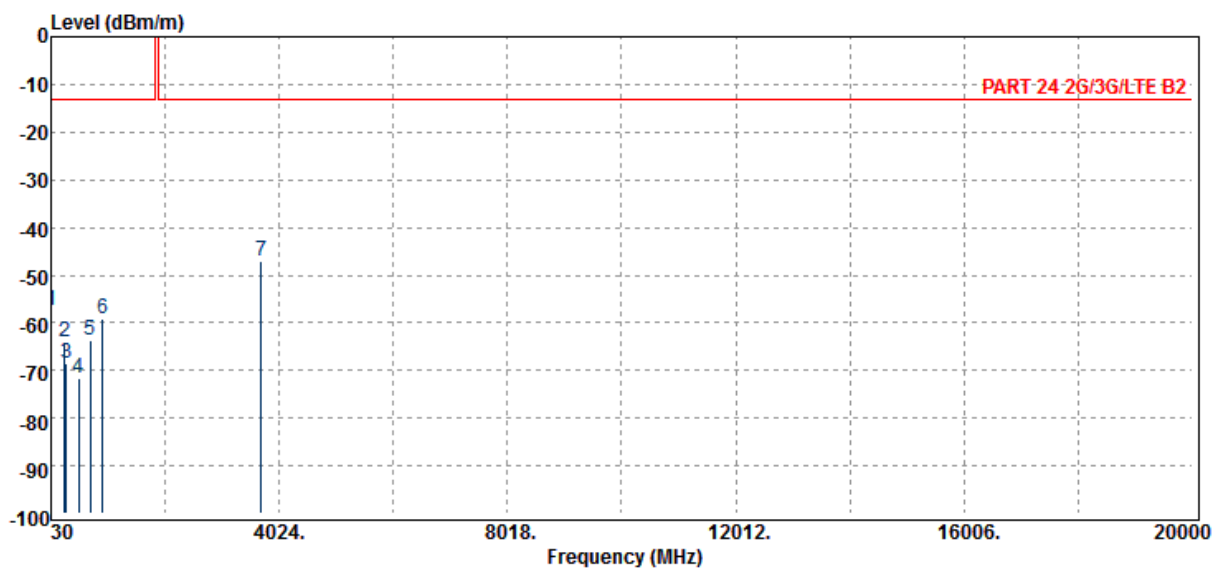
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ARFCN	:CH 9262	Test Date	:2015-09-26
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1852.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-57.29	-44.55	-11.98	-0.76	-13.00	-44.29
269.59	S	-64.04	-68.10	5.76	-1.69	-13.00	-51.04
303.54	S	-68.55	-72.53	5.78	-1.80	-13.00	-55.55
516.94	S	-71.62	-75.07	5.85	-2.40	-13.00	-58.62
721.61	S	-63.50	-66.36	5.49	-2.63	-13.00	-50.50
936.95	S	-59.16	-61.37	5.39	-3.18	-13.00	-46.16
3704.80	H	-47.07	-48.61	8.43	-6.89	-13.00	-34.07

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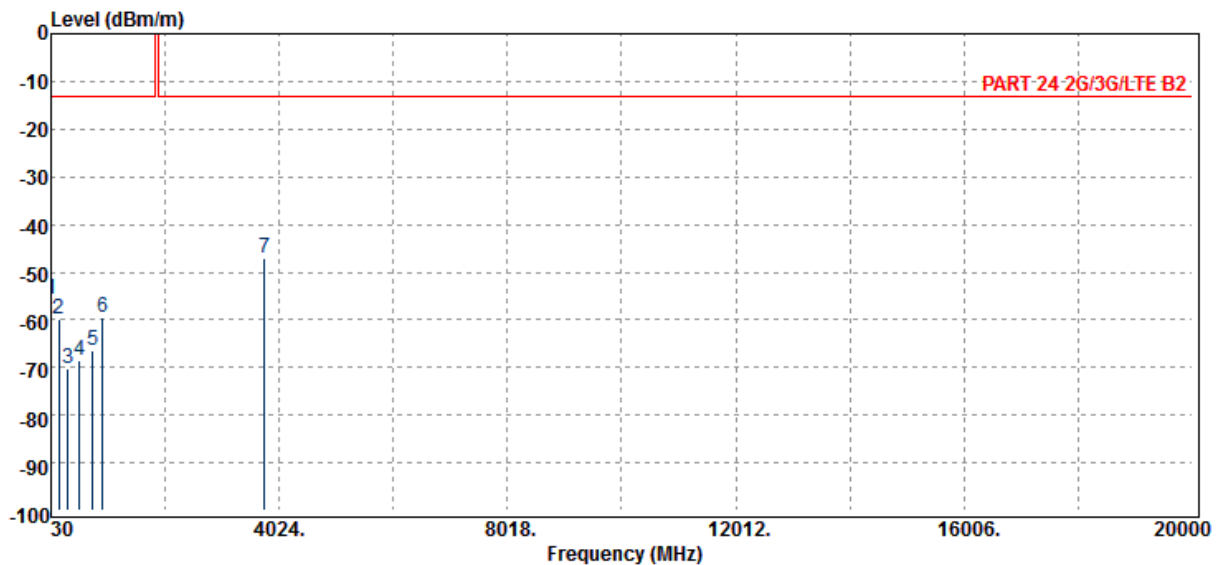
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ARFCN	:CH 9400	Test Date	:2015-09-26
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
41.64	S	-55.78	-44.45	-10.48	-0.84	-13.00	-42.78
173.56	S	-59.87	-60.44	2.05	-1.49	-13.00	-46.87
323.91	S	-70.26	-74.23	5.84	-1.88	-13.00	-57.26
531.49	S	-68.66	-71.99	5.80	-2.48	-13.00	-55.66
760.41	S	-66.51	-69.25	5.47	-2.72	-13.00	-53.51
936.95	S	-59.68	-61.88	5.39	-3.18	-13.00	-46.68
3760.00	H	-47.02	-48.46	8.46	-7.02	-13.00	-34.02

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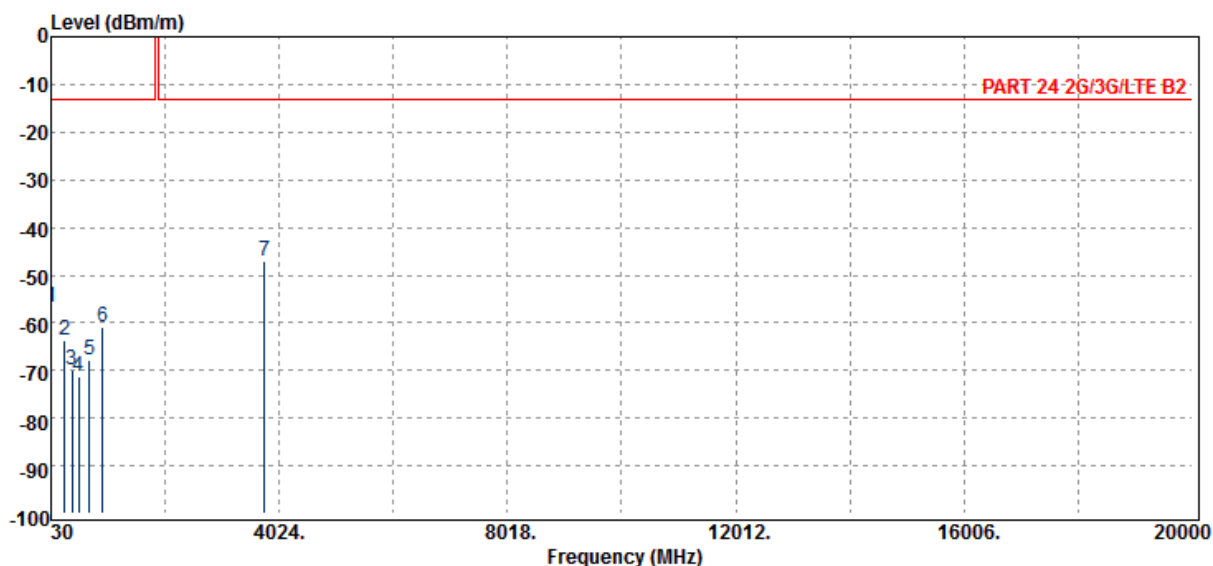
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ARFCN	:CH 9400	Test Date	:2015-09-26
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1880.0 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-56.86	-44.11	-11.98	-0.76	-13.00	-43.86
267.65	S	-63.52	-67.61	5.77	-1.69	-13.00	-50.52
396.66	S	-69.80	-73.63	5.78	-1.95	-13.00	-56.80
519.85	S	-71.11	-74.54	5.84	-2.41	-13.00	-58.11
696.39	S	-67.73	-70.67	5.55	-2.61	-13.00	-54.73
938.89	S	-61.02	-63.22	5.39	-3.19	-13.00	-48.02
3760.00	H	-47.04	-48.48	8.46	-7.02	-13.00	-34.04

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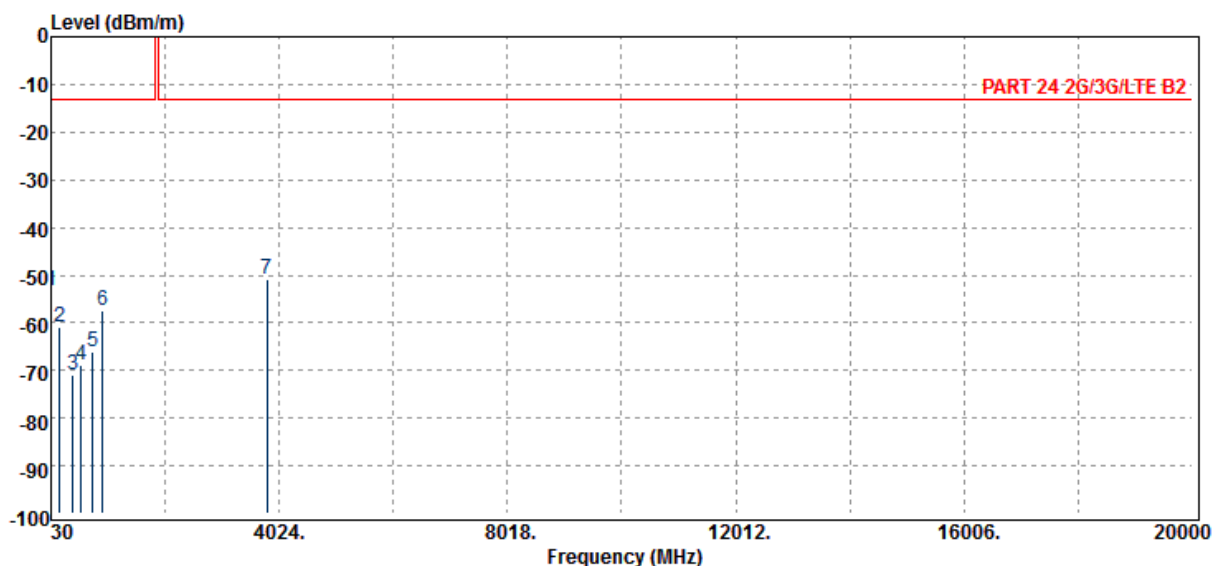
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ARFCN	:CH 9538	Test Date	:2015-09-26
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
30.97	S	-53.45	-40.24	-12.47	-0.74	-13.00	-40.45
175.50	S	-60.82	-61.71	2.38	-1.49	-13.00	-47.82
408.30	S	-70.98	-74.76	5.72	-1.94	-13.00	-57.98
555.74	S	-68.79	-71.90	5.72	-2.60	-13.00	-55.79
759.44	S	-66.23	-68.97	5.46	-2.72	-13.00	-53.23
936.95	S	-57.40	-59.61	5.39	-3.18	-13.00	-44.40
3815.20	H	-50.85	-52.29	8.49	-7.05	-13.00	-37.85

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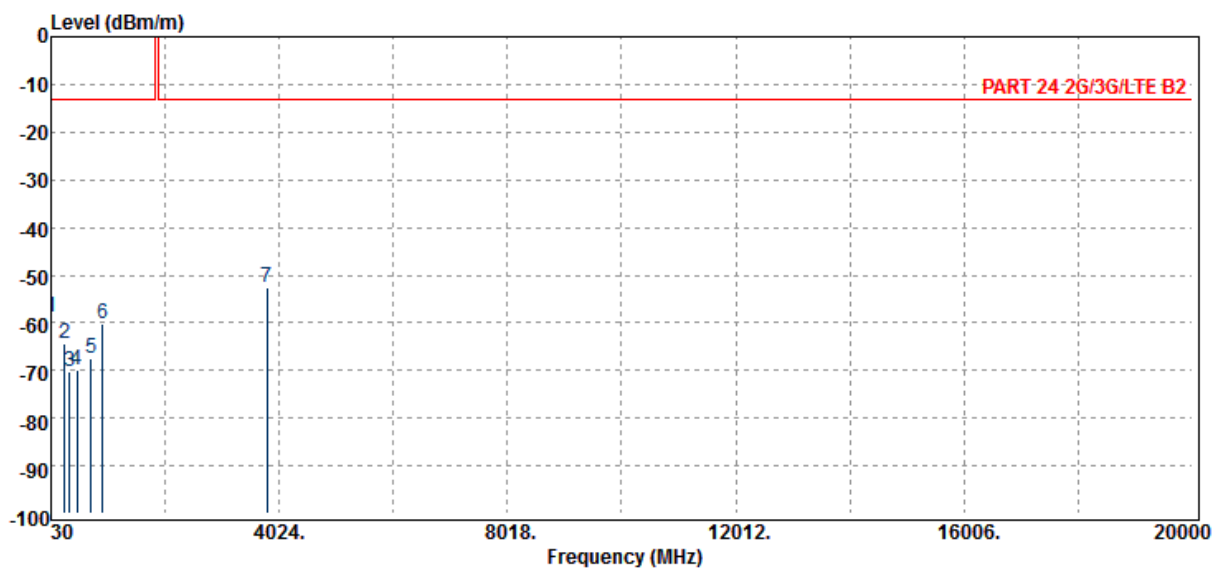
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ARFCN	:CH 9538	Test Date	:2015-09-26
Operation Band	:HSDPA B2	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1907.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
32.91	S	-58.69	-45.94	-11.98	-0.76	-13.00	-45.69
269.59	S	-64.52	-68.59	5.76	-1.69	-13.00	-51.52
361.74	S	-70.15	-74.06	5.88	-1.96	-13.00	-57.15
478.14	S	-69.93	-73.49	5.73	-2.17	-13.00	-56.93
725.49	S	-67.42	-70.27	5.48	-2.64	-13.00	-54.42
936.95	S	-60.36	-62.57	5.39	-3.18	-13.00	-47.36
3815.20	H	-52.69	-54.14	8.49	-7.05	-13.00	-39.69

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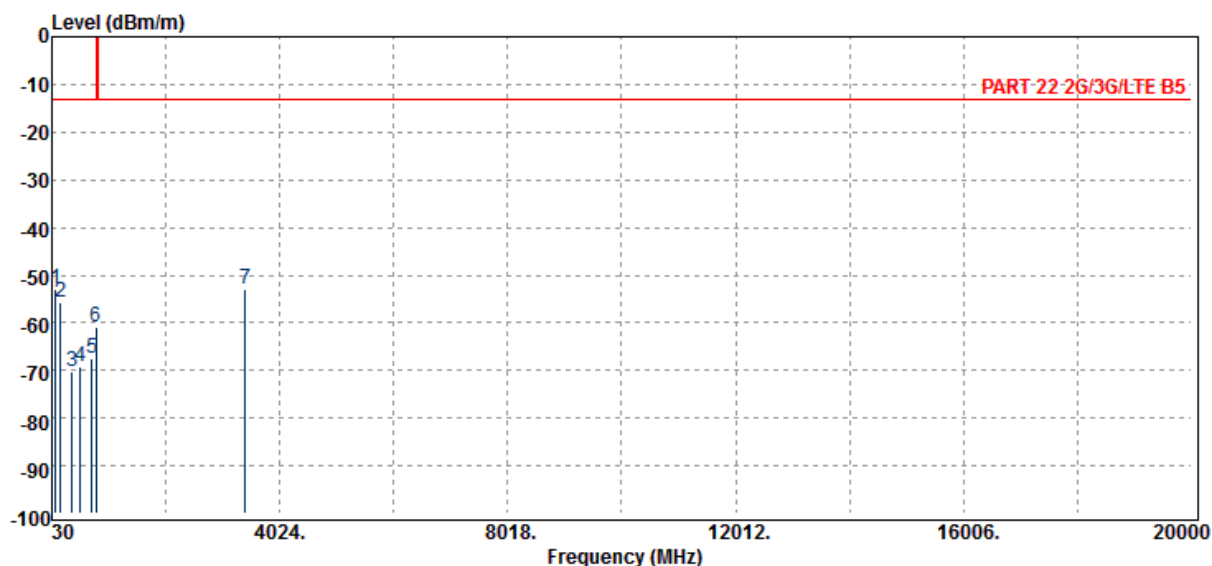
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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

ARFCN	:CH 1312	Test Date	:2015-09-26
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
90.14	S	-52.91	-51.37	-0.45	-1.09	-13.00	-39.91
175.50	S	-55.68	-54.42	0.23	-1.49	-13.00	-42.68
382.11	S	-70.39	-72.11	3.67	-1.95	-13.00	-57.39
531.49	S	-69.07	-70.24	3.65	-2.48	-13.00	-56.07
736.16	S	-67.48	-68.13	3.31	-2.66	-13.00	-54.48
800.00	S	-61.01	-61.60	3.44	-2.85	-13.00	-48.01
3424.80	H	-52.94	-54.48	8.09	-6.54	-13.00	-39.94

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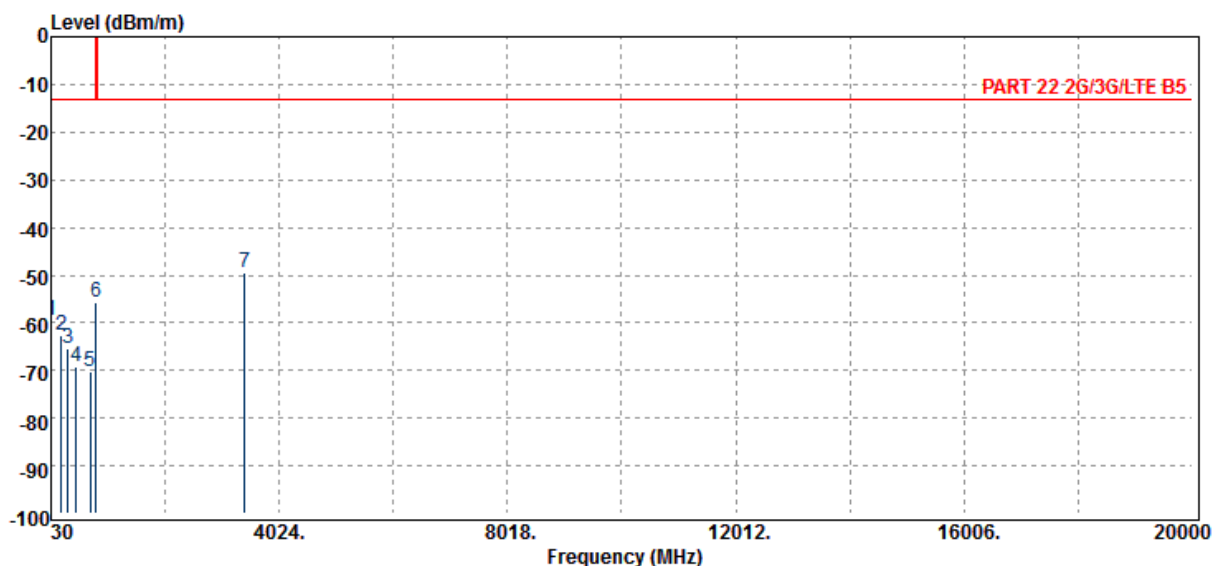
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ARFCN	:CH 1312	Test Date	:2015-09-26
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1712.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
34.85	S	-59.64	-45.18	-13.67	-0.78	-13.00	-46.64
206.54	S	-62.73	-64.73	3.55	-1.54	-13.00	-49.73
332.64	S	-65.25	-67.06	3.72	-1.91	-13.00	-52.25
464.56	S	-69.12	-70.49	3.47	-2.11	-13.00	-56.12
721.61	S	-70.25	-70.96	3.34	-2.63	-13.00	-57.25
811.20	S	-55.64	-56.19	3.45	-2.89	-13.00	-42.64
3424.80	H	-49.49	-51.03	8.09	-6.54	-13.00	-36.49

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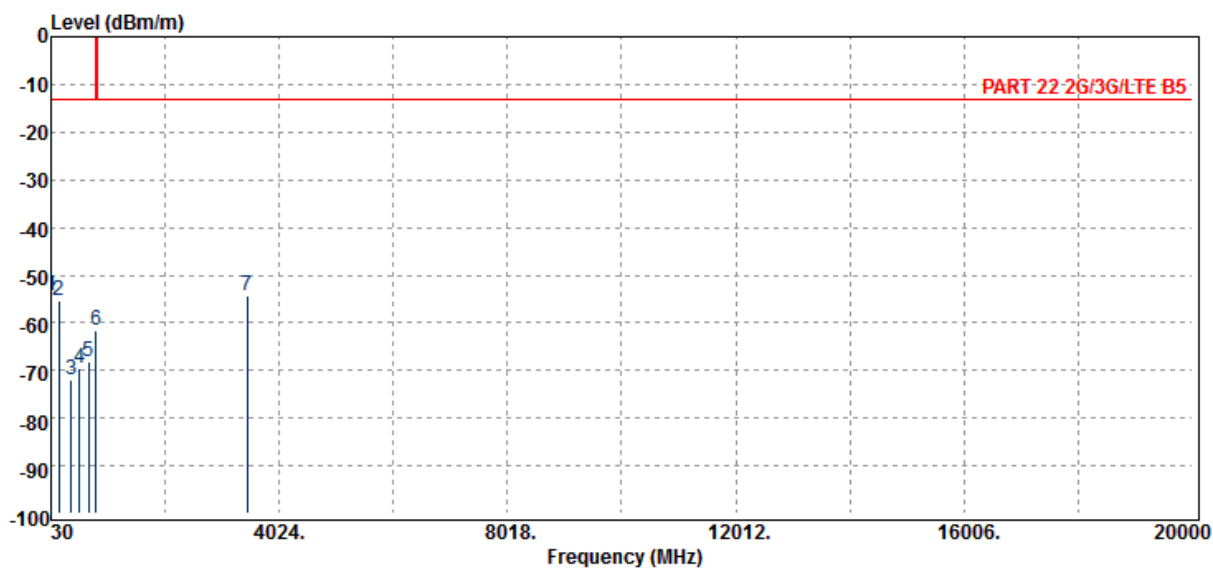
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ARFCN	:CH 1413	Test Date	:2015-09-26
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
30.97	S	-54.28	-38.92	-14.62	-0.74	-13.00	-41.28
173.56	S	-55.33	-53.74	-0.10	-1.49	-13.00	-42.33
382.11	S	-71.93	-73.64	3.67	-1.95	-13.00	-58.93
532.46	S	-69.50	-70.66	3.65	-2.48	-13.00	-56.50
689.60	S	-68.24	-69.06	3.43	-2.62	-13.00	-55.24
814.40	S	-61.68	-62.23	3.45	-2.90	-13.00	-48.68
3465.20	H	-54.34	-56.01	8.20	-6.53	-13.00	-41.34

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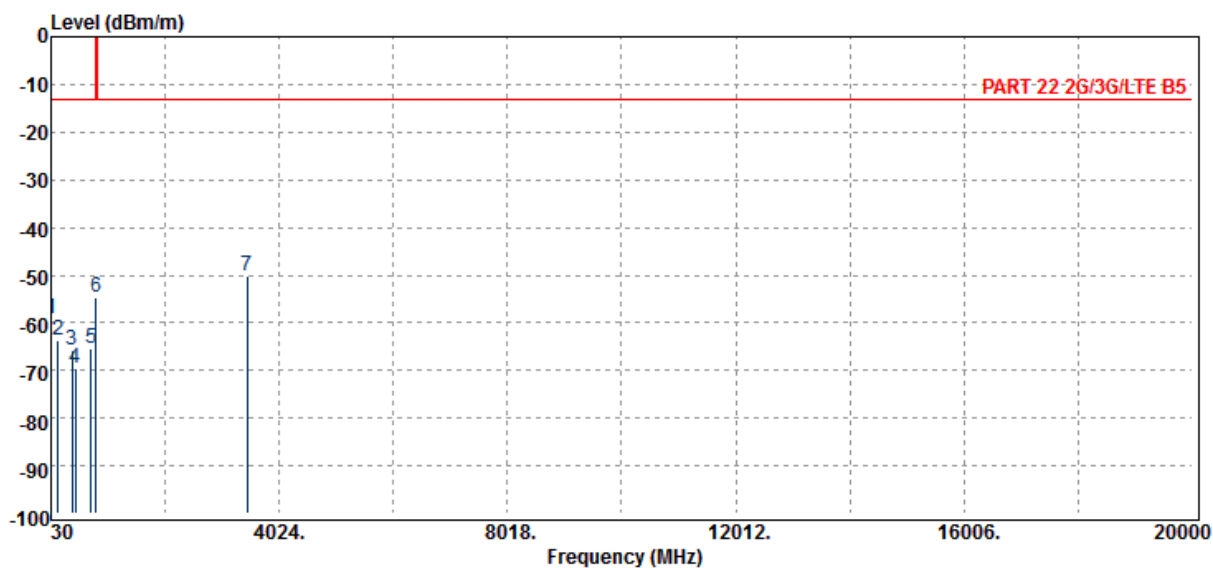
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ARFCN	:CH 1413	Test Date	:2015-09-26
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1732.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
34.85	S	-59.33	-44.88	-13.67	-0.78	-13.00	-46.33
156.10	S	-63.50	-60.39	-1.69	-1.42	-13.00	-50.50
400.54	S	-65.74	-67.42	3.62	-1.95	-13.00	-52.74
460.68	S	-69.49	-70.83	3.44	-2.10	-13.00	-56.49
728.40	S	-65.42	-66.10	3.32	-2.64	-13.00	-52.42
815.60	S	-54.73	-55.28	3.45	-2.91	-13.00	-41.73
3465.20	H	-50.32	-51.99	8.20	-6.53	-13.00	-37.32

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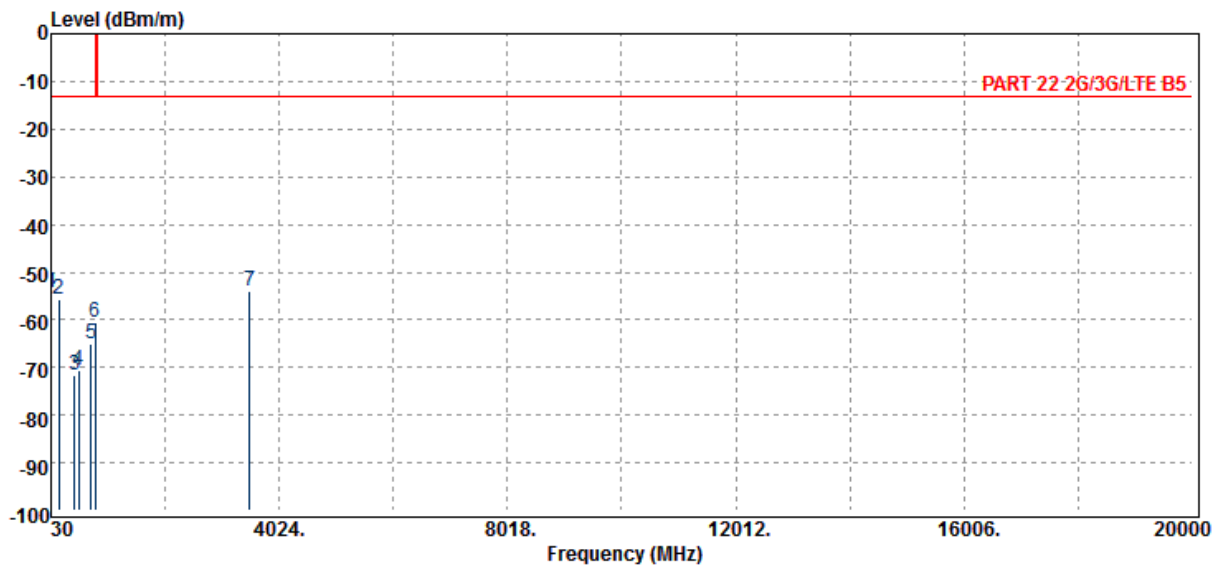
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ARFCN	:CH 1513	Test Date	:2015-09-26
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
30.97	S	-54.29	-38.93	-14.62	-0.74	-13.00	-41.29
173.56	S	-55.65	-54.06	-0.10	-1.49	-13.00	-42.65
444.19	S	-71.76	-73.09	3.37	-2.05	-13.00	-58.76
510.15	S	-70.64	-72.00	3.72	-2.36	-13.00	-57.64
730.34	S	-65.06	-65.73	3.32	-2.65	-13.00	-52.06
805.70	S	-60.63	-61.20	3.44	-2.87	-13.00	-47.63
3505.20	H	-53.98	-55.61	8.30	-6.68	-13.00	-40.98

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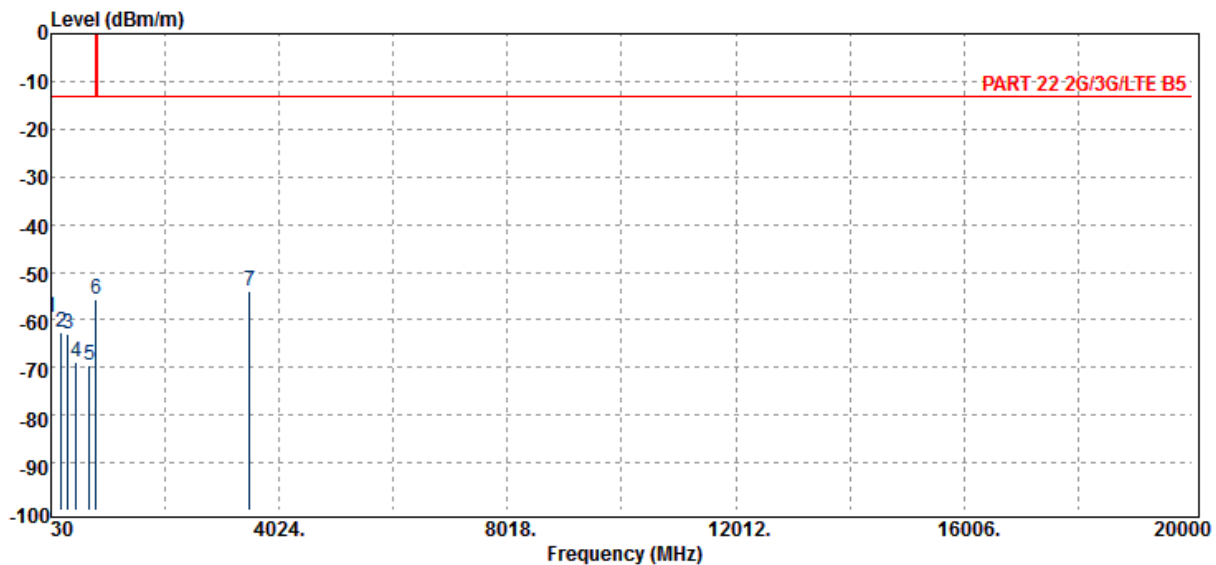
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ARFCN	:CH 1513	Test Date	:2015-09-26
Operation Band	:WCDMA B4	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:1752.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	EIRP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBi	Loss dB	dBm	dB
34.85	S	-59.62	-45.16	-13.67	-0.78	-13.00	-46.62
207.51	S	-62.50	-64.55	3.60	-1.55	-13.00	-49.50
330.70	S	-62.86	-64.66	3.71	-1.90	-13.00	-49.86
466.50	S	-68.78	-70.15	3.49	-2.11	-13.00	-55.78
701.24	S	-69.52	-70.29	3.38	-2.61	-13.00	-56.52
814.32	S	-55.54	-56.09	3.45	-2.90	-13.00	-42.54
3505.20	H	-54.05	-55.67	8.30	-6.68	-13.00	-41.05

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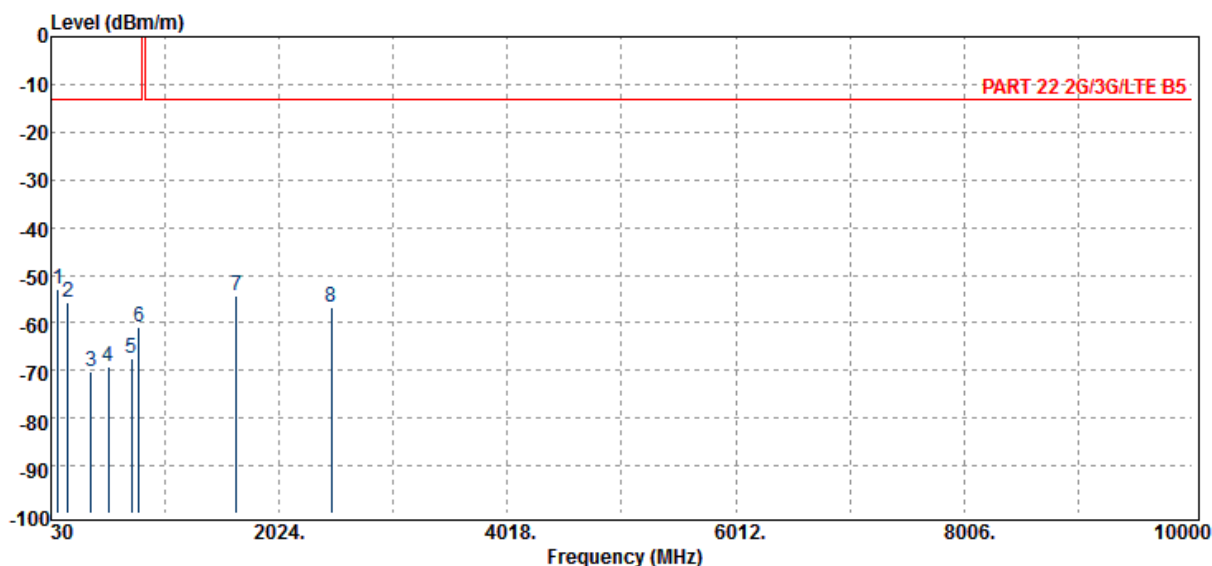
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Radiated Spurious Emission Measurement Result: HSDPA V Mode

ARFCN	:CH 4132	Test Date	:2015-09-26
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
90.14	S	-52.91	-51.37	-0.45	-1.09	-13.00	-39.91
175.50	S	-55.68	-54.42	0.23	-1.49	-13.00	-42.68
382.11	S	-70.39	-72.11	3.67	-1.95	-13.00	-57.39
531.49	S	-69.07	-70.24	3.65	-2.48	-13.00	-56.07
736.16	S	-67.48	-68.13	3.31	-2.66	-13.00	-54.48
800.00	S	-61.01	-61.60	3.44	-2.85	-13.00	-48.01
1652.80	H	-54.41	-53.24	3.05	-4.22	-13.00	-41.41
2479.20	H	-56.66	-54.94	3.61	-5.32	-13.00	-43.66

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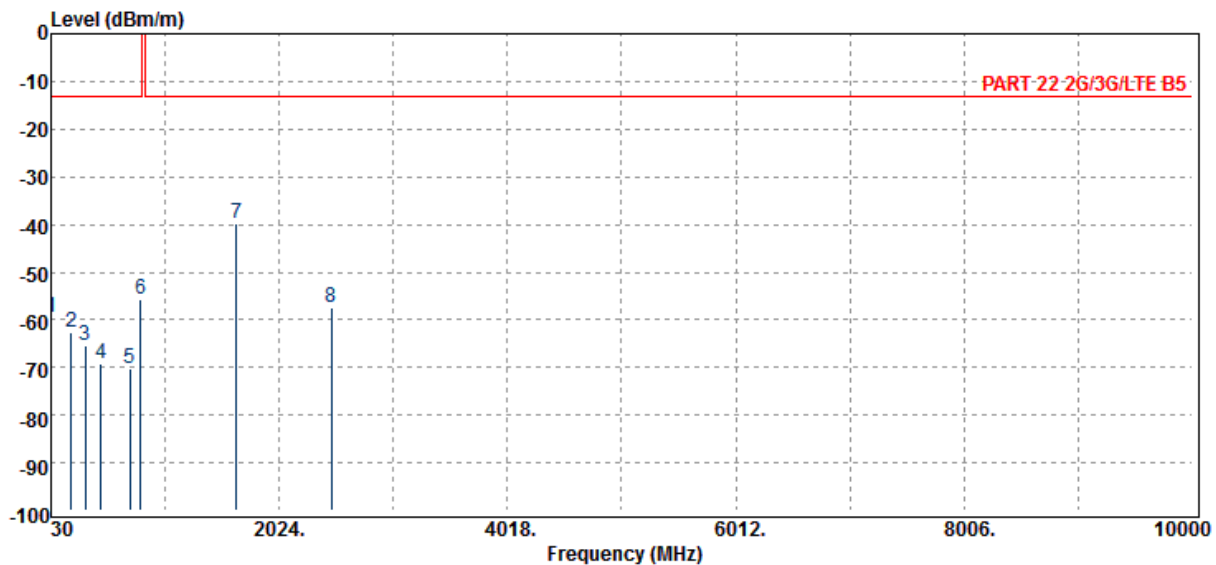
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ARFCN	:CH 4132	Test Date	:2015-09-26
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:826.4 MHz	Engineer	:Curry
Operation Mode	:TX LOW		
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
34.85	S	-59.64	-45.18	-13.67	-0.78	-13.00	-46.64
206.54	S	-62.73	-64.73	3.55	-1.54	-13.00	-49.73
332.64	S	-65.25	-67.06	3.72	-1.91	-13.00	-52.25
464.56	S	-69.12	-70.49	3.47	-2.11	-13.00	-56.12
721.61	S	-70.25	-70.96	3.34	-2.63	-13.00	-57.25
813.00	S	-55.64	-56.19	3.45	-2.90	-13.00	-42.64
1652.80	H	-39.80	-38.63	3.05	-4.22	-13.00	-26.80
2479.20	H	-57.39	-55.67	3.61	-5.32	-13.00	-44.39

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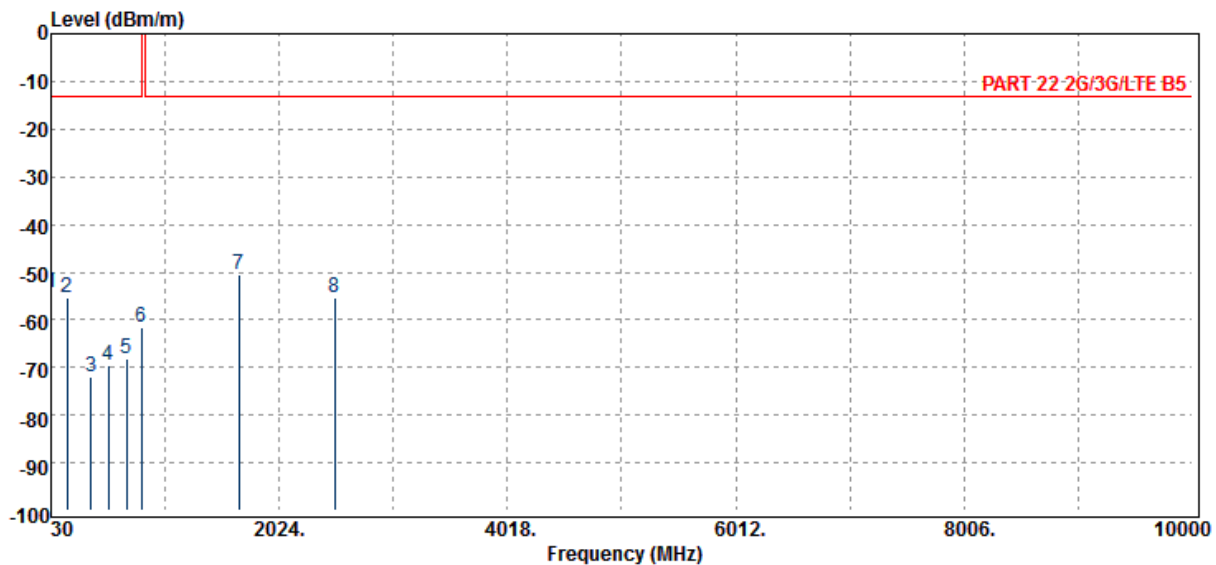
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ARFCN	:CH 4183	Test Date	:2015-09-26
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-54.28	-38.92	-14.62	-0.74	-13.00	-41.28
173.56	S	-55.33	-53.74	-0.10	-1.49	-13.00	-42.33
382.11	S	-71.93	-73.64	3.67	-1.95	-13.00	-58.93
532.46	S	-69.50	-70.66	3.65	-2.48	-13.00	-56.50
689.60	S	-68.24	-69.06	3.43	-2.62	-13.00	-55.24
817.00	S	-61.68	-62.22	3.45	-2.91	-13.00	-48.68
1673.20	H	-50.45	-49.20	3.01	-4.26	-13.00	-37.45
2509.80	H	-55.49	-53.81	3.67	-5.35	-13.00	-42.49

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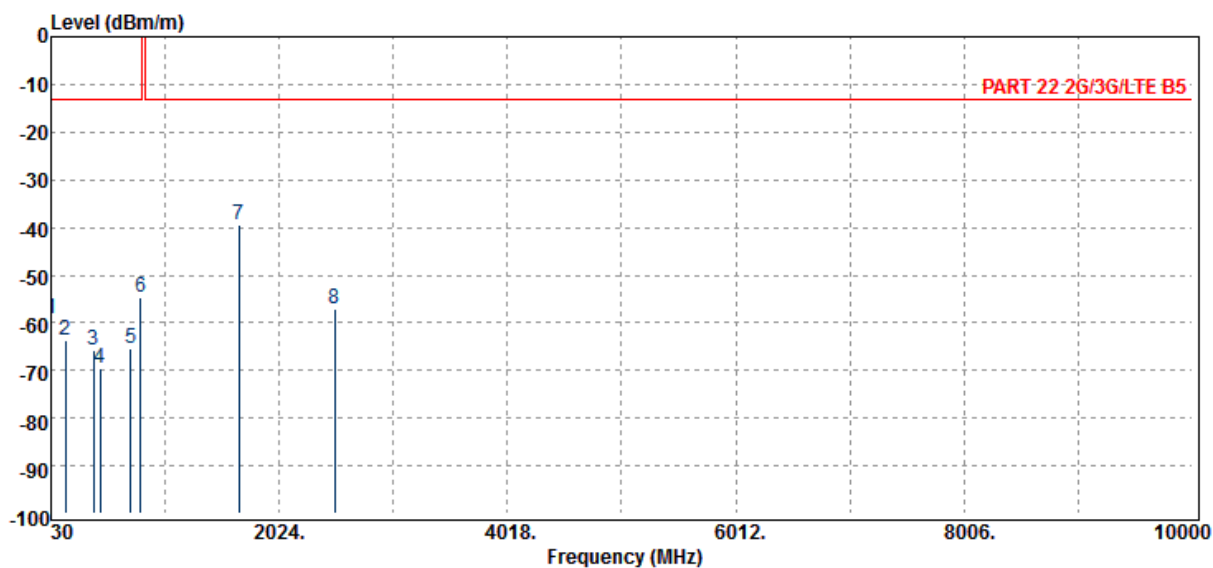
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ARFCN	:CH 4183	Test Date	:2015-09-26
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:836.6 MHz	Engineer	:Curry
Operation Mode	:TX MID		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
34.85	S	-59.33	-44.88	-13.67	-0.78	-13.00	-46.33
156.10	S	-63.50	-60.39	-1.69	-1.42	-13.00	-50.50
400.54	S	-65.74	-67.42	3.62	-1.95	-13.00	-52.74
460.68	S	-69.49	-70.83	3.44	-2.10	-13.00	-56.49
728.40	S	-65.42	-66.10	3.32	-2.64	-13.00	-52.42
816.00	S	-54.73	-55.27	3.45	-2.91	-13.00	-41.73
1673.20	H	-39.48	-38.23	3.01	-4.26	-13.00	-26.48
2509.80	H	-56.93	-55.25	3.67	-5.35	-13.00	-43.93

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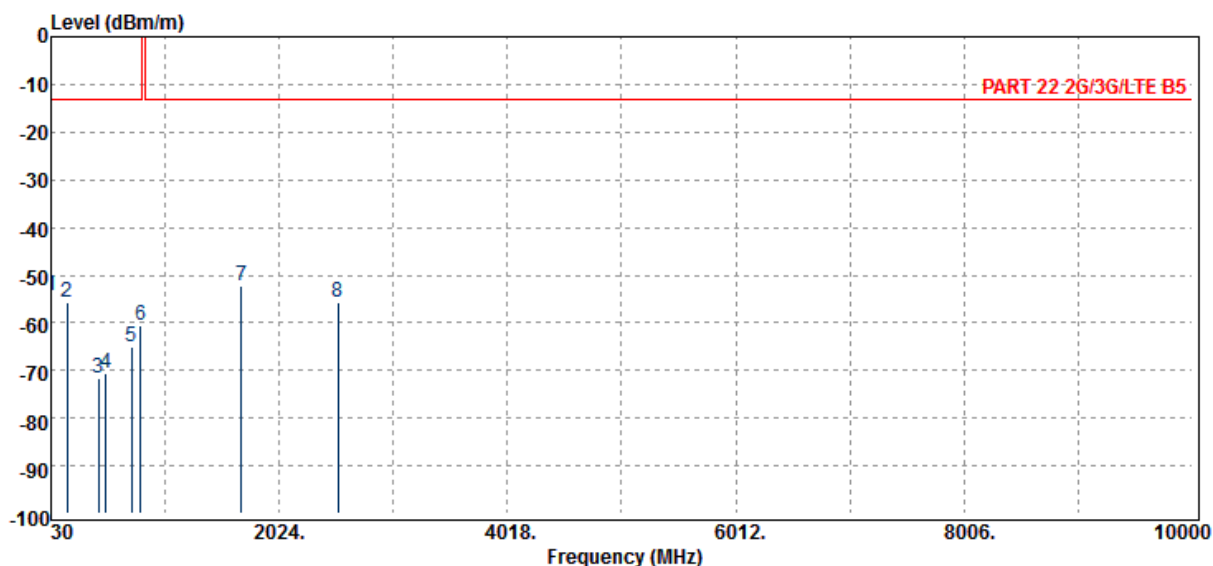
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ARFCN	:CH 4233	Test Date	:2015-09-26
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :VERTICAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
30.97	S	-54.29	-38.93	-14.62	-0.74	-13.00	-41.29
173.56	S	-55.65	-54.06	-0.10	-1.49	-13.00	-42.65
444.19	S	-71.76	-73.09	3.37	-2.05	-13.00	-58.76
510.15	S	-70.64	-72.00	3.72	-2.36	-13.00	-57.64
730.34	S	-65.06	-65.73	3.32	-2.65	-13.00	-52.06
810.00	S	-60.63	-61.19	3.45	-2.89	-13.00	-47.63
1693.20	H	-52.09	-50.78	2.97	-4.27	-13.00	-39.09
2539.80	H	-55.80	-54.14	3.74	-5.40	-13.00	-42.80

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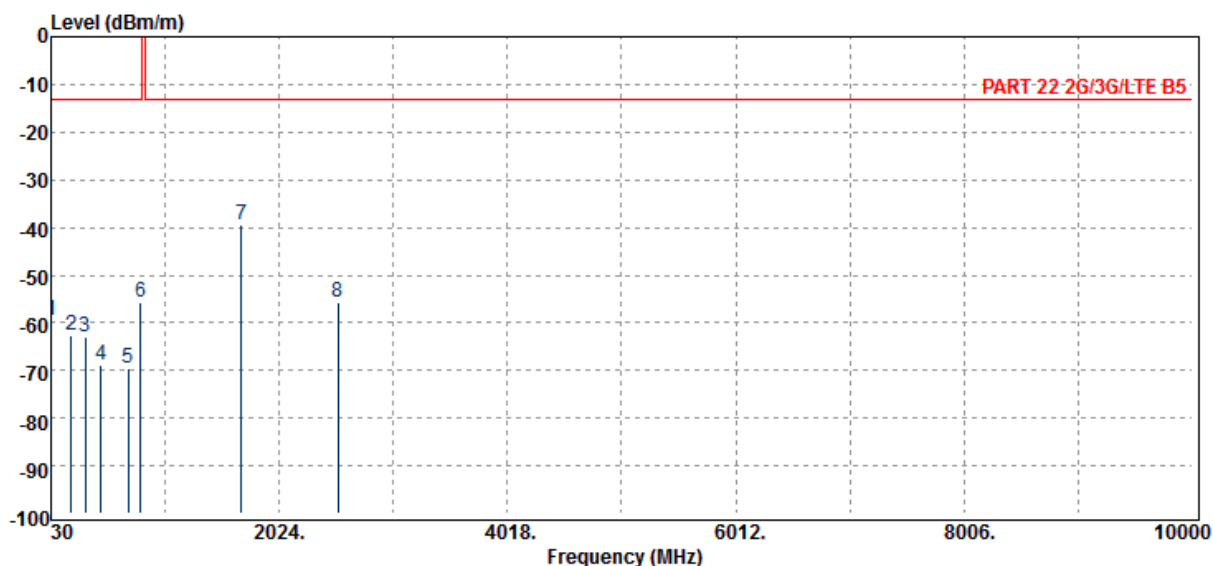
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ARFCN	:CH 4233	Test Date	:2015-09-26
Operation Band	:HSDPA B5	Temp./Humi.	:22 deg_C / 62 RH
Fundamental Frequency	:846.6 MHz	Engineer	:Curry
Operation Mode	:TX HIGH		
EUT Pol.	:E2 Plane	Measurement Pol.	Antenna :HORIZONTAL



Freq.	Note	ERP	SG	Antenna	Cable	Limit	Margin
MHz	F/H/E/S	dBm	Output Level dBm	Gain dBd	Loss dB	dBm	dB
34.85	S	-59.62	-45.16	-13.67	-0.78	-13.00	-46.62
207.51	S	-62.50	-64.55	3.60	-1.55	-13.00	-49.50
330.70	S	-62.86	-64.66	3.71	-1.90	-13.00	-49.86
466.50	S	-68.78	-70.15	3.49	-2.11	-13.00	-55.78
701.24	S	-69.52	-70.29	3.38	-2.61	-13.00	-56.52
816.00	S	-55.54	-56.08	3.45	-2.91	-13.00	-42.54
1693.20	H	-39.47	-38.17	2.97	-4.27	-13.00	-26.47
2539.80	H	-55.85	-54.19	3.74	-5.40	-13.00	-42.85

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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable:

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2. Test Set-up:

Note: Measurement setup for testing on Antenna connector.

11.3. 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.

Set chamber temperature to 25 . Use a variable AC power supply / DC power source to power

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11.4. Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	KR93300208	08/14/2015	08/13/2016

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11.5. Measurement Result:**FREQUENCY ERROR vs. VOLTAGE**

Reference Frequency: GPRS 850 Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency		
Vdc	Temperature (Delta (Hz)	Limit (Hz)

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (

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FREQUENCY ERROR vs. VOLTAGE

Reference Frequency: WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature			
	(

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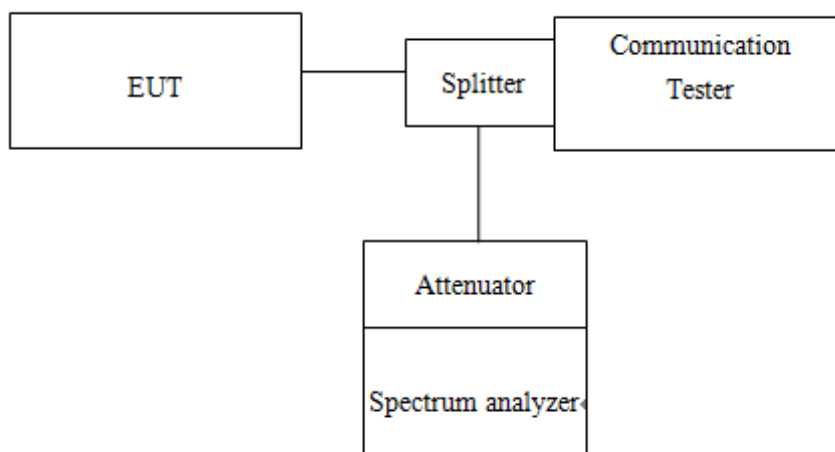
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

The peak-to-average ration (PAR) of the transmission may not exceed 13dB.

12.2. Test SET-UP



12.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2015	01/28/2016
Spectrum Analyzer	Agilent	E4440A	MY45304525	05/05/2015	05/04/2016
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2015	02/10/2016
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2015	05/05/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016
Splitter	Agilent	11636B	N/A	01/02/2015	01/01/2016
DC Power Supply	Agilent	E3640A	KR93300208	08/14/2015	08/13/2016

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12.5. Measurement Result

Tabular Results:

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
824.20	128	10.42	11.54
836.60	190	10.54	12.21
848.80	251	8.74	12.66

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)	
		GPRS	EDGE
1850.20	512	10.46	12.24
1880.00	661	9.75	11.54
1909.80	810	9.02	11.59

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Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1850.20	9262	3.14	4.12	3.73
1880.00	9400	3.07	3.78	3.86
1909.80	9538	2.89	3.87	3.60

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA IV	HSDPA IV	HSUPA IV
1712.4	1312	2.99	3.82	3.75
1732.6	1413	3.06	3.67	3.84
1752.6	1513	2.98	3.74	3.83

Frequency (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA V	HSDPA V	HSUPA V
826.40	4132	3.26	4.08	3.89
836.60	4183	3.20	3.98	3.87
846.60	4233	3.22	4.02	4.05

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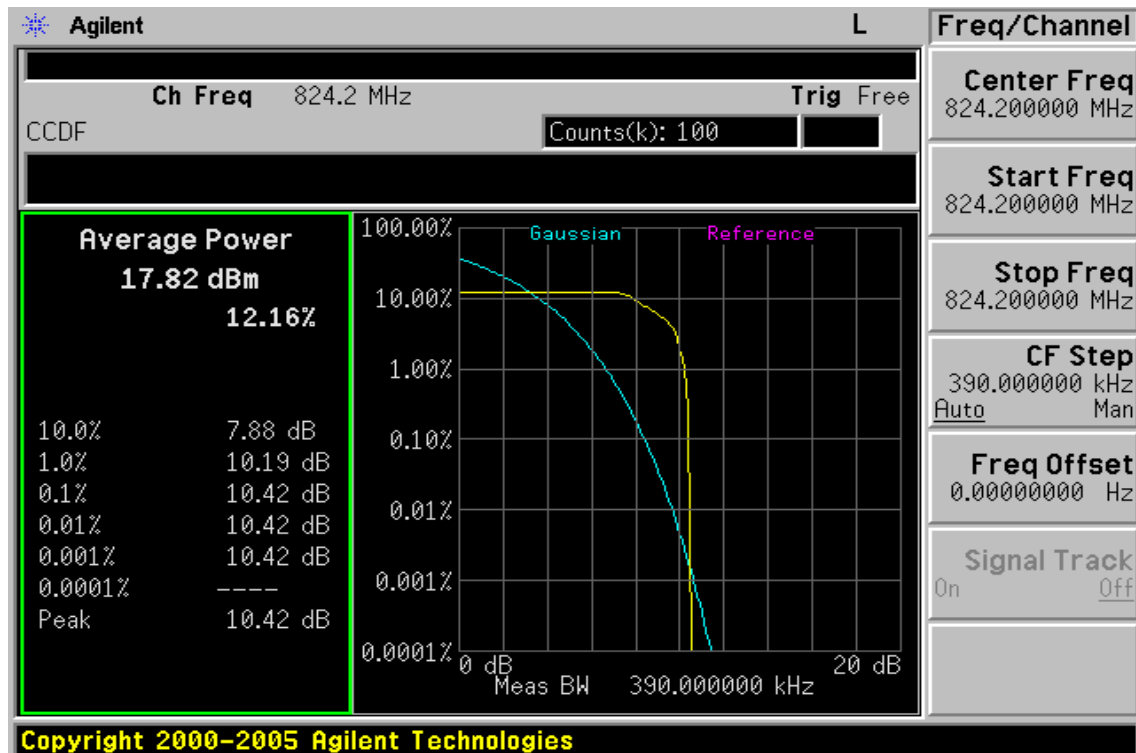
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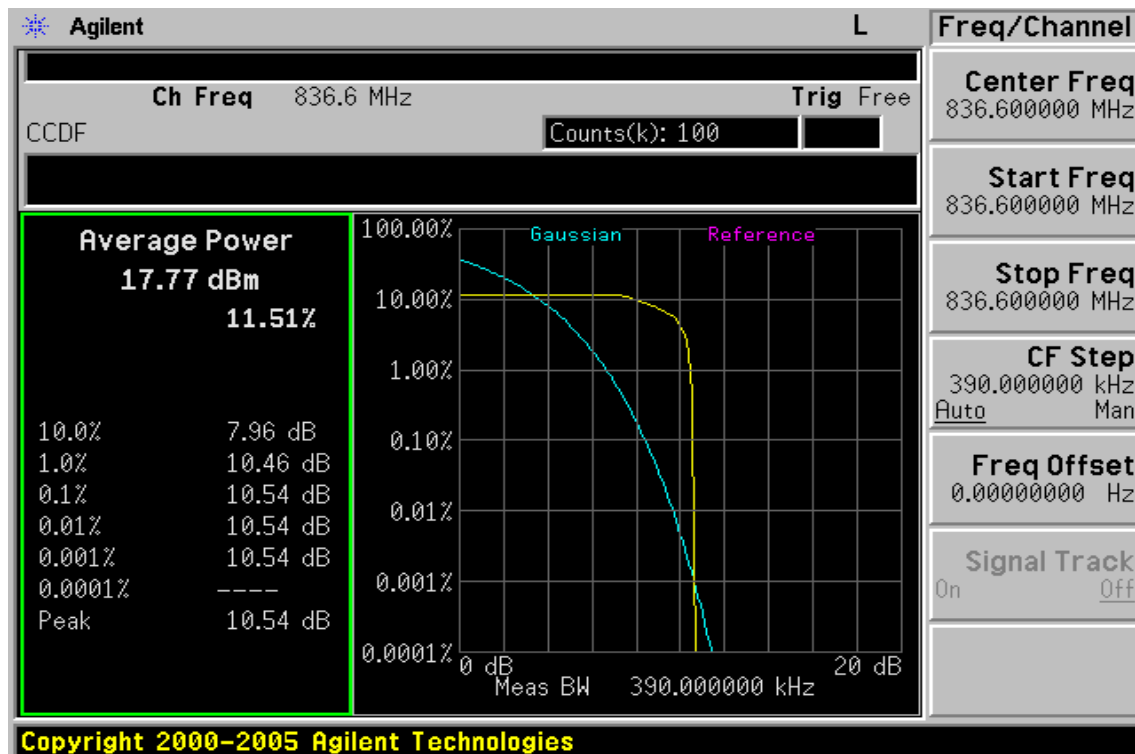
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Measurement Results:

GPRS 850 Channel Low



GPRS 850 Channel Mid



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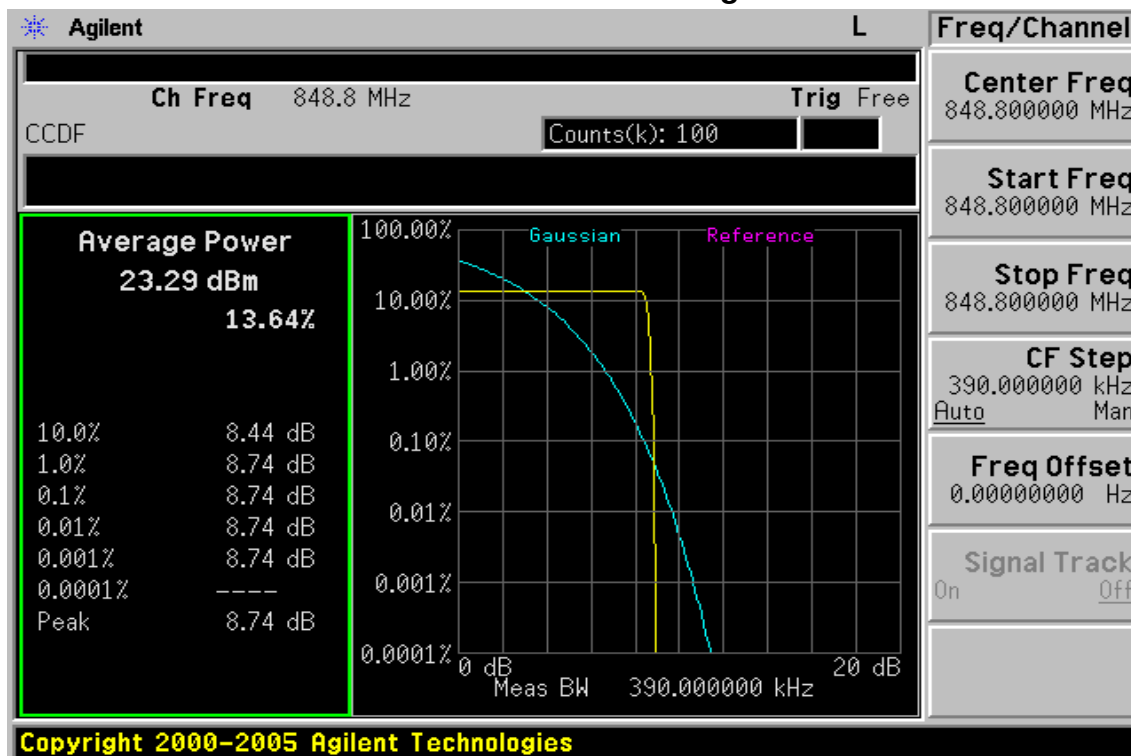
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GPRS 850 Channel High



GPRS 1900 Channel Low



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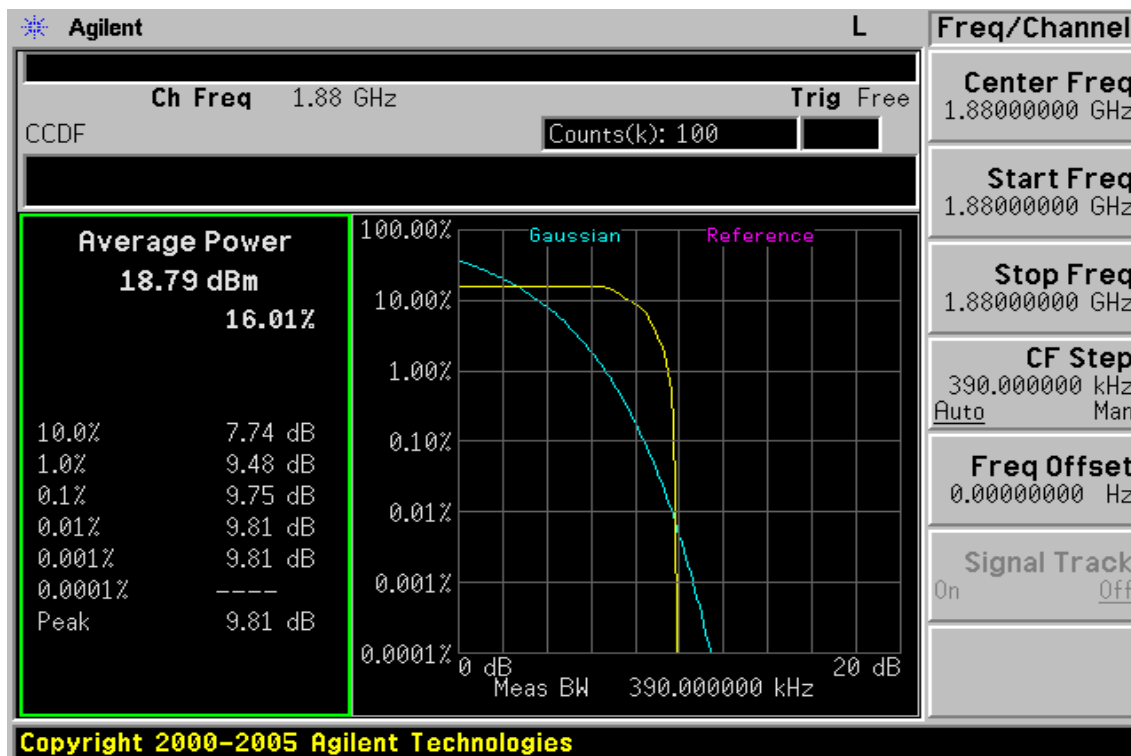
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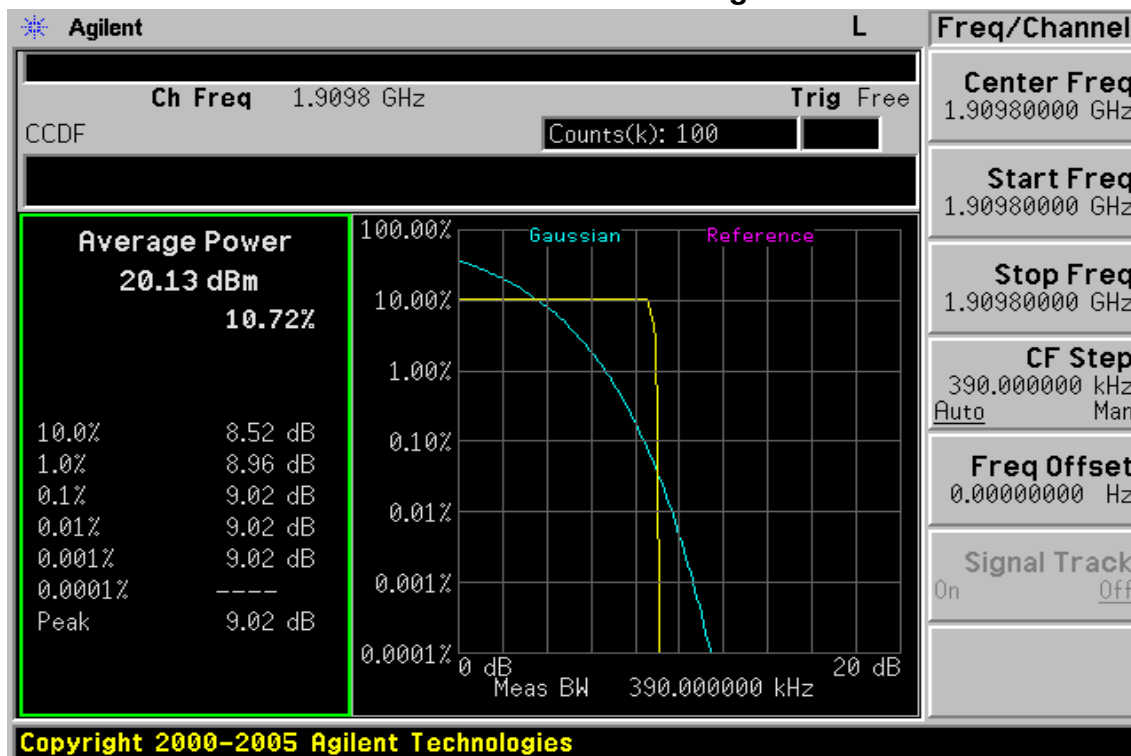
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GPRS 1900 Channel Mid



GPRS 1900 Channel High



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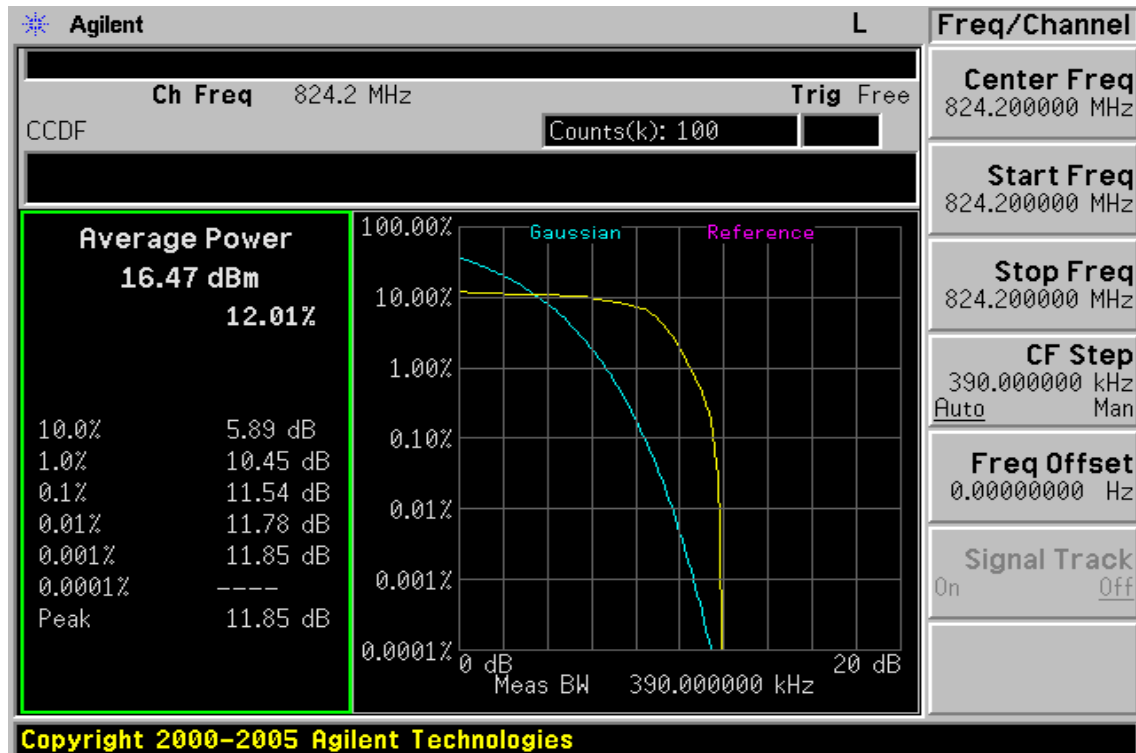
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EDGE 850 Channel Low



EDGE 850 Channel Mid



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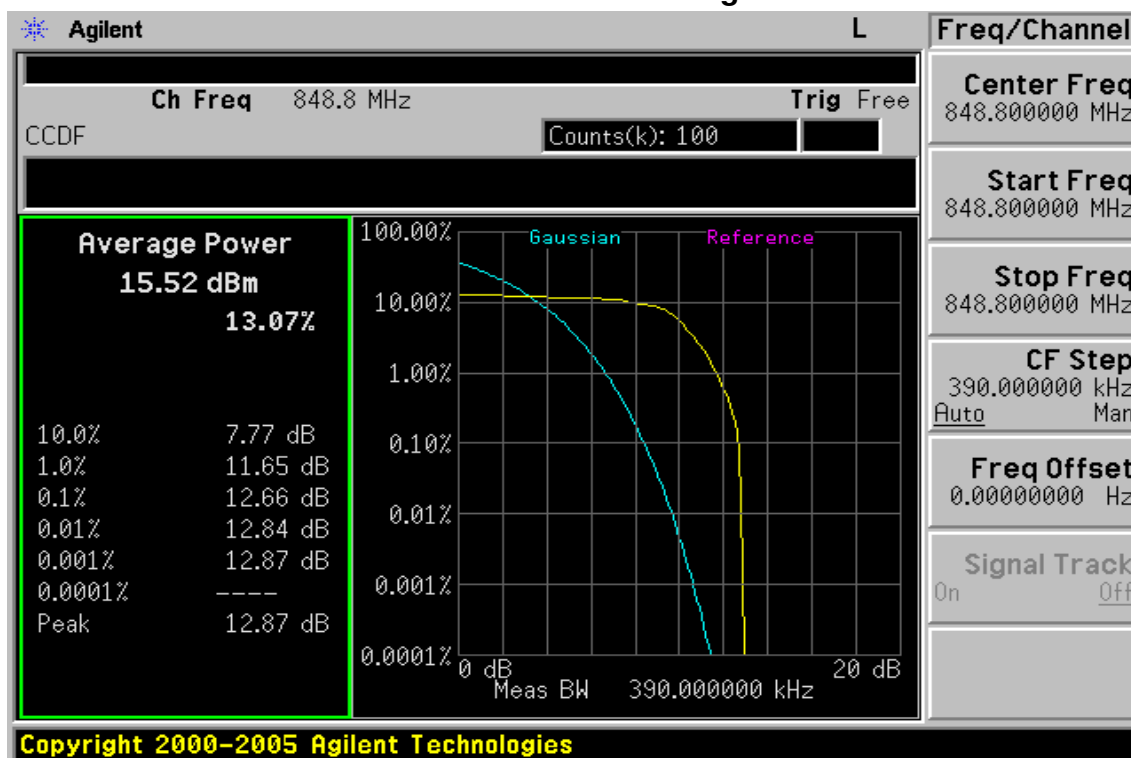
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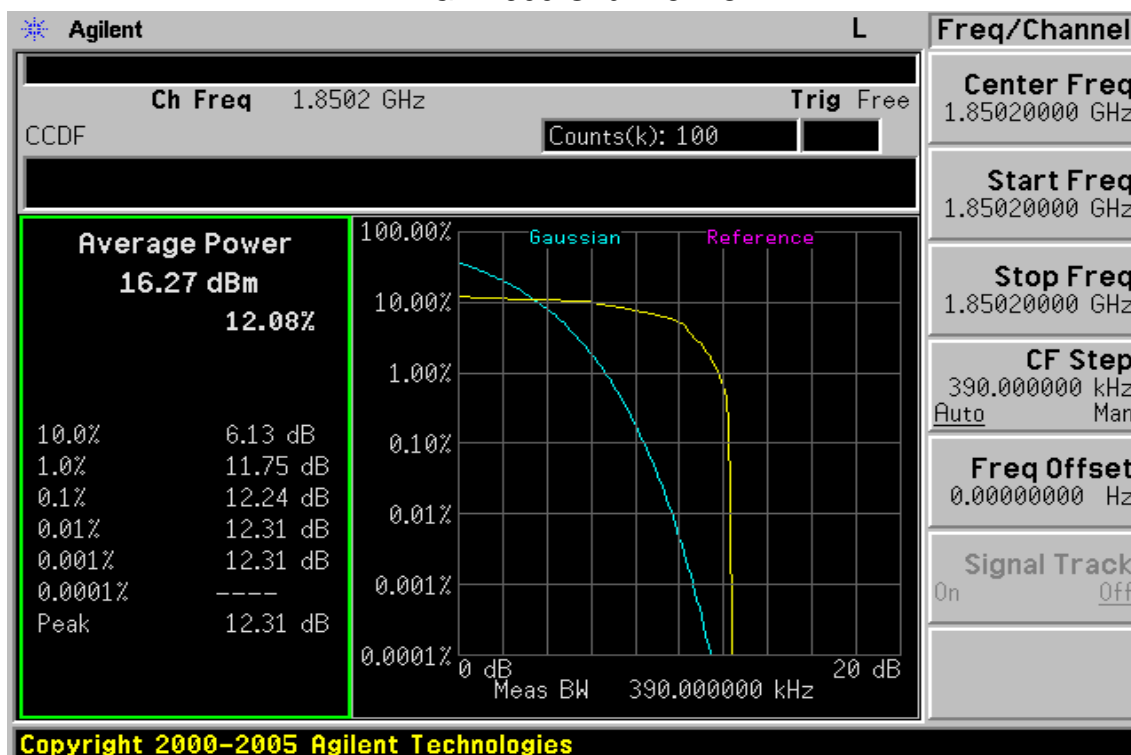
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EDGE 850 Channel High



EDGE 1900 Channel Low



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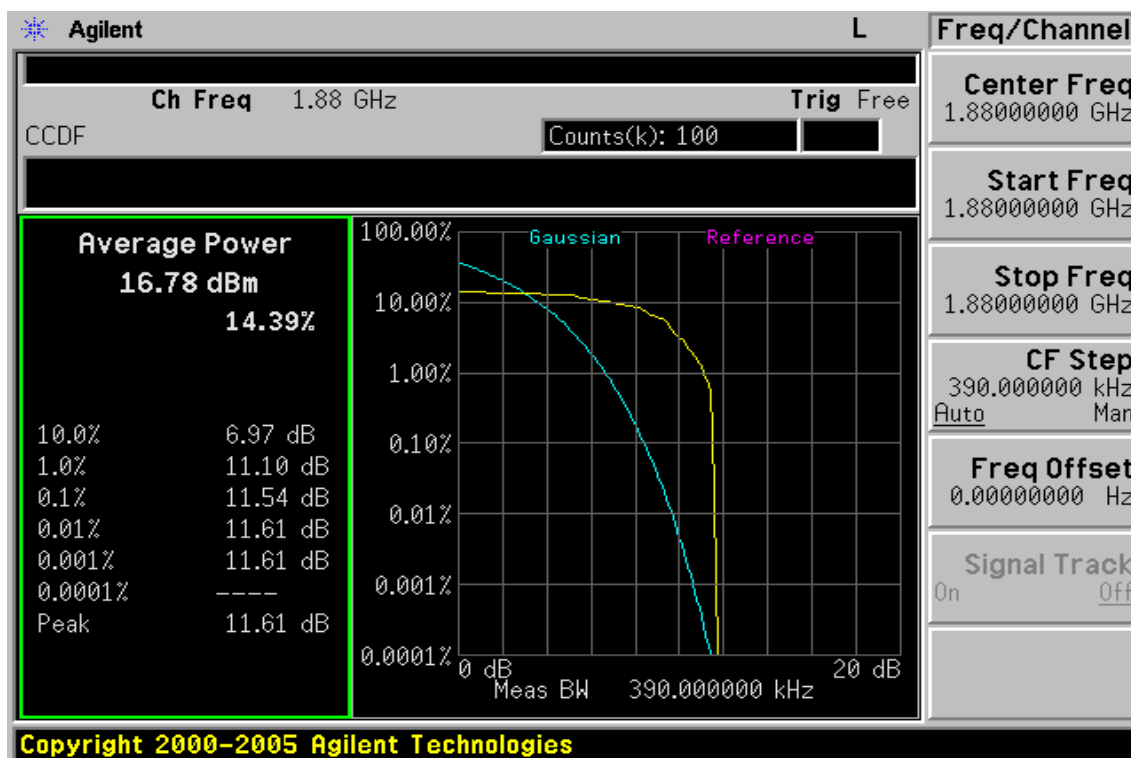
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EDGE 1900 Channel Mid



EDGE 1900 Channel High



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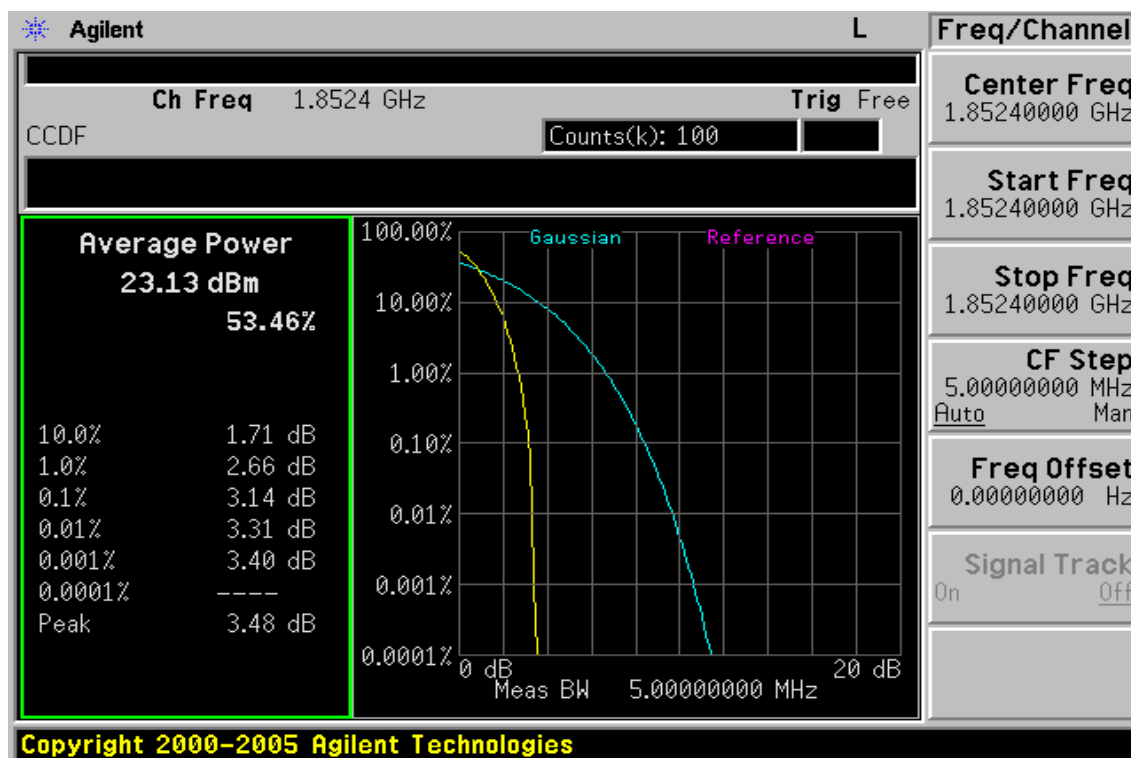
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WCDMA Band II Channel Low



WCDMA Band II Channel Mid



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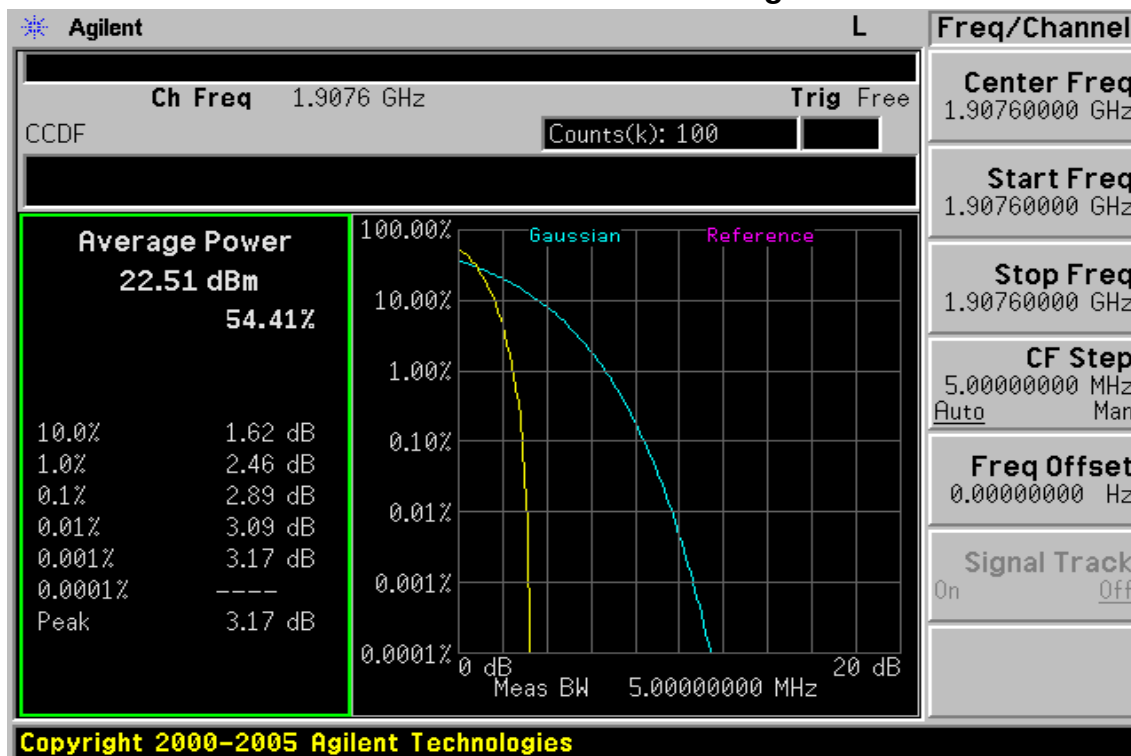
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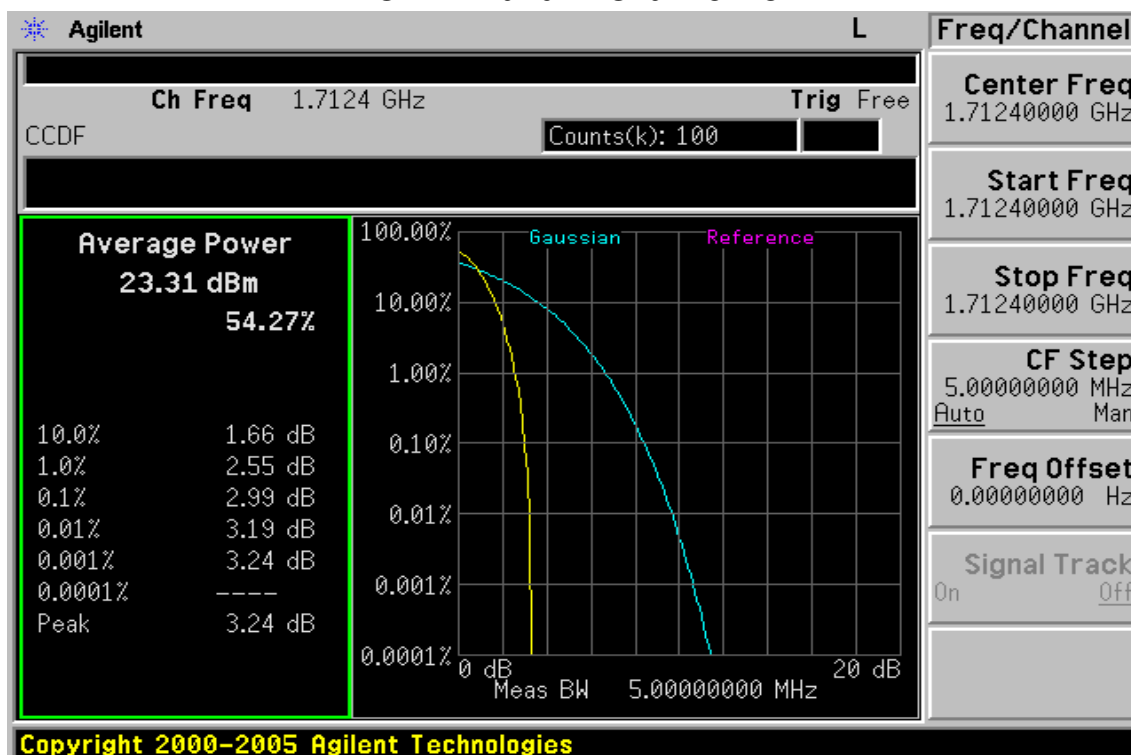
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WCDMA Band II Channel High



WCDMA Band IV Channel Low



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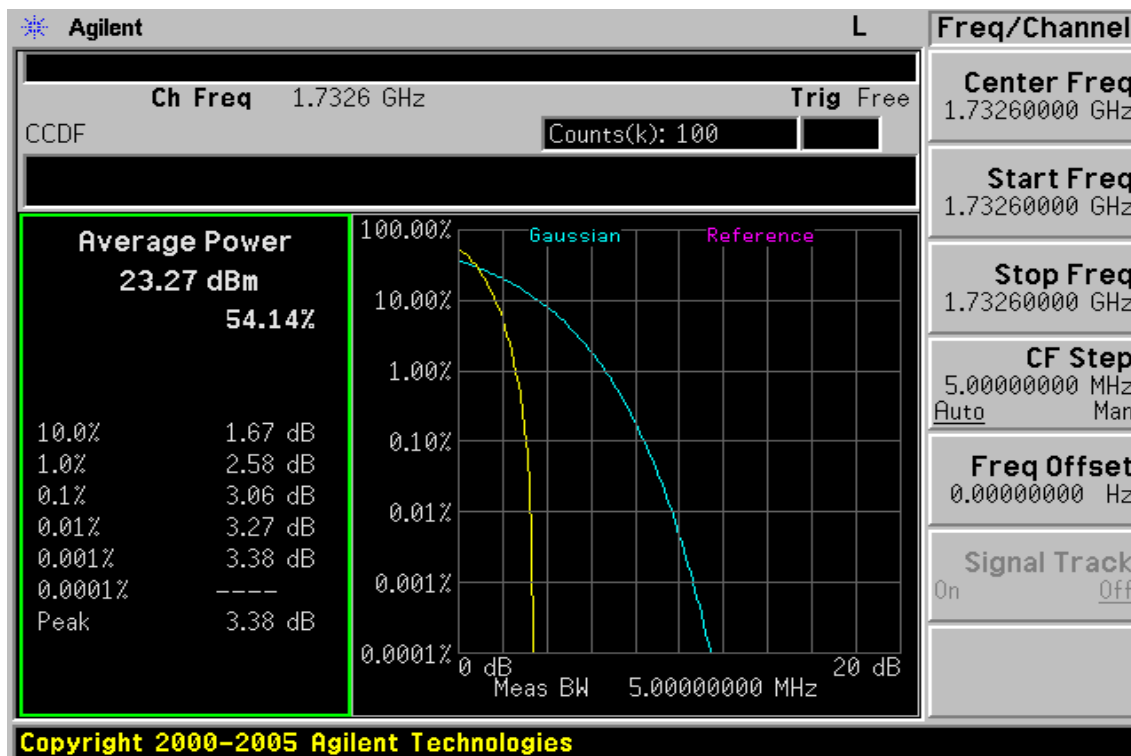
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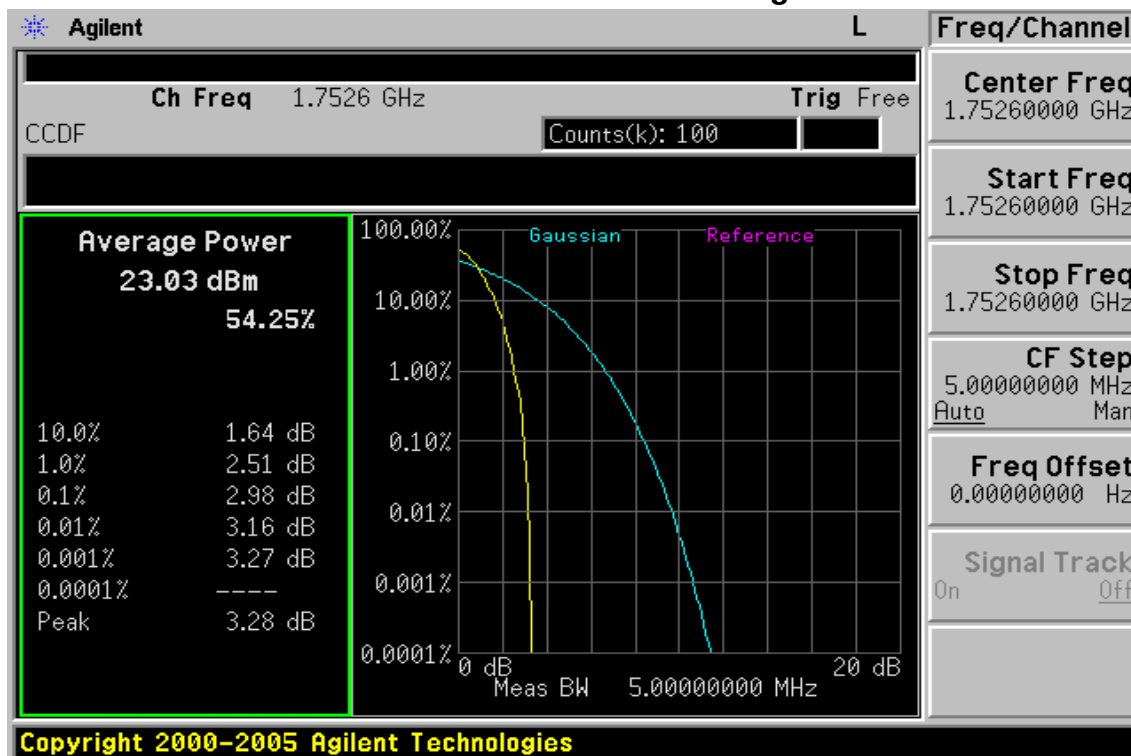
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WCDMA Band IV Channel Mid



WCDMA Band IV Channel High



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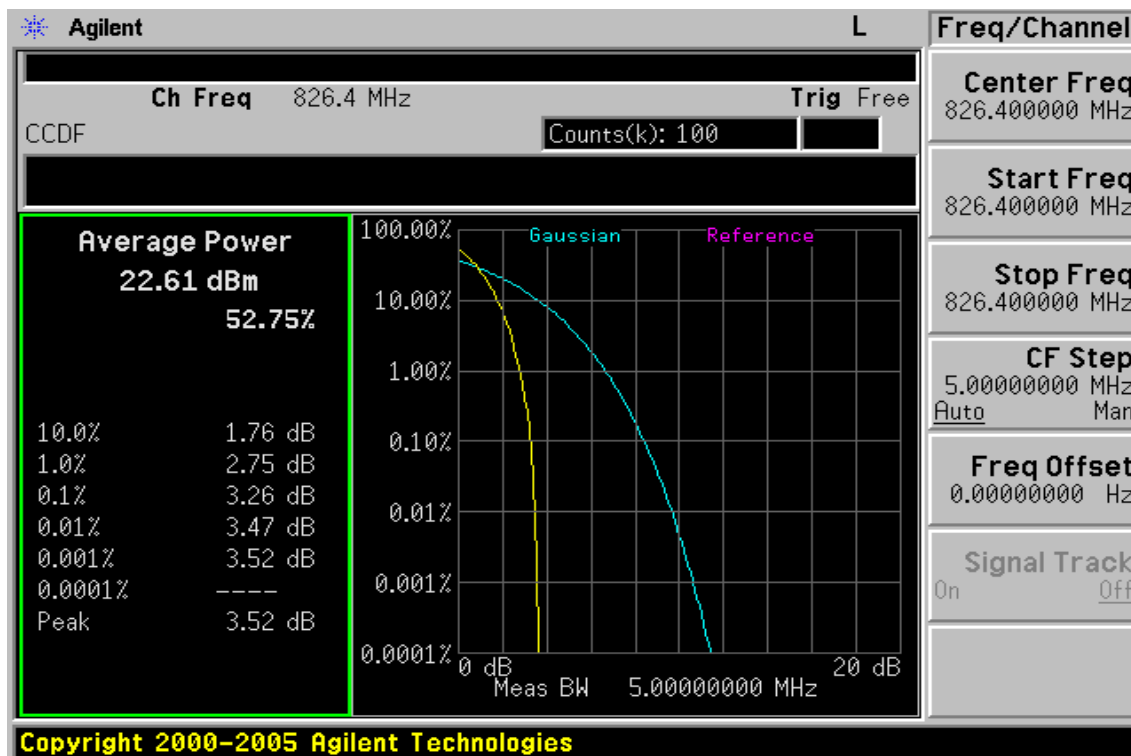
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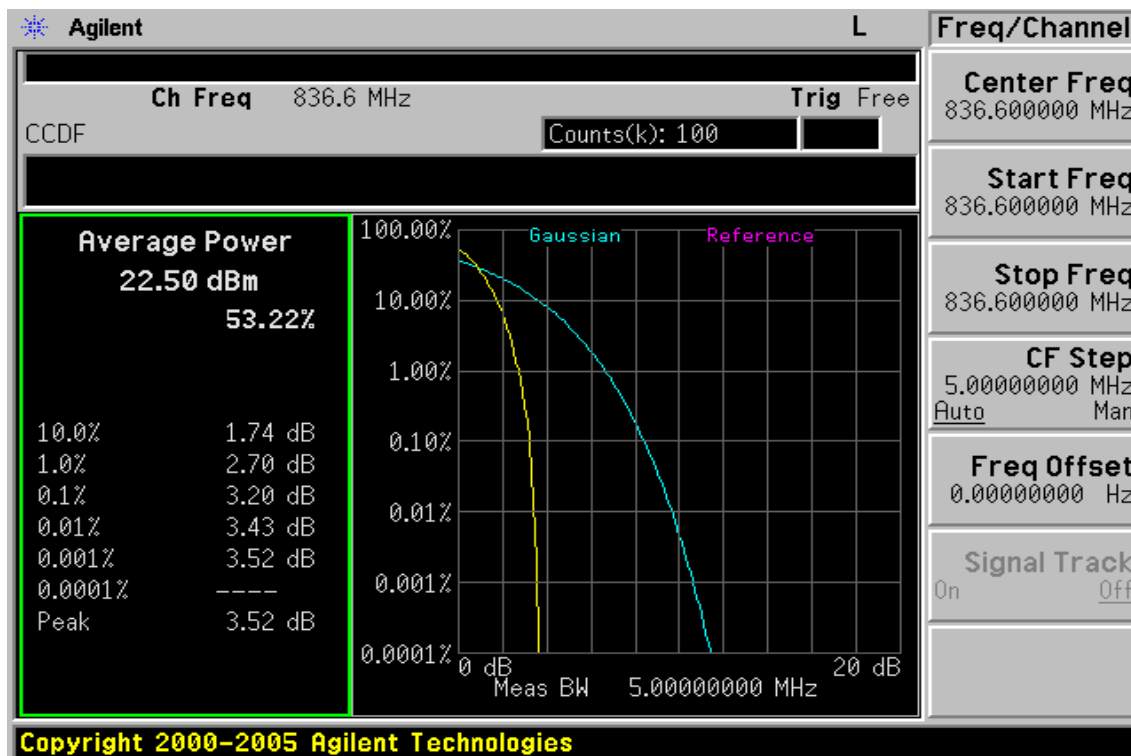
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WCDMA Band V Channel Low



WCDMA Band V Channel Mid



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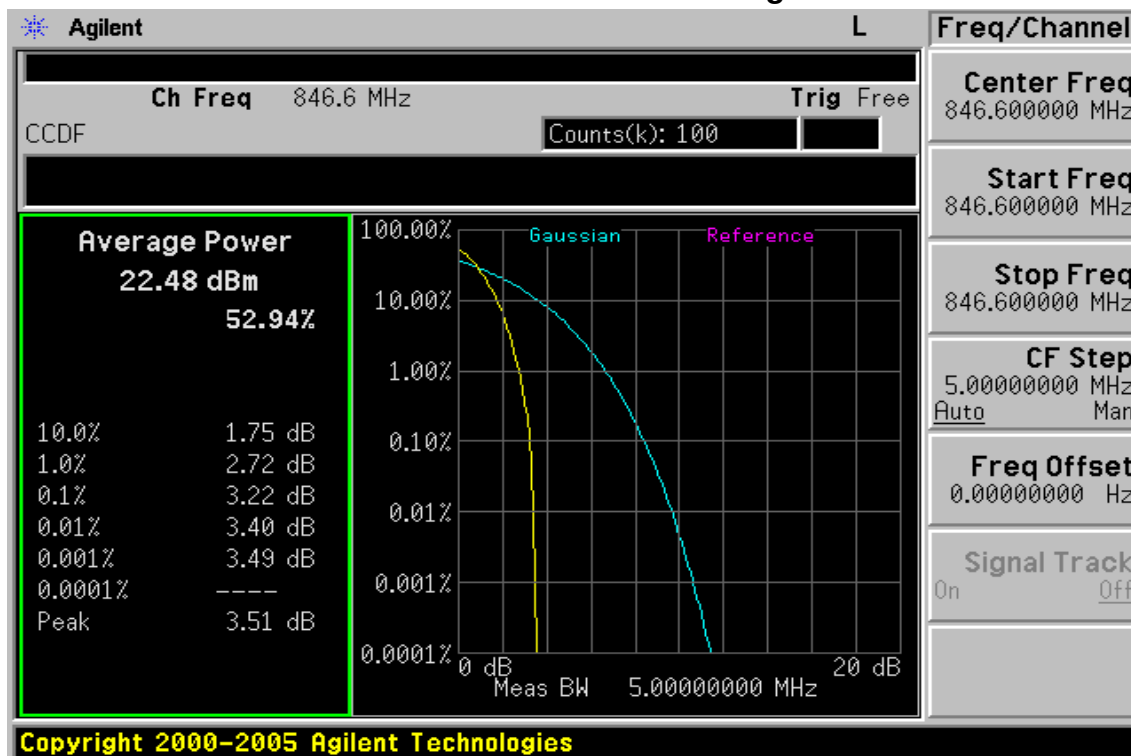
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WCDMA Band V Channel High



HSDPA Band II Channel Low



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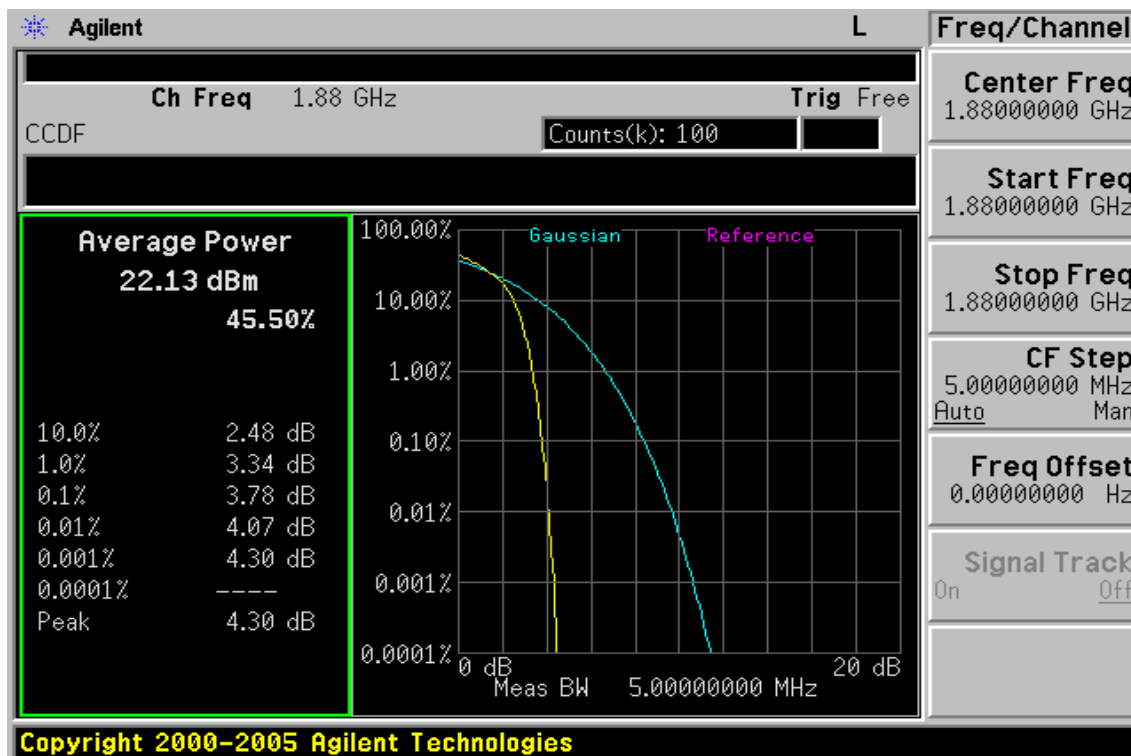
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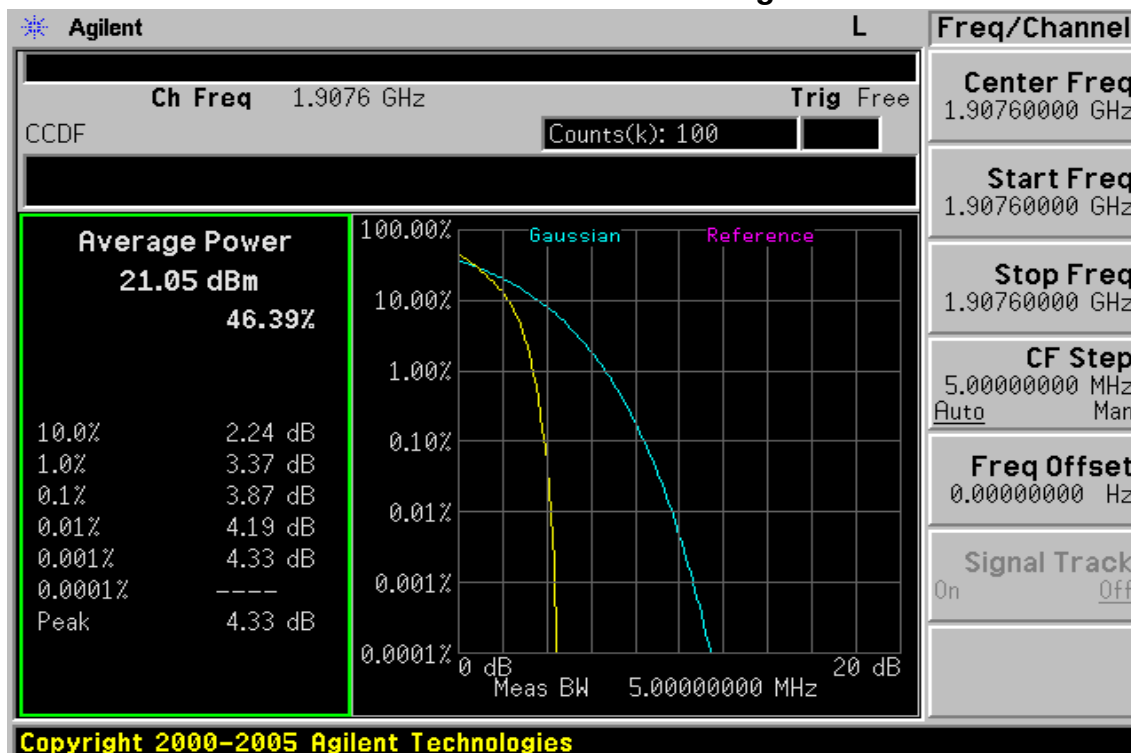
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HSDPA Band II Channel Mid



HSDPA Band II Channel High



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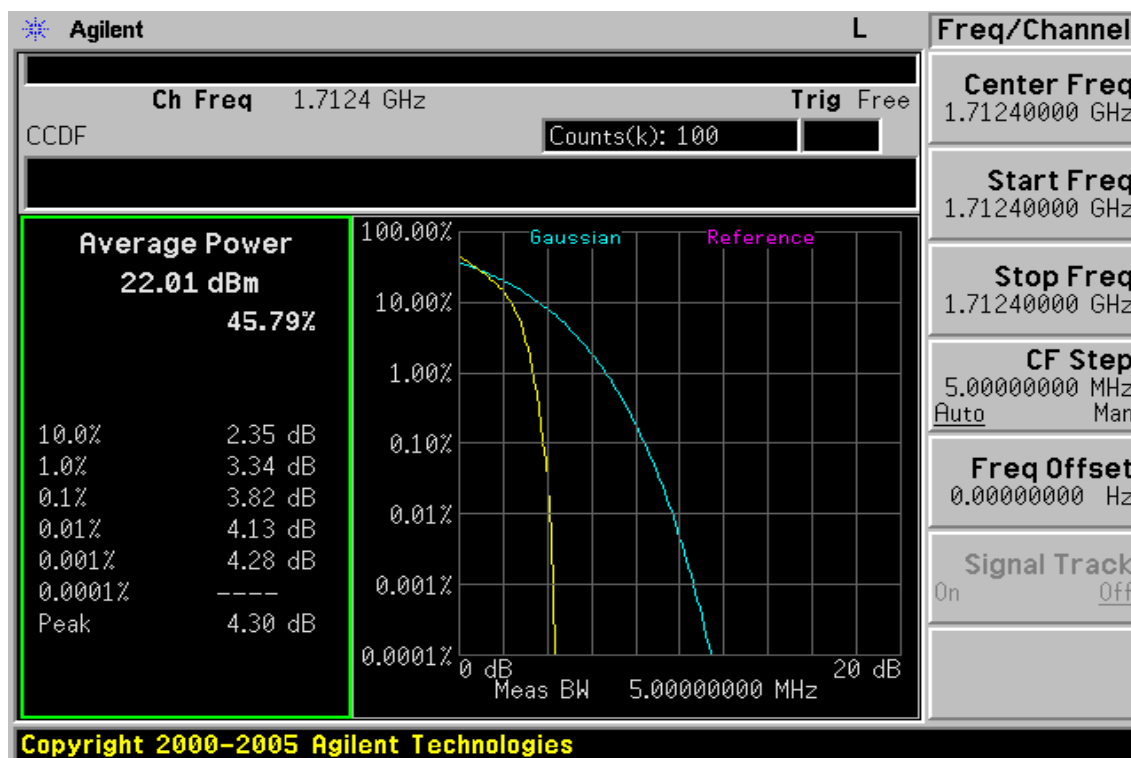
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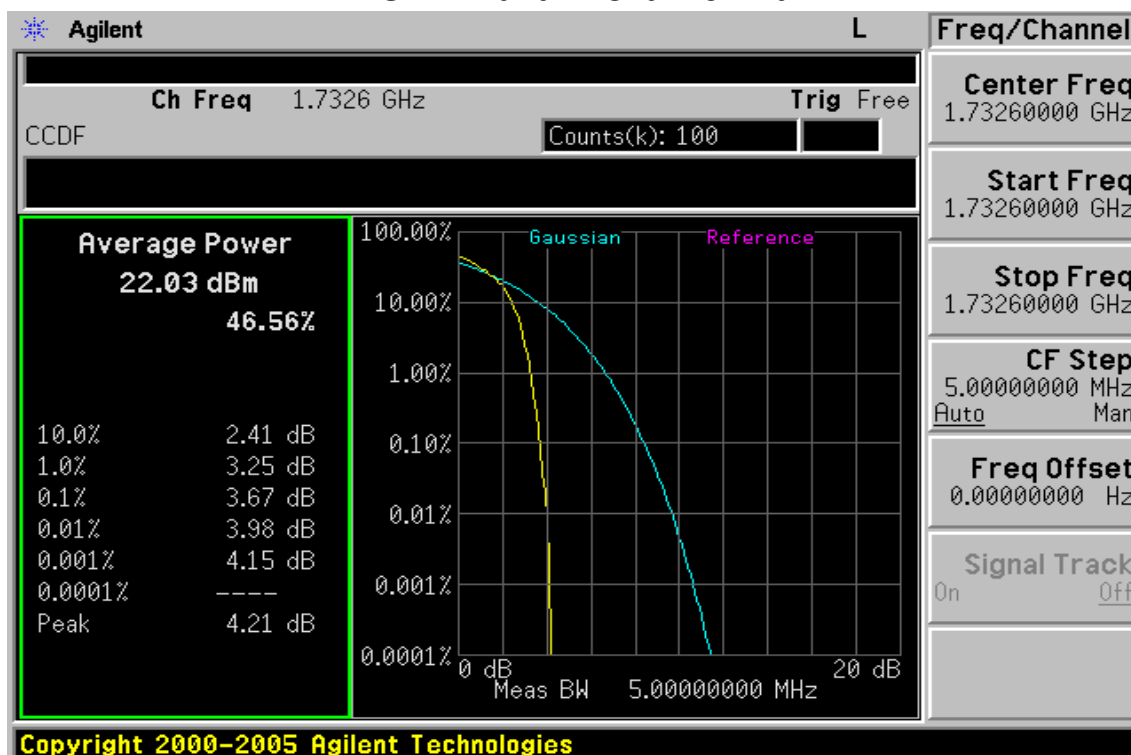
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HSDPA Band IV Channel Low



HSDPA Band IV Channel Mid



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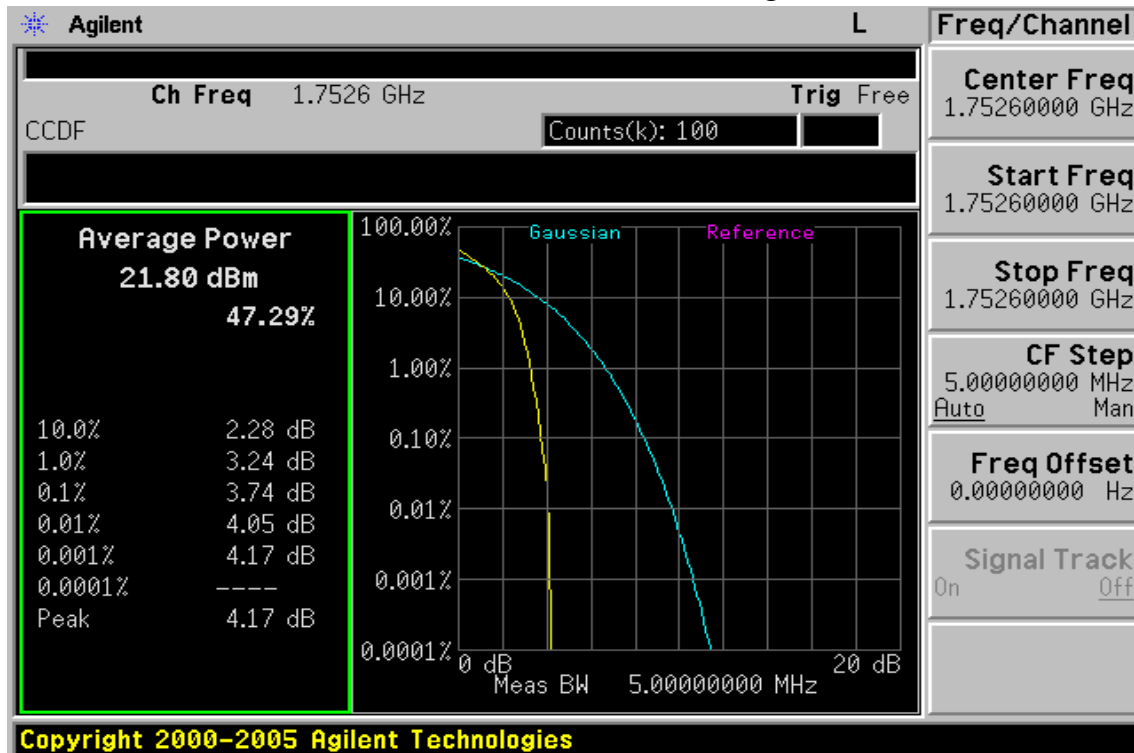
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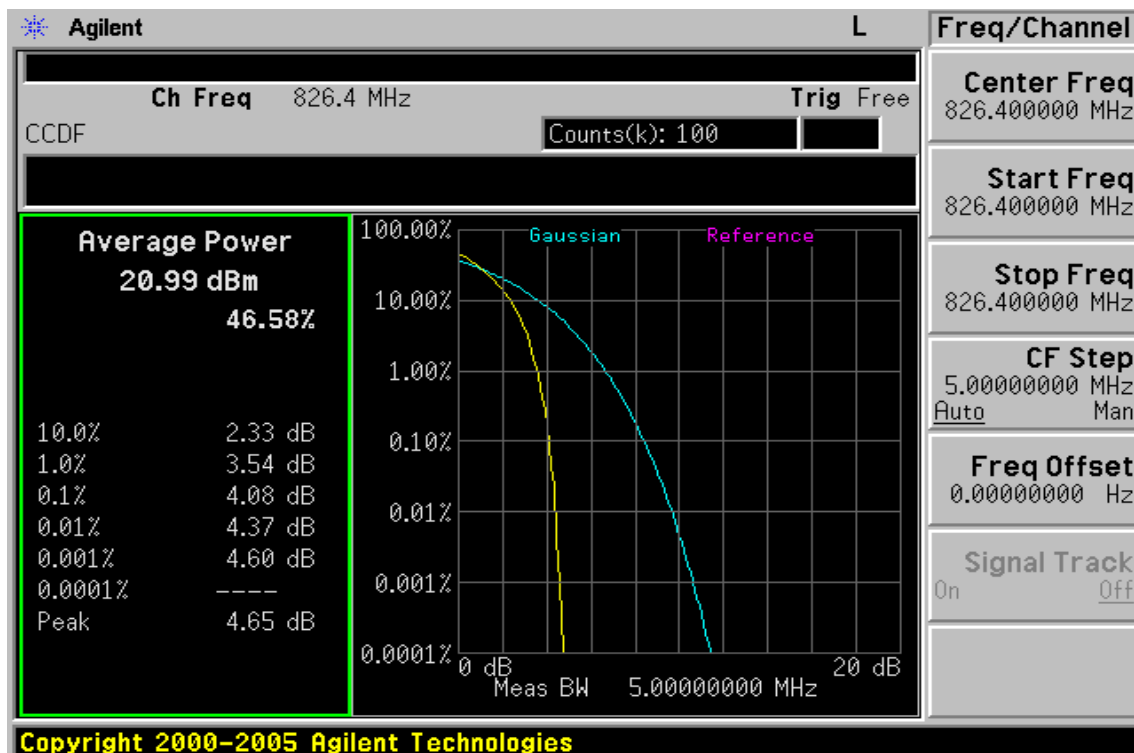
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HSDPA Band IV Channel High



HSDPA Band V Channel Low



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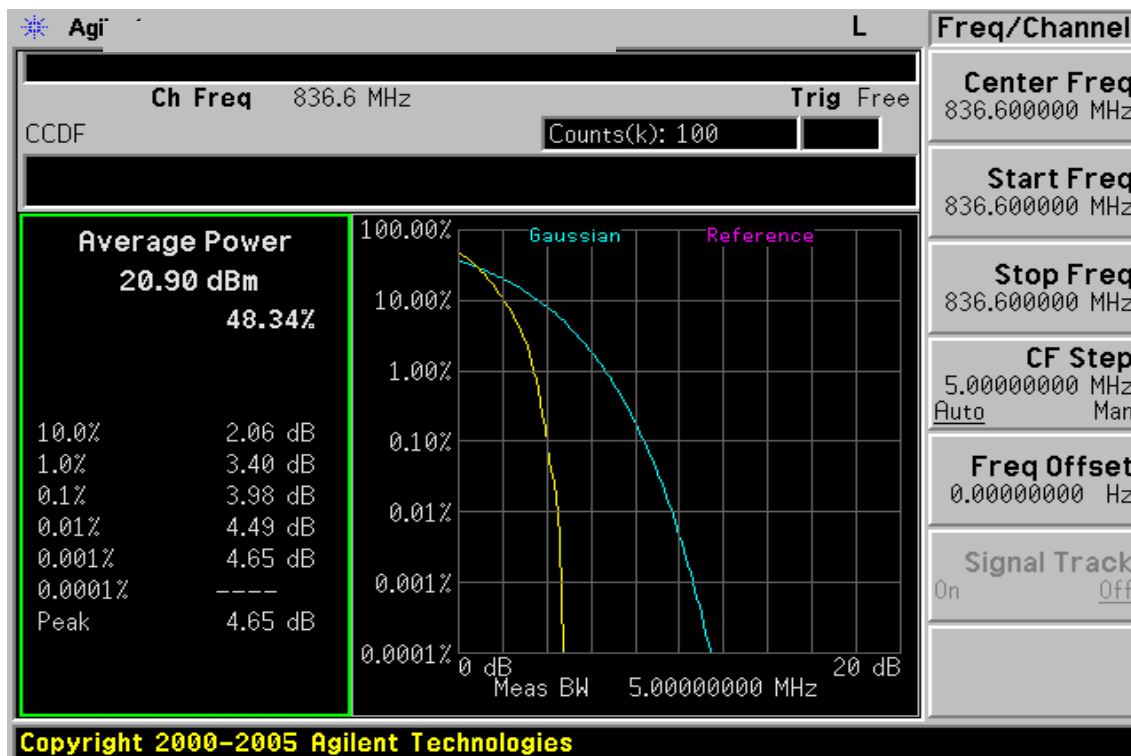
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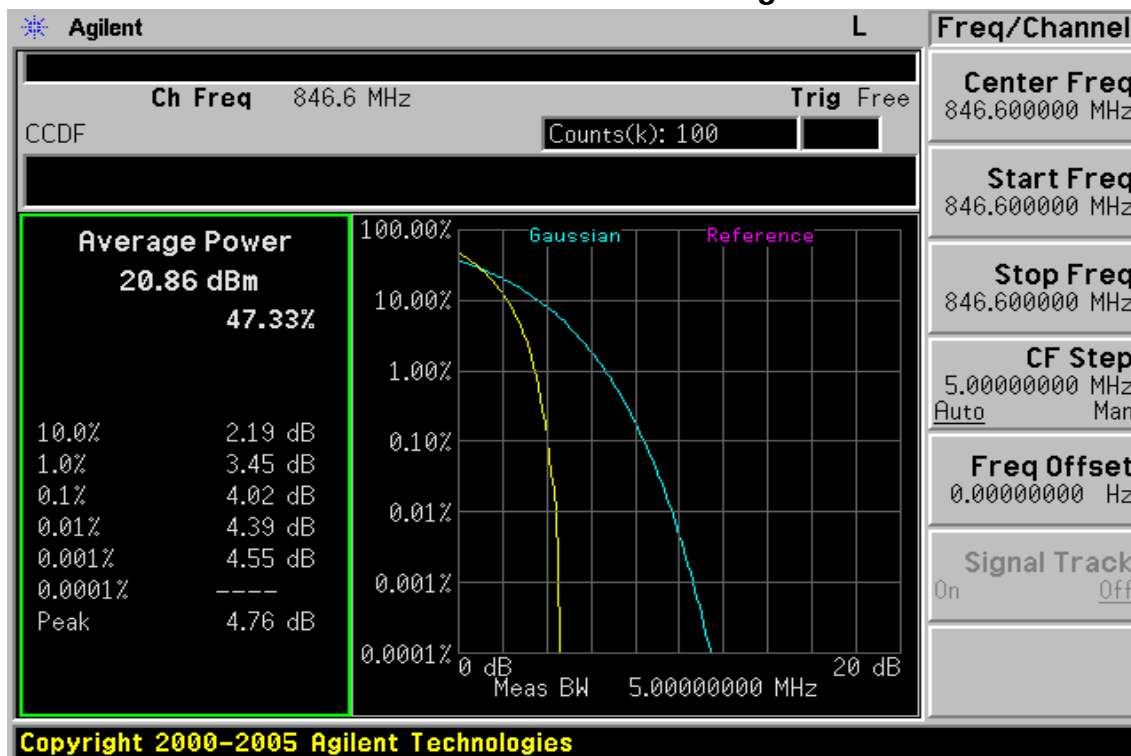
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HSDPA Band V Channel Mid



HSDPA Band V Channel High



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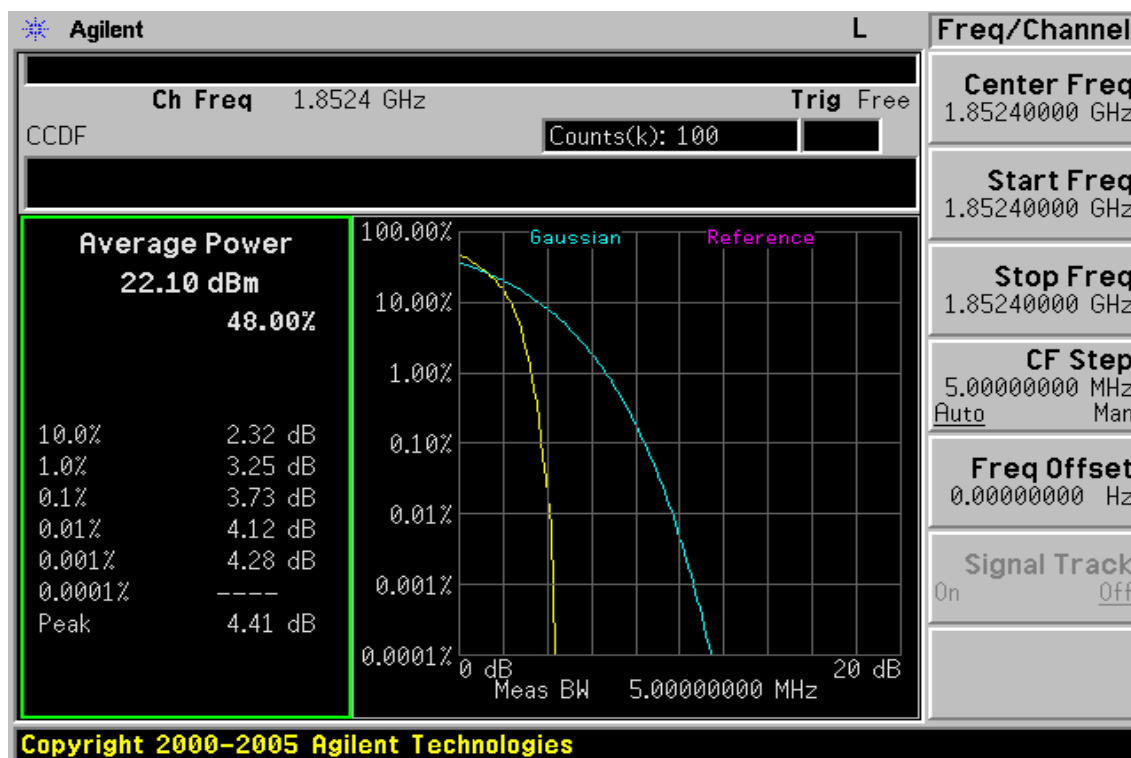
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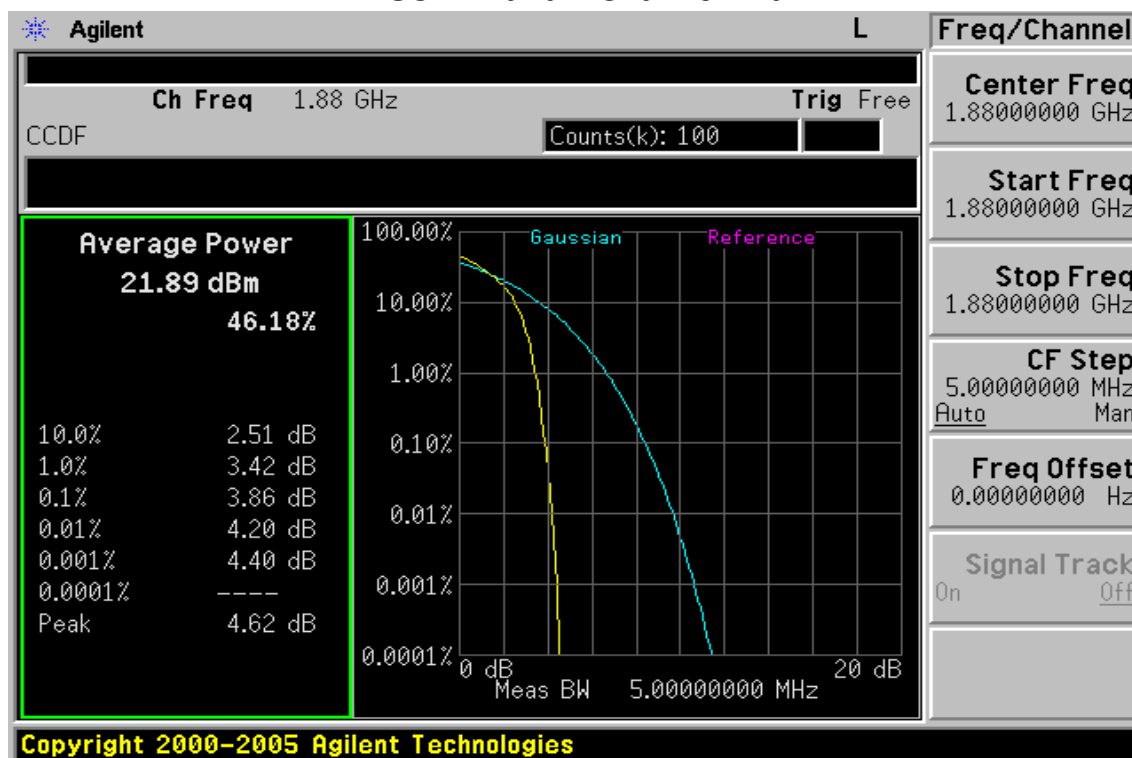
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HSUPA Band II Channel Low



HSUPA Band II Channel Mid



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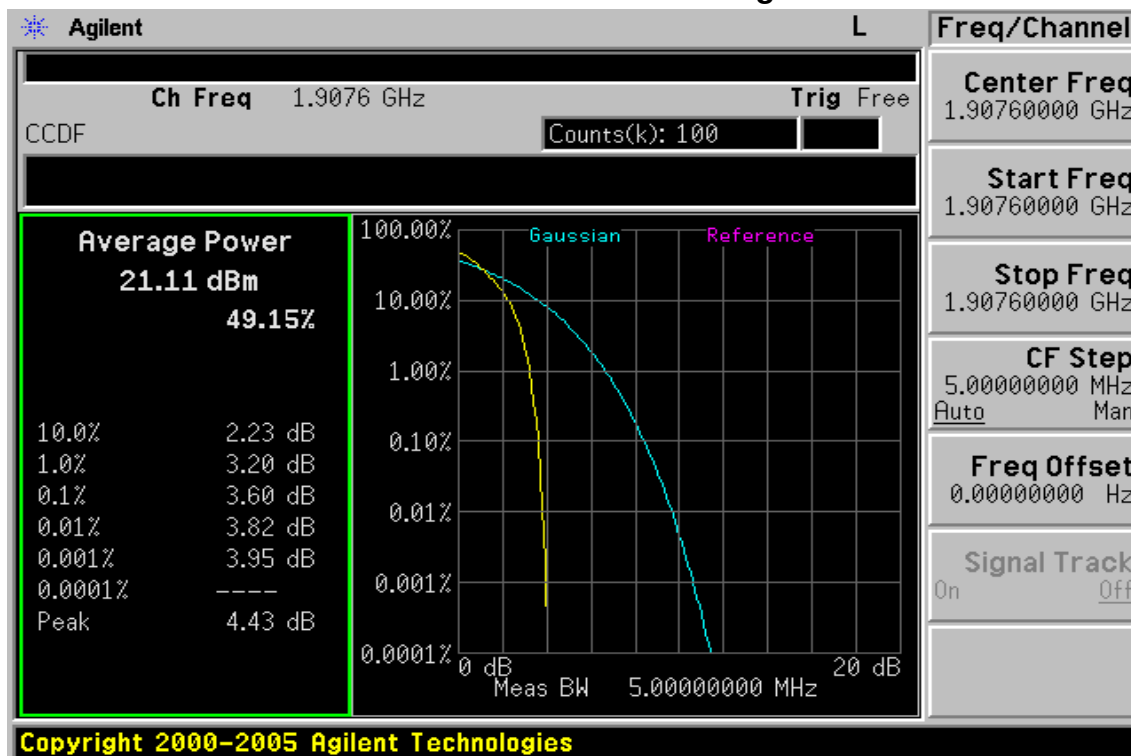
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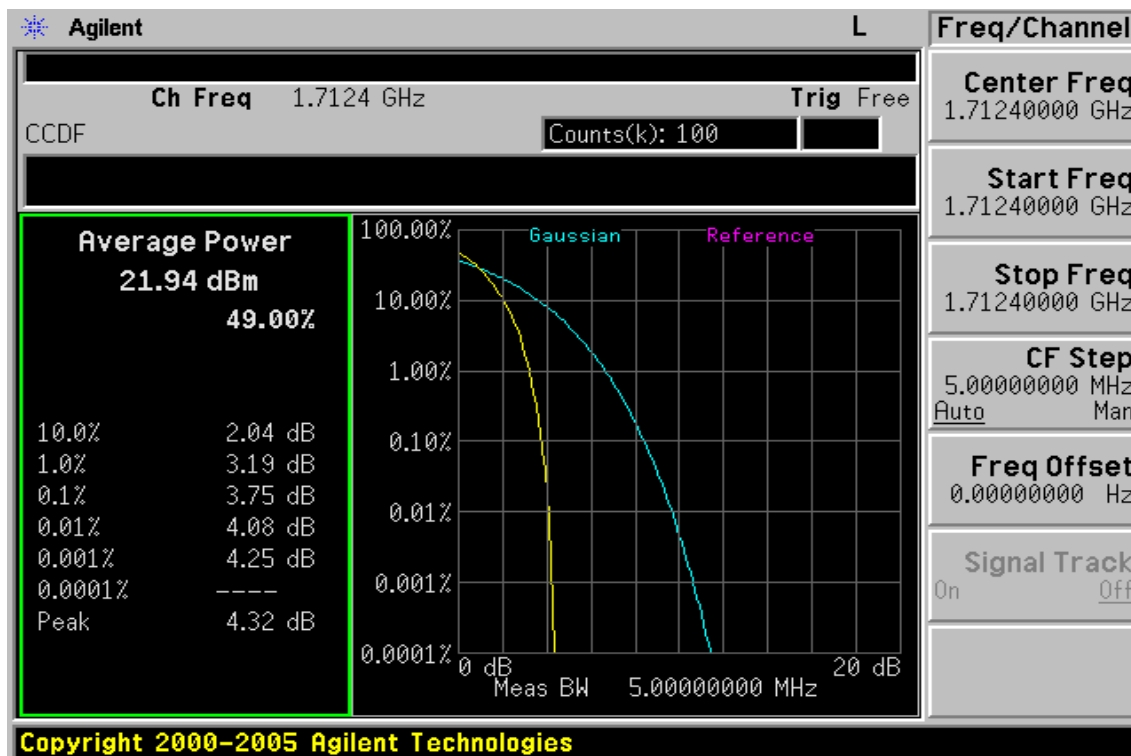
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HSUPA Band II Channel High



HSUPA Band IV Channel Low



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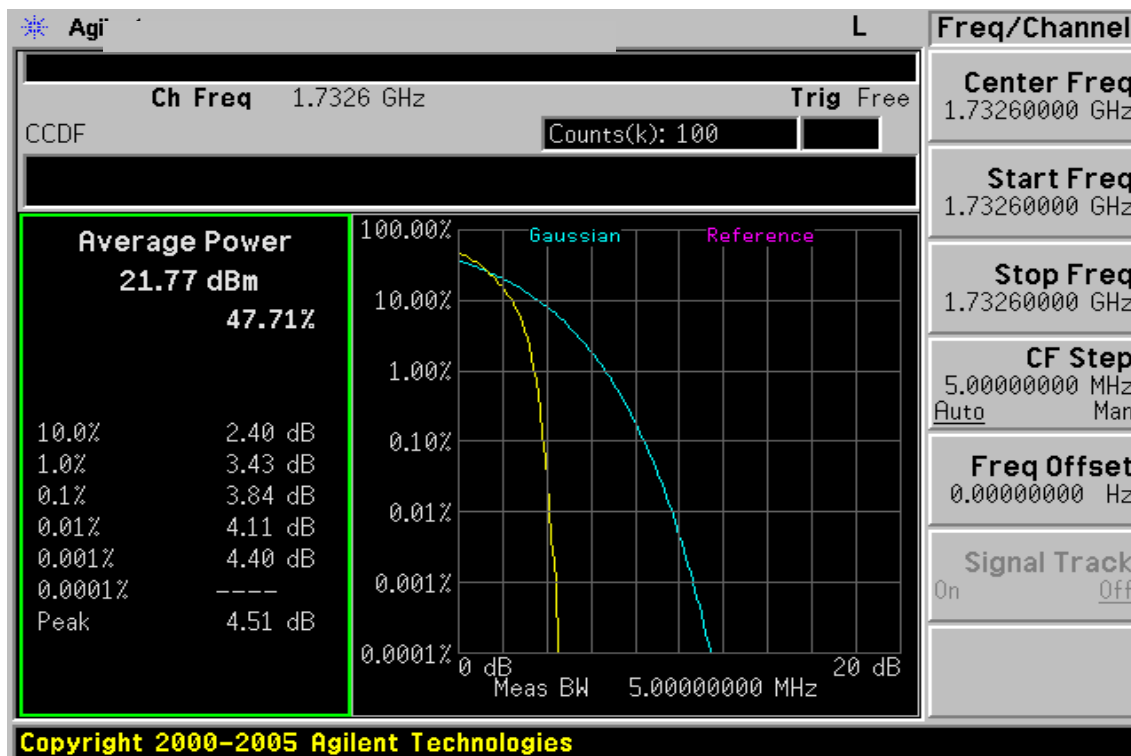
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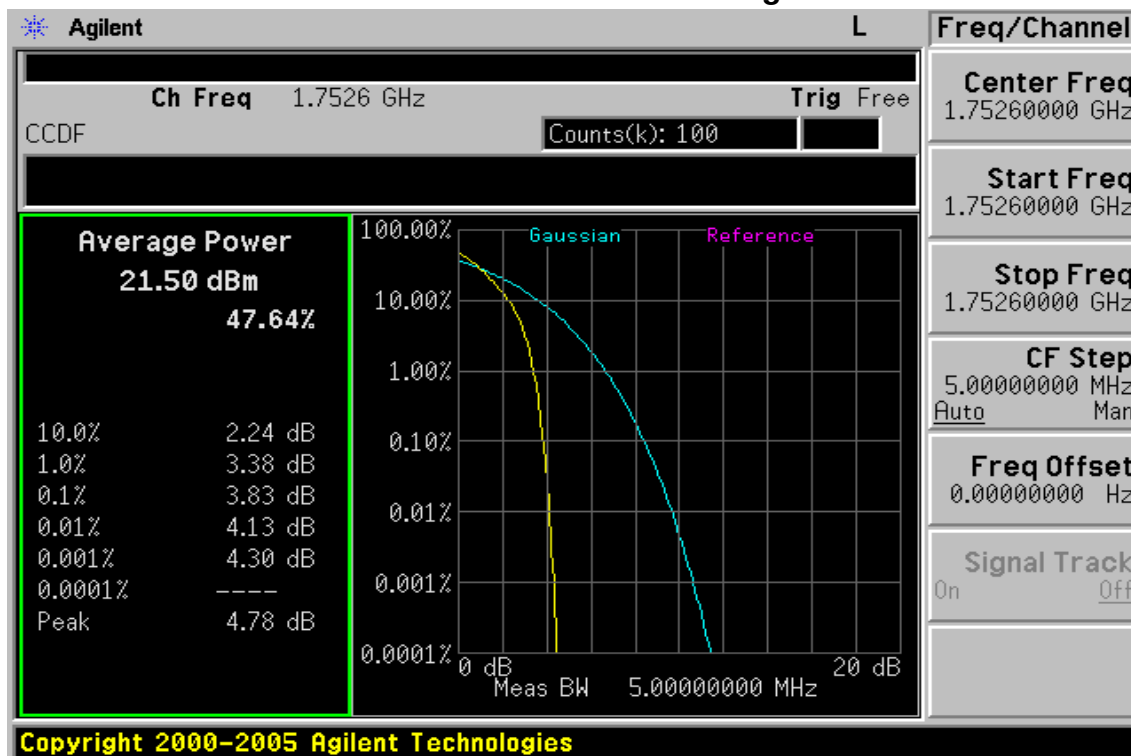
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HSUPA Band IV Channel Mid



HSUPA Band IV Channel High



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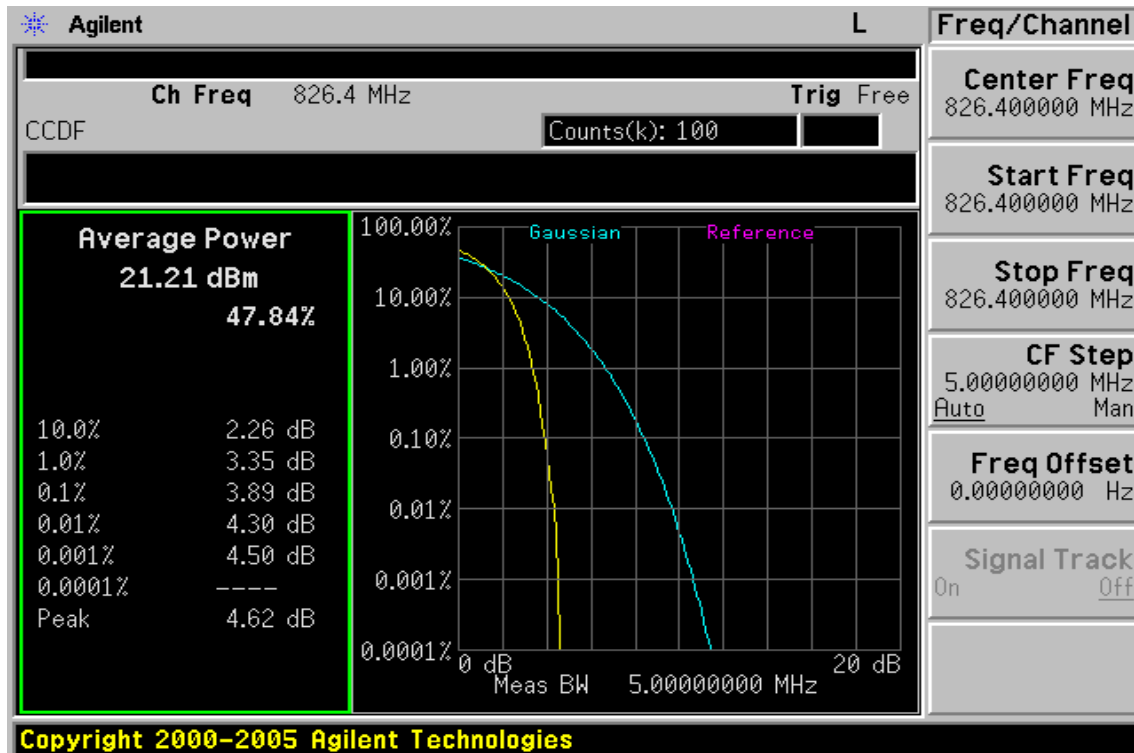
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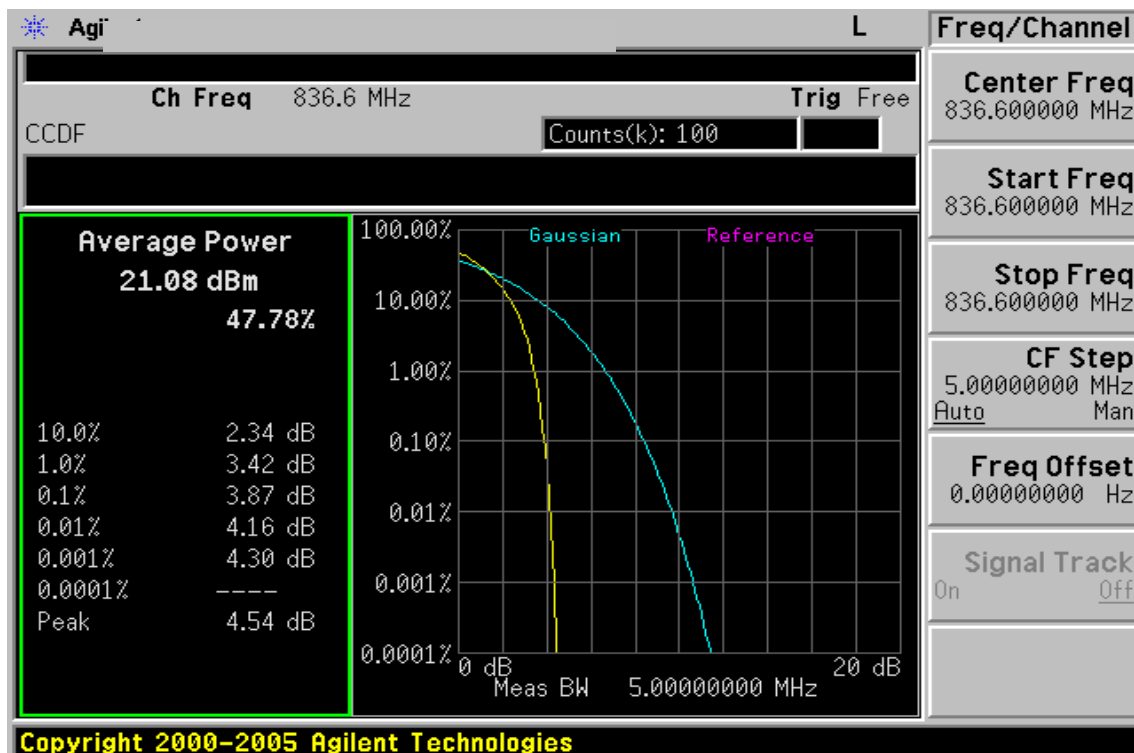
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HSUPA Band V Channel Low



HSUPA Band V Channel Mid



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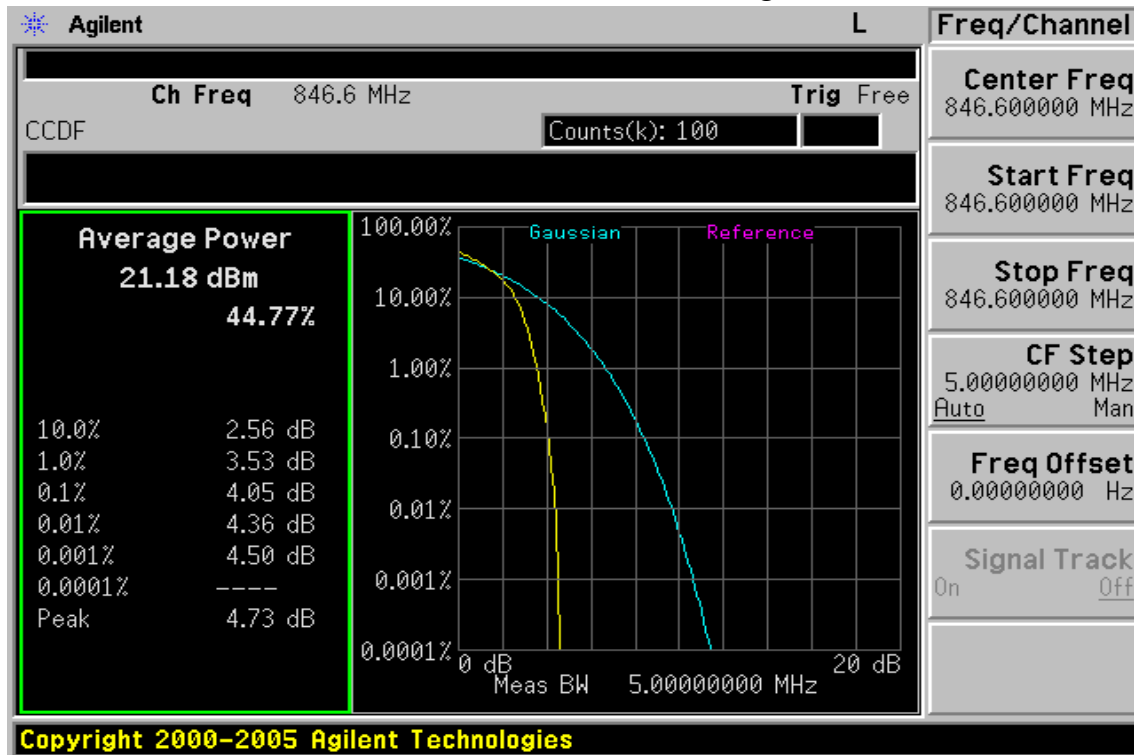
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HSUPA Band V Channel High



~ End of Report ~

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