

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: Windows Phone

Brand Name: HTC

Model No.: PI06110

Model Difference: N/A

FCC ID: NM8PI06110

Report No.: EH/2011/70032

Issue Date: Aug. 15, 2011

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

Prepared for: HTC Corporation
No. 23, Xinghua Rd., Taoyuan City, Taoyuan
County 330, Taiwan, R.O.C.

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VERIFICATION OF COMPLIANCE

Applicant: HTC Corporation
No. 23, Xinghua Rd., Taoyuan City, Taoyuan County 330, Taiwan, R.O.C.

Product Name: Windows Phone

Brand Name: HTC

Model No.: PI06110

Model Difference: N/A

FCC ID: NM8PI06110

File Number: EH/2011/70032

Date of test: Jul. 25, 2011 ~ Aug. 12, 2011

Date of EUT Received: Jul. 25, 2011

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rule FCC PART 22 subpart H, PART 24 subpart E and PART 27.

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

Test By:

Nick Lin

Date:

Aug. 15, 2011

Nick Lin / Engineer

Prepared By:

Judy Hsu

Date:

Aug. 15, 2011

Judy Hsu / General Admin.

Approved By:

Jim Chang

Date:

Aug. 15, 2011

Jim Chang / Supervisor

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Version

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

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	Windows Phone	
Brand Name:	HTC	
Model No.:	PI06110	
Model Difference:	N/A	
Simple Hands-Free:	1. Model No.: HS G400, Supplier: COTRON 2. Model No.: HS G400, Supplier: FOSTER 3. Model No.: HS G400, Supplier: MERRY	
USB Cable:	1. Model No.: DC M410, Supplier: COXOC 2. Model No.: DC M410, Supplier: Foxlink	
Power Supply:	3.7Vdc Li-Ion battery or 5 Vdc from AC/DC adapter	
	Battery:	1. Model No.: BG 58100, Supplier: TWS 2. Model No.: BG 58100, Supplier: WTE
	Adapter:	1. Model No.: TC U250, Supplier: Delta 2. Model No.: TC U250, Supplier: Phihong 3. Model No.: TC B270, Supplier: Phihong 4. Model No.: TC B270, Supplier: Delta

The EUT is compliance with Bluetooth 2.1 and IEEE 802.11 b/g/n Standard.

GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power:	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 10	824 MHz– 849MHz	33 dBm
	EDGE 850, Class 10	824 MHz– 849MHz	27 dBm
	GSM/GPRS 1900, Class 10	1850MHz – 1910MHz	30 dBm
	EDGE 1900, Class 10	1850MHz – 1910MHz	26 dBm
	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band IV	1712.4MHz–1752.6MHz	23.5 dBm
Type of Emission	GSM 850: 244KGXW, GSM 1900 :245KGXW GPRS 850: 246KGXW, GPRS 1900 :246KGXW EDGE 850: 246KG7W, EDGE 1900:239KG7W WCDMA Band II: 4M14F9W,HSUPA Band II: 4M14F9W HSDPA Band II: 4M14F9W WCDMA Band IV: 4M15F9W,HSUPA Band IV: 4M14F9W HSDPA Band IV: 4M14F9W		
Hardware Version:	N/A		
Software Version:	N/A		
IMEI:	0040226011061801		

This test report applies for GSM/GPRS/EDGE 850/1900, WCDMA/HSDPA/HSUPA band II / IV.

Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.8 Vdc	481
GSM 1900	3.8 Vdc	238
GPRS 850	3.8 Vdc	370
GPRS 1900	3.8 Vdc	456
EDGE 850	3.8 Vdc	581
EDGE 1900	3.8 Vdc	393
WCDMA B2	3.8 Vdc	673
WCDMA B4	3.8 Vdc	474
HSUPA B2	3.8 Vdc	495
HSUPA B4	3.8 Vdc	525
HSDPA B2	3.8 Vdc	530
HSDPA B4	3.8 Vdc	510

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

This submittal(s) (test report) is intended for **FCC ID: NM8PI06110** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part 27 of the FCC CFR 47 Rules.

1.2. Test Methodology

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

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

1.3. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4

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

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

1.4. Special Accessories

Not available for this EUT intended for grant.

1.5. Equipment Modifications

Not available for this EUT intended for grant.

2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 AC Power Line Conducted Emissions

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

2.3.2 Conducted Measurement at Antenna Port:

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

2.3.3 Radiated Emissions (ERP/EIRP):

The EUT is placed on as turn table which is 80 cm above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 2 of TIA/EIA 603C.

2.4. Measurement Equipment Used:

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

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ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2012
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2010	11/14/2011
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2010	07/09/2012
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2010	07/09/2012
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309/320	01/22/2010	01/21/2012
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2010	05/08/2012
Signal Generator	R&S	SMR40	100210	01/22/2010	01/21/2012
Signal Generator	Agilent	E4438C	MY45093613	06/11/2011	06/10/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2010	11/29/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2011	07/04/2012
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2011	07/04/2012
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2010	05/12/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
Filter 800-1000	Micro-Tronics	BRM13462	1	01/05/2011	01/04/2012
Filter 1800-2000	Micro-Tronics	BRM13463	1	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	11/08/2010	11/09/2011

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2.5. Configuration of Tested System

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

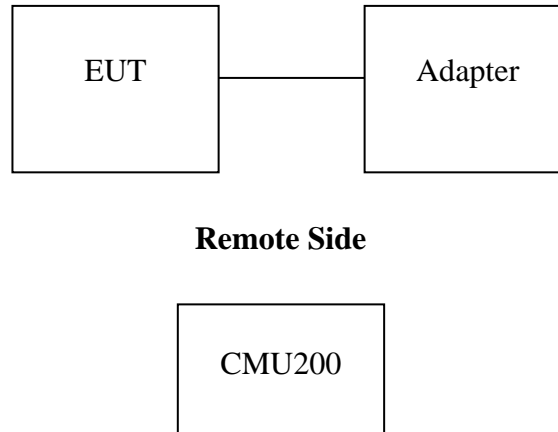


Table 2-1 Equipment Used in Tested System

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

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)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(g)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(2) §22.355 §24.235 §27.54	Frequency Stability vs. Voltage	Compliant

Max ERP/EIRP measurement result:

	dBm		W
GSM 850 Band	32.07	ERP	1.611
GSM 1900 Band	28.76	EIRP	0.752
EDGE 850 Band	29.29	ERP	0.849
EDGE 1900 Band	27.89	EIRP	0.615
WCDMA Band II	22.19	EIRP	0.166
HSUPA Band II	22.46	EIRP	0.176
HSDPA Band II	23.18	EIRP	0.208
WCDMA Band IV	20.14	EIRP	0.103
HSUPA Band IV	19.87	EIRP	0.097
HSDPA Band IV	20.05	EIRP	0.101

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4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT stand-up position(H mode)and lie down position (E1, E2 mode) for GSM/GPRS/EDGE and WCDMA/HSDPA/HSUPA Band II and IV with power adaptor. The worst-case of E2 position for GSM850/ GSM1900, H position for HSDPA Band II / WCDMA Band IV were reported.

5. MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

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

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

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6. RF POWER OUTPUT MEASUREMENT

6.1 Standard Applicable:

According to FCC §2.1046.

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

FCC 24.232(C) Peak Power Measurement to 2W.

3GPP Power limitation for HSDPA and HSUPA

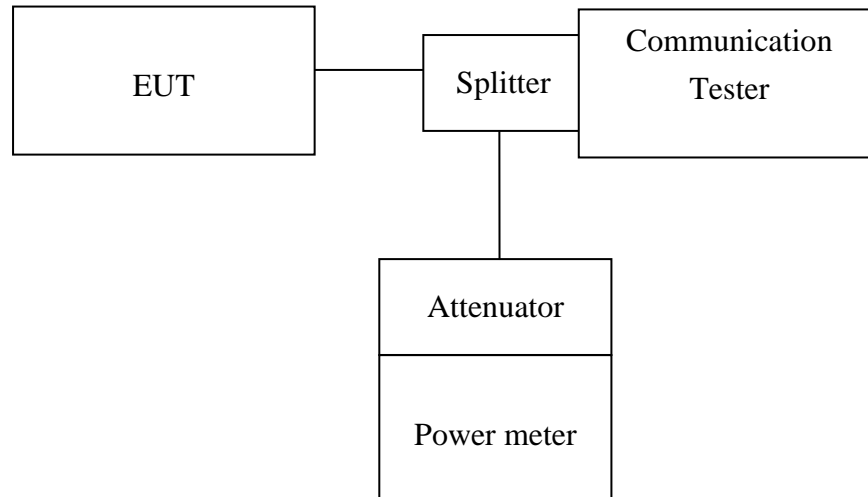
Maximum Output Powers for HSDPA

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

Maximum Output Powers for HSUPA

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

6.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

6.3 Measurement Procedure:

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

6.4 Measurement Equipment Used:

Refer to section 2.4 in this report

6.5 Measurement Result:

6.5.1 RF Conducted Output Power

6.5.1.1.: GSM/GPRS/EDGE (GMSK; 8-PSK)

Result:

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 850	824.2	128	34.50	33.60
	836.6	190	34.40	33.60
	848.8	251	34.30	33.60

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
GSM 1900	1850.2	512	30.70	30.40
	1880.0	661	30.90	30.60
	1909.8	810	30.90	30.60

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
GPRS 850 (Class 10)	824.2	128	34.50	33.60	32.90	32.30
	836.6	190	34.40	33.60	32.80	32.30
	848.8	251	34.00	33.30	32.90	32.40

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EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
GPRS 1900 (Class 10)	1850.2	512	30.60	30.30	30.40	30.10
	1880.0	661	30.50	30.20	29.60	29.40
	1909.8	810	30.10	29.80	29.30	29.00

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
EDGE 850 (Class 10)	824.2	128	30.20	26.70	28.70	25.50
	836.6	190	30.00	26.70	28.90	25.60
	848.8	251	30.10	26.80	28.90	25.70

EUT Mode	Frequency (MHz)	CH	Peak Power (1DN 1UP) (dBm)	Average Burst Power (1DN 1UP) (dBm)	Peak Power (1DN 2UP) (dBm)	Average Burst Power (1DN 2UP) (dBm)
EDGE 1900 (Class 10)	1850.2	512	29.30	26.10	28.50	25.20
	1880.0	661	29.30	26.00	28.40	25.10
	1909.8	810	29.10	25.70	28.00	24.90

offset : Band 850: 0.6 dB

Band 1900: 0.9 dB

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6.5.1.2: 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	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
WCDMA Band II	1852.4	9262	26.31	22.94
	1880.0	9400	26.57	23.18
	1907.6	9538	26.51	23.16

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
WCDMA Band IV	1712.4	1312	26.61	23.02
	1732.6	1413	26.53	23.21
	1752.6	1513	26.54	22.96

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
HSDPA Band II	1852.40	9262	26.06	22.53
	1880.00	9400	26.33	22.72
	1907.60	9538	26.53	22.70

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
HSDPA Band IV	1712.4	1312	26.37	22.64
	1732.6	1413	26.53	22.73
	1752.6	1513	26.34	22.49

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EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
HSUPA Band II	1852.40	9262	26.05	22.29
	1880.00	9400	26.14	22.39
	1907.60	9538	26.35	22.43

EUT Mode	Frequency (MHz)	CH	Peak Power (dBm)	Average Burst Power (dBm)
HSUPA Band IV	1712.4	1312	26.04	22.12
	1732.6	1413	26.08	22.16
	1752.6	1513	26.03	22.06

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

offset : Band II: 0.9 dB

Band IV: 0.6 dB

6.5.1.3.:HSDPA Release 6 mode

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

HSDPA SUB-TEST Setting

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

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

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

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		Channel				
		9262	9400	9538		
HSDPA B2	1	23.11	23.07	23.02	20.3dBm – 25.7dBm	Pass
	2	22.82	23.04	23.01	20.3dBm – 25.7dBm	Pass
	3	22.63	22.62	22.49	19.8dBm – 25.7dBm	Pass
	4	22.70	22.63	22.61	19.8dBm – 25.7dBm	Pass

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		Channel				
		4132	4172	4233		
HSDPA B4	1	22.73	23.31	22.80	20.3dBm – 25.7dBm	Pass
	2	22.90	23.07	22.81	20.3dBm – 25.7dBm	Pass
	3	22.25	22.86	22.27	19.8dBm – 25.7dBm	Pass
	4	22.32	22.87	22.39	19.8dBm – 25.7dBm	Pass

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6.5.1.4.: HSPA (HSDPA & HSUPA) Release 6 mode

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

HSPA SUB-TEST Setting

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

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

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

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		Channel				
		9262	9400	9538		
HSUPA B2	1	22.86	23.16	23.10	17.3dBm – 25.7dBm	Pass
	2	20.91	21.23	21.14	16.8dBm – 25.7dBm	Pass
	3	21.92	22.18	22.18	17.8dBm – 25.7dBm	Pass
	4	21.04	21.28	21.18	16.8dBm – 25.7dBm	Pass
	5	22.75	23.02	23.01	17.3dBm – 25.7dBm	Pass

Results:

Mode	Sub-test	RMS Power (dBm)			Power Class 3 Limita- tion (dBm)	Comments
		Channel				
		4132	4172	4233		
HSUPA B4	1	22.94	23.19	22.90	17.3dBm – 25.7dBm	Pass
	2	20.99	21.26	20.94	16.8dBm – 25.7dBm	Pass
	3	22.00	22.21	21.98	17.8dBm – 25.7dBm	Pass
	4	21.12	21.31	20.98	16.8dBm – 25.7dBm	Pass
	5	22.83	23.05	22.81	17.3dBm – 25.7dBm	Pass

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6.5.2. Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8	
Output power (dBm)	30.3	30.3	30.3	30.3	27.9	25.7	23.8	21.8	19.6	
PCL	9	10	11	12	13	14	15	16	17	18
Output power (dBm)	17.6	14.9	12.7	10.9	8.9	6.8	5.2	3.1	0.9	-1

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 band II / V

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 19 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. The power variation can be 0.1dB step by setting.

7. ERP, EIRP MEASUREMENT

7.1. Standard Applicable:

According to FCC §2.1046

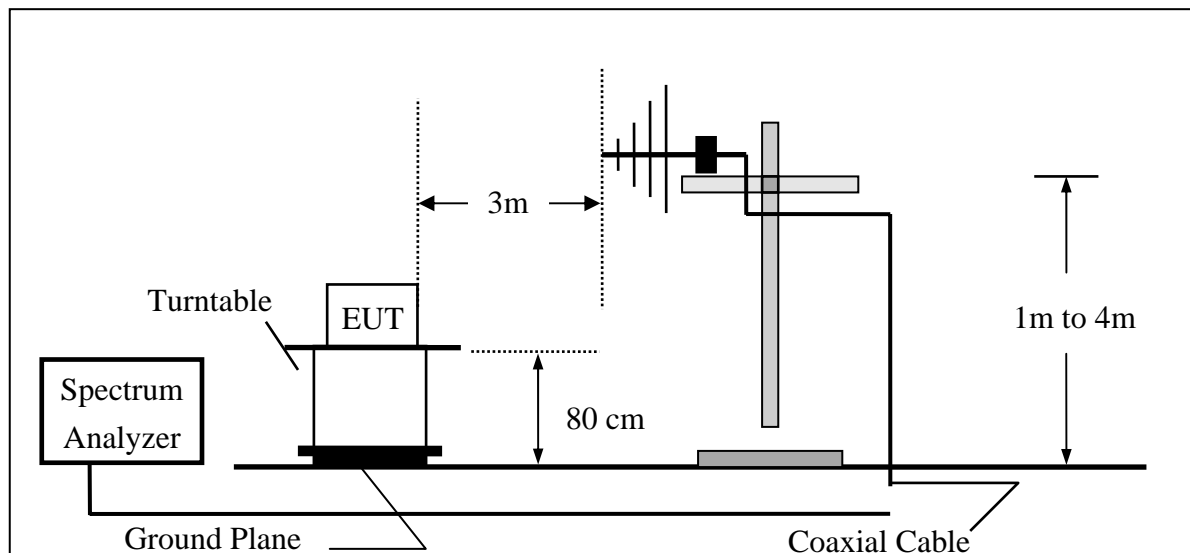
FCC 22.913(a) Mobile station are limited to 7W ERP.

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

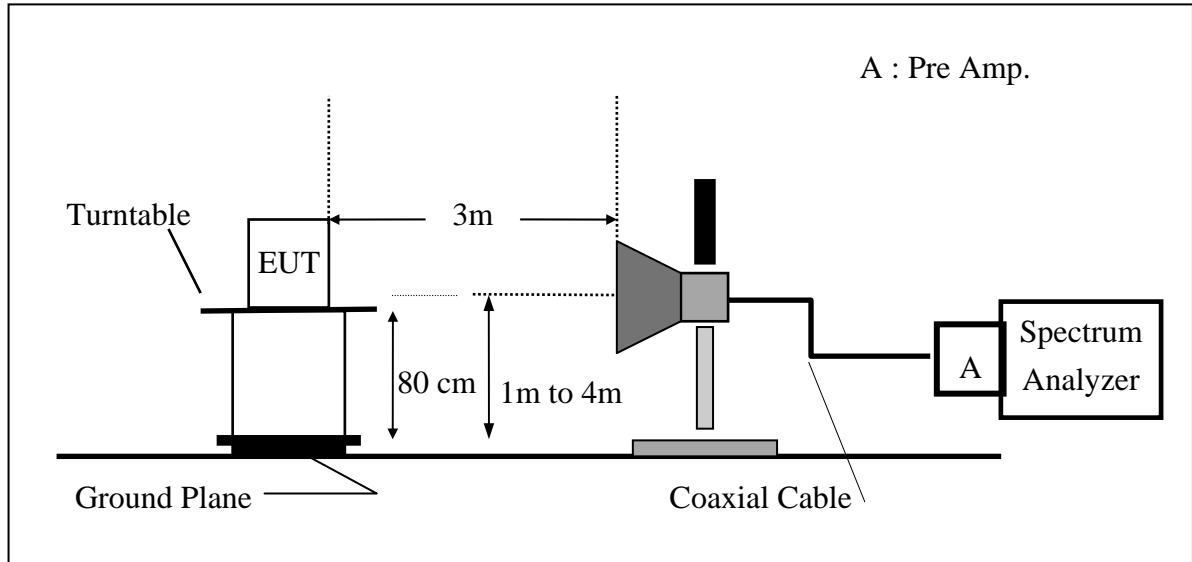
FCC 27.50(d)(2) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

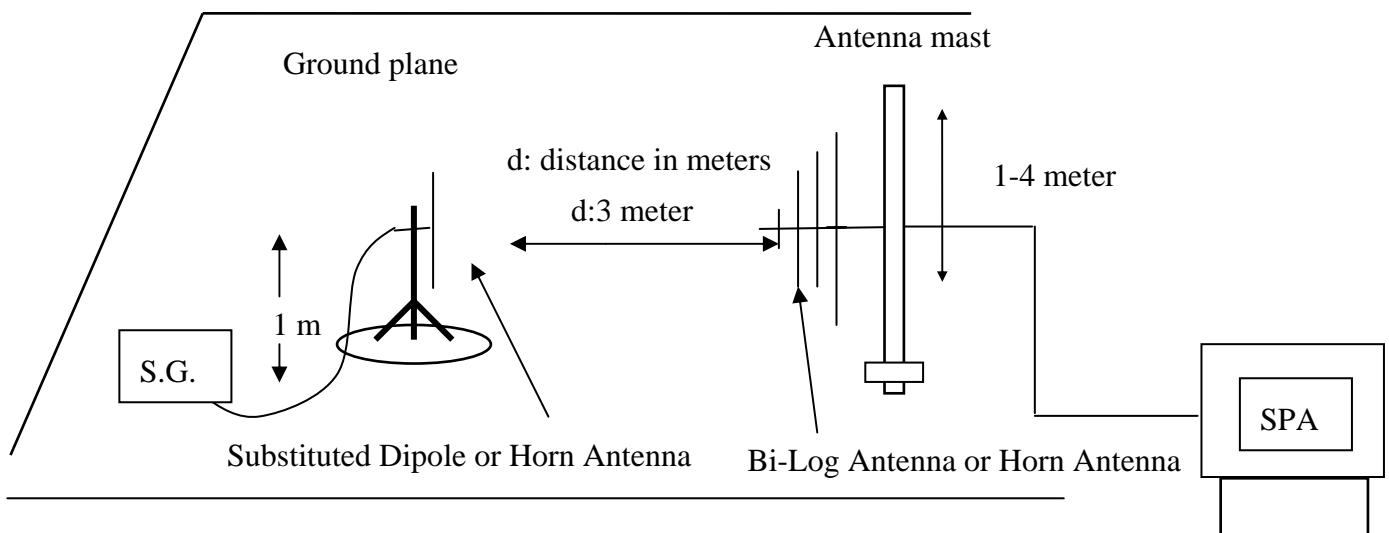
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



(C) Substituted Method Test Set-UP



7.3. Measurement Procedure:

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

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

EIRP in frequency band 1710-1755MHz and 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by a horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

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

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

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

7.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	126.90	40.51	-7.87	3.62	29.01	38.45
				H	119.08	32.81	-7.87	3.62	21.31	38.45
			E1	V	119.19	32.80	-7.87	3.62	21.30	38.45
				H	128.08	41.81	-7.87	3.62	30.31	38.45
			E2	V	118.48	32.09	-7.87	3.62	20.59	38.45
				H	128.94	42.67	-7.87	3.62	31.17	38.45
	836.60	190	H	V	127.80	41.55	-7.88	3.65	30.02	38.45
				H	118.85	32.62	-7.88	3.65	21.09	38.45
			E1	V	120.08	33.83	-7.88	3.65	22.30	38.45
				H	128.54	42.31	-7.88	3.65	30.78	38.45
			E2	V	118.70	32.45	-7.88	3.65	20.92	38.45
				H	129.44	43.21	-7.88	3.65	31.68	38.45
	848.80	251	H	V	127.71	41.59	-7.88	3.68	30.03	38.45
				H	120.34	34.15	-7.88	3.68	22.59	38.45
			E1	V	120.83	34.71	-7.88	3.68	23.15	38.45
				H	128.96	42.77	-7.88	3.68	31.21	38.45
			E2	V	117.88	31.76	-7.88	3.68	20.20	38.45
				H	129.82	43.63	-7.88	3.68	32.07	38.45

Remark :

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

RBW=300 KHz, VBW=1MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
GSM 1900	1850.20	512	H	V	128.25	23.86	9.90	5.56	28.20	33.00
				H	127.77	23.59	9.90	5.56	27.93	33.00
			E1	V	125.71	21.32	9.90	5.56	25.66	33.00
				H	125.74	21.56	9.90	5.56	25.90	33.00
			E2	V	121.78	17.39	9.90	5.56	21.73	33.00
				H	128.59	24.41	9.90	5.84	28.47	33.00
	1880.00	661	H	V	127.90	23.54	9.99	5.61	27.92	33.00
				H	127.91	23.77	9.99	5.61	28.14	33.00
			E1	V	126.07	21.71	9.99	5.61	26.09	33.00
				H	124.69	20.55	9.99	5.61	24.92	33.00
			E2	V	121.30	16.94	9.99	5.61	21.32	33.00
				H	128.53	24.39	9.99	5.61	28.76	33.00
	1909.80	810	H	V	125.74	21.41	10.08	5.66	25.83	33.00
				H	126.30	22.19	10.08	5.66	26.61	33.00
			E1	V	124.51	20.18	10.08	5.66	24.60	33.00
				H	123.55	19.44	10.08	5.66	23.86	33.00
			E2	V	120.50	16.17	10.08	5.66	20.59	33.00
				H	126.98	22.87	10.08	5.66	27.29	33.00

Remark :

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

RBW=300 KHz, VBW=1MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	125.32	38.93	-7.87	3.62	27.43	38.45
				H	118.95	32.68	-7.87	3.62	21.18	38.45
			E1	V	117.09	30.70	-7.87	3.62	19.20	38.45
				H	125.62	39.35	-7.87	3.62	27.85	38.45
			E2	V	112.53	26.14	-7.87	3.62	14.64	38.45
				H	127.06	40.79	-7.87	3.62	29.29	38.45
	836.60	190	H	V	125.47	39.22	-7.88	3.65	27.69	38.45
				H	119.11	32.88	-7.88	3.65	21.35	38.45
			E1	V	117.42	31.17	-7.88	3.65	19.64	38.45
				H	125.81	39.58	-7.88	3.65	28.05	38.45
			E2	V	113.60	27.35	-7.88	3.65	15.82	38.45
				H	126.84	40.61	-7.88	3.65	29.08	38.45
	848.80	251	H	V	125.07	38.95	-7.88	3.68	27.39	38.45
				H	119.31	33.12	-7.88	3.68	21.56	38.45
			E1	V	117.20	31.08	-7.88	3.68	19.52	38.45
				H	125.60	39.41	-7.88	3.68	27.85	38.45
			E2	V	114.68	28.56	-7.88	3.68	17.00	38.45
				H	126.25	40.06	-7.88	3.68	28.50	38.45

Remark :

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

RBW=300 KHz, VBW=1MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	H	V	127.93	23.54	9.90	5.56	27.88	33.00
				H	126.08	21.90	9.90	5.56	26.24	33.00
			E1	V	126.17	21.78	9.90	5.56	26.12	33.00
				H	124.21	20.03	9.90	5.56	24.37	33.00
			E2	V	121.37	16.98	9.90	5.56	21.32	33.00
				H	127.84	23.66	9.90	5.84	27.72	33.00
	1880.00	661	H	V	127.40	23.04	9.99	5.61	27.42	33.00
				H	125.35	21.21	9.99	5.61	25.58	33.00
			E1	V	125.44	21.08	9.99	5.61	25.46	33.00
				H	124.43	20.29	9.99	5.61	24.66	33.00
			E2	V	120.83	16.47	9.99	5.61	20.85	33.00
				H	127.66	23.52	9.99	5.61	27.89	33.00
	1909.80	810	H	V	126.09	21.76	10.08	5.66	26.18	33.00
				H	123.71	19.60	10.08	5.66	24.02	33.00
			E1	V	124.05	19.72	10.08	5.66	24.14	33.00
				H	123.12	19.01	10.08	5.66	23.43	33.00
			E2	V	119.82	15.49	10.08	5.66	19.91	33.00
				H	126.25	22.14	10.08	5.66	26.56	33.00

Remark :

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

RBW=300 KHz, VBW=1MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA Band II	1852.40	9262	H	V	121.93	17.55	9.90	5.56	21.88	33.00
				H	119.94	15.76	9.90	5.56	20.10	33.00
			E1	V	120.27	15.89	9.90	5.56	20.22	33.00
				H	119.15	14.97	9.90	5.56	19.31	33.00
			E2	V	117.80	13.42	9.90	5.56	17.75	33.00
				H	121.36	17.18	9.90	5.84	21.24	33.00
	1880.00	9400	H	V	121.69	17.33	9.99	5.61	21.71	33.00
				H	119.71	15.57	9.99	5.61	19.94	33.00
			E1	V	119.40	15.01	9.90	5.56	19.35	33.00
				H	117.95	13.81	9.99	5.61	18.18	33.00
			E2	V	118.18	13.82	9.99	5.61	18.20	33.00
				H	121.73	17.59	9.99	5.61	21.96	33.00
	1907.60	9538	H	V	122.11	17.78	10.07	5.66	22.19	33.00
				H	120.13	16.02	10.07	5.66	20.43	33.00
			E1	V	119.82	15.49	10.07	5.66	19.90	33.00
				H	118.07	13.96	10.07	5.66	18.37	33.00
			E2	V	118.83	14.50	10.07	5.66	18.91	33.00
				H	121.77	17.66	10.07	5.66	22.07	33.00

Remark :

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

RBW= 5MHz , VBW= 8MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
WCDMA IV	1712.40	1312	H	V	119.99	12.97	9.48	5.17	17.29	33.00
				H	122.80	15.83	9.48	5.17	20.14	33.00
			E1	V	119.47	12.45	9.48	5.17	16.77	33.00
				H	119.24	12.27	9.48	5.17	16.58	33.00
			E2	V	117.37	10.35	9.48	5.17	14.67	33.00
				H	121.97	15.00	9.90	5.84	19.06	33.00
	1732.60	1413	H	V	119.81	12.80	9.54	5.20	17.14	33.00
				H	122.43	15.47	9.54	5.20	19.81	33.00
			E1	V	120.07	13.06	9.54	5.20	17.40	33.00
				H	119.15	12.19	9.54	5.20	16.53	33.00
			E2	V	117.12	10.11	9.54	5.20	14.45	33.00
				H	121.70	14.74	9.54	5.20	19.08	33.00
	1752.60	1513	H	V	120.41	13.41	9.60	5.24	17.78	33.00
				H	122.69	15.74	9.60	5.24	20.11	33.00
			E1	V	120.64	13.64	9.60	5.24	18.01	33.00
				H	119.91	12.96	9.60	5.24	17.33	33.00
			E2	V	117.37	10.37	9.60	5.24	14.74	33.00
				H	122.25	15.30	9.60	5.24	19.67	33.00

Remark:

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

RBW= 5MHz , VBW= 8MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSUPA Band II	1852.40	9262	H	V	118.27	13.89	9.90	5.56	18.22	33.00
				H	120.37	16.19	9.90	5.56	20.53	33.00
			E1	V	119.61	15.23	9.90	5.56	19.56	33.00
				H	115.25	11.07	9.90	5.56	15.41	33.00
			E2	V	113.47	9.09	9.90	5.56	13.42	33.00
				H	122.54	18.36	9.90	5.84	22.42	33.00
	1880.00	9400	H	V	118.86	14.50	9.99	5.61	18.88	33.00
				H	120.86	16.72	9.99	5.61	21.09	33.00
			E1	V	118.73	14.34	9.90	5.56	18.68	33.00
				H	116.13	11.99	9.99	5.61	16.36	33.00
			E2	V	114.31	9.95	9.99	5.61	14.33	33.00
				H	122.23	18.09	9.99	5.61	22.46	33.00
	1907.60	9538	H	V	118.99	14.66	10.07	5.66	19.07	33.00
				H	121.24	17.13	10.07	5.66	21.54	33.00
			E1	V	118.91	14.58	10.07	5.66	18.99	33.00
				H	118.31	14.20	10.07	5.66	18.61	33.00
			E2	V	115.90	11.57	10.07	5.66	15.98	33.00
				H	121.86	17.75	10.07	5.66	22.16	33.00

Remark :

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

RBW= 5MHz , VBW= 8MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSUPA IV	1712.40	1312	H	V	117.90	10.88	9.48	5.17	15.20	33.00
				H	120.51	13.54	9.48	5.17	17.85	33.00
			E1	V	120.30	13.28	9.48	5.17	17.60	33.00
				H	116.10	9.13	9.48	5.17	13.44	33.00
			E2	V	114.26	7.24	9.48	5.17	11.56	33.00
				H	121.73	14.76	9.90	5.84	18.82	33.00
	1732.60	1413	H	V	117.84	10.83	9.54	5.20	15.17	33.00
				H	119.85	12.89	9.54	5.20	17.23	33.00
			E1	V	119.65	12.64	9.54	5.20	16.98	33.00
				H	115.47	8.51	9.54	5.20	12.85	33.00
			E2	V	113.28	6.27	9.54	5.20	10.61	33.00
				H	121.39	14.43	9.54	5.20	18.77	33.00
	1752.60	1513	H	V	119.00	12.00	9.60	5.24	16.37	33.00
				H	120.75	13.80	9.60	5.24	18.17	33.00
			E1	V	120.30	13.30	9.60	5.24	17.67	33.00
				H	116.12	9.17	9.60	5.24	13.54	33.00
			E2	V	114.48	7.48	9.60	5.24	11.85	33.00
				H	122.45	15.50	9.60	5.24	19.87	33.00

Remark:

(1) The RBW,VBW of SPA for frequency

RBW= 5MHz , VBW= 8MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSDPA Band II	1852.40	9262	H	V	120.01	15.63	9.90	5.56	19.96	33.00
				H	121.96	17.78	9.90	5.56	22.12	33.00
			E1	V	120.94	16.56	9.90	5.56	20.89	33.00
				H	119.87	15.69	9.90	5.56	20.03	33.00
			E2	V	116.15	11.77	9.90	5.56	16.10	33.00
				H	122.76	18.58	9.90	5.84	22.64	33.00
	1880.00	9400	H	V	119.97	15.61	9.99	5.61	19.99	33.00
				H	122.32	18.18	9.99	5.61	22.55	33.00
			E1	V	121.17	16.78	9.90	5.56	21.12	33.00
				H	119.85	15.71	9.99	5.61	20.08	33.00
			E2	V	116.26	11.90	9.99	5.61	16.28	33.00
				H	122.72	18.58	9.99	5.61	22.95	33.00
	1907.60	9538	H	V	120.14	15.81	10.07	5.66	20.22	33.00
				H	122.88	18.77	10.07	5.66	23.18	33.00
			E1	V	121.24	16.91	10.07	5.66	21.32	33.00
				H	119.39	15.28	10.07	5.66	19.69	33.00
			E2	V	116.69	12.36	10.07	5.66	16.77	33.00
				H	122.73	18.62	10.07	5.66	23.03	33.00

Remark :

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

RBW= 5MHz , VBW= 8MHz

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
HSDPA IV	1712.40	1312	H	V	119.59	12.57	9.48	5.17	16.89	33.00
				H	122.62	15.65	9.48	5.17	19.96	33.00
			E1	V	119.56	12.54	9.48	5.17	16.86	33.00
				H	118.30	11.33	9.48	5.17	15.64	33.00
			E2	V	117.84	10.82	9.48	5.17	15.14	33.00
				H	121.95	14.98	9.90	5.84	19.04	33.00
	1732.60	1413	H	V	119.52	12.51	9.54	5.20	16.85	33.00
				H	122.56	15.60	9.54	5.20	19.94	33.00
			E1	V	120.21	13.20	9.54	5.20	17.54	33.00
				H	118.70	11.74	9.54	5.20	16.08	33.00
			E2	V	117.29	10.28	9.54	5.20	14.62	33.00
				H	121.80	14.84	9.54	5.20	19.18	33.00
	1752.60	1513	H	V	120.08	13.08	9.60	5.24	17.45	33.00
				H	122.63	15.68	9.60	5.24	20.05	33.00
			E1	V	120.80	13.80	9.60	5.24	18.17	33.00
				H	119.70	12.75	9.60	5.24	17.12	33.00
			E2	V	117.49	10.49	9.60	5.24	14.86	33.00
				H	122.12	15.17	9.60	5.24	19.54	33.00

Remark:

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

RBW= 5MHz , VBW= 8MHz

8. 99% OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable:

According to §FCC 2.1049.

8.2. Test Set-up:

Refer to section 5.2 in this report

8.3. Measurement Procedure:

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

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

8.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2388
	836.60	190	0.2441
	848.80	251	0.2428

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 1900	1850.20	512	0.2452
	1880.00	661	0.2453
	1909.80	810	0.2443

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 850	824.20	128	0.2449
	836.60	190	0.2464
	848.80	251	0.2432

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GPRS 1900	1850.20	512	0.2462
	1880.00	661	0.2421
	1909.80	810	0.2440

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2442
	836.60	190	0.2429
	848.80	251	0.2461

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2389
	1880.00	661	0.2378
	1909.80	810	0.2352

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band II	1852.40	9262	4.1405
	1880.00	9400	4.1211
	1907.60	9538	4.1226

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band IV	1712.40	1312	4.1253
	1732.60	1413	4.1467
	1752.60	1513	4.1357

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA Band II	1852.40	9262	4.1388
	1880.00	9400	4.1350
	1907.60	9538	4.1322

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA Band IV	1712.40	1312	4.1388
	1732.60	1413	4.1350
	1752.60	1513	4.1322

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band II	1852.40	9262	4.1360
	1880.00	9400	4.1424
	1907.60	9538	4.1209

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSDPA Band IV	1712.40	1312	4.1360
	1732.60	1413	4.1424
	1752.60	1513	4.1209

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Figure 8-1: GSM 850 Channel Low

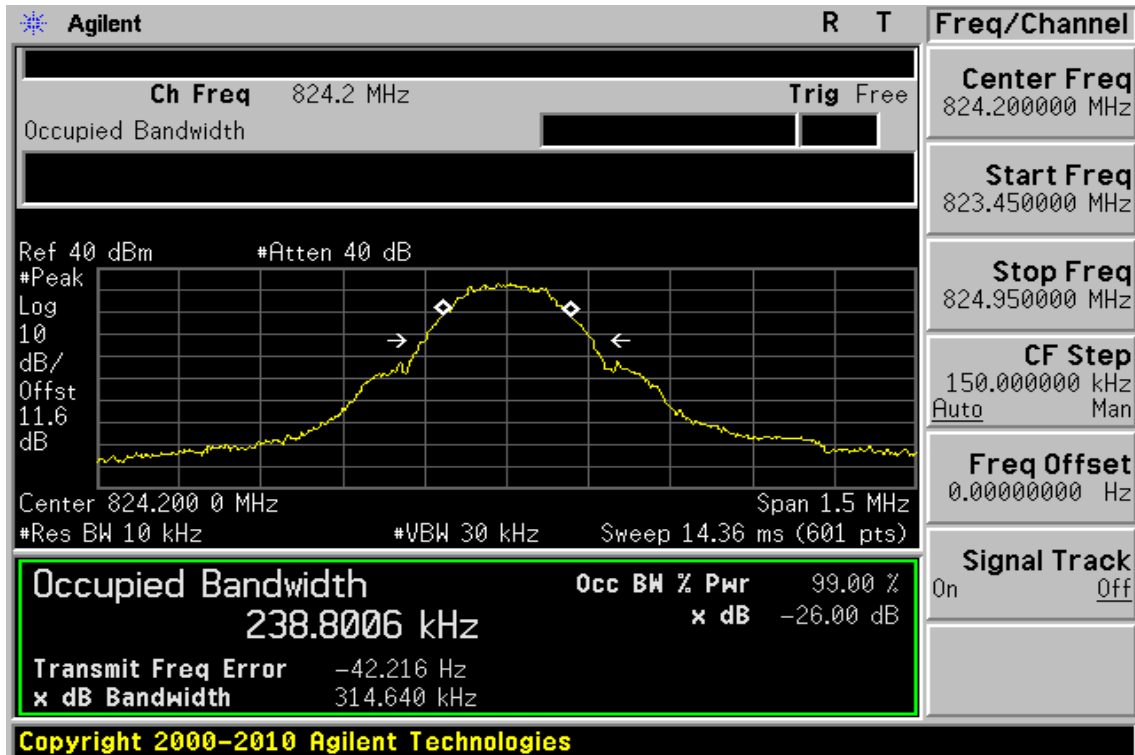
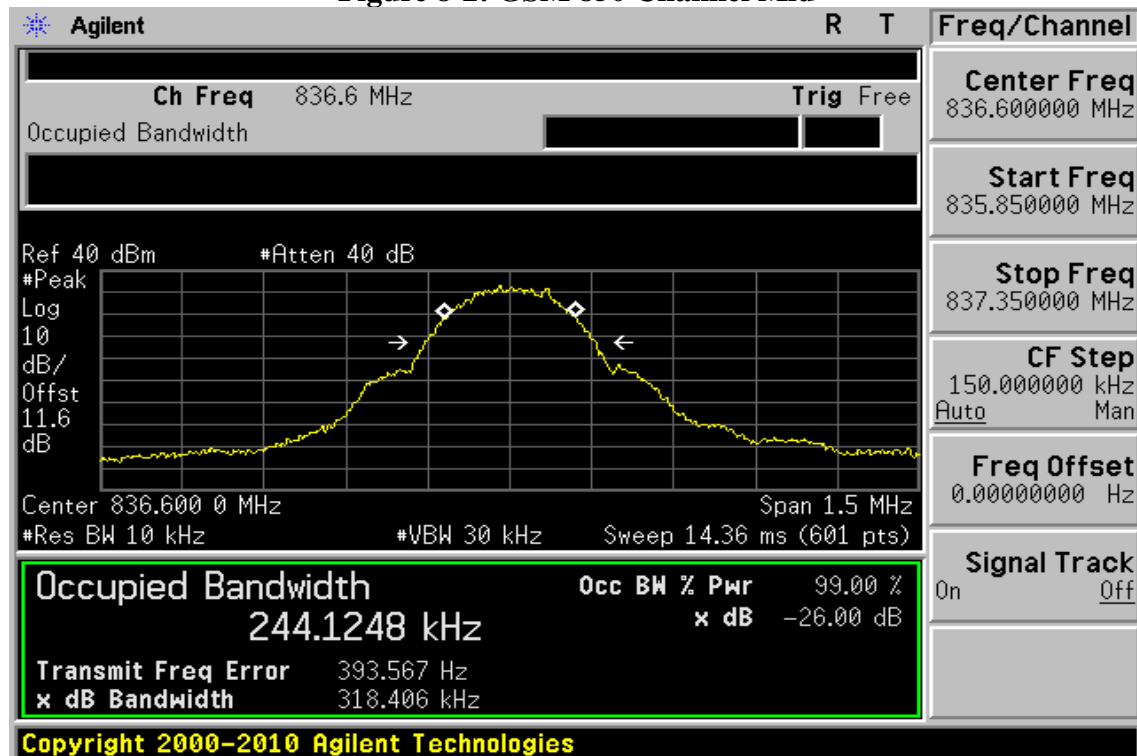


Figure 8-2: GSM 850 Channel Mid



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Figure 8-3: GSM 850 Channel High

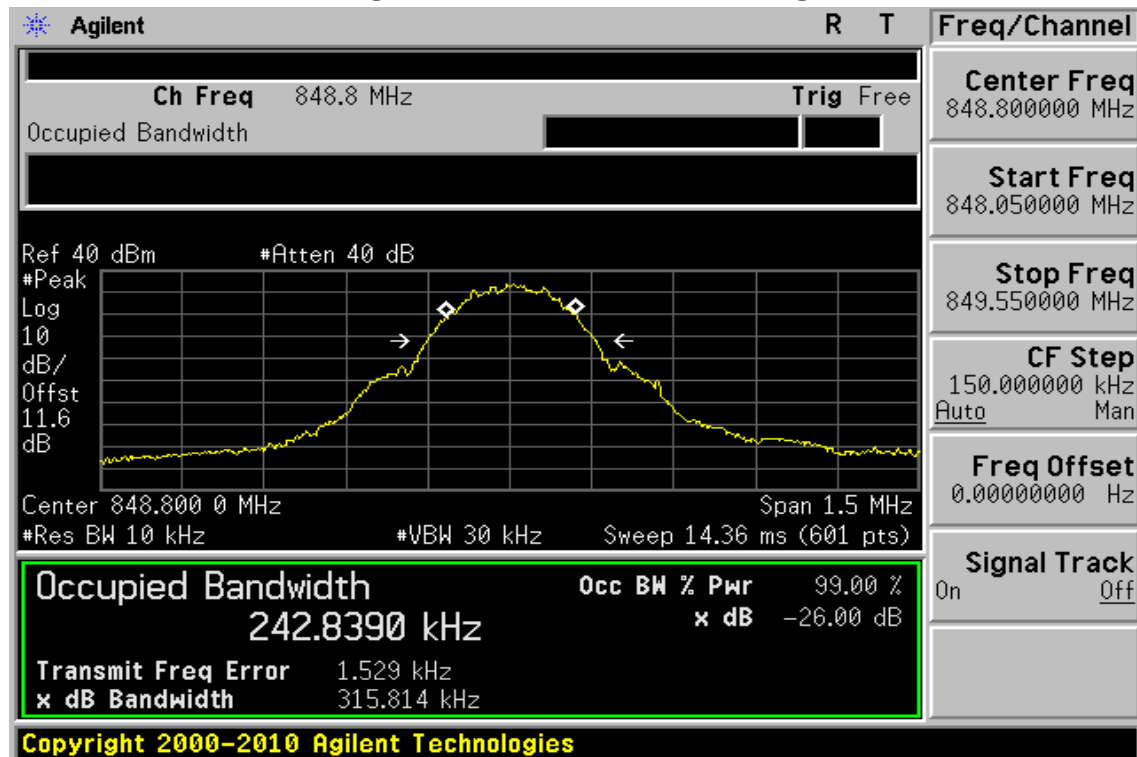
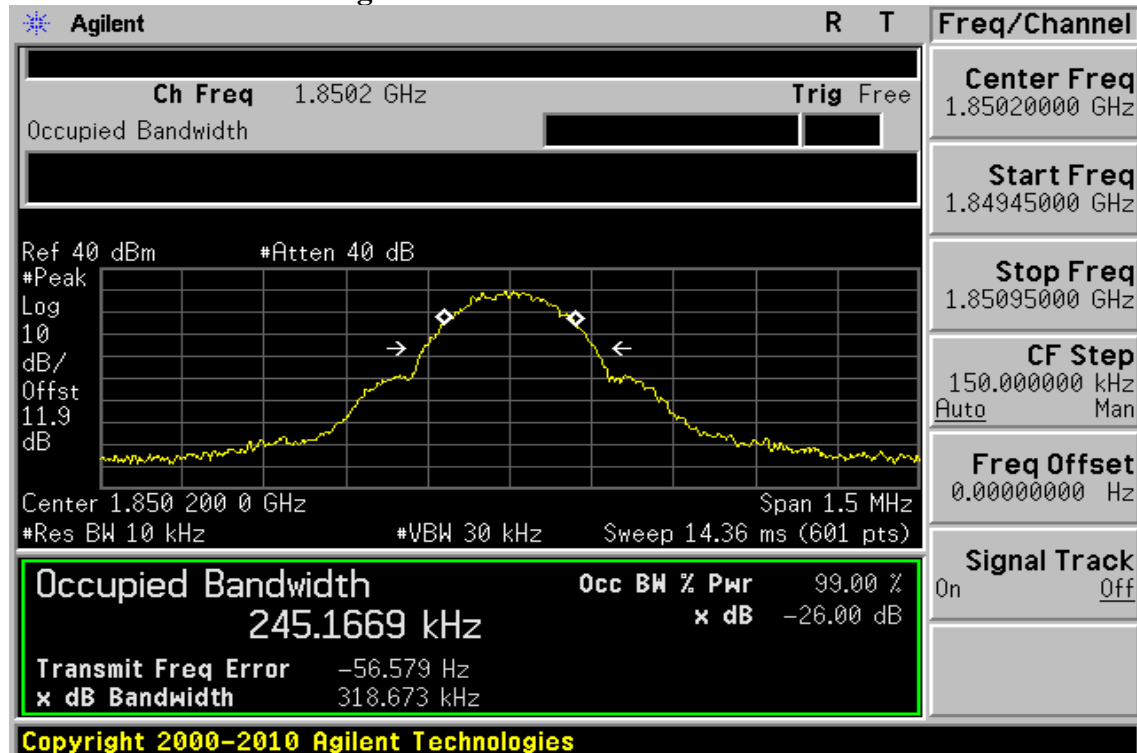


Figure 8-4: GSM 1900 Channel Low



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Figure 8-5: GSM 1900 Channel Mid

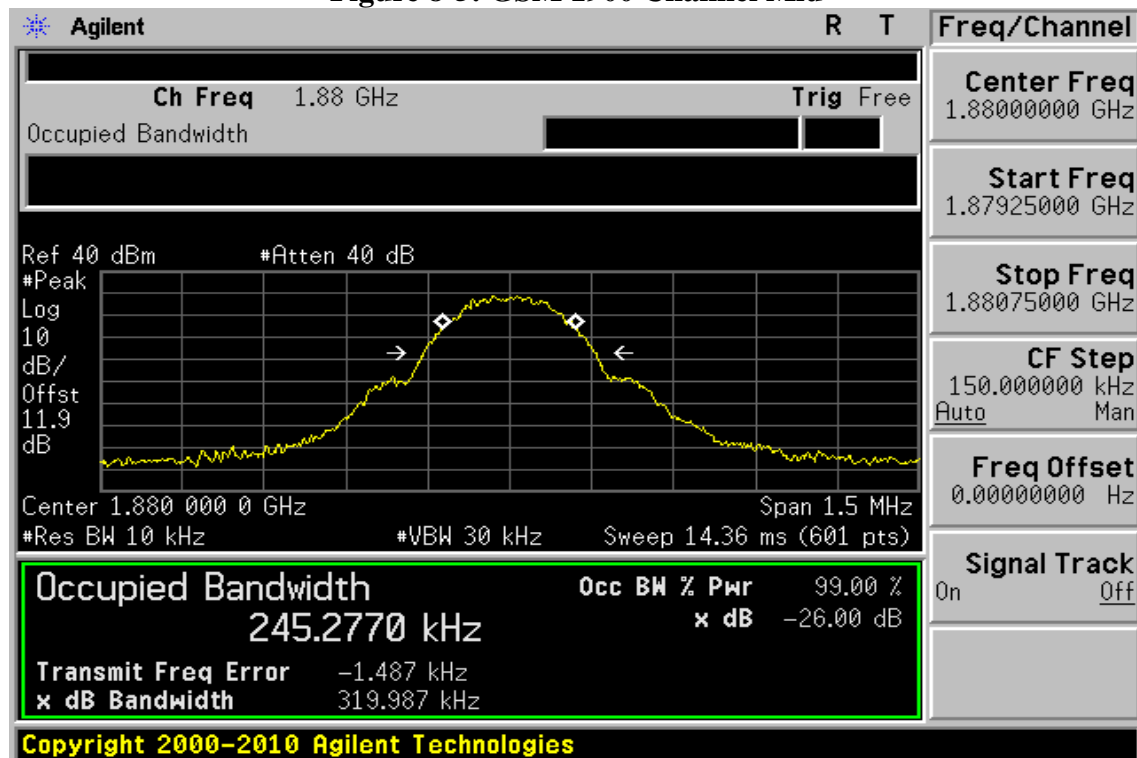
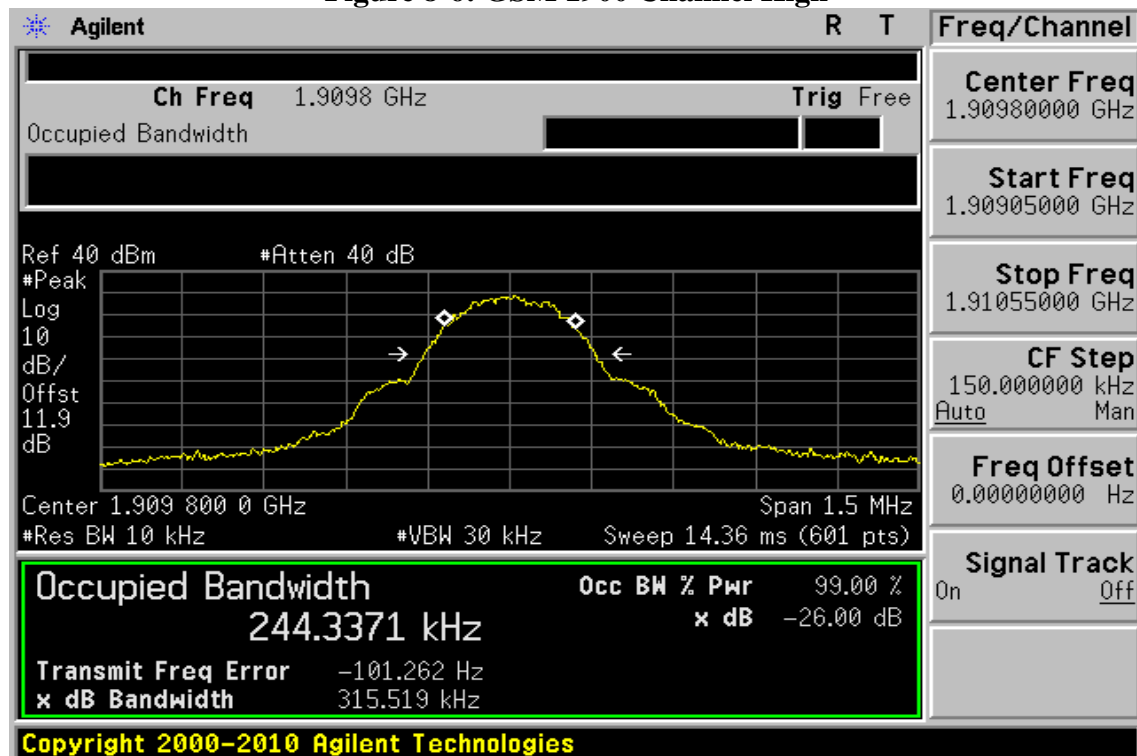


Figure 8-6: GSM 1900 Channel High



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Figure 8-7: GPRS 850 Channel Low

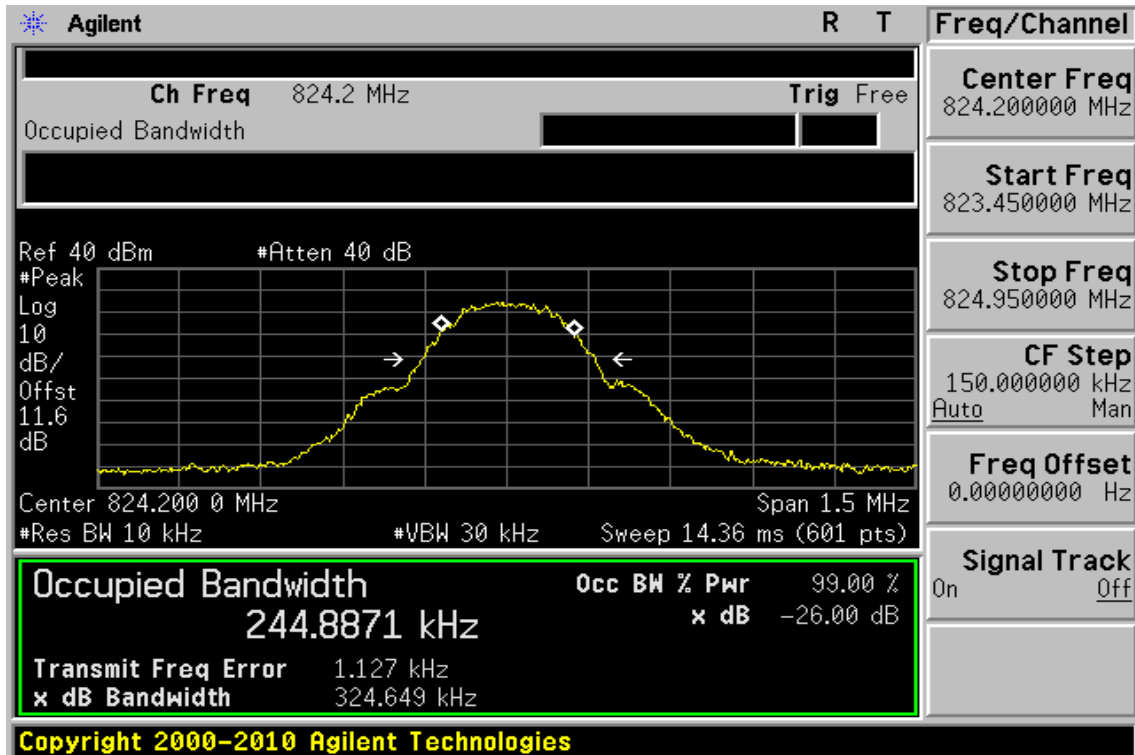
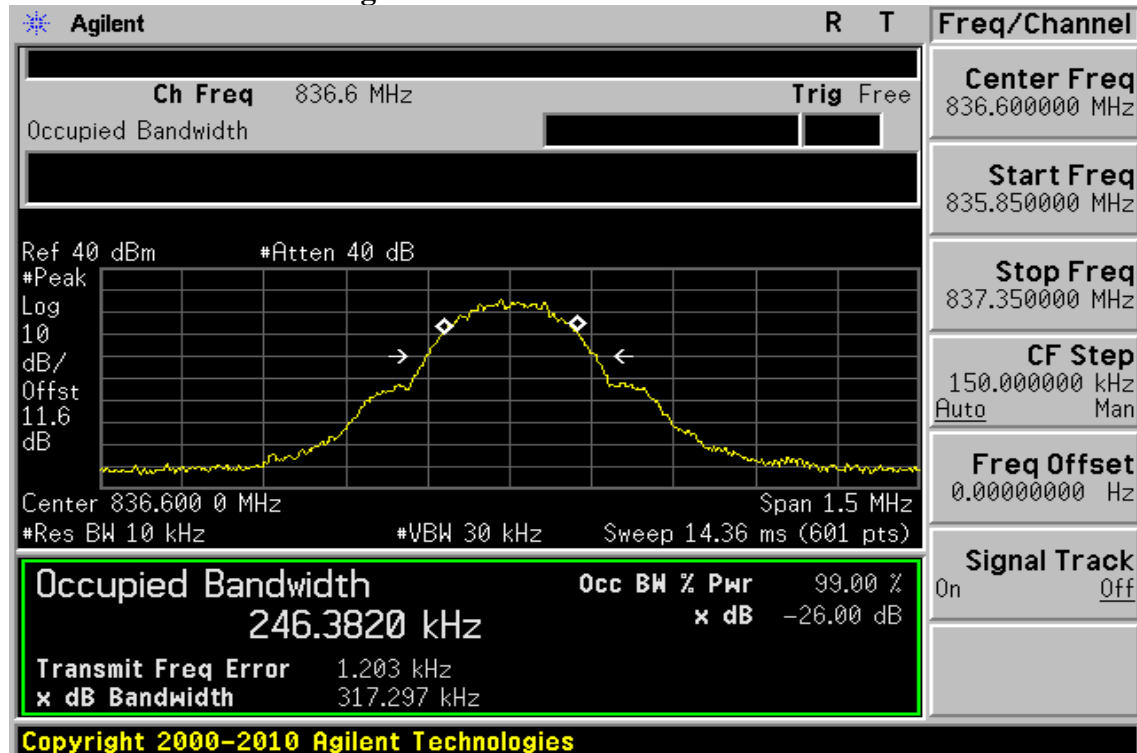


Figure 8-8: GPRS 850 Channel Mid



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Figure 8-9: GPRS 850 Channel High

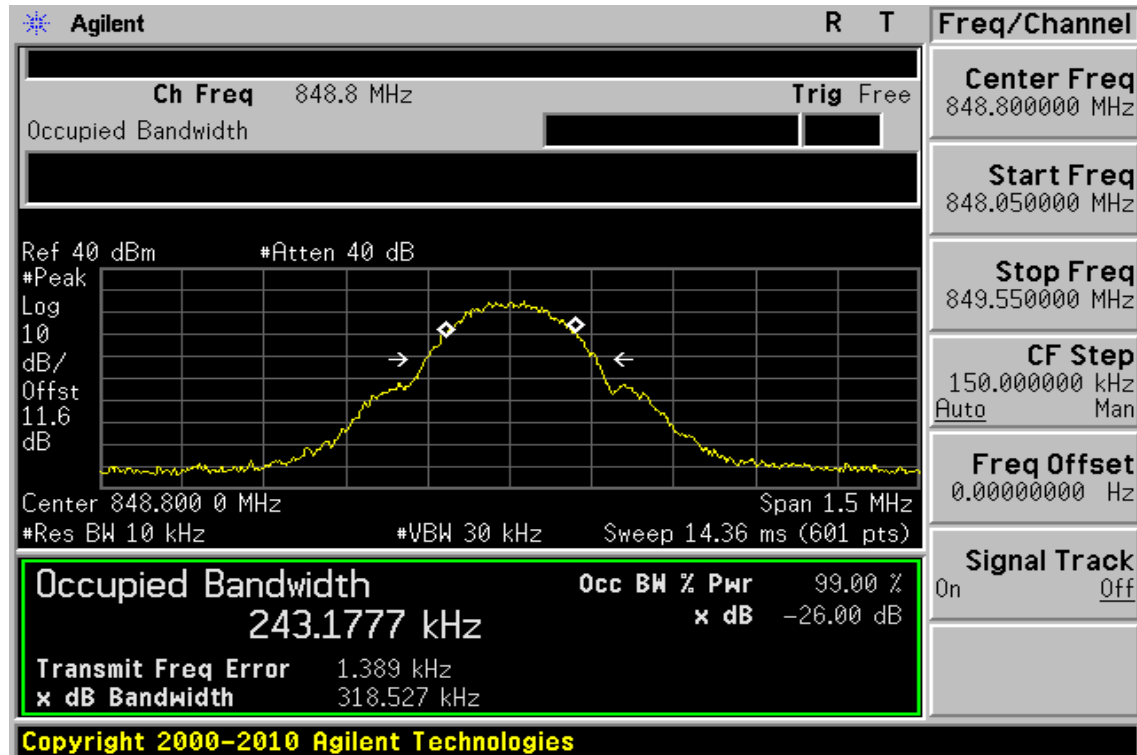
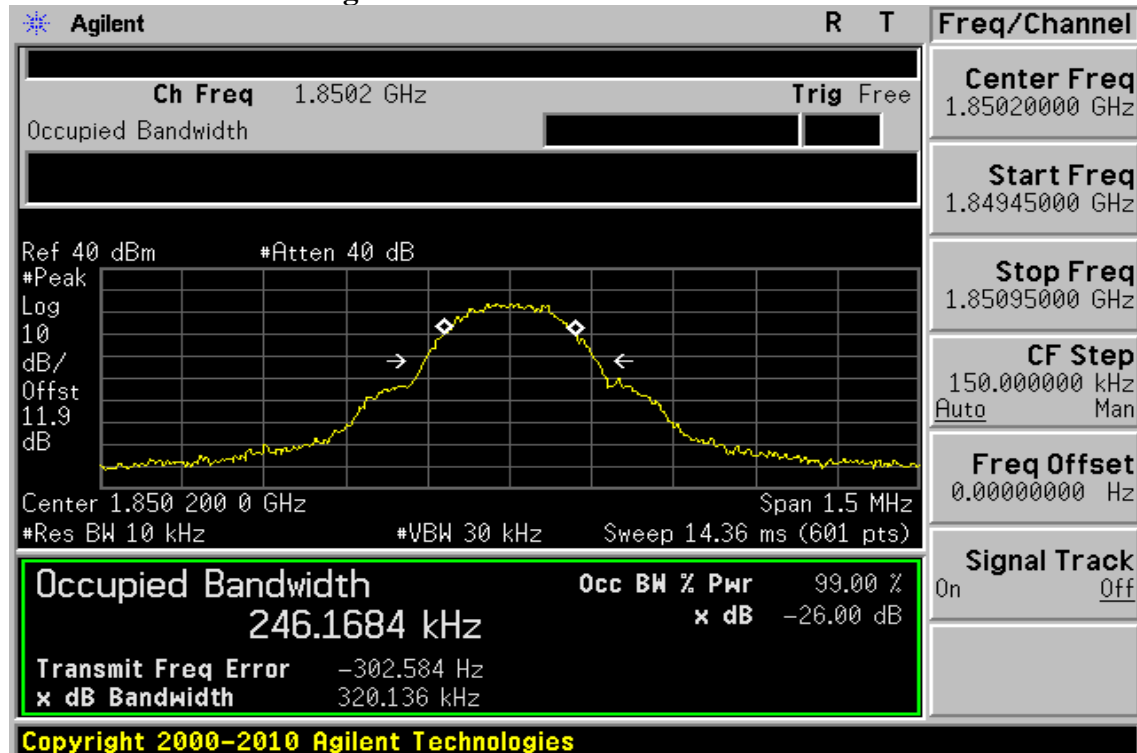


Figure 8-10: GPRS 1900 Channel Low



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Figure 8-11 GPRS 1900 Channel Mid

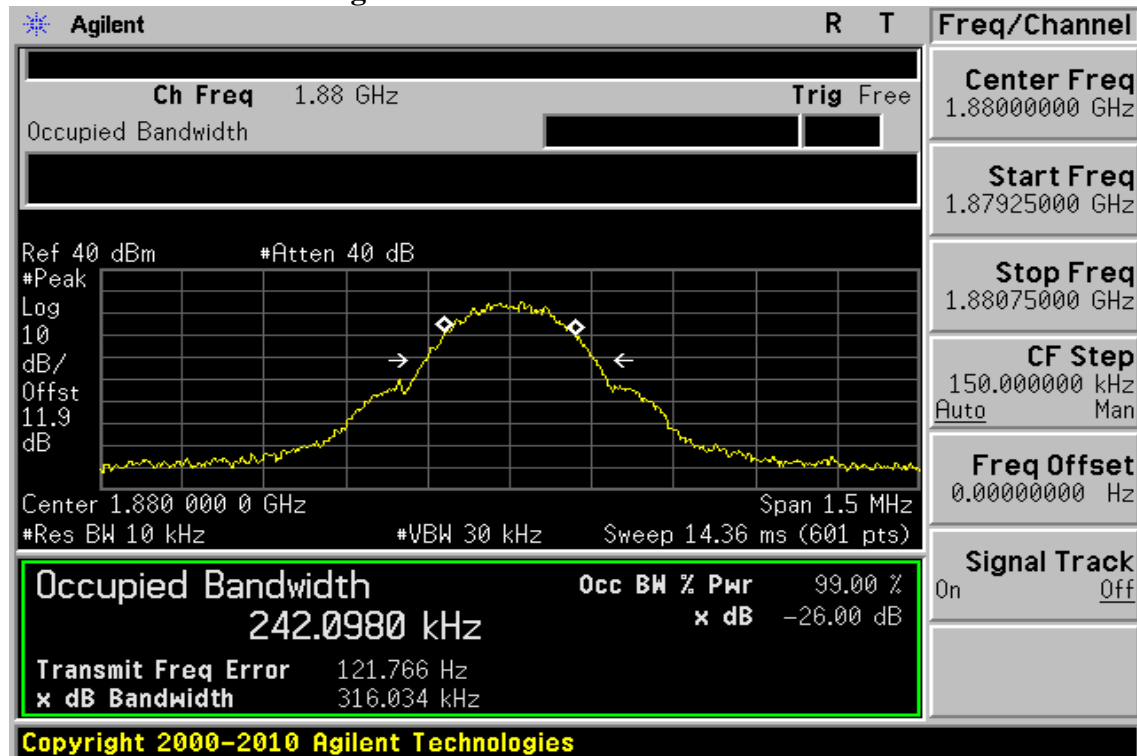
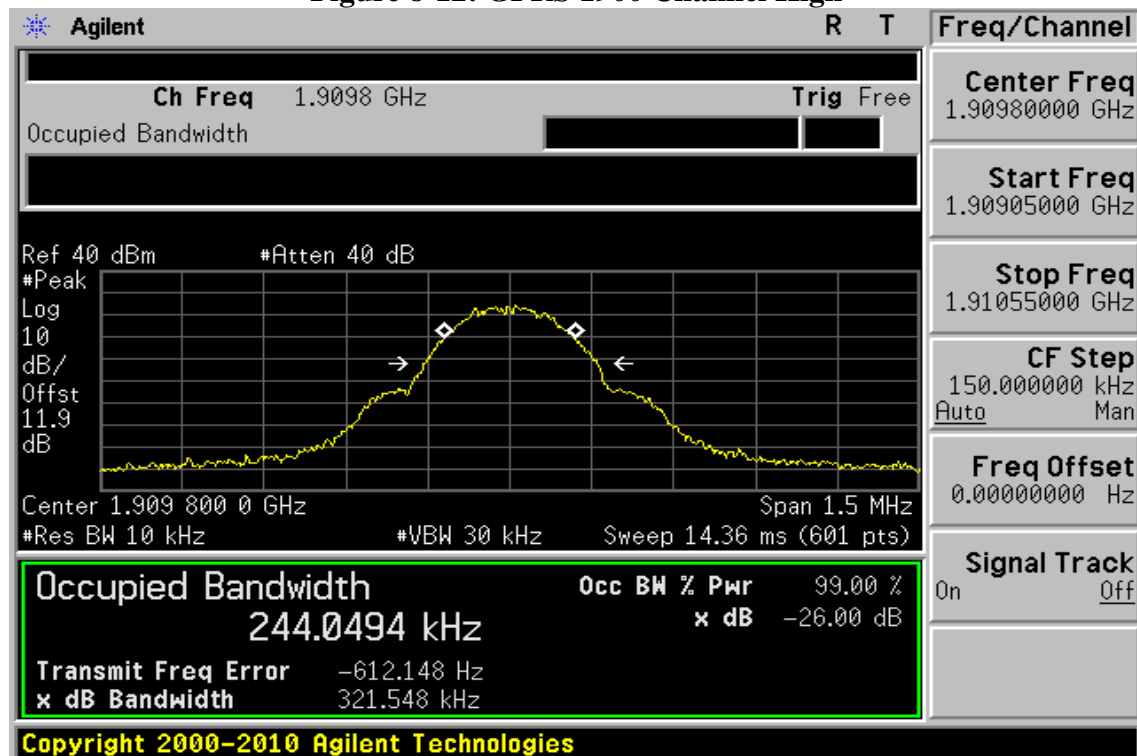


Figure 8-12: GPRS 1900 Channel High



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Figure 8-13: EDGE 850 Channel Low

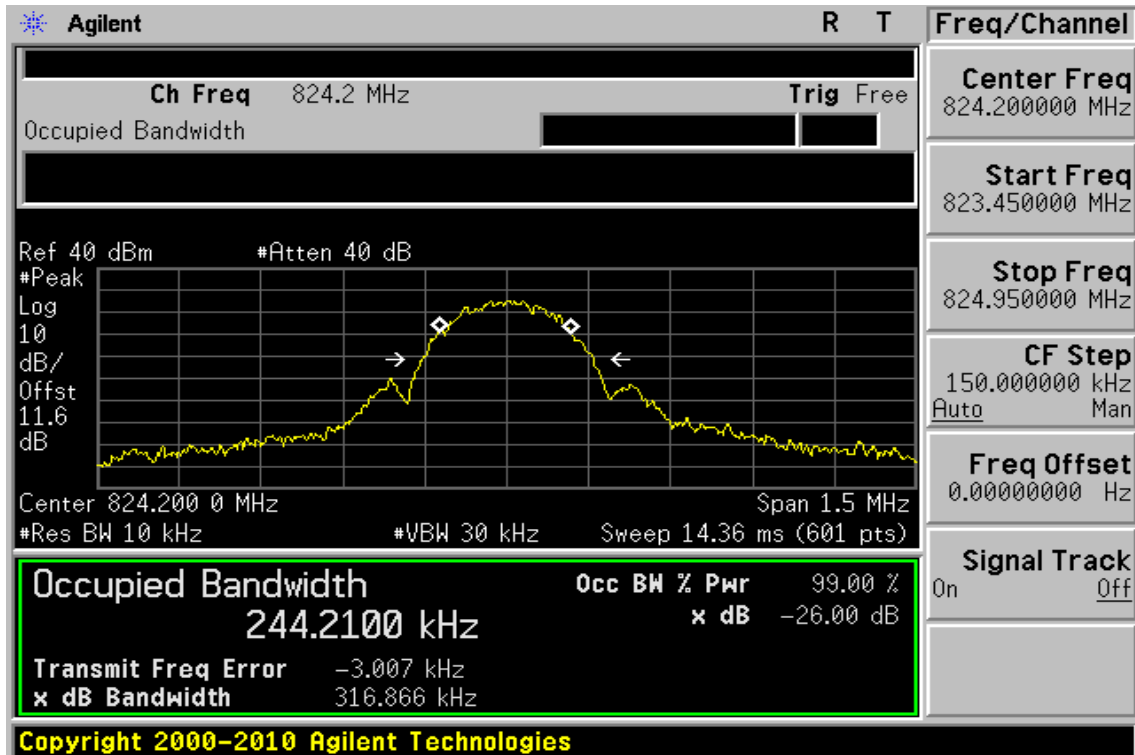
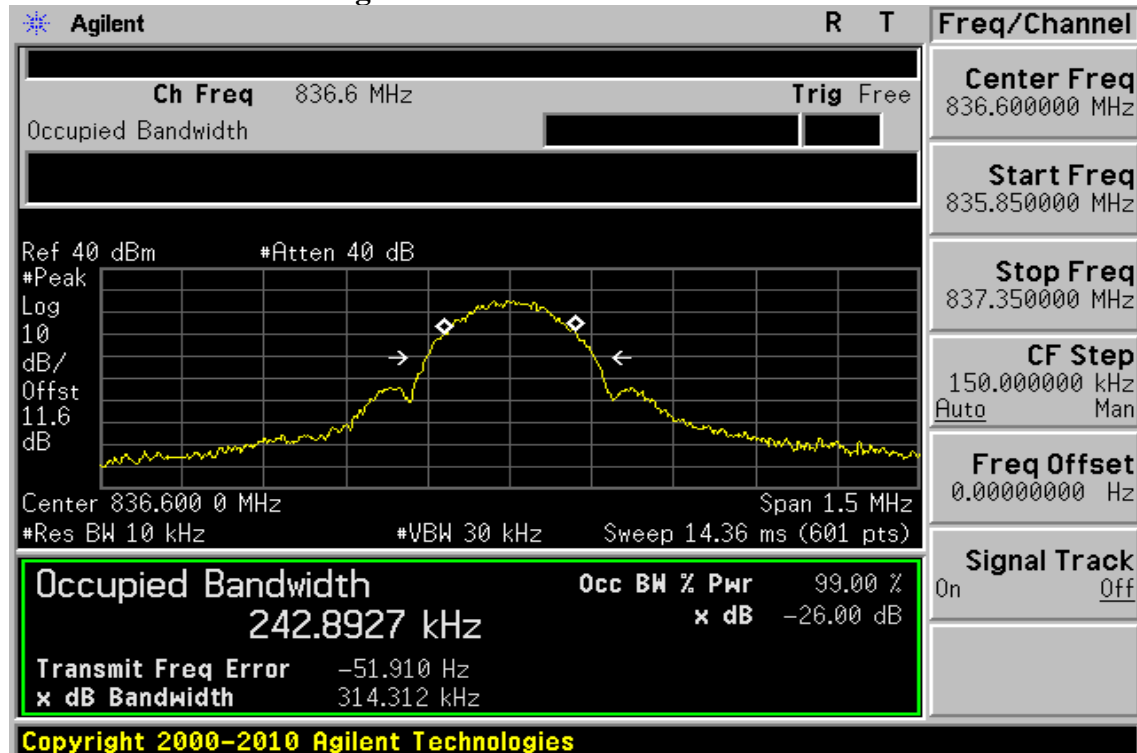


Figure 8-14 EDGE 850 Channel Mid



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Figure 8-15: EDGE 850 Channel High

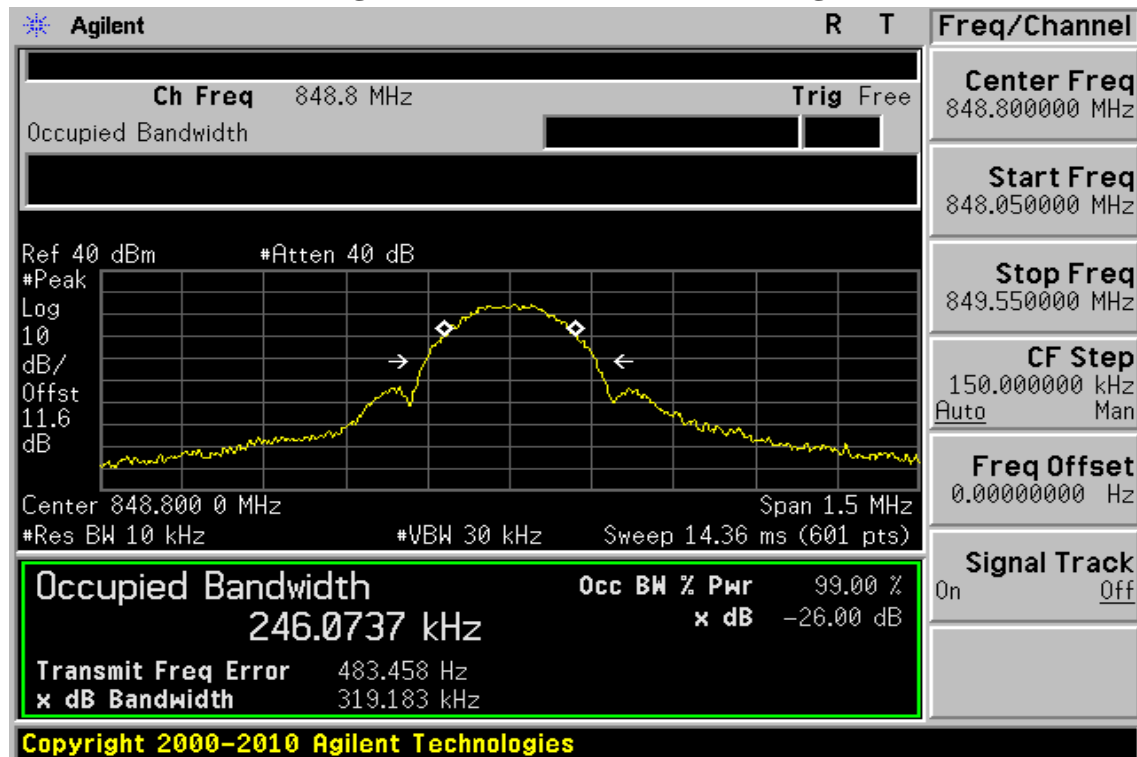


Figure 8-16: EDGE 1900 Channel Low

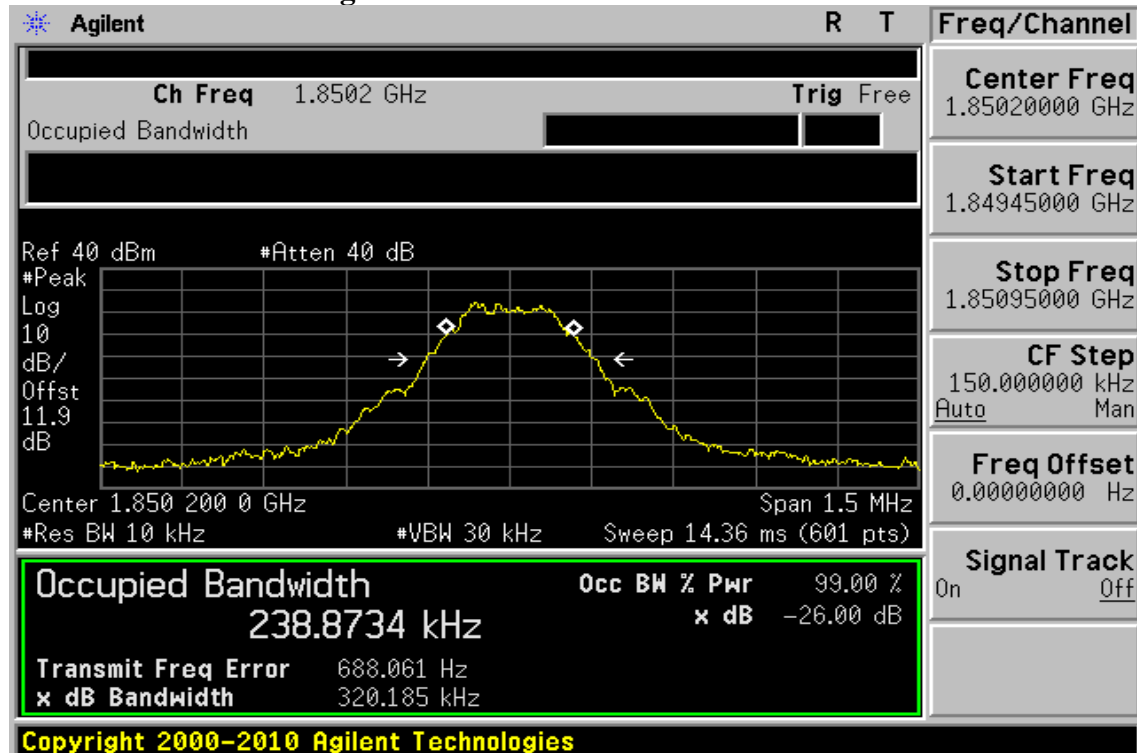


Figure 8-17 EDGE 1900 Channel Mid

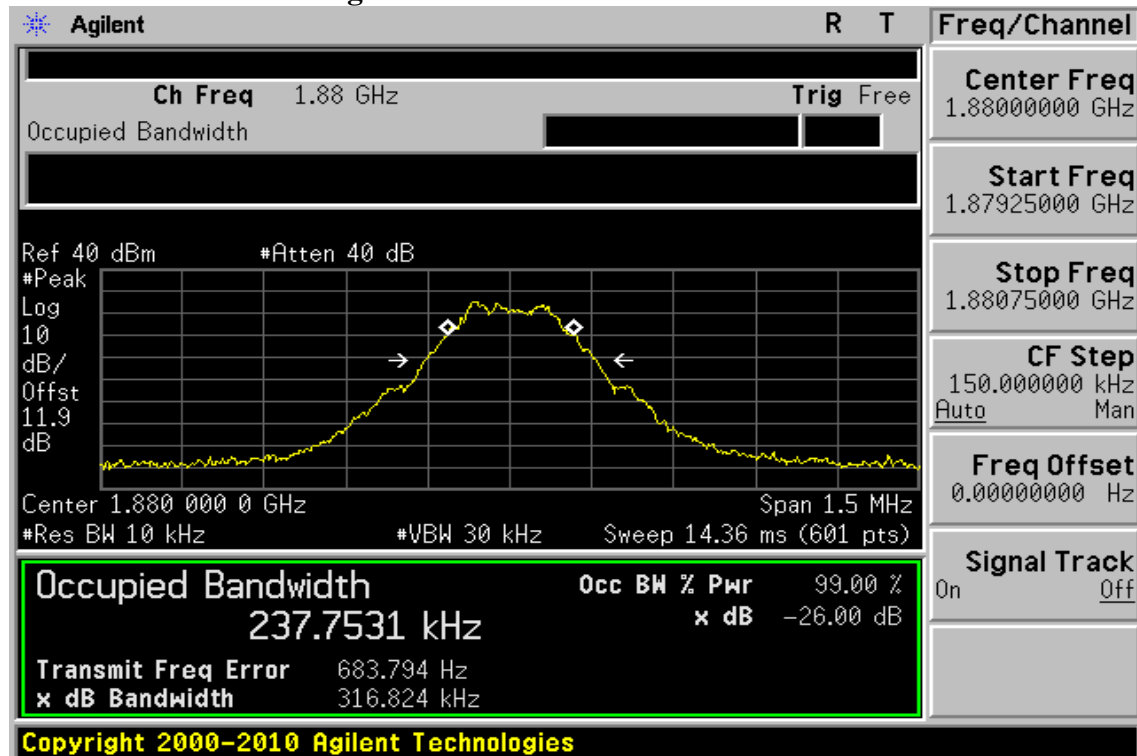
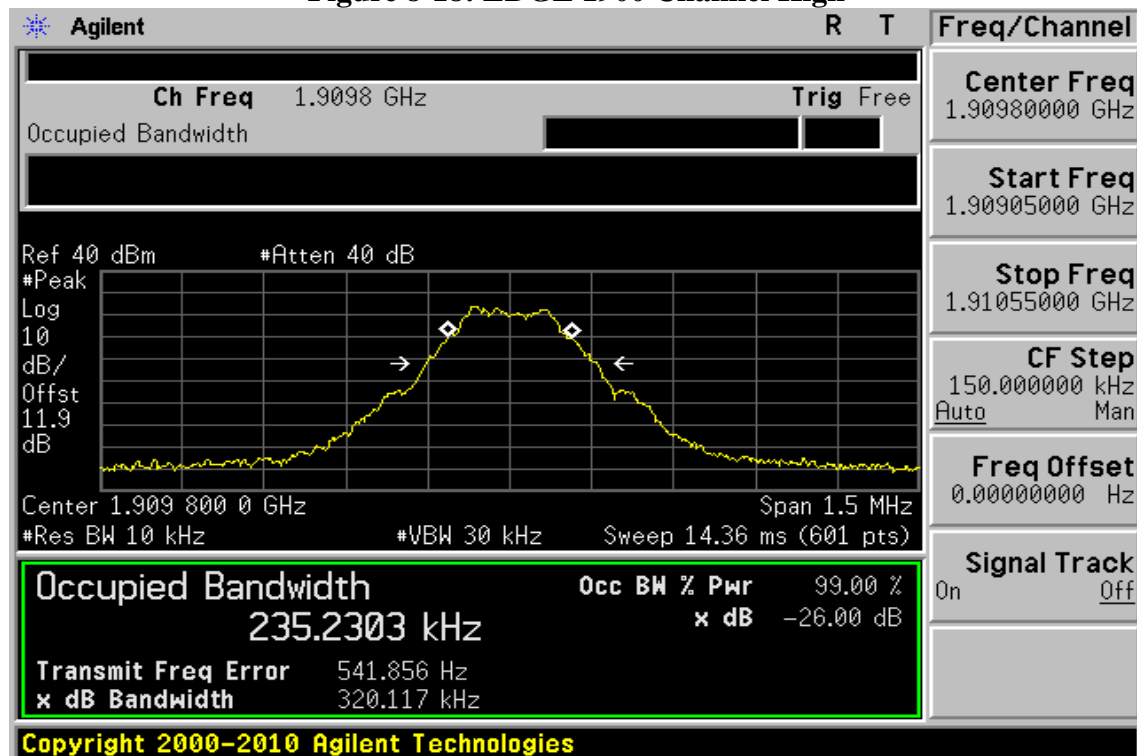


Figure 8-18: EDGE 1900 Channel High



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Figure 8-19: WCDMA Band II Channel Low

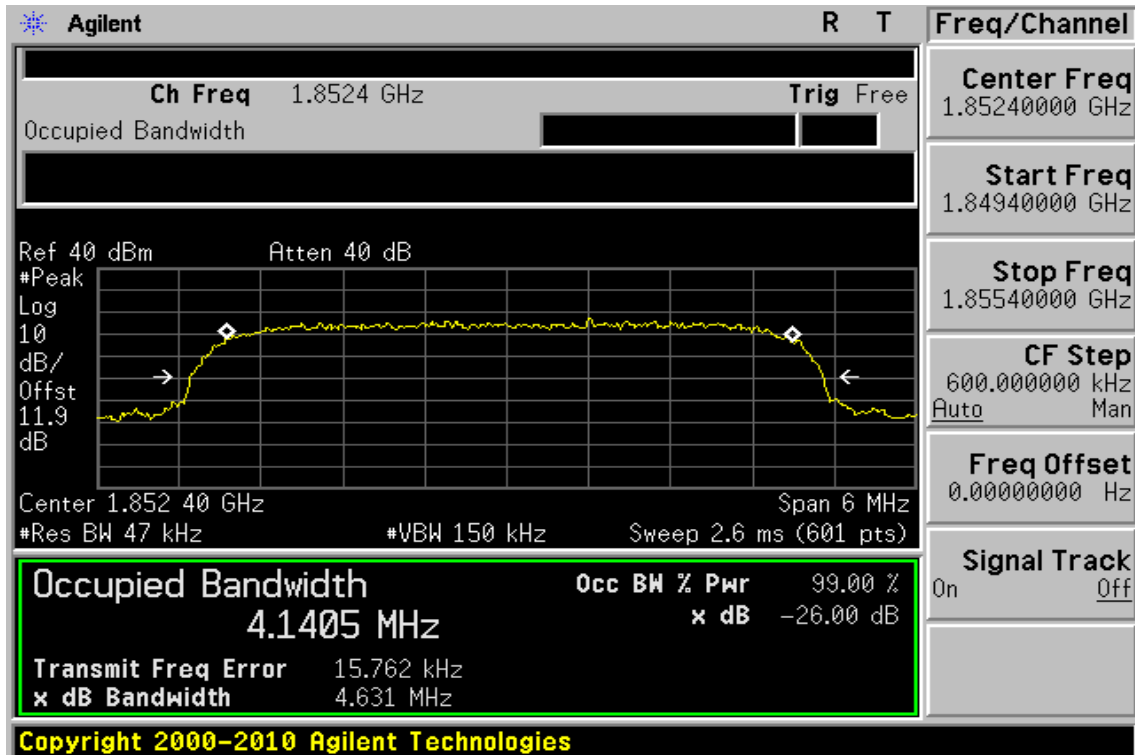
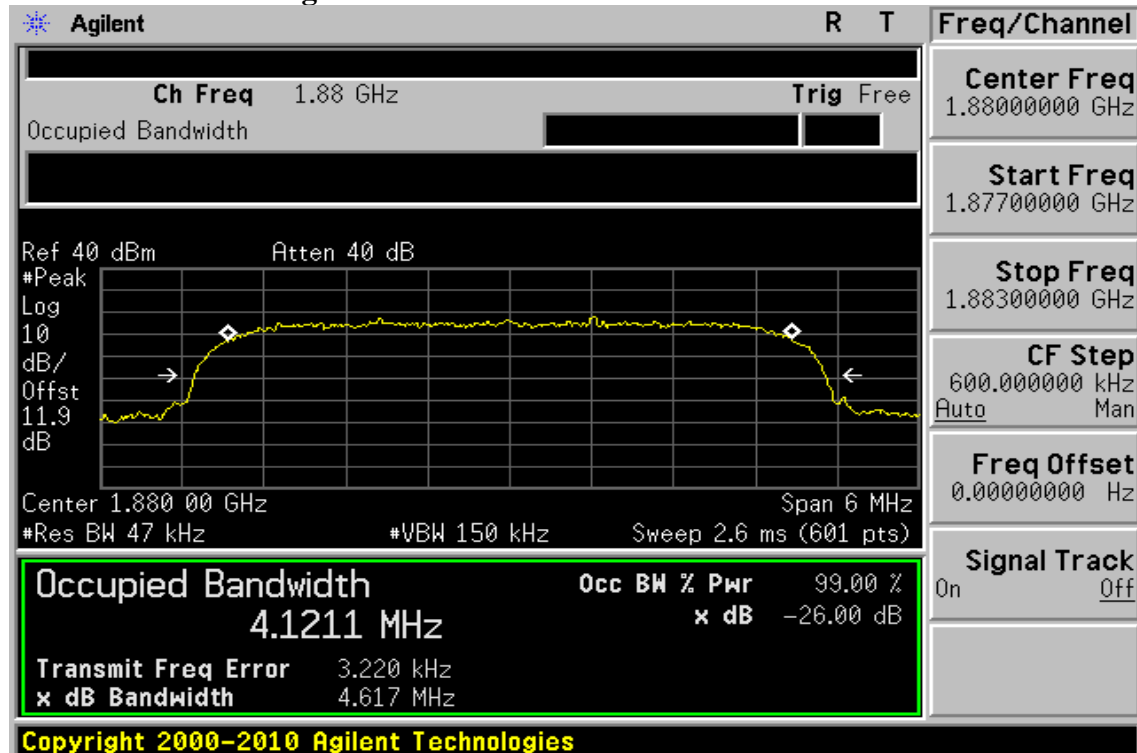


Figure 8-20: WCDMA Band II Channel Mid



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Figure 8-21: WCDMA Band II Channel High

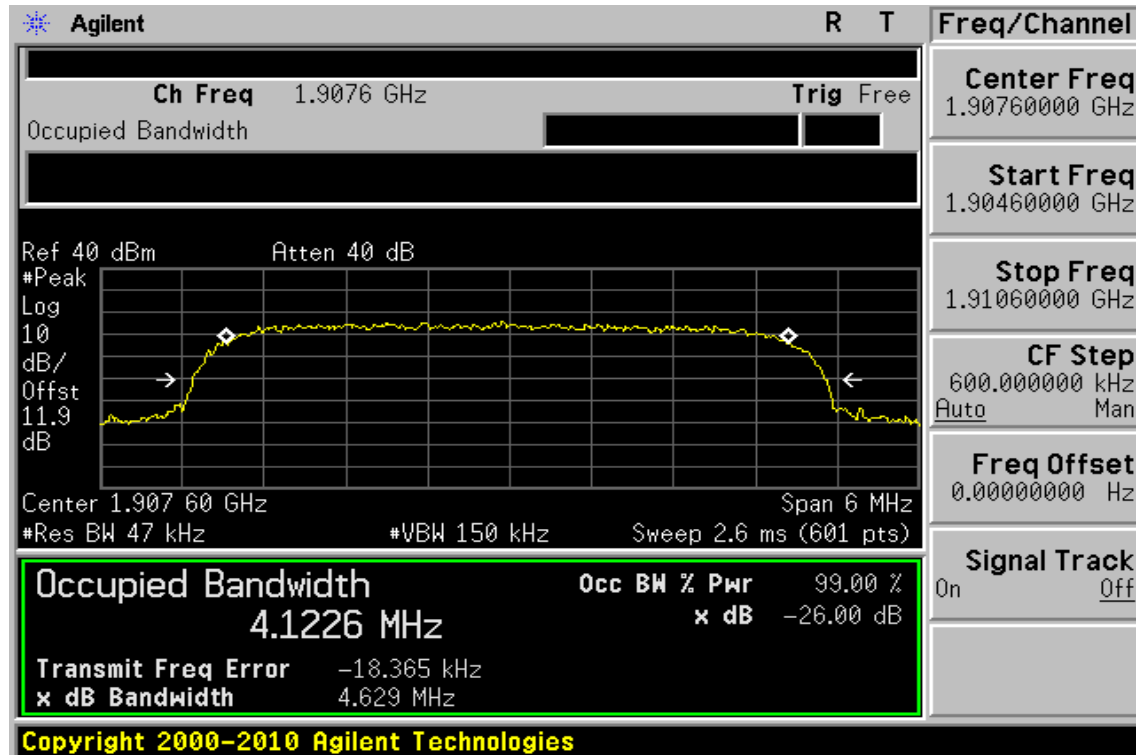
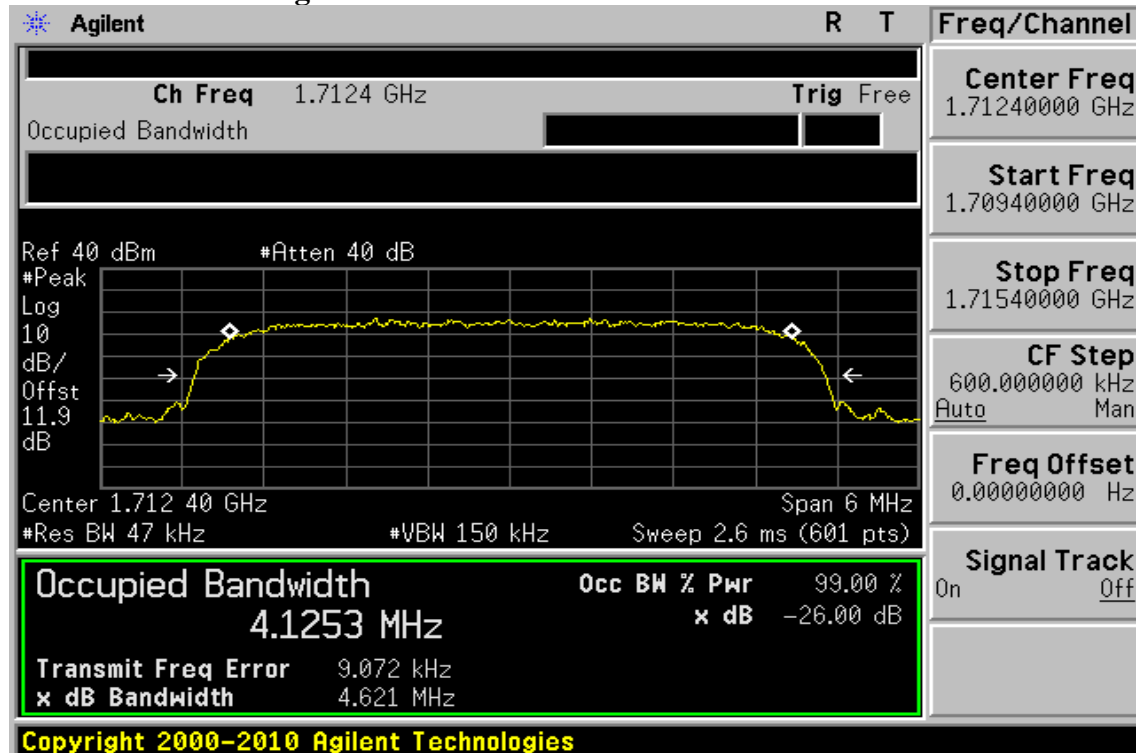


Figure 8-22: WCDMA Band IV Channel Low



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Figure 8-23: WCDMA Band IV Channel Mid

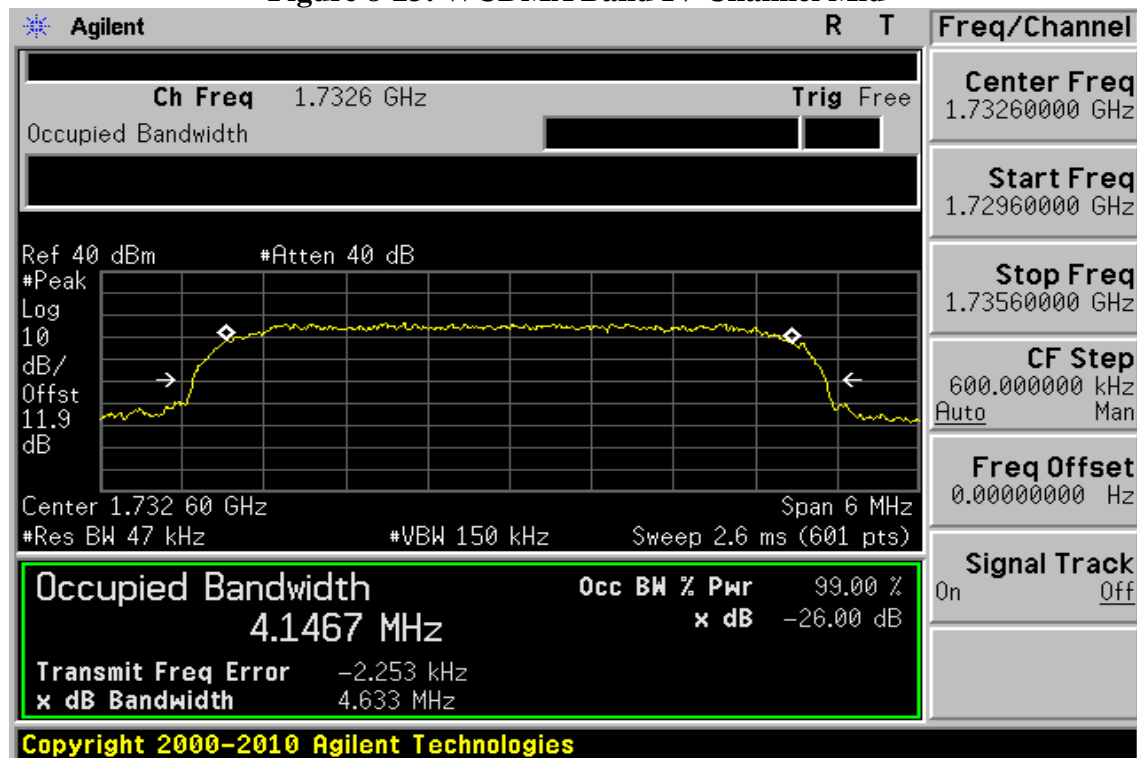
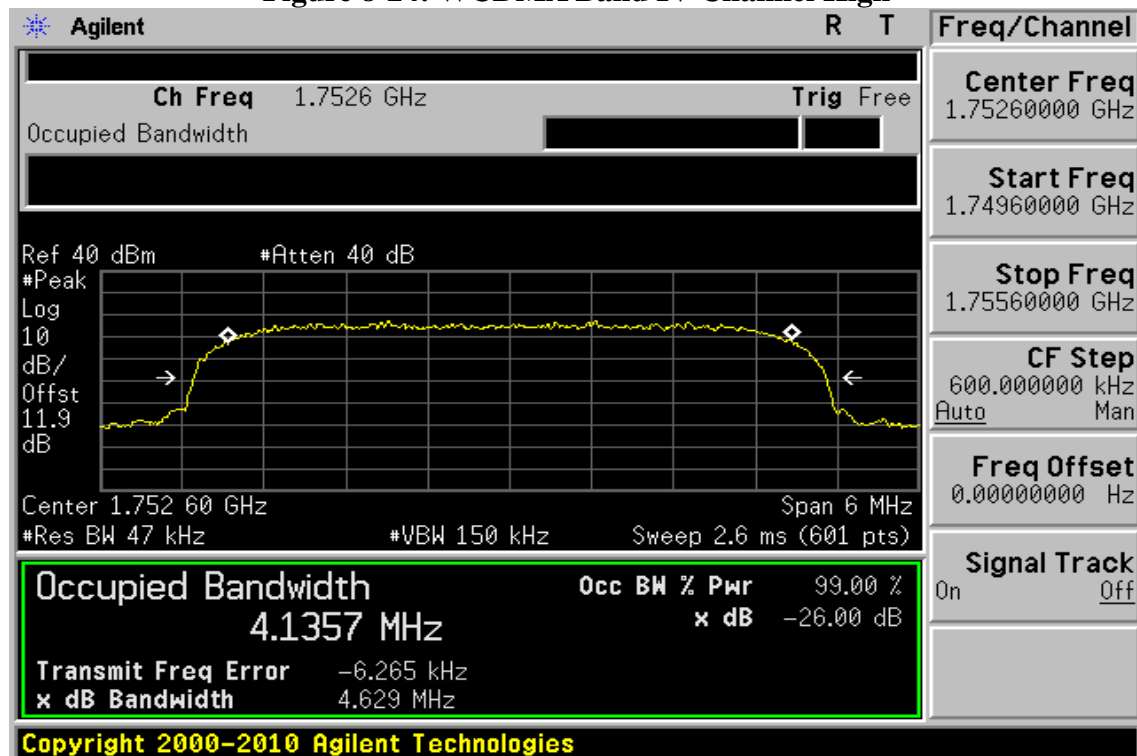


Figure 8-24: WCDMA Band IV Channel High



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Figure 8-25: HSUPA Band II Channel Low

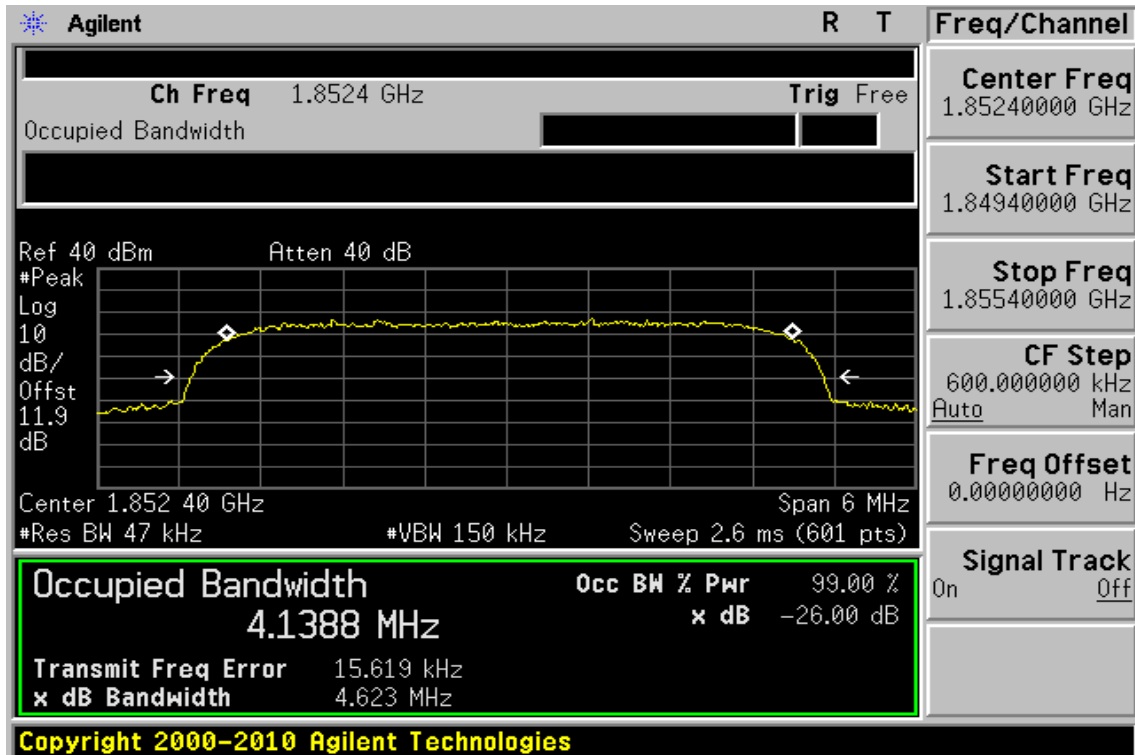


Figure 8-26 : HSUPA Band II Channel Mid

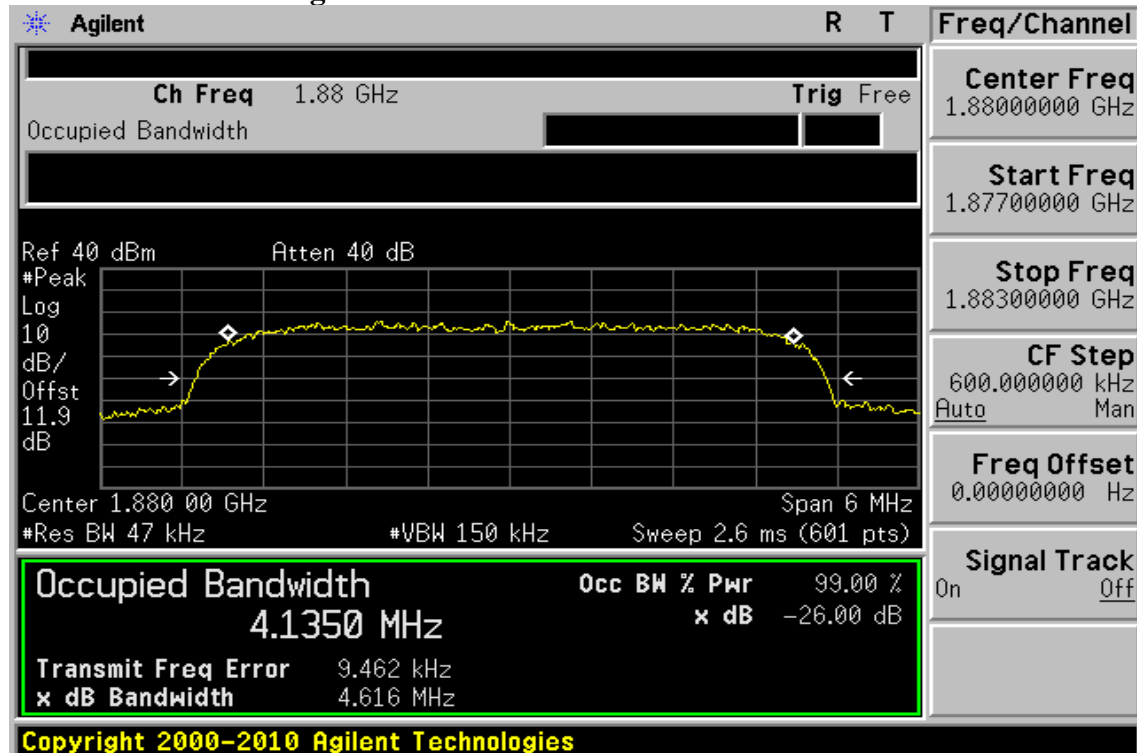


Figure 8-27: HSUPA Band II Channel High

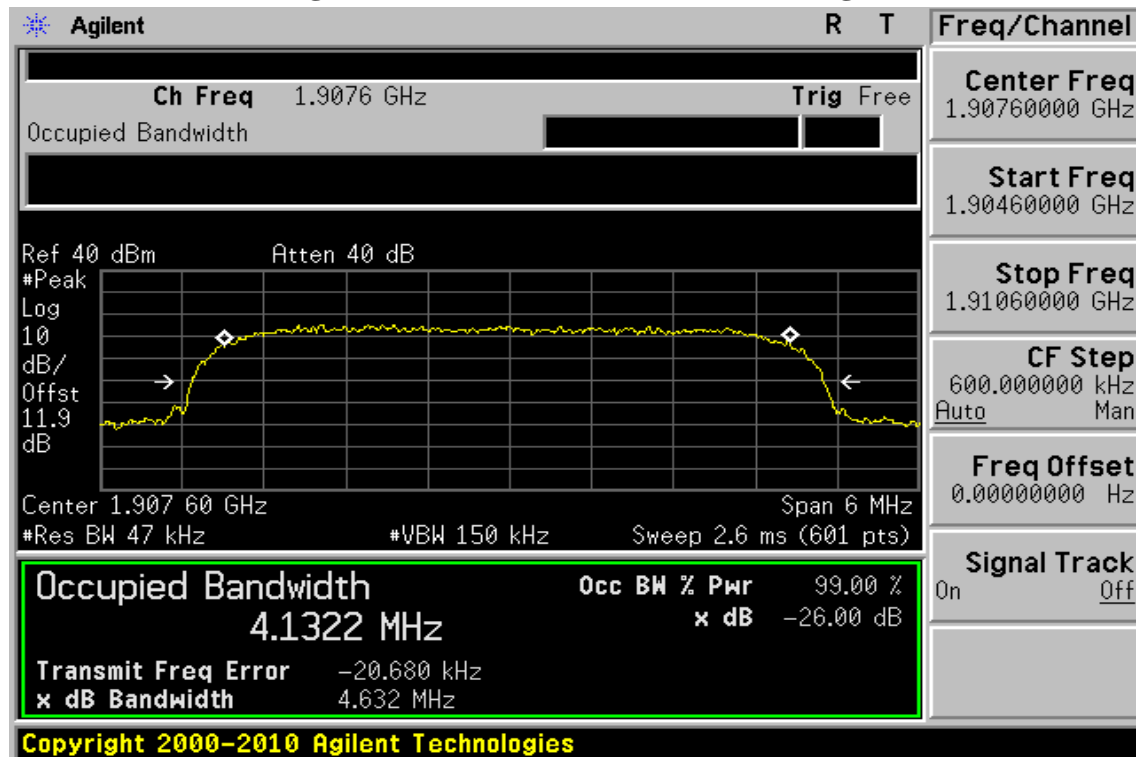


Figure 8-28: HSUPA Band IV Channel Low

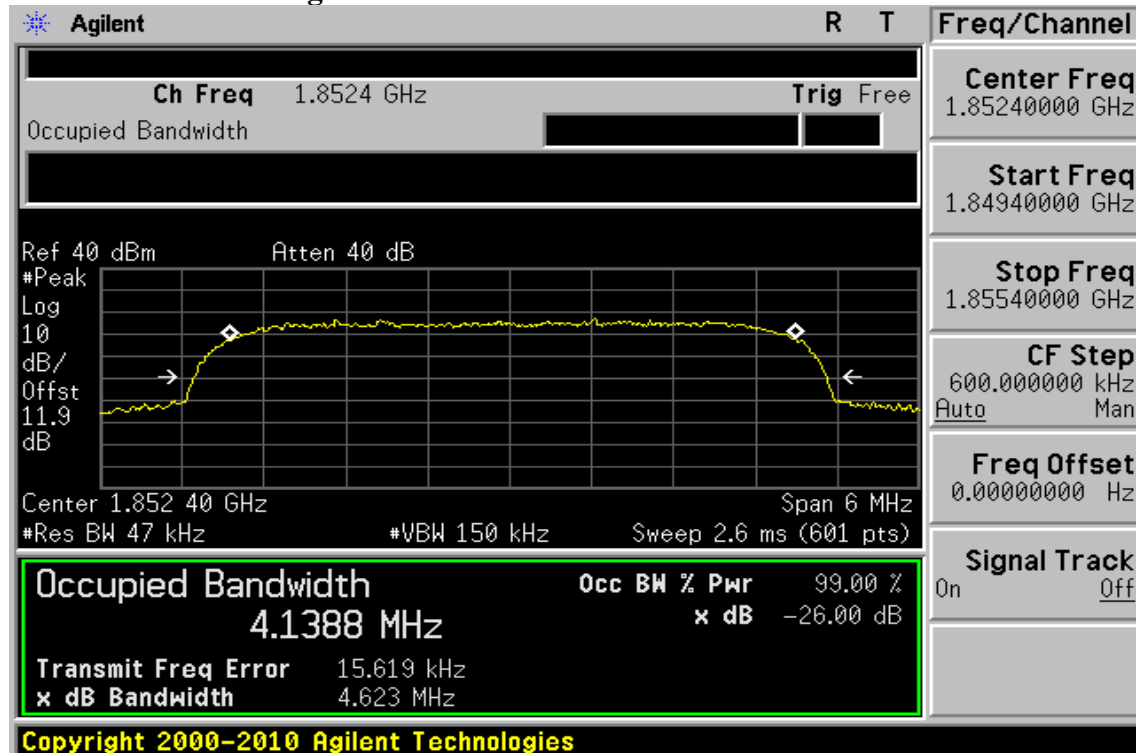


Figure 8-29: HSUPA Band IV Channel Mid

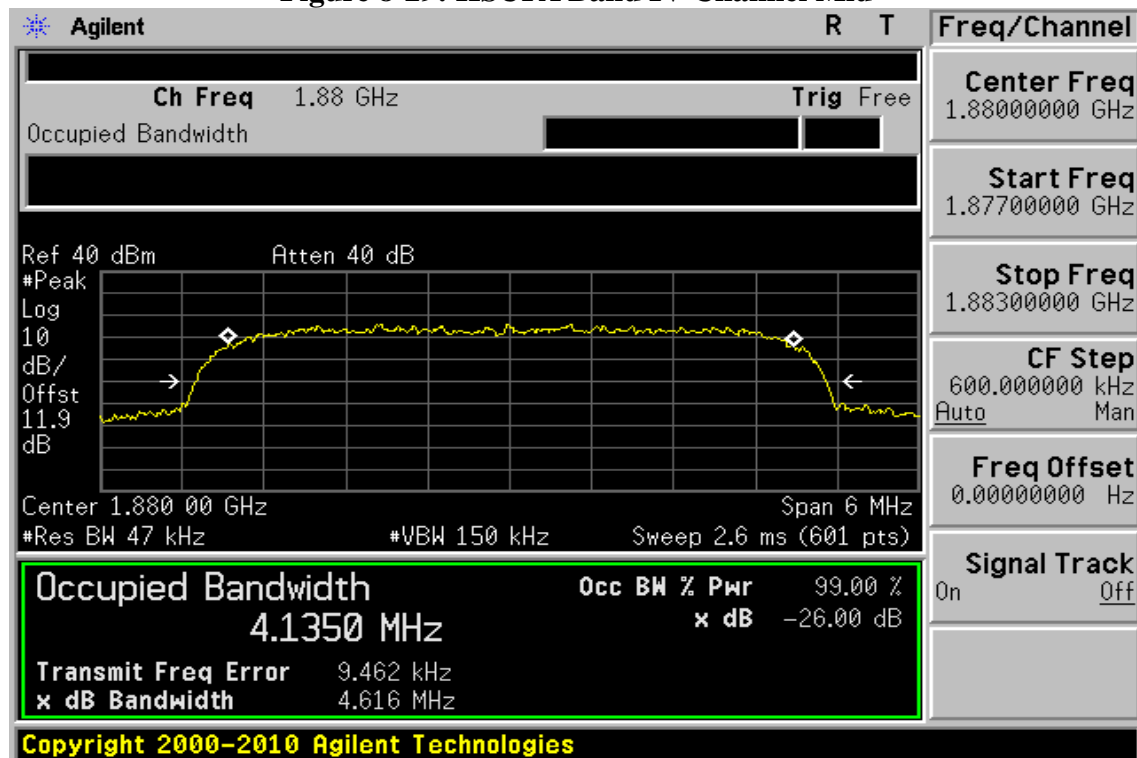
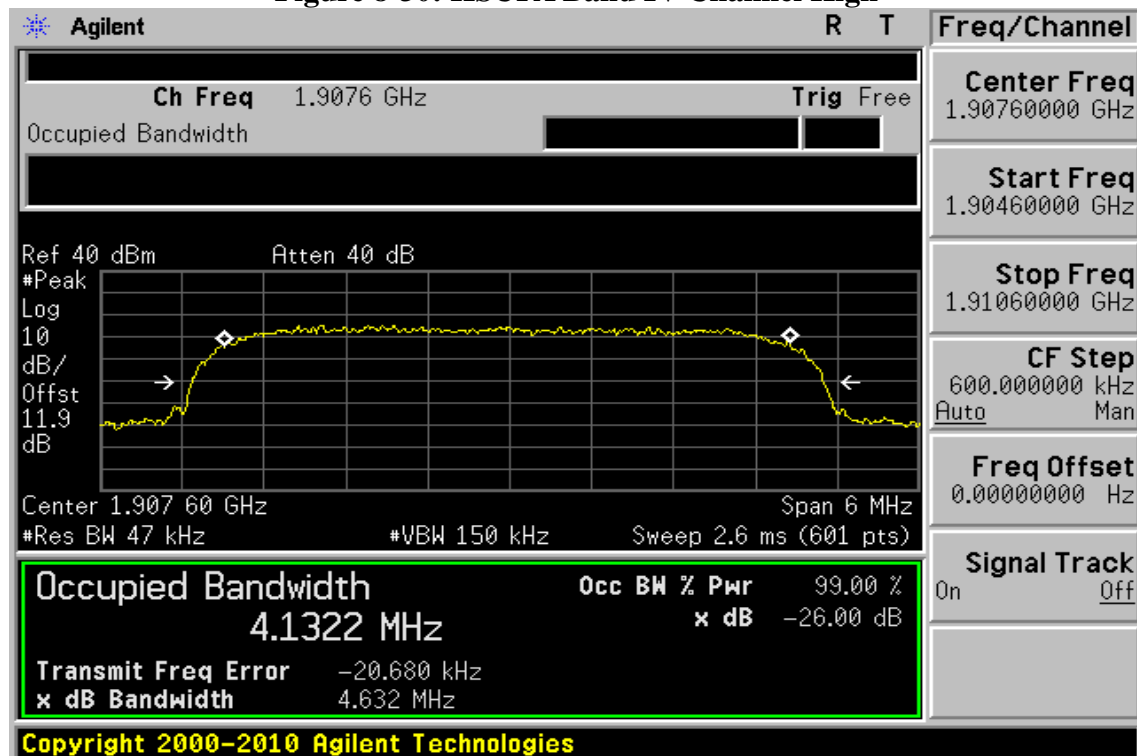


Figure 8-30: HSUPA Band IV Channel High



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Figure 8-31: HSDPA Band II Channel Low

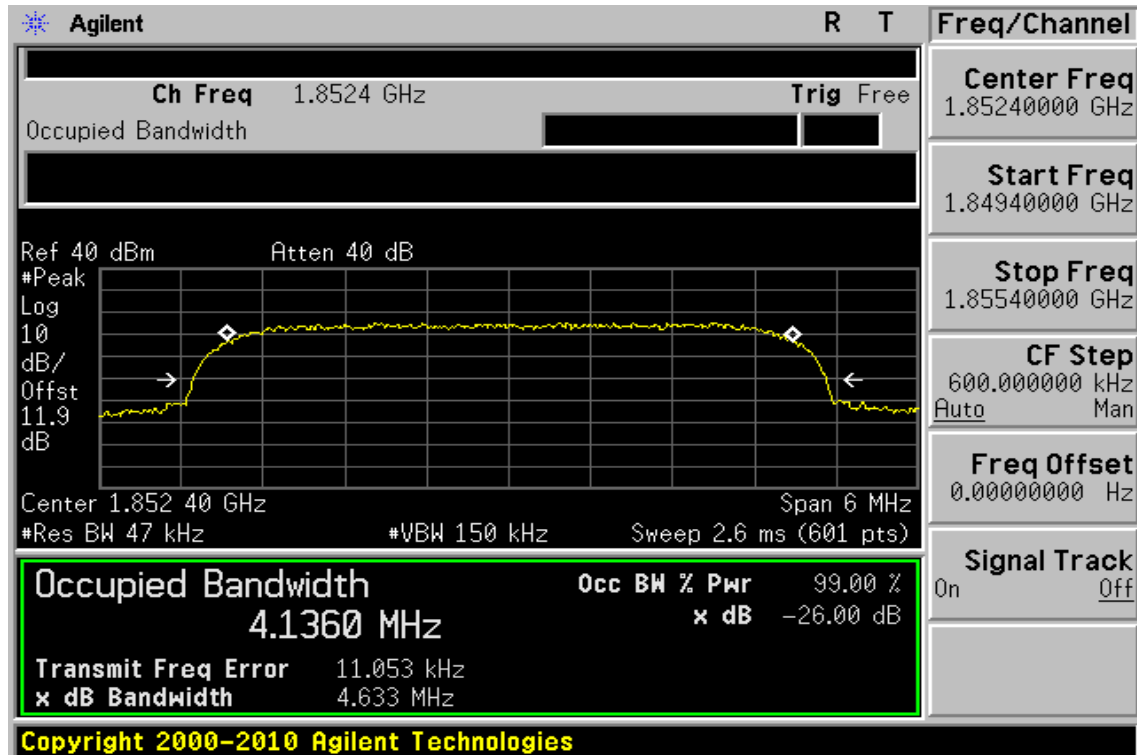


Figure 8-32 :HSDPA Band II Channel Mid

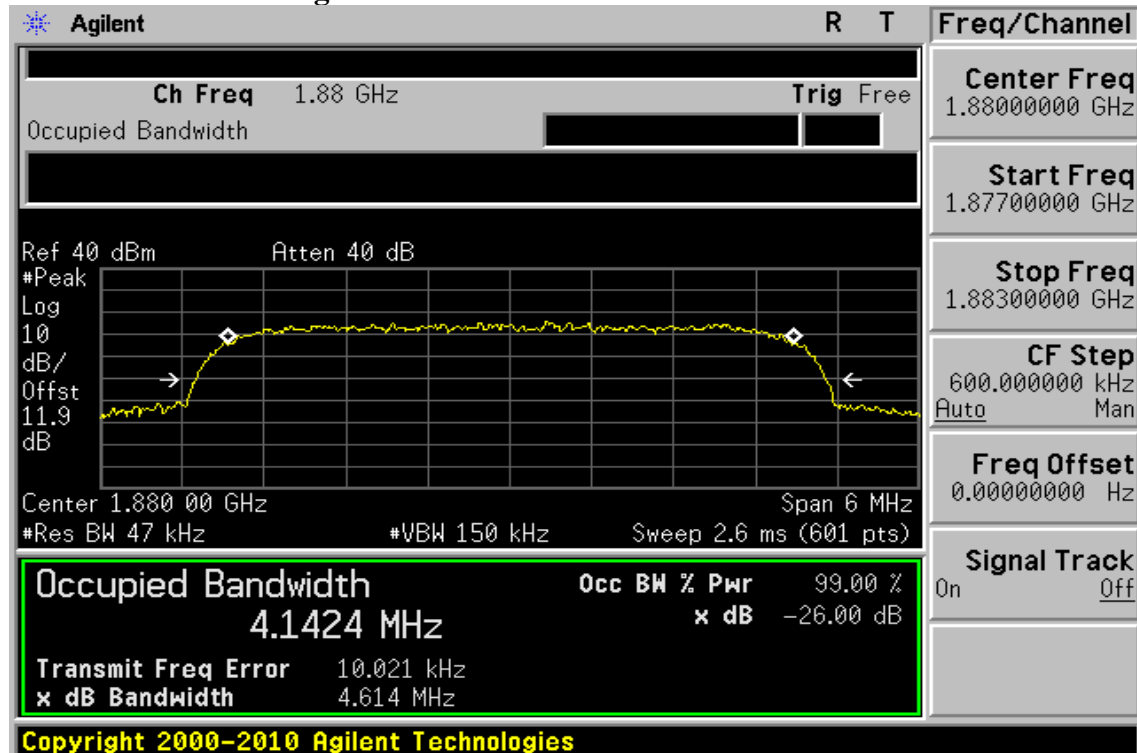


Figure 8-33: HSDPA Band II Channel High

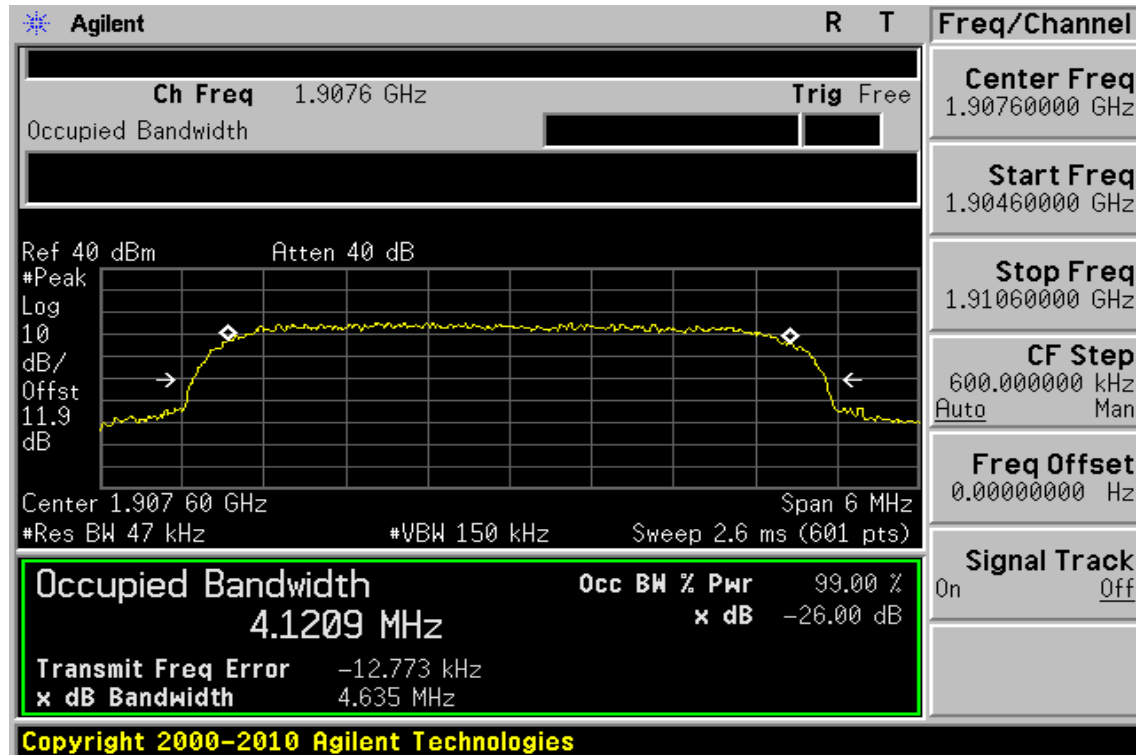


Figure 8-34: HSDPA Band IV Channel Low

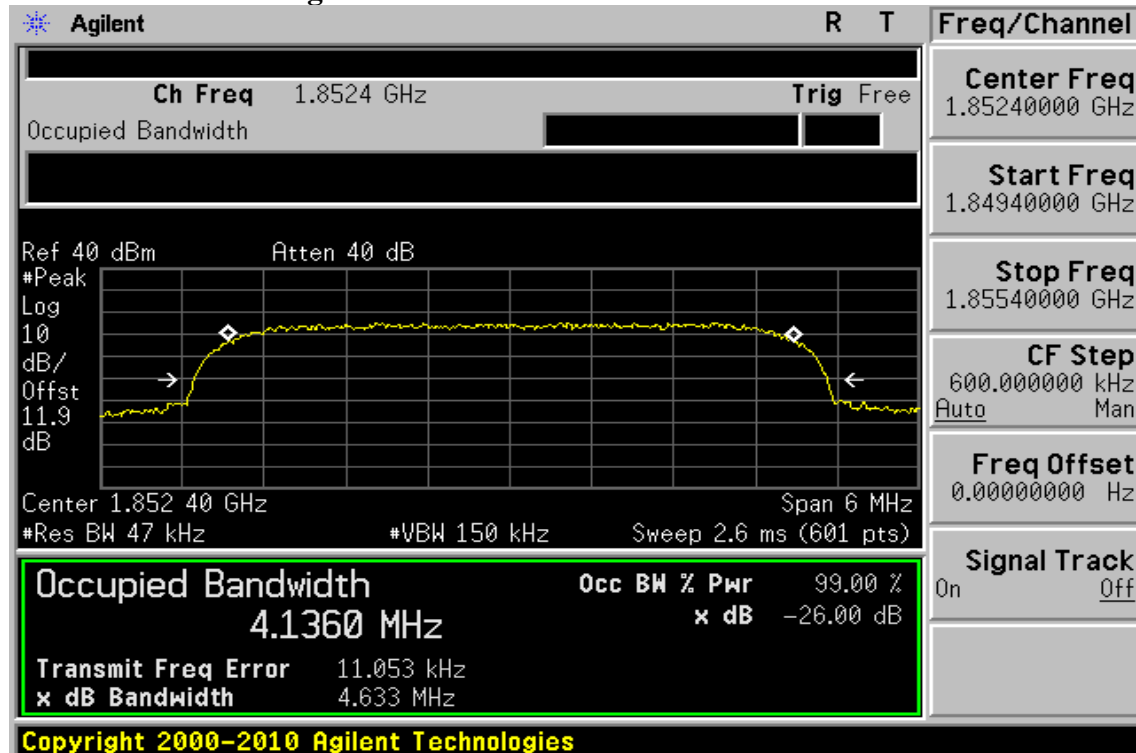


Figure 8-35: HSDPA Band IV Channel Mid

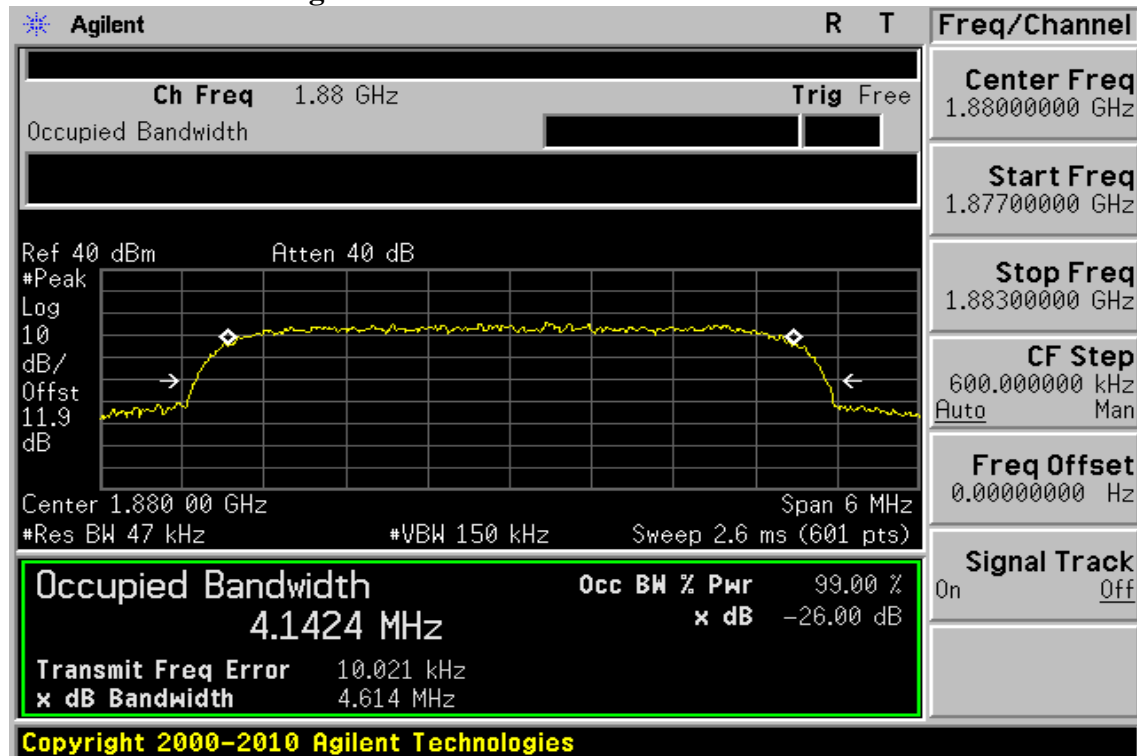
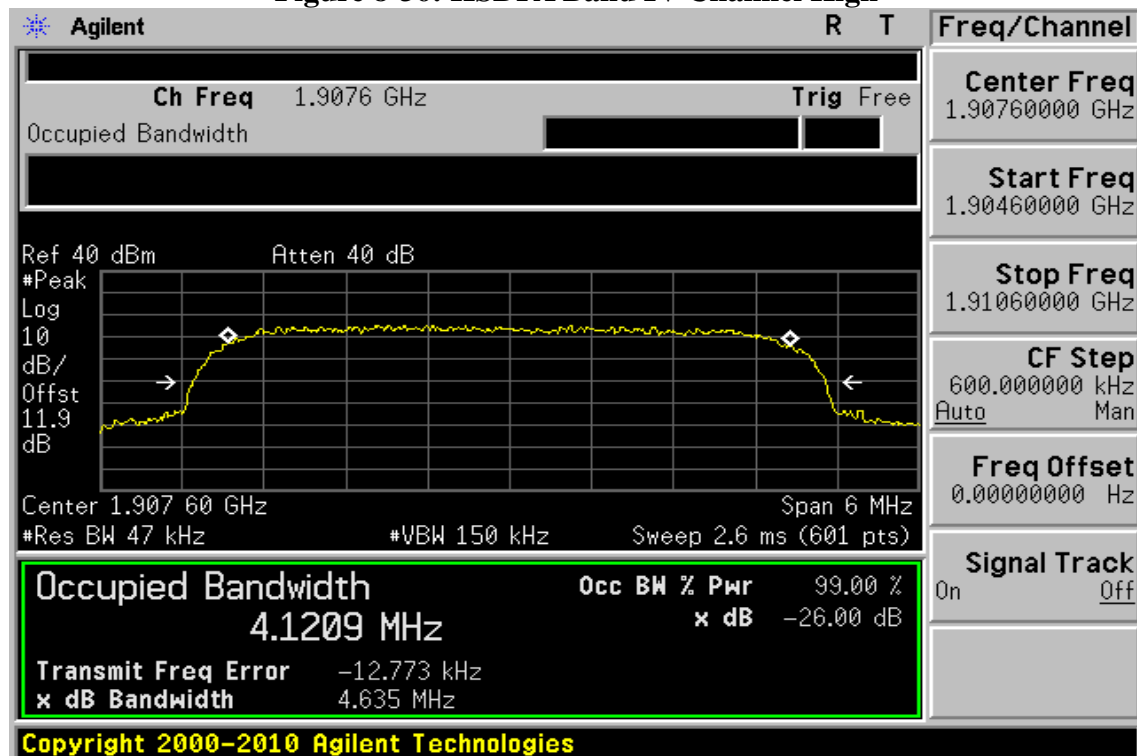


Figure 8-36: HSDPA Band IV Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

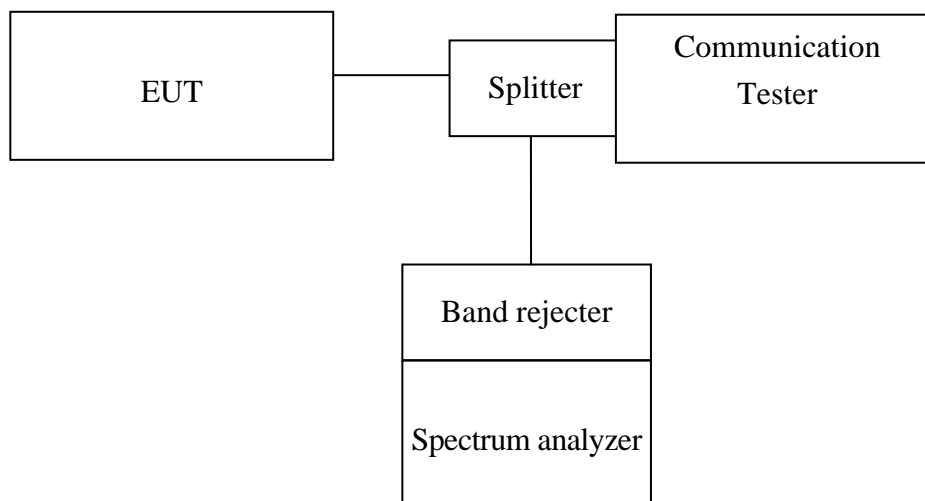
9.1. Standard Applicable:

According to FCC §2.1051.

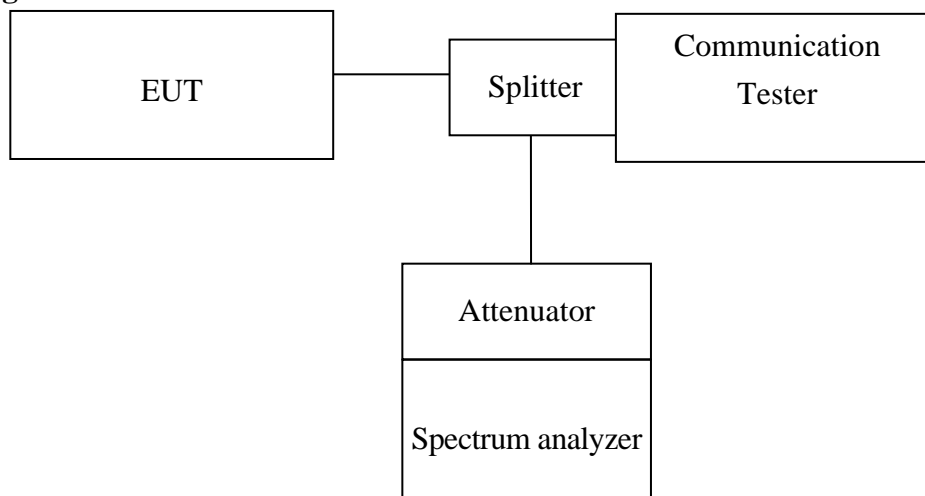
FCC §22.917(a), §24.238(a), §27.53(g) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below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

9.2. Test SET-UP:

Out of band emission



Band Edge



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9.3. Measurement Procedure:

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

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

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

Conducted Emission:

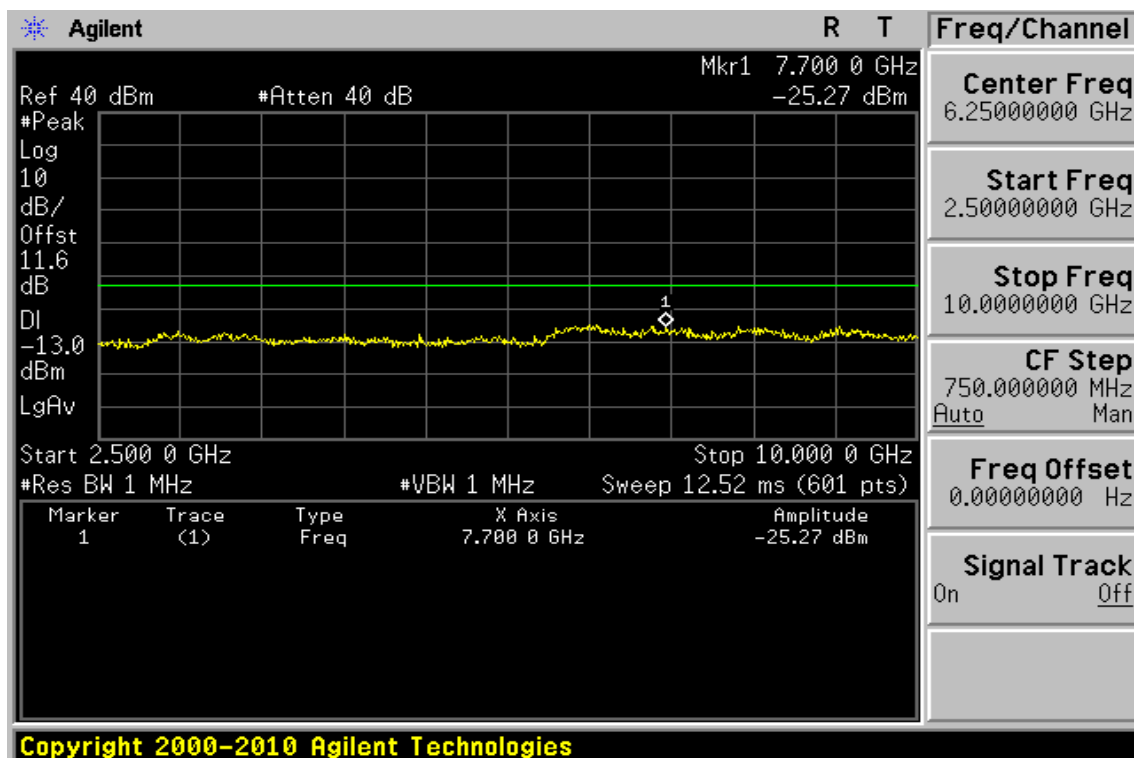
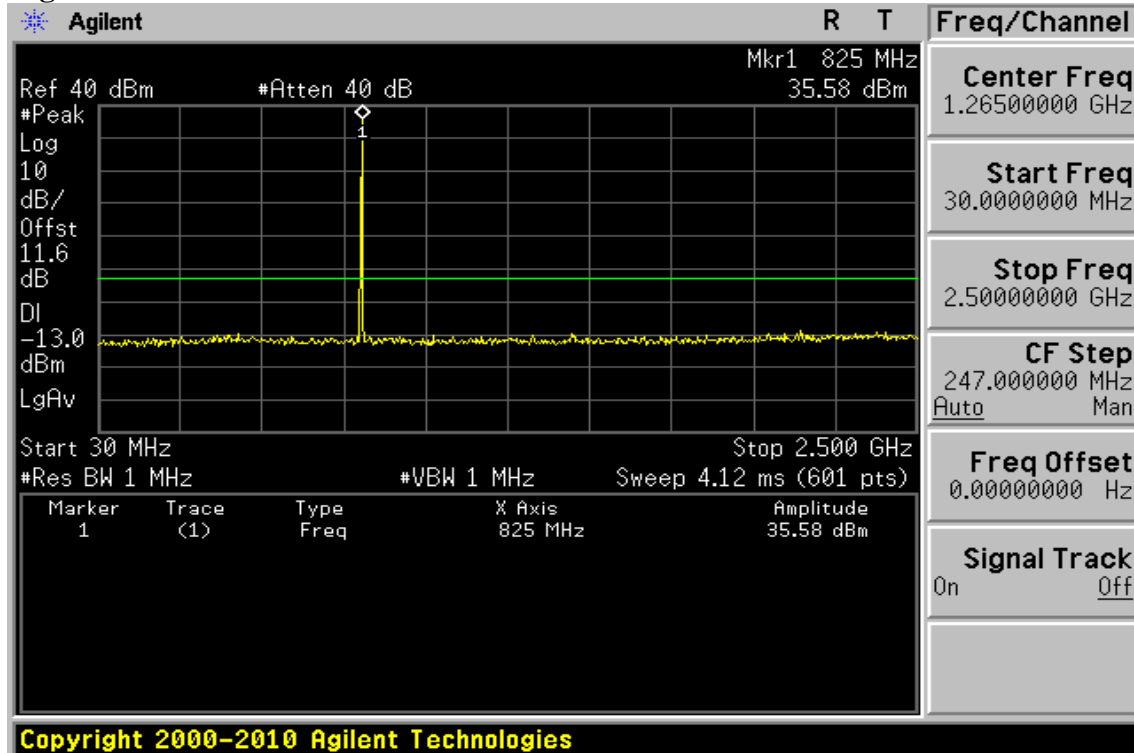
- 1、To connect Antenna Port of EUT to Spectrum.
- 2、Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3、Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 1G, 1G to 2.5G, 2.5G to 7.5G, 7.5G to 10G, 10G to 15G and 15G to 20GHz
- 4、Via Software, combine 6 spans of frequency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

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

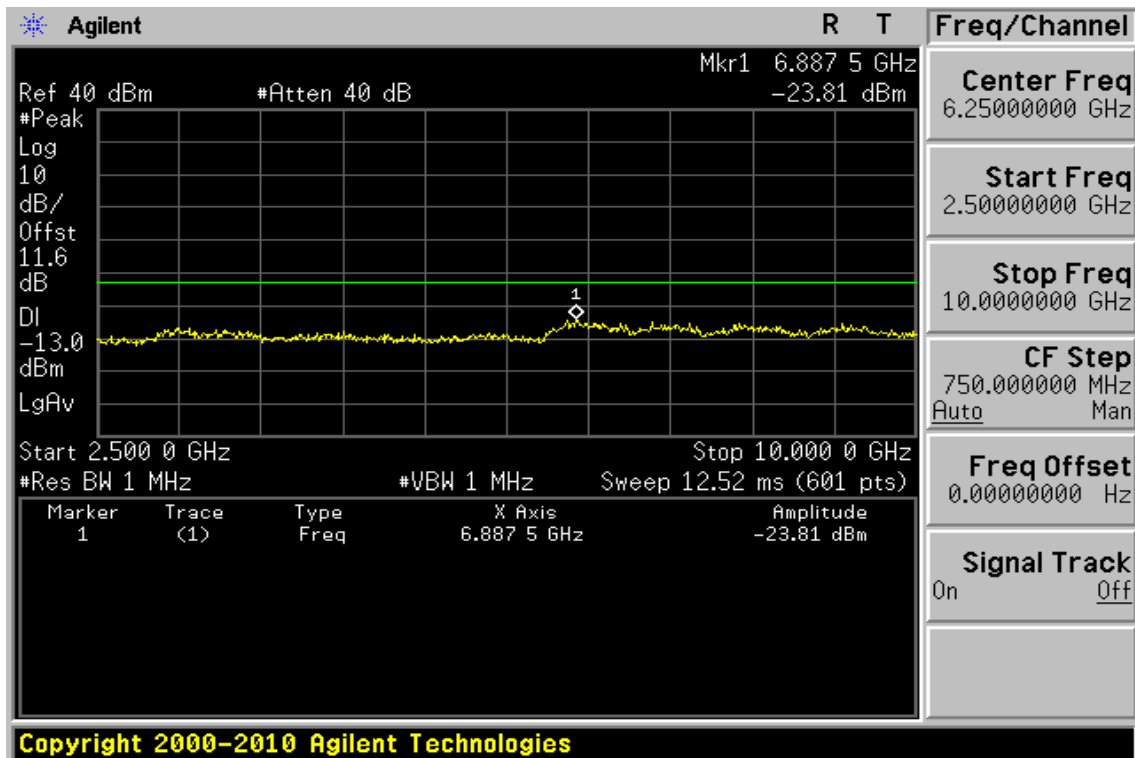
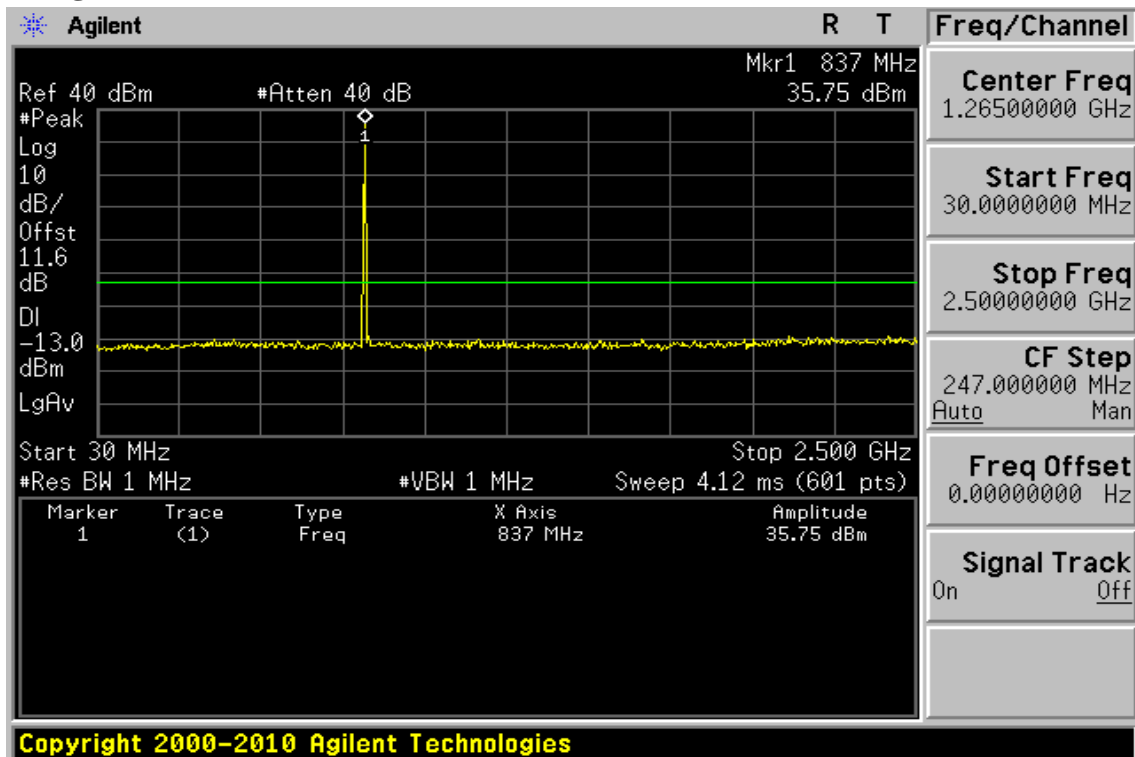
9.5. Measurement Result:

Figure 9-1: Out of Band emission at antenna terminals– GSM 850 Channel Lowest



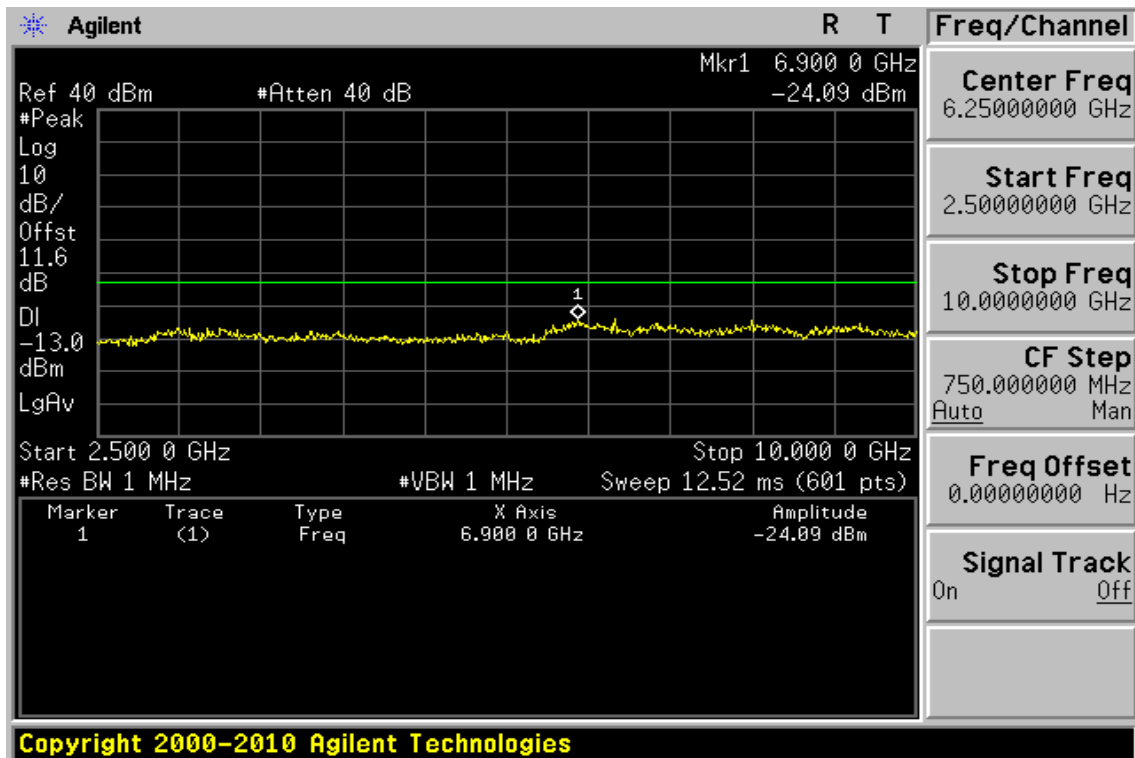
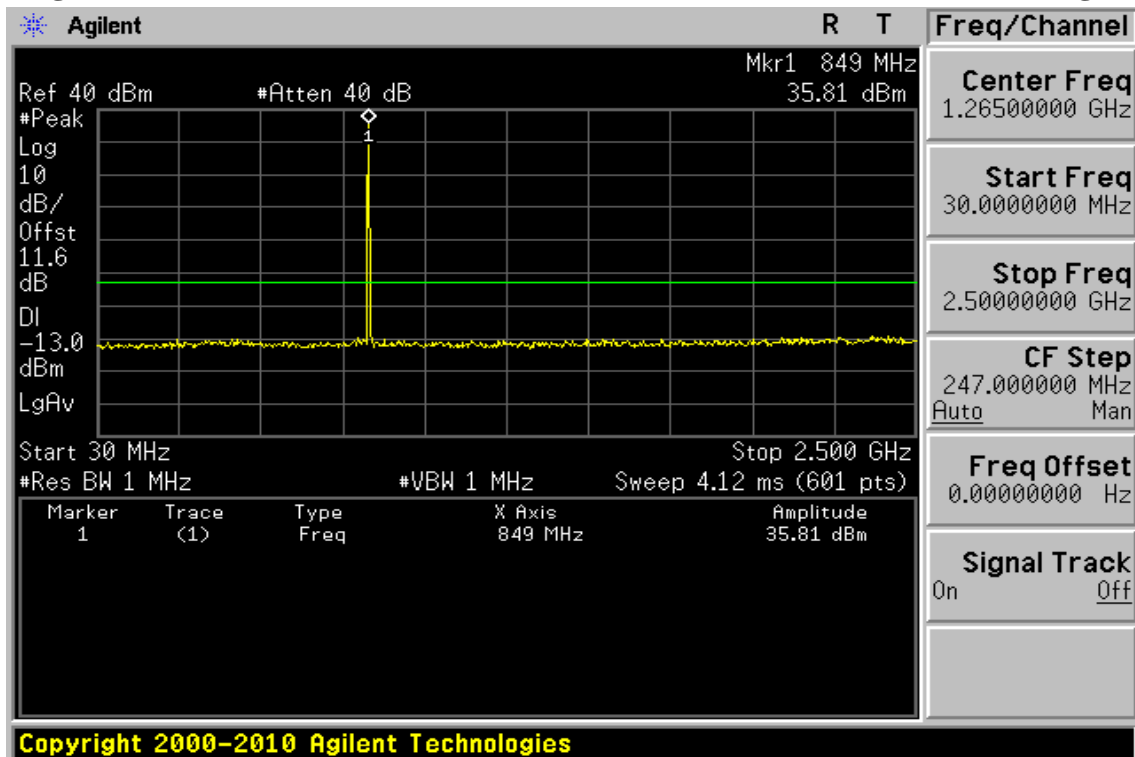
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Figure 9-2: Out of Band emission at antenna terminals –GSM 850 Channel Mid



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Figure 9-3: Out of Band emission at antenna terminals–GSM 850 Channel Highest



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Figure 9-4: Band edge emission at antenna terminals –GSM 850 Channel Lowest

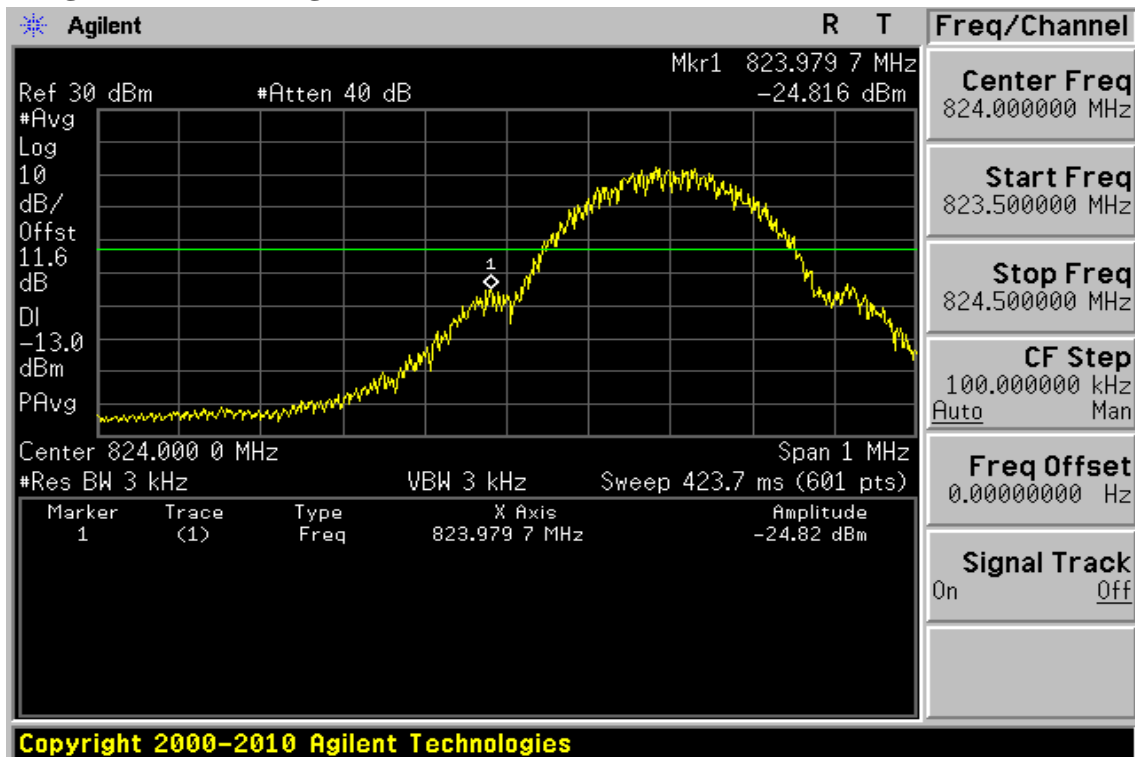
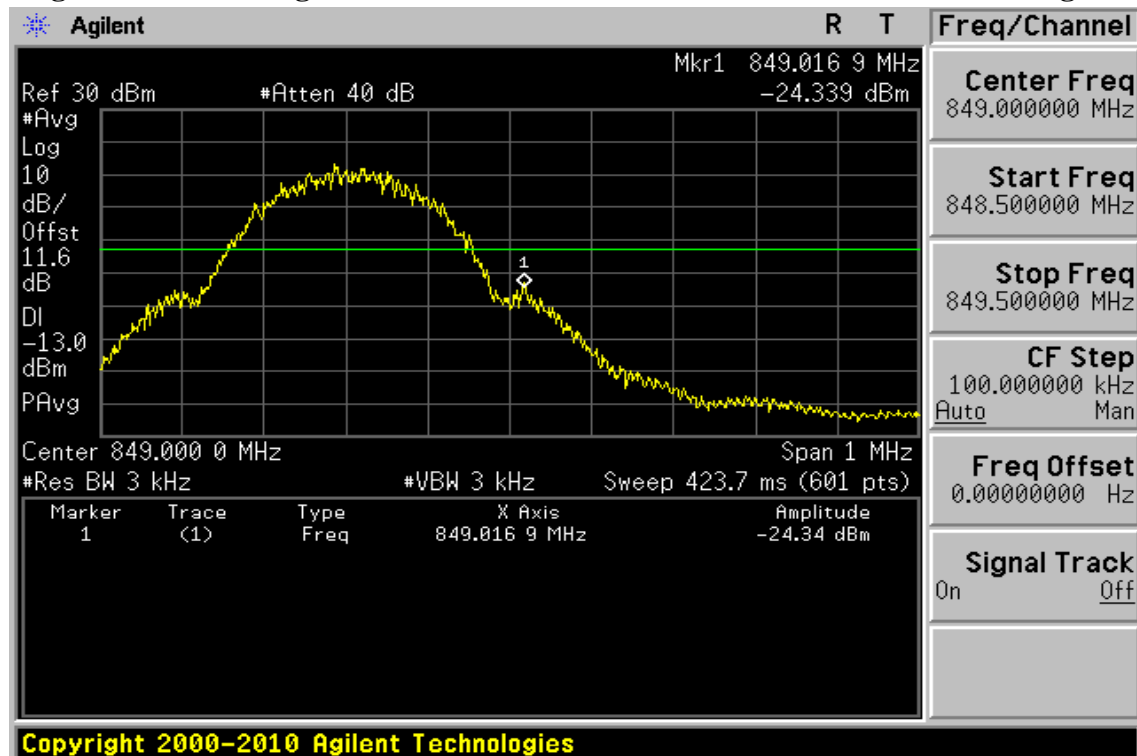
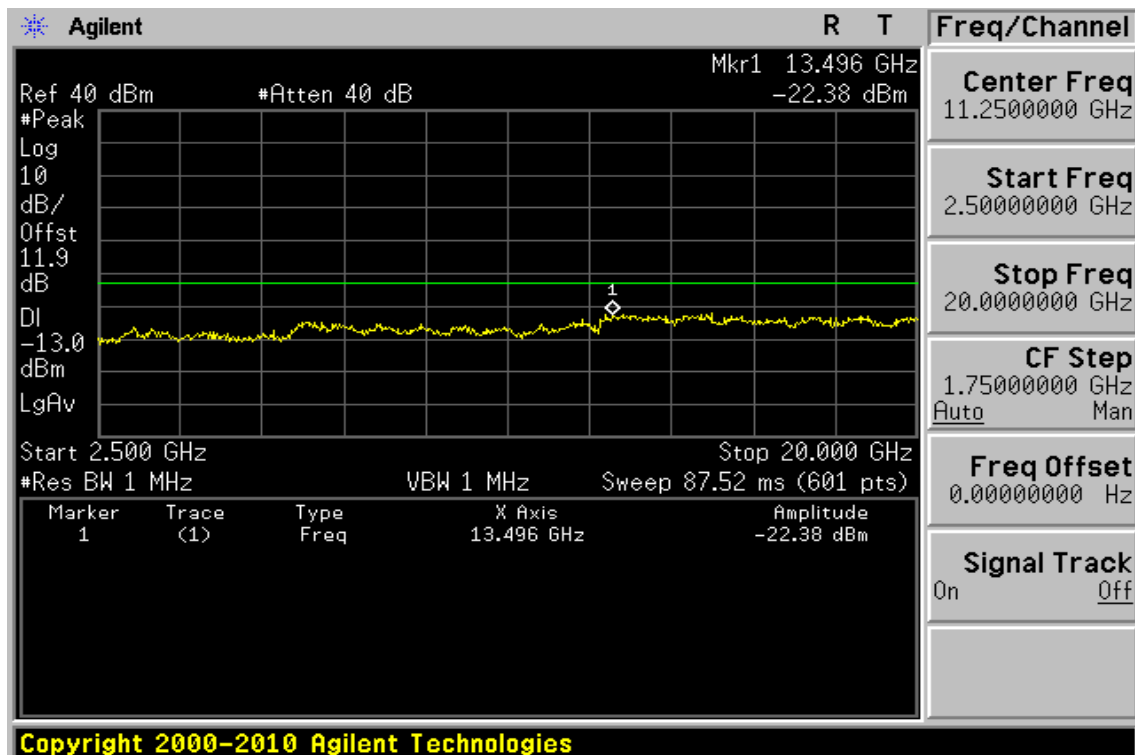
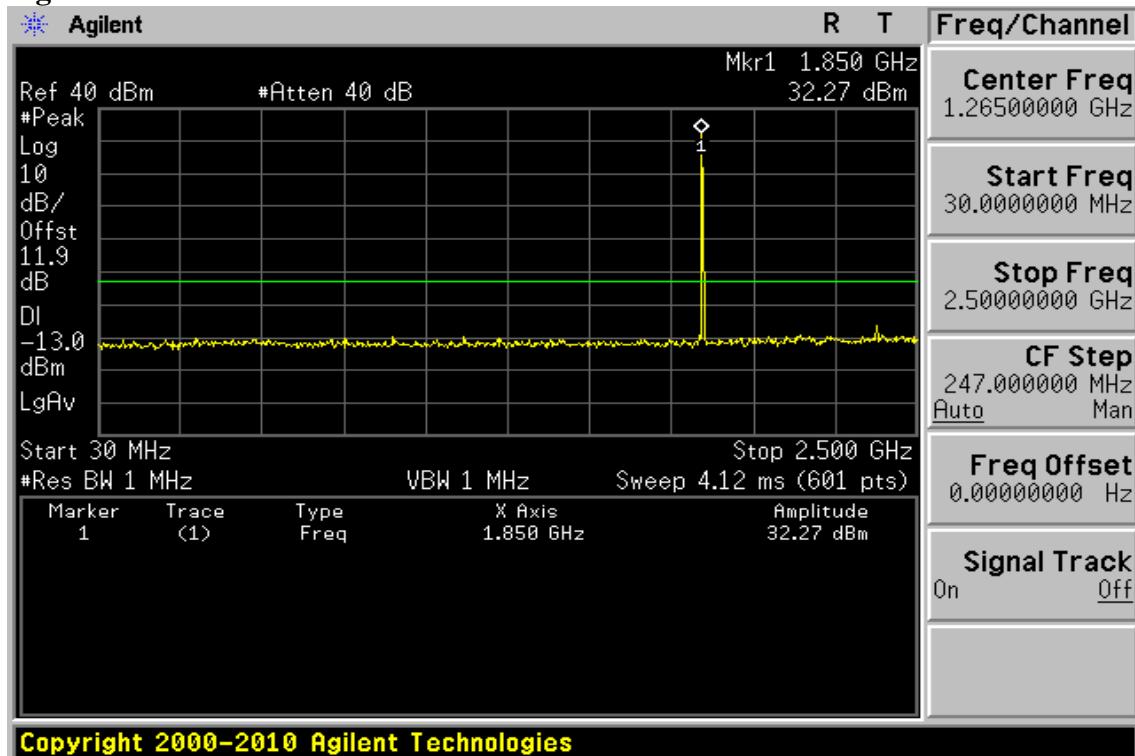


Figure 9-5: Band edge emission at antenna terminals –GSM 850 Channel Highest



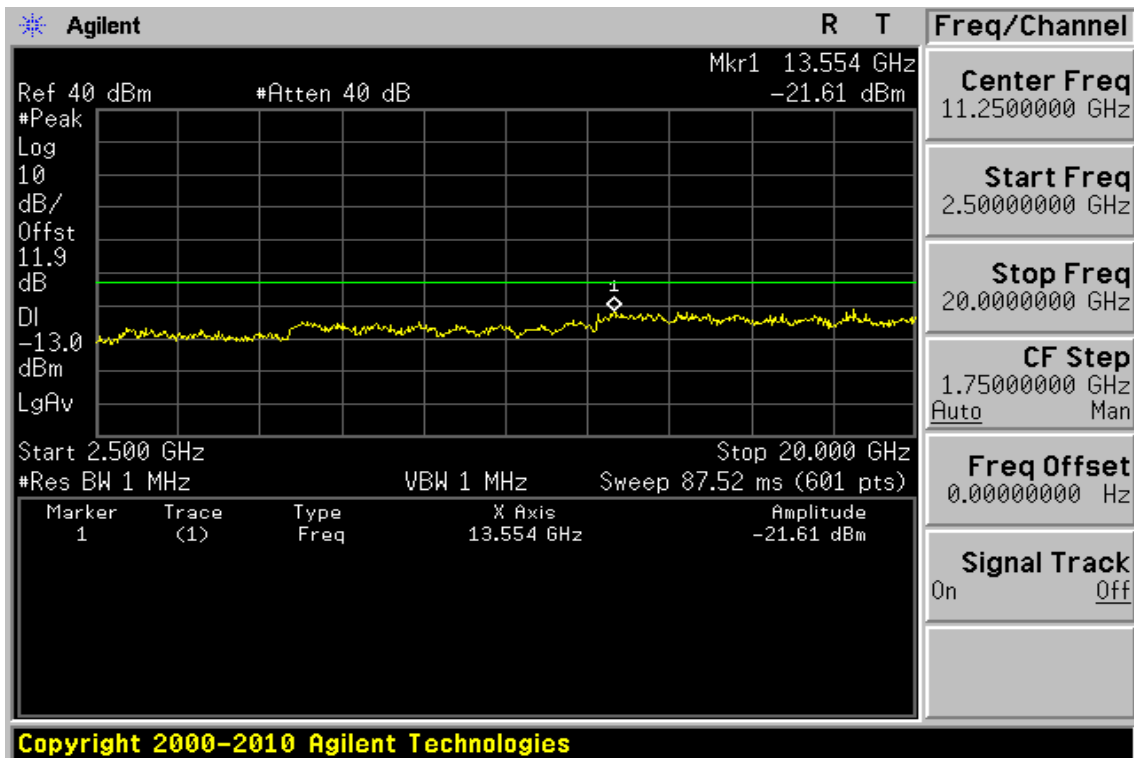
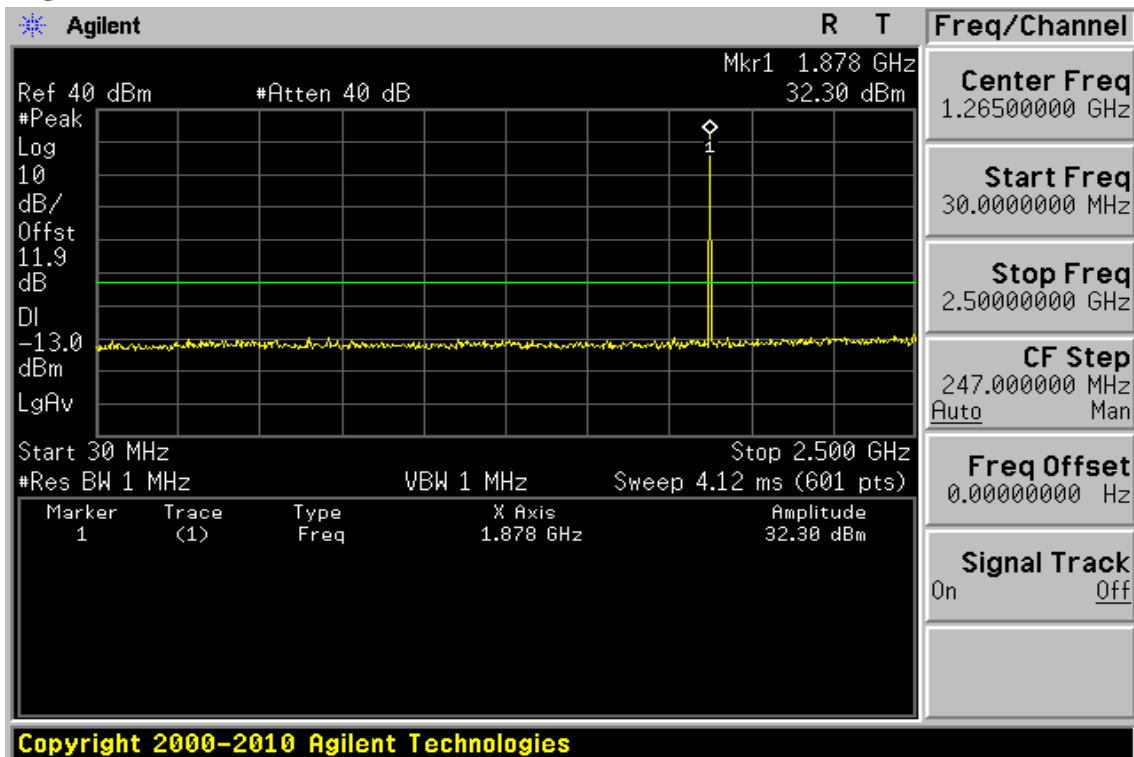
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Figure 9-6: Out of Band emission at antenna terminals–GSM 1900 Channel Lowest



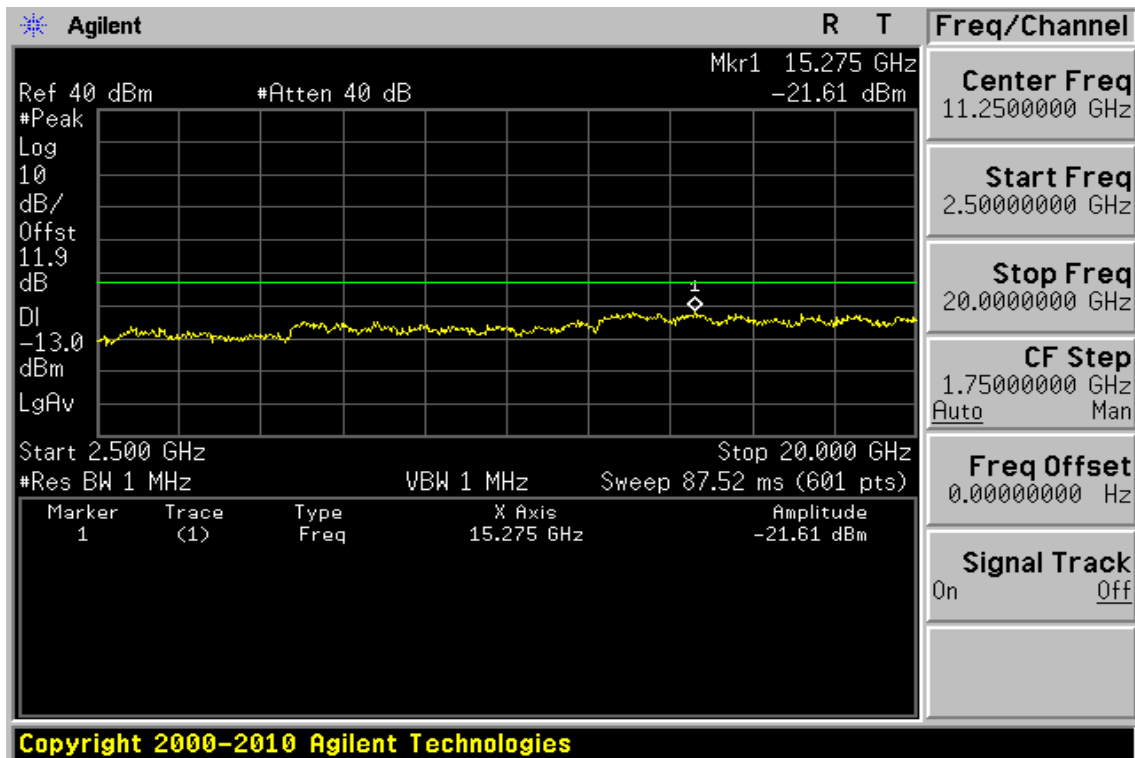
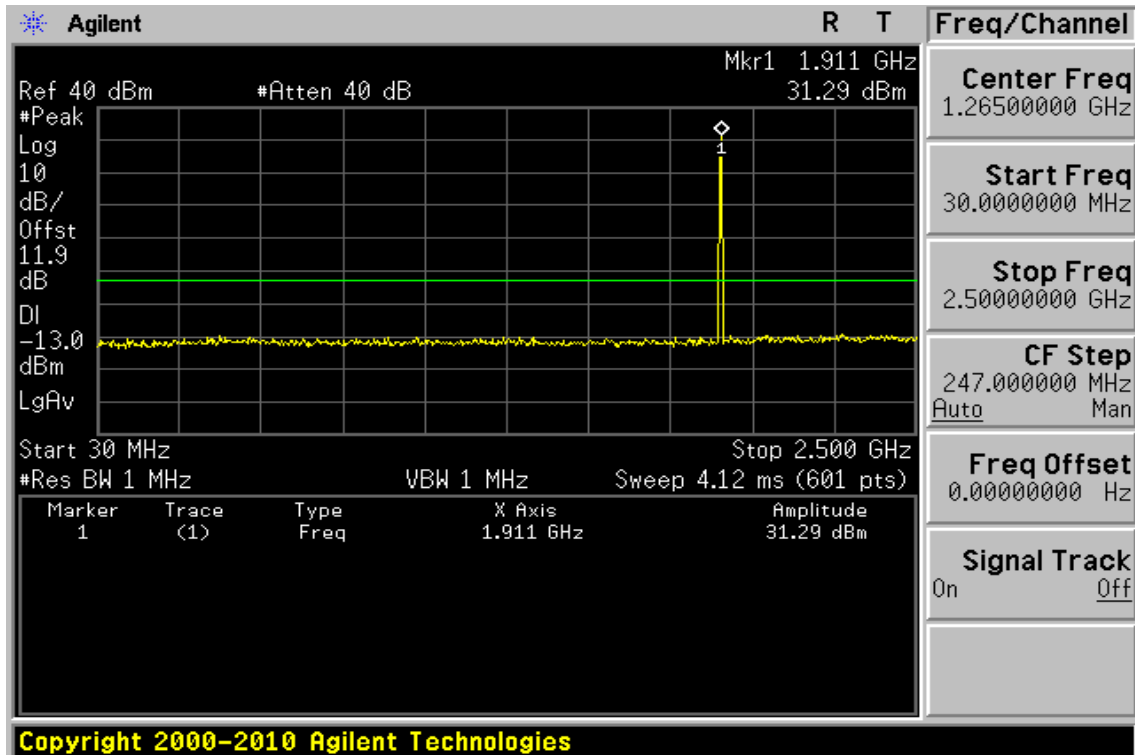
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Figure 9-7: Out of Band emission at antenna terminals –GSM 1900 Channel Mid



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Figure 9-8: Out of Band emission at antenna terminals –GSM 1900 Channel Highest



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Figure 9-9: Bad edge emission at antenna terminals –GSM 1900 Channel Lowest

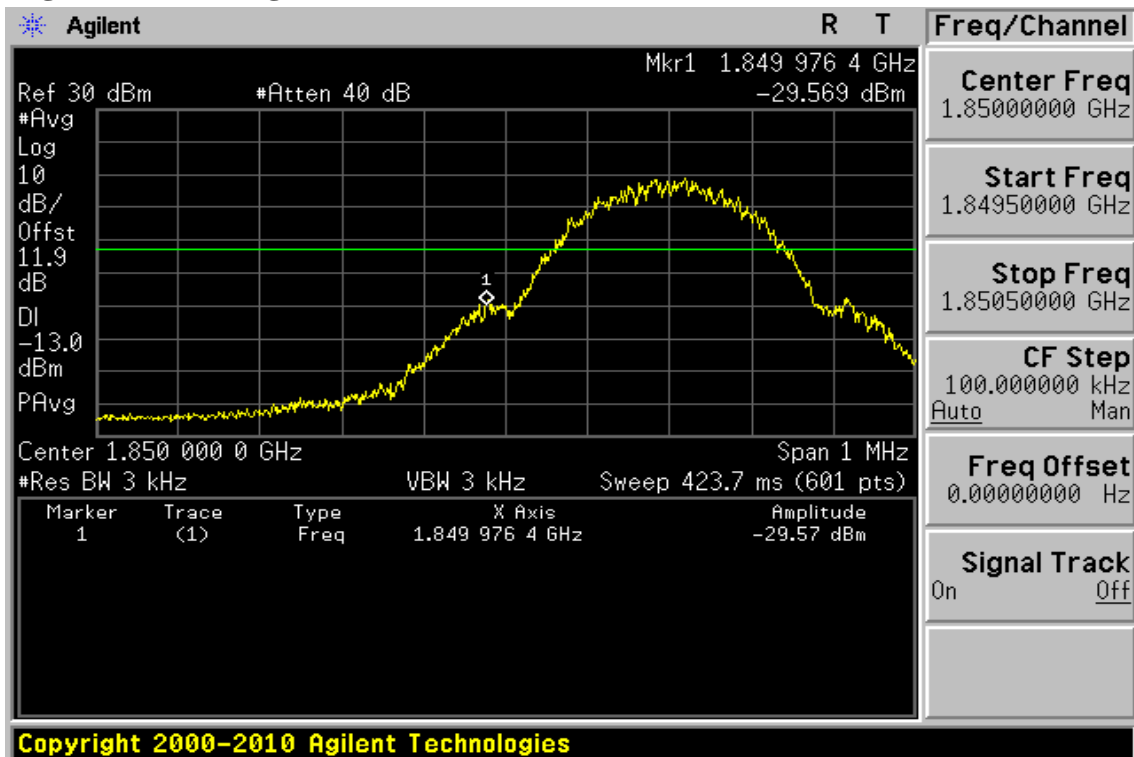
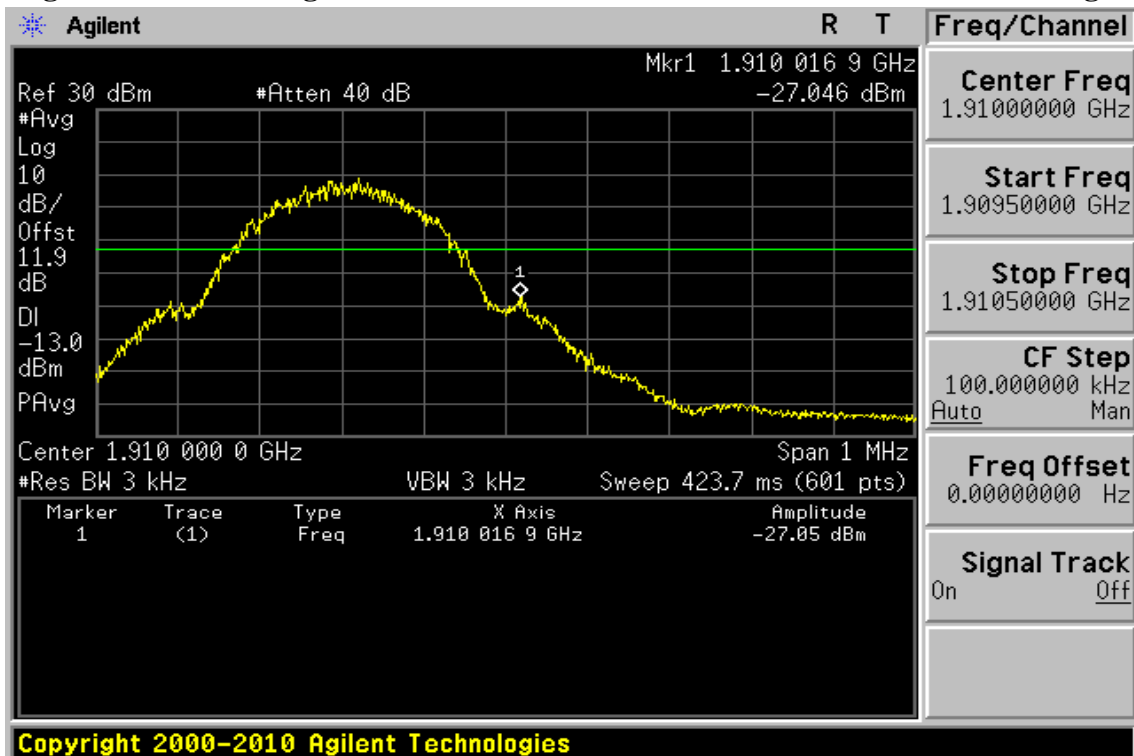
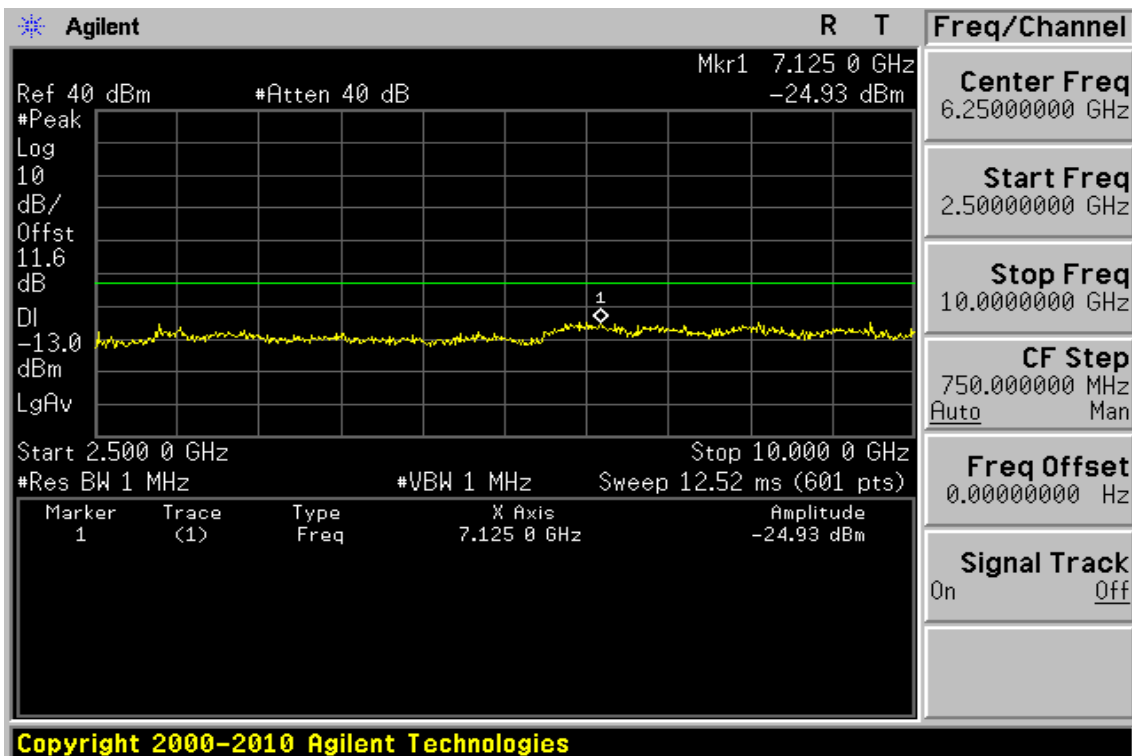
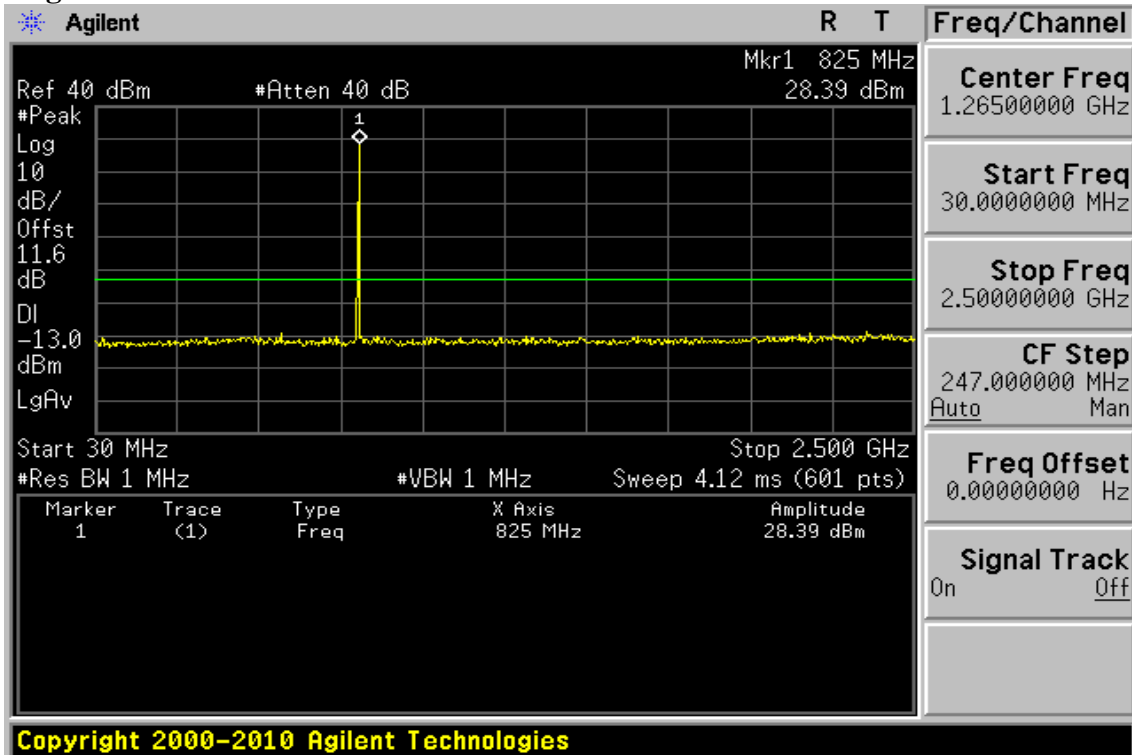


Figure 9-10: Band edge emission at antenna terminals –GSM 1900 Channel Highest



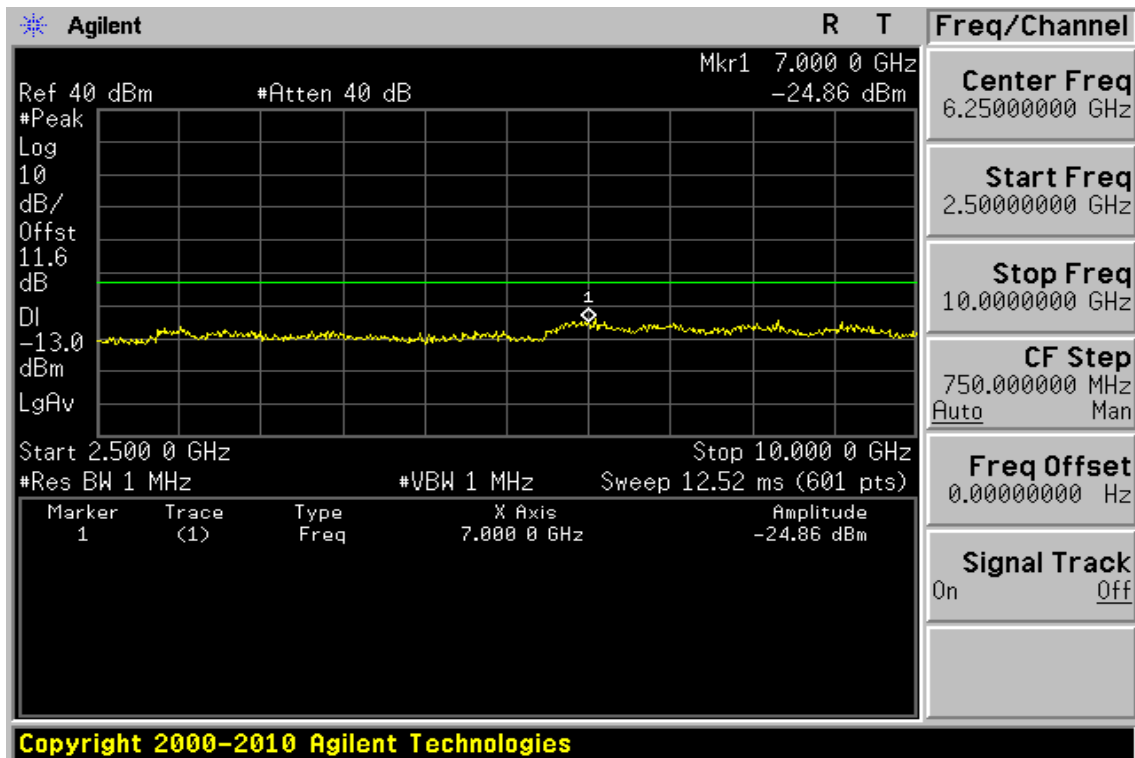
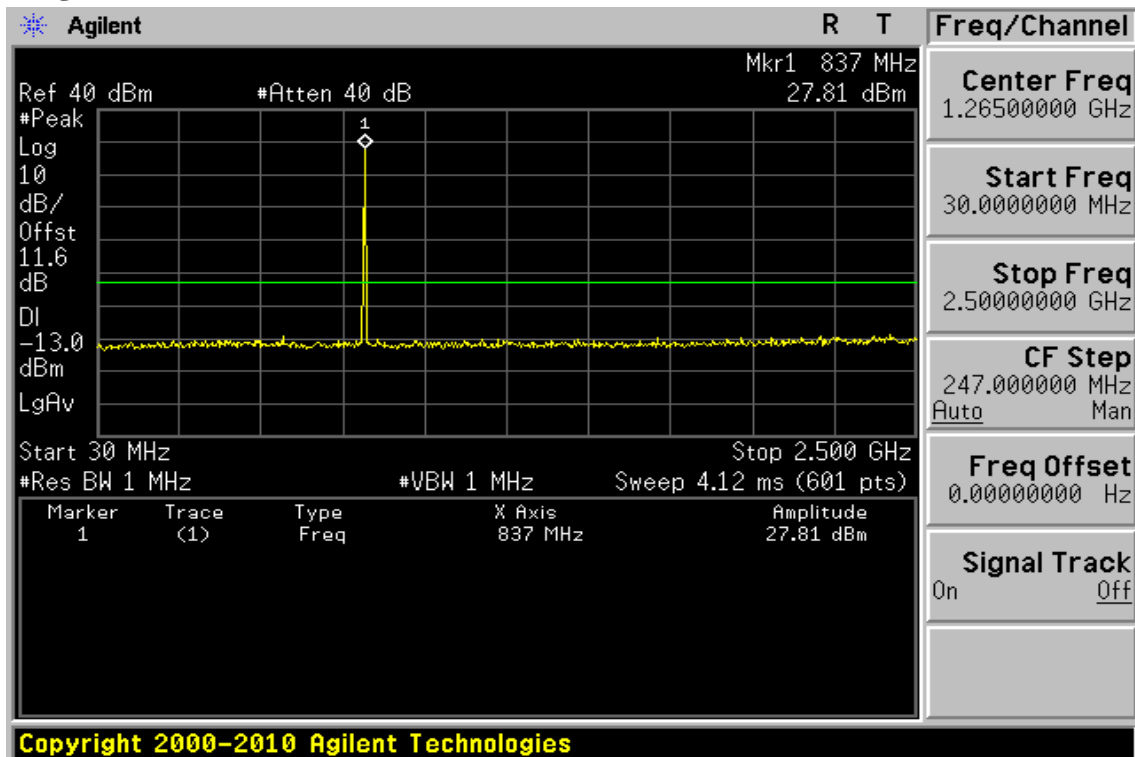
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Figure 9-11: Out of Band emission at antenna terminals– GPRS850 Channel Lowest



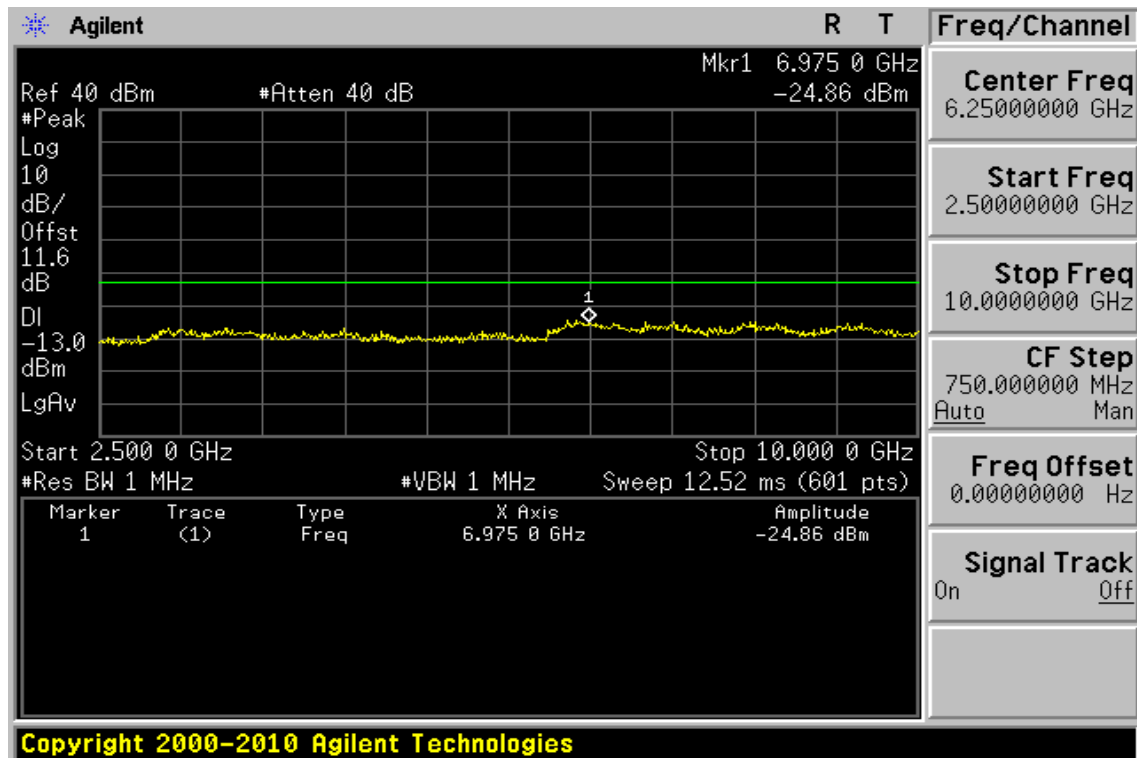
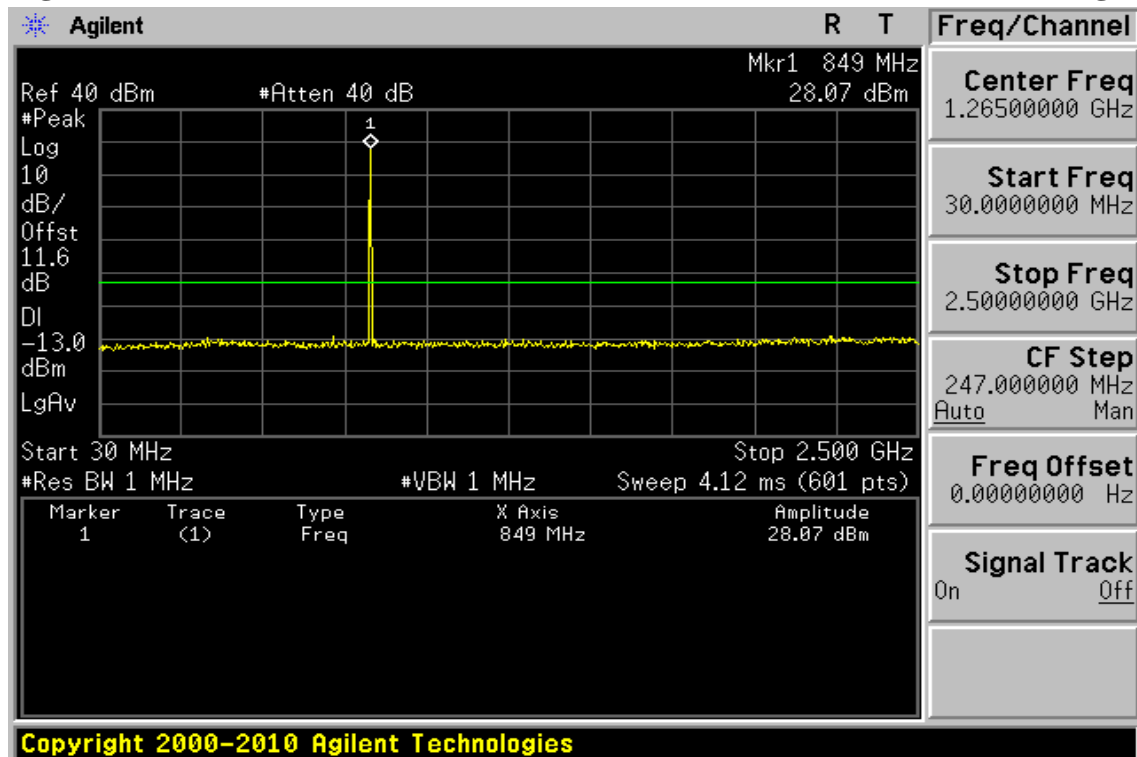
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Figure 9-12: Out of Band emission at antenna terminals –GPRS 850 Channel Mid



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Figure 9-13: Out of Band emission at antenna terminals–GPRS 850 Channel Highest



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Figure 9-14: Band edge emission at antenna terminals –GPRS 850 Channel Lowest

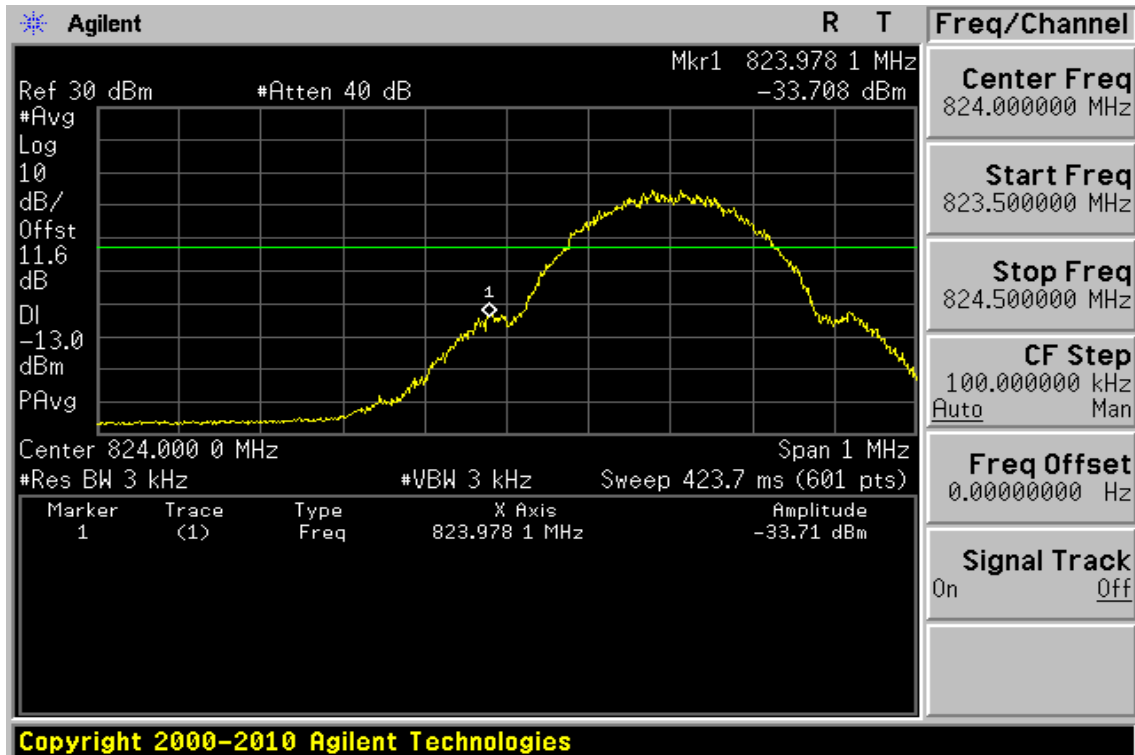
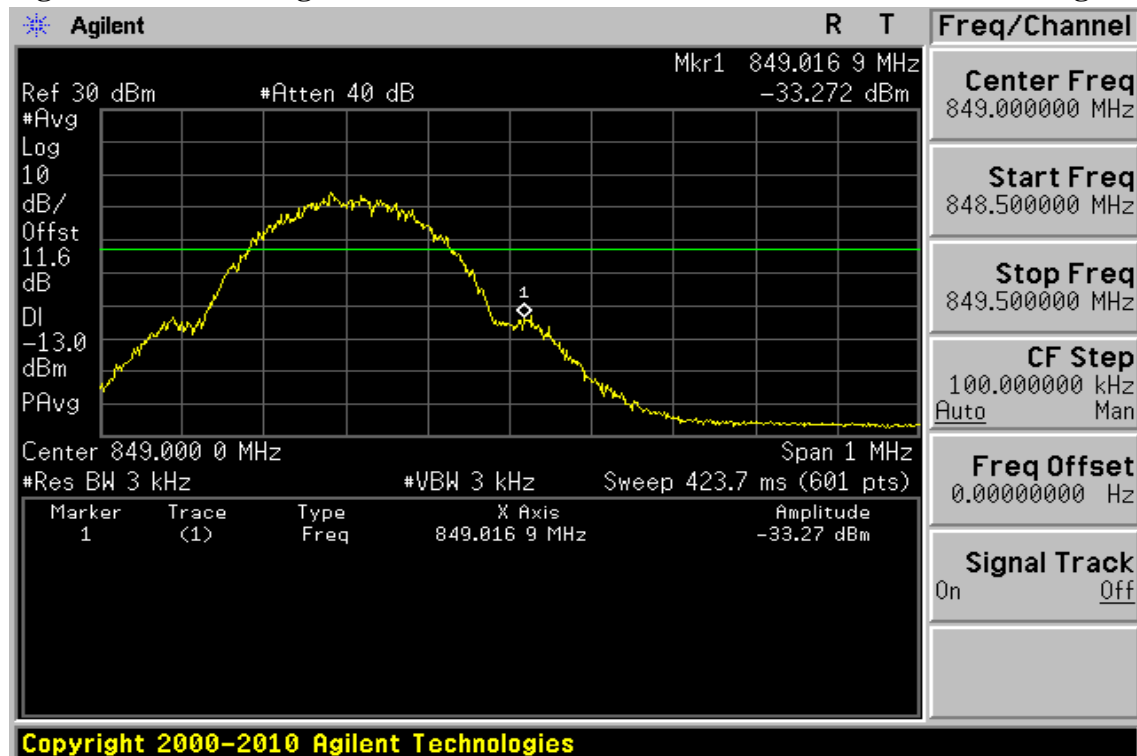
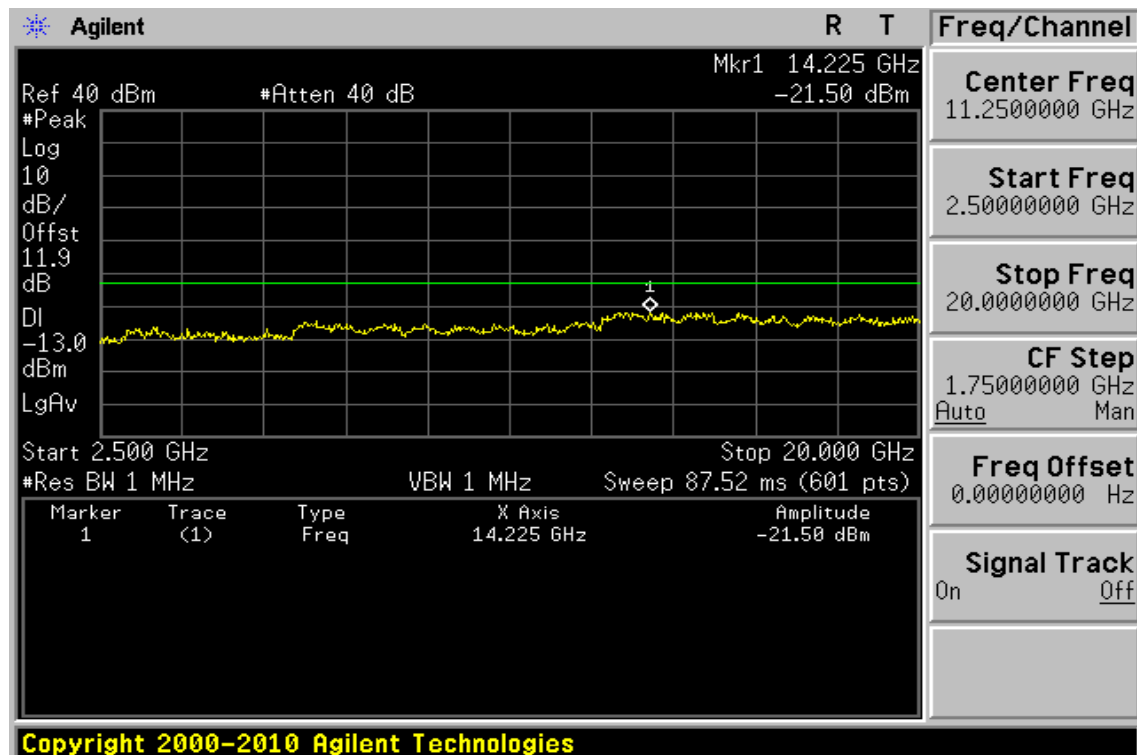
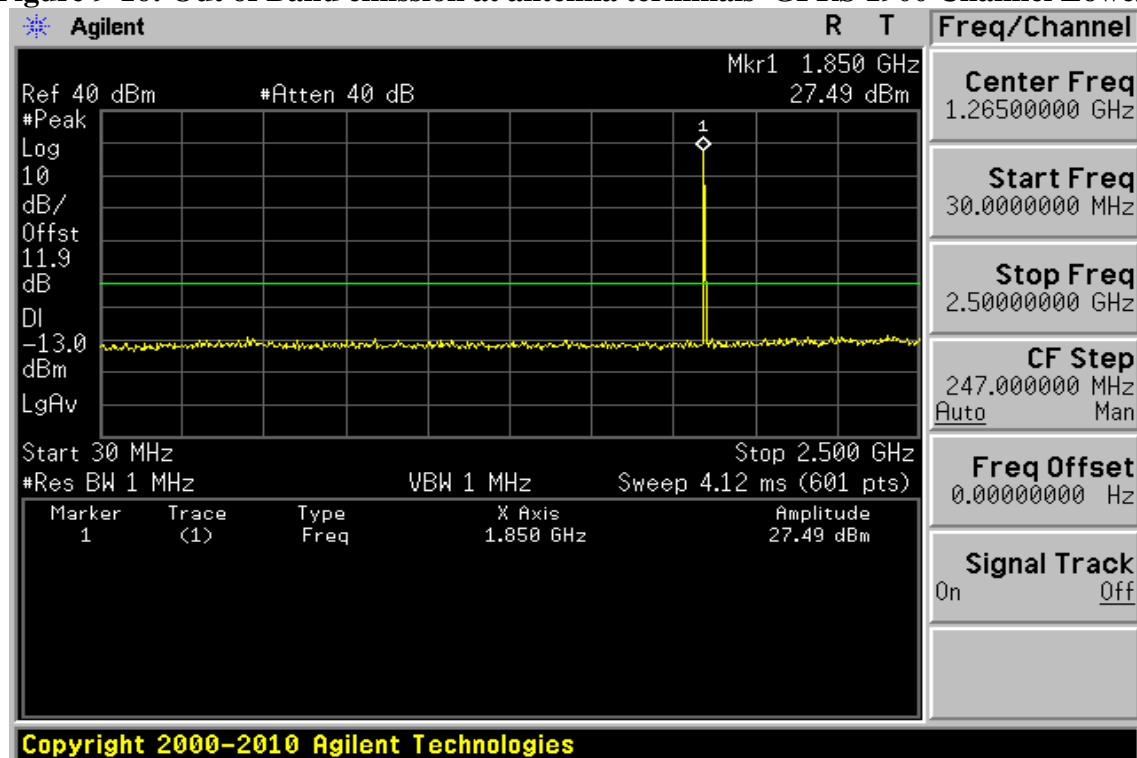


Figure 9-15: Band edge emission at antenna terminals –GPRS 850 Channel Highest



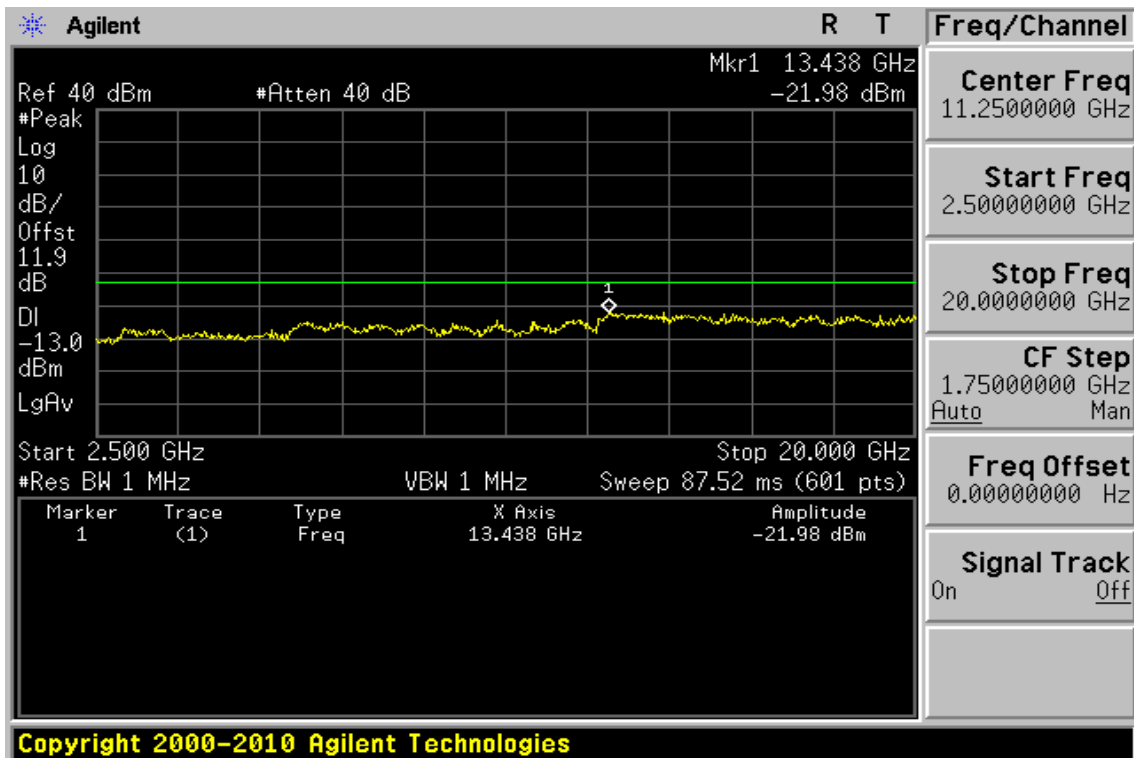
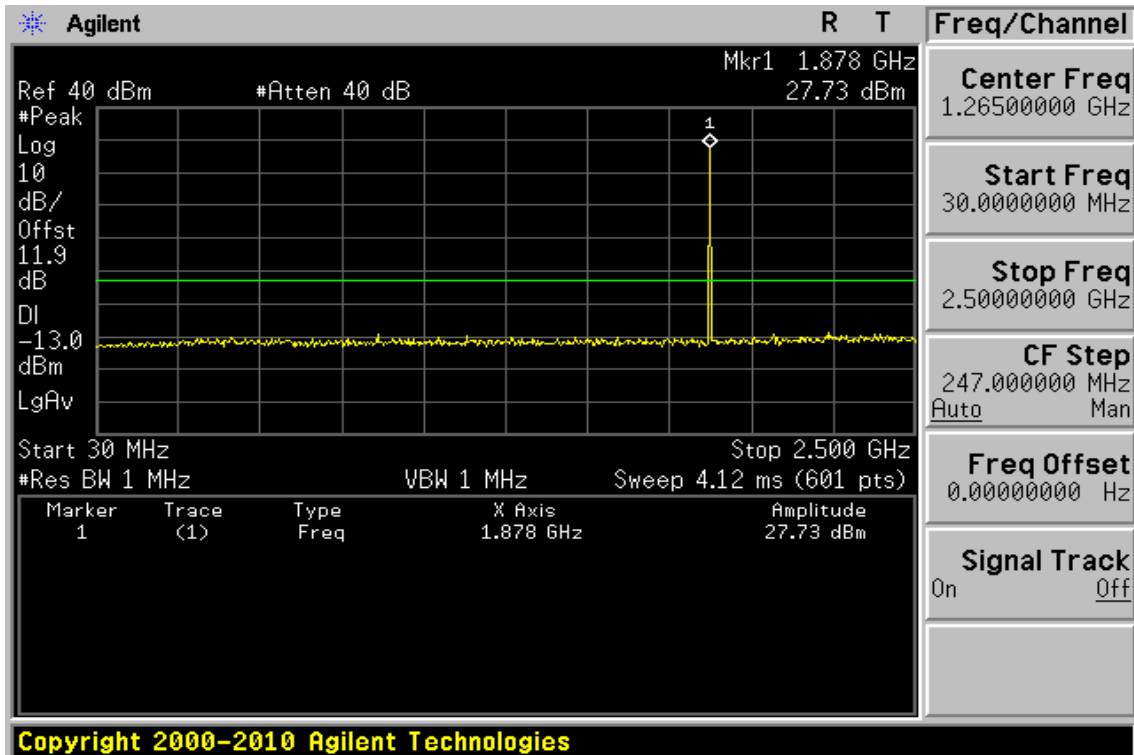
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Figure 9-16: Out of Band emission at antenna terminals–GPRS 1900 Channel Lowest



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Figure 9-17: Out of Band emission at antenna terminals –GPRS 1900 Channel Mid



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Figure 9-18: Out of Band emission at antenna terminals –GPRS 1900 Channel Highest

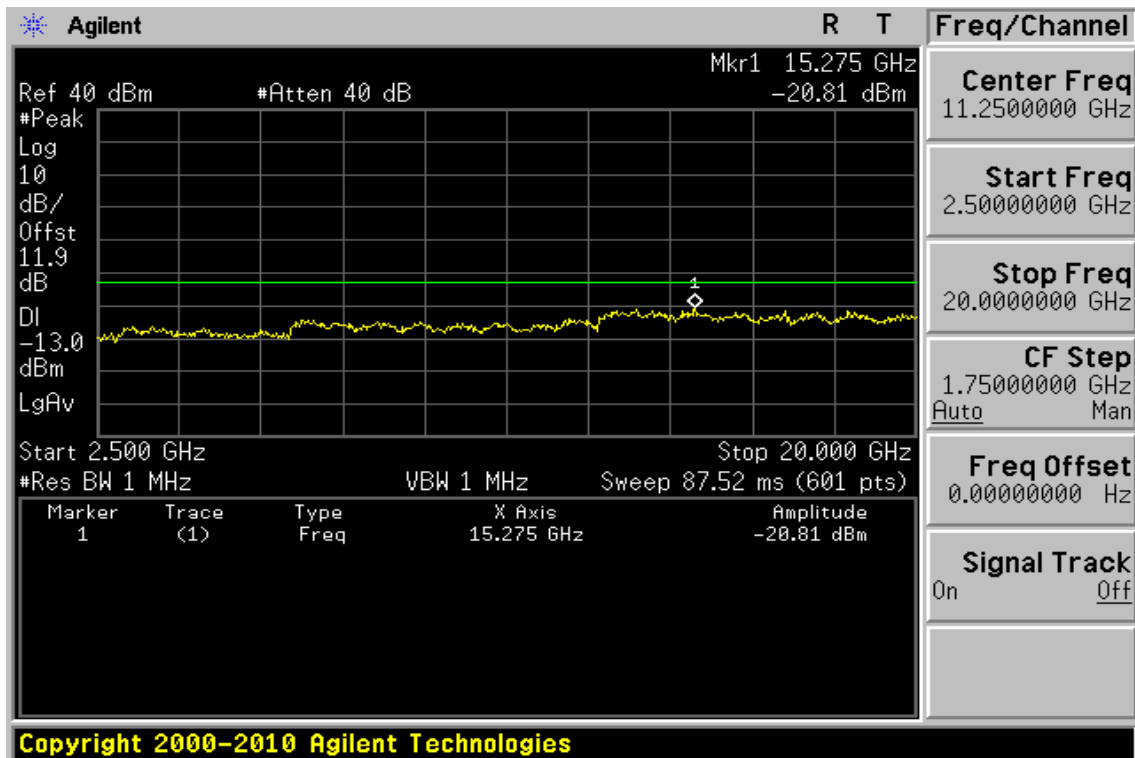
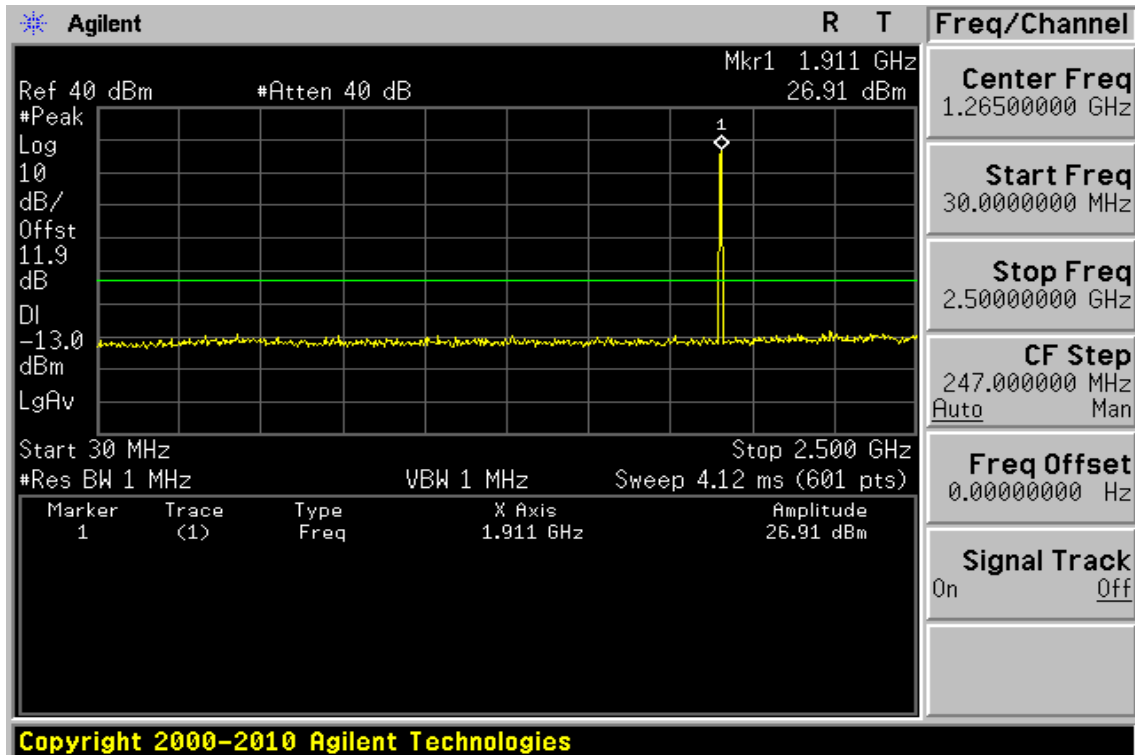


Figure 9-19: Bad edge emission at antenna terminals –GPRS 1900 Channel Lowest

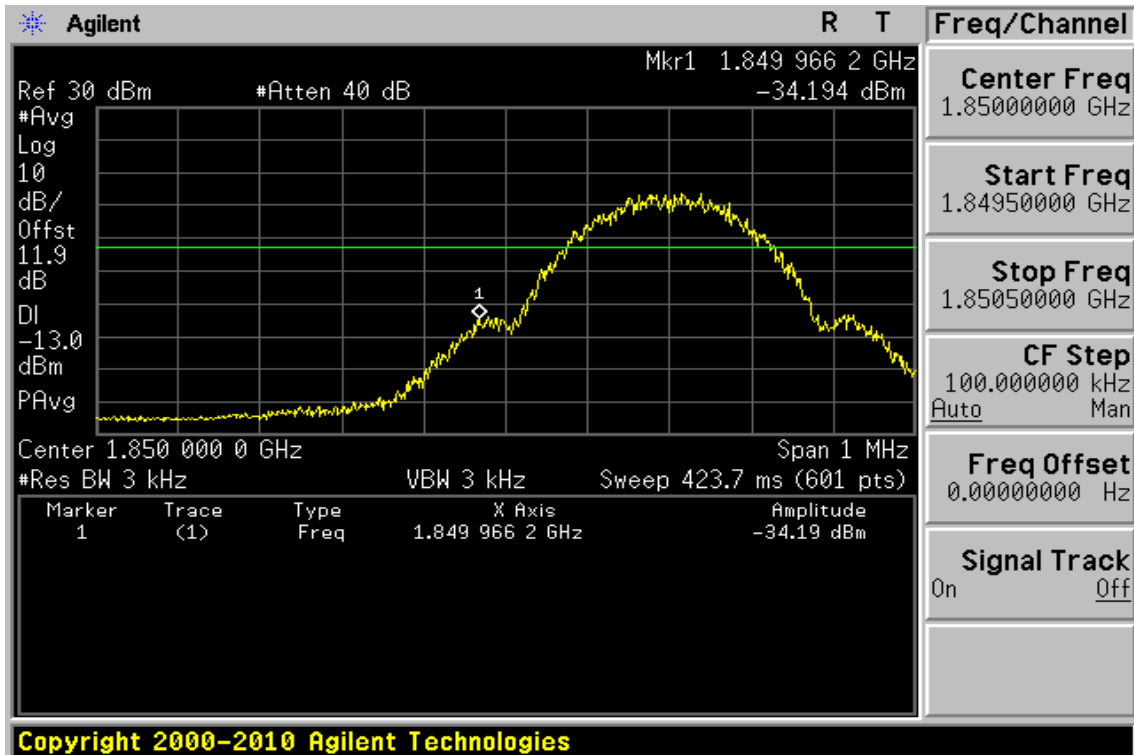
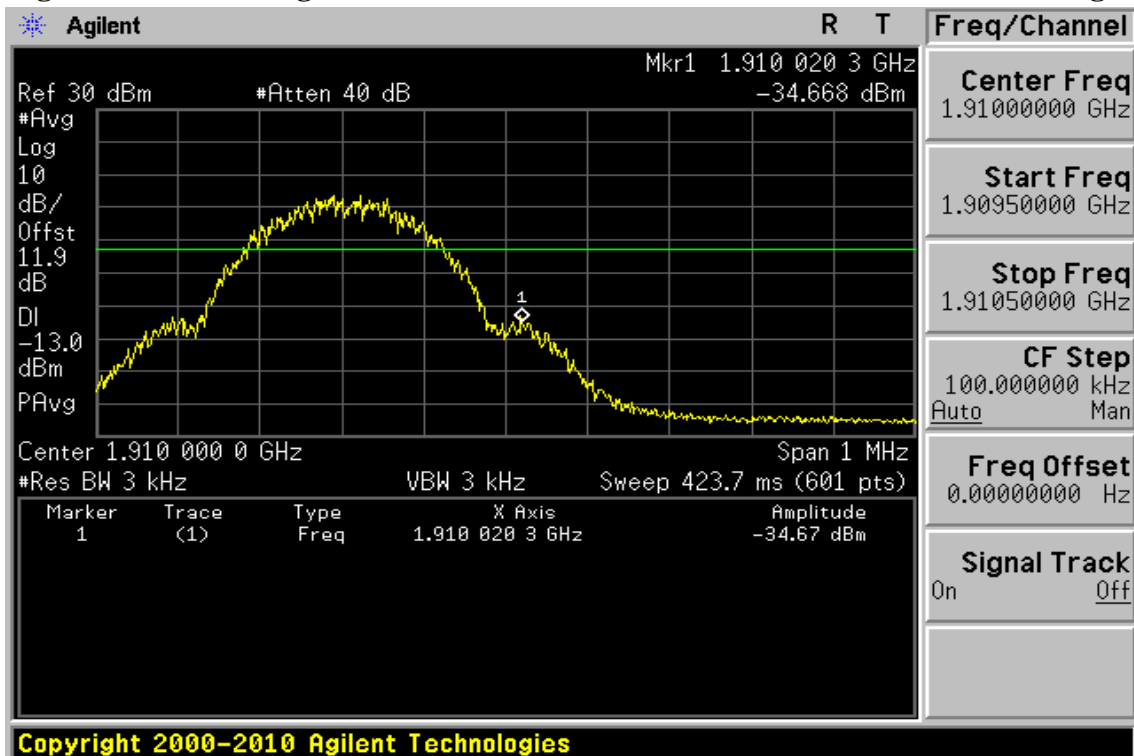
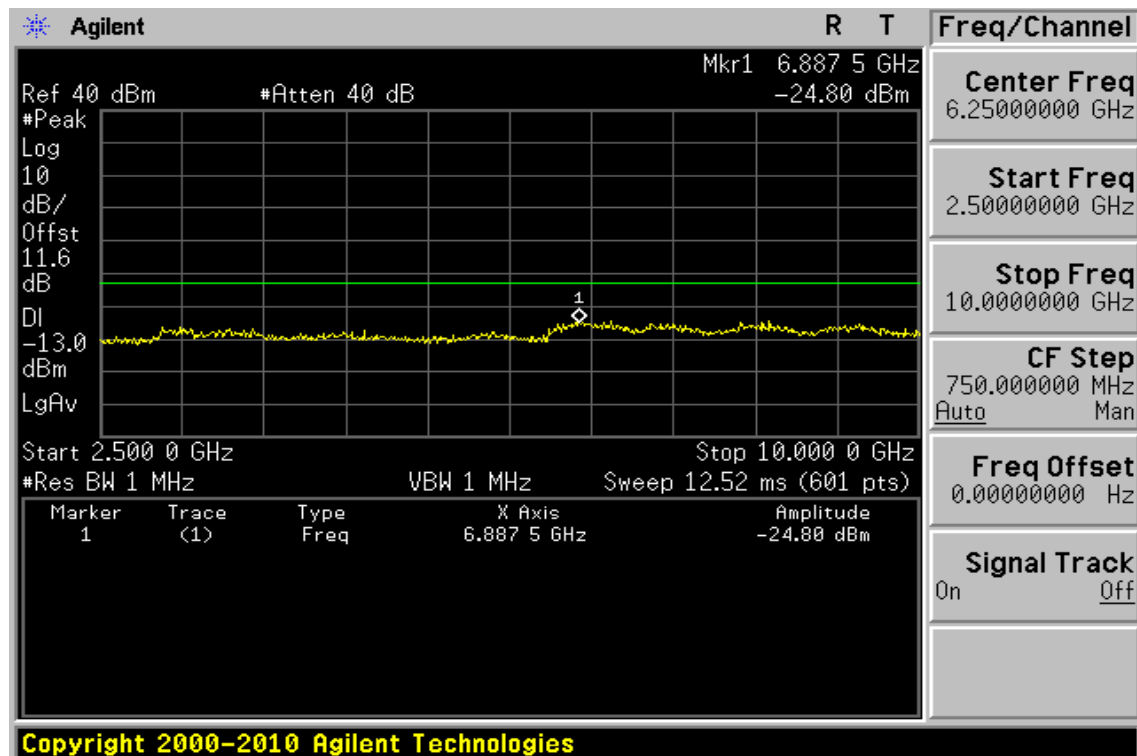
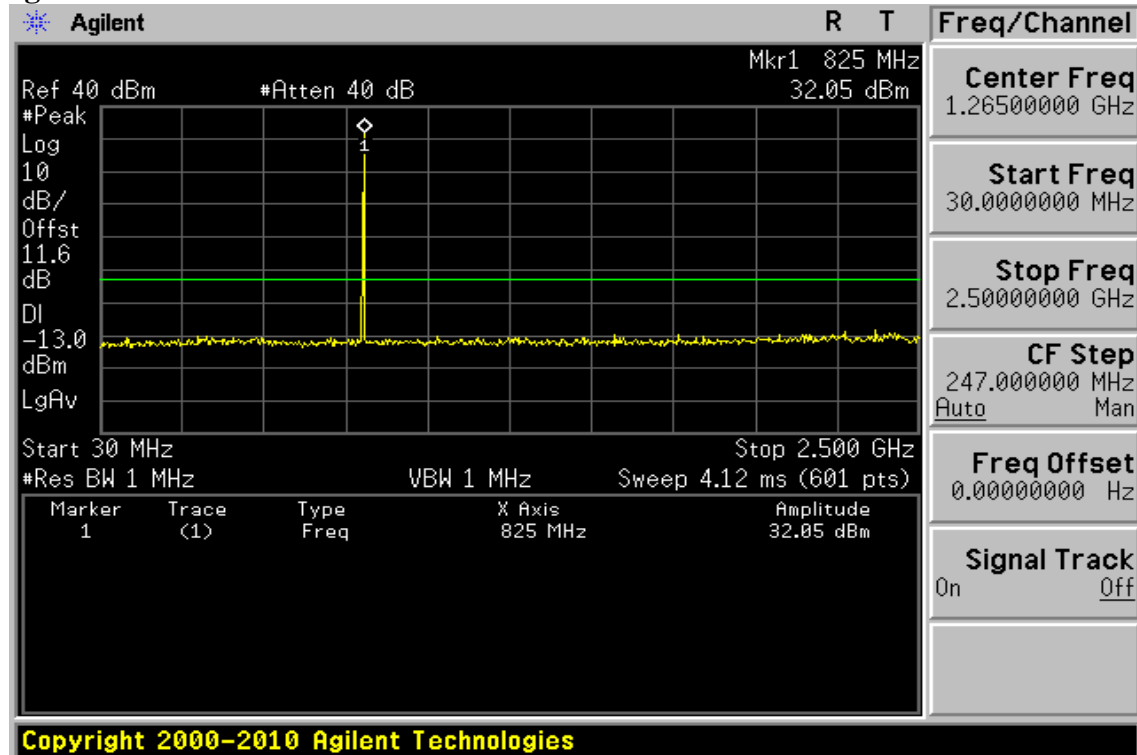


Figure 9-20: Band edge emission at antenna terminals –GPRS 1900 Channel Highest



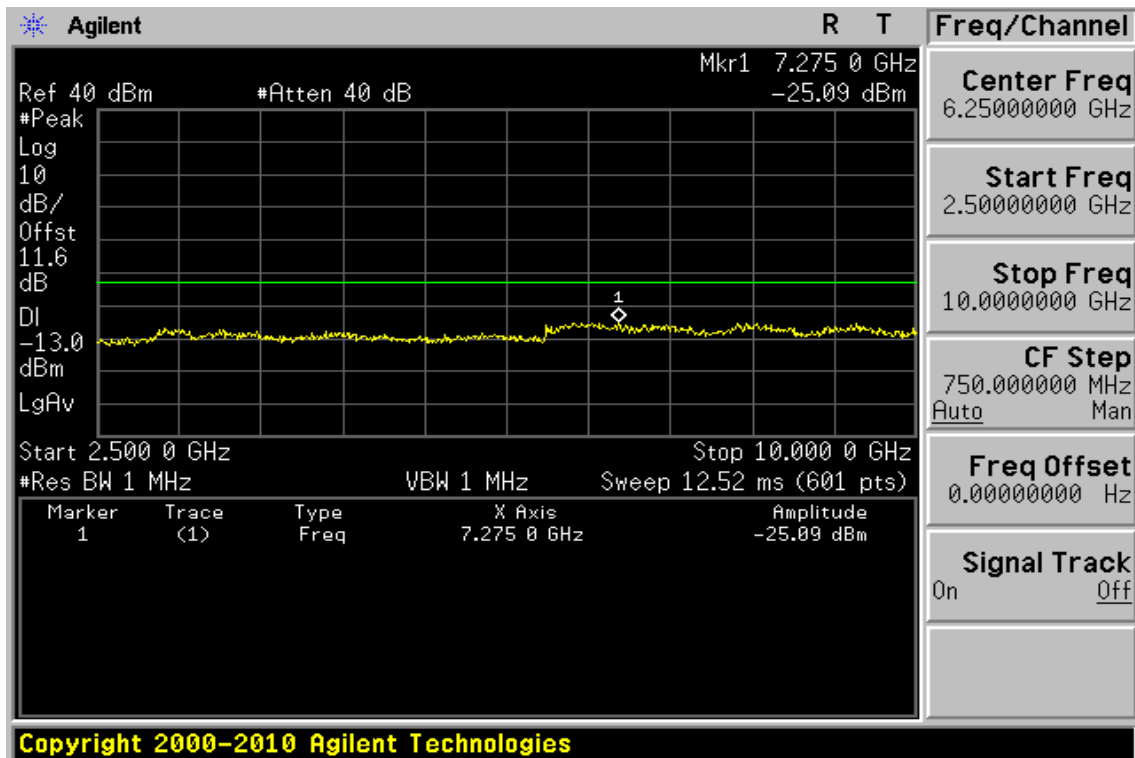
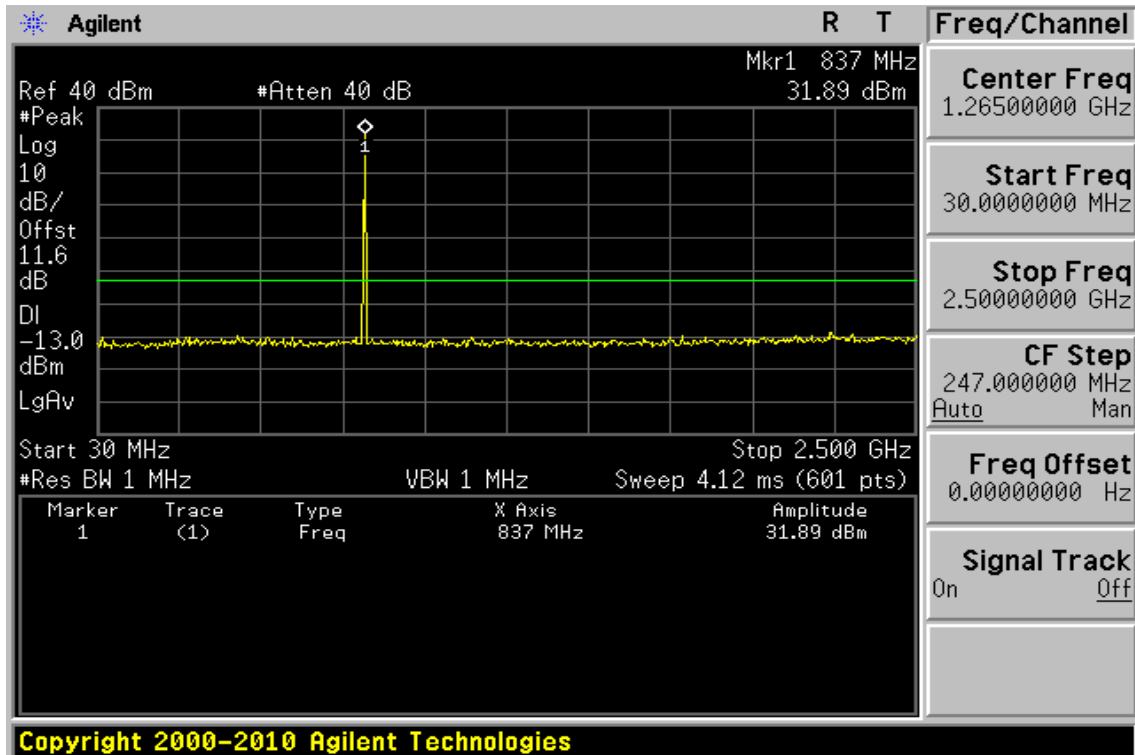
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Figure 9-21: Out of Band emission at antenna terminals– EDGE 850 Channel Lowest



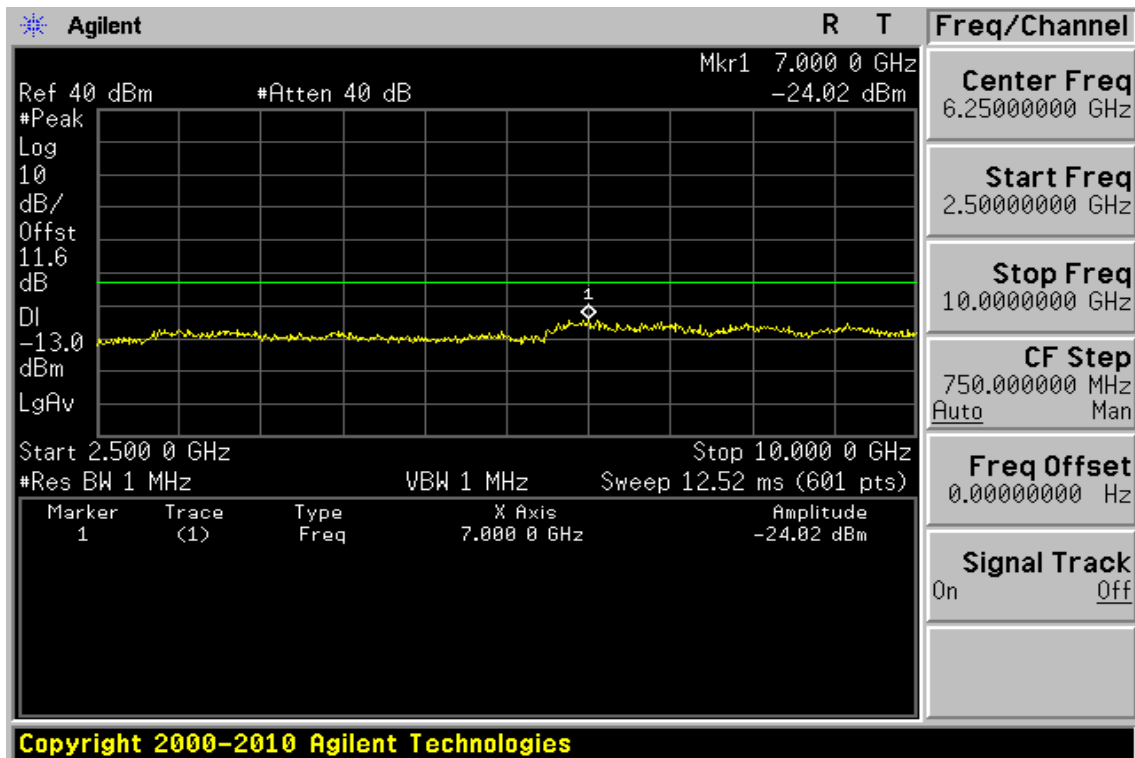
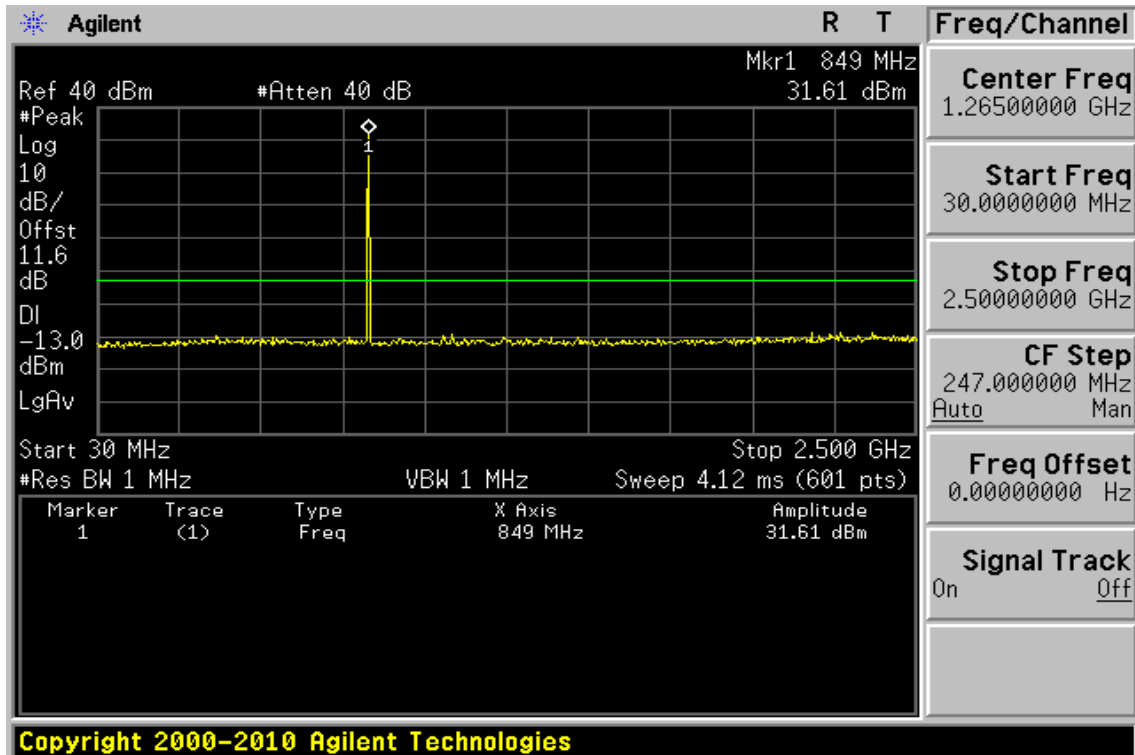
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Figure 9-22: Out of Band emission at antenna terminals –EDGE 850 Channel Mid



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Figure 9-23: Out of Band emission at antenna terminals–EDGE 850 Channel Highest



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Figure 9-24: Band edge emission at antenna terminals –EDGE 850 Channel Lowest

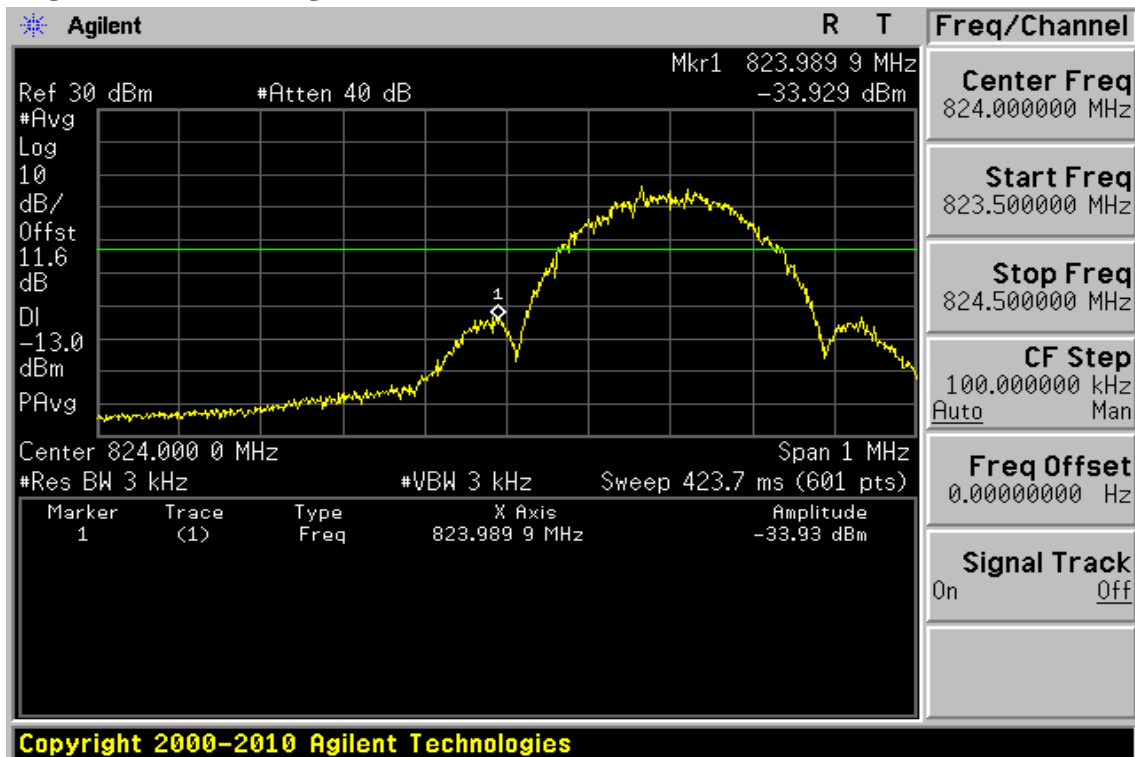
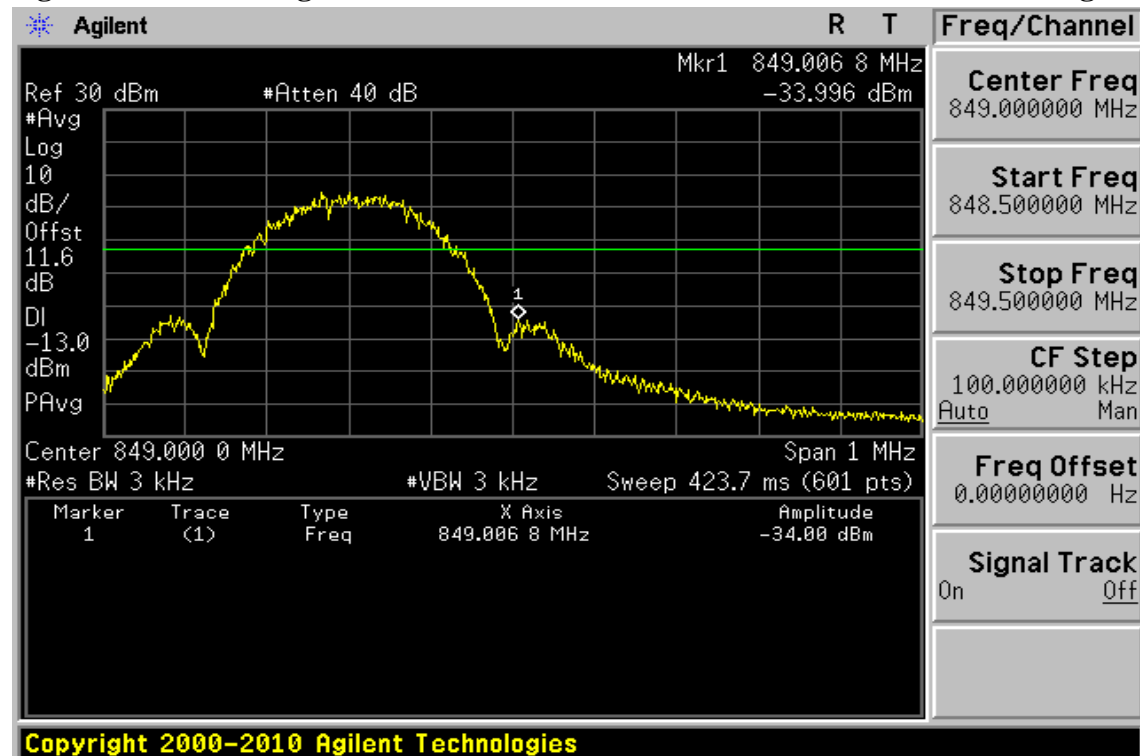
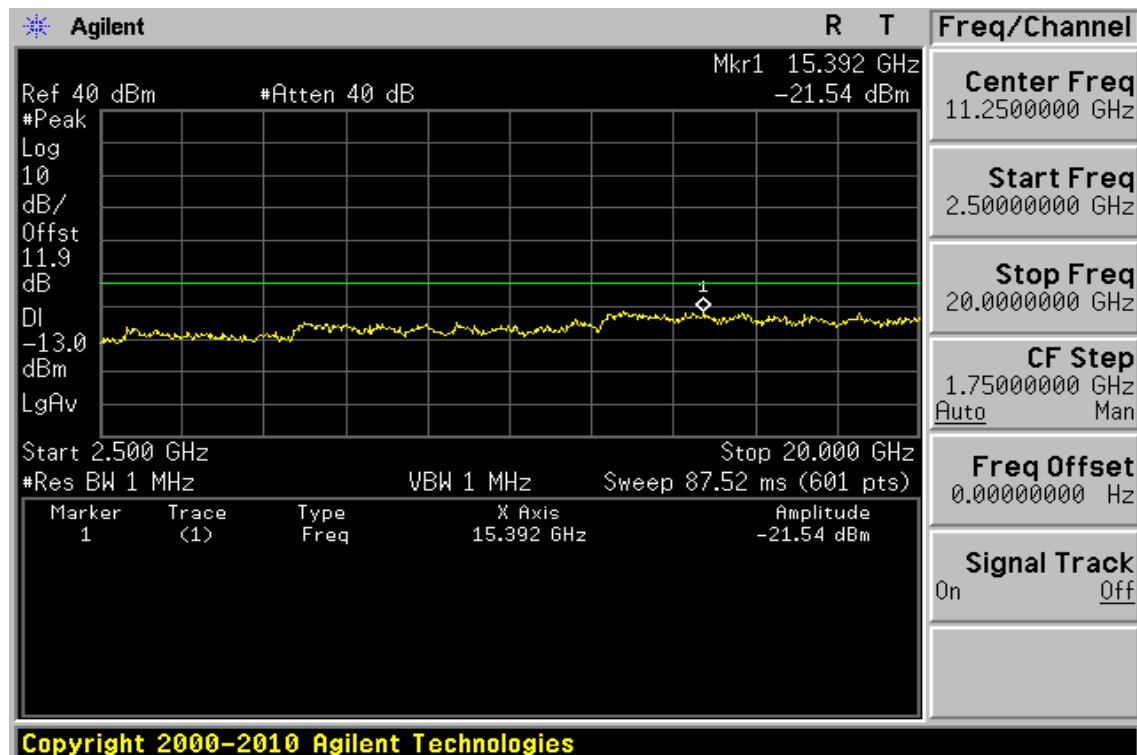
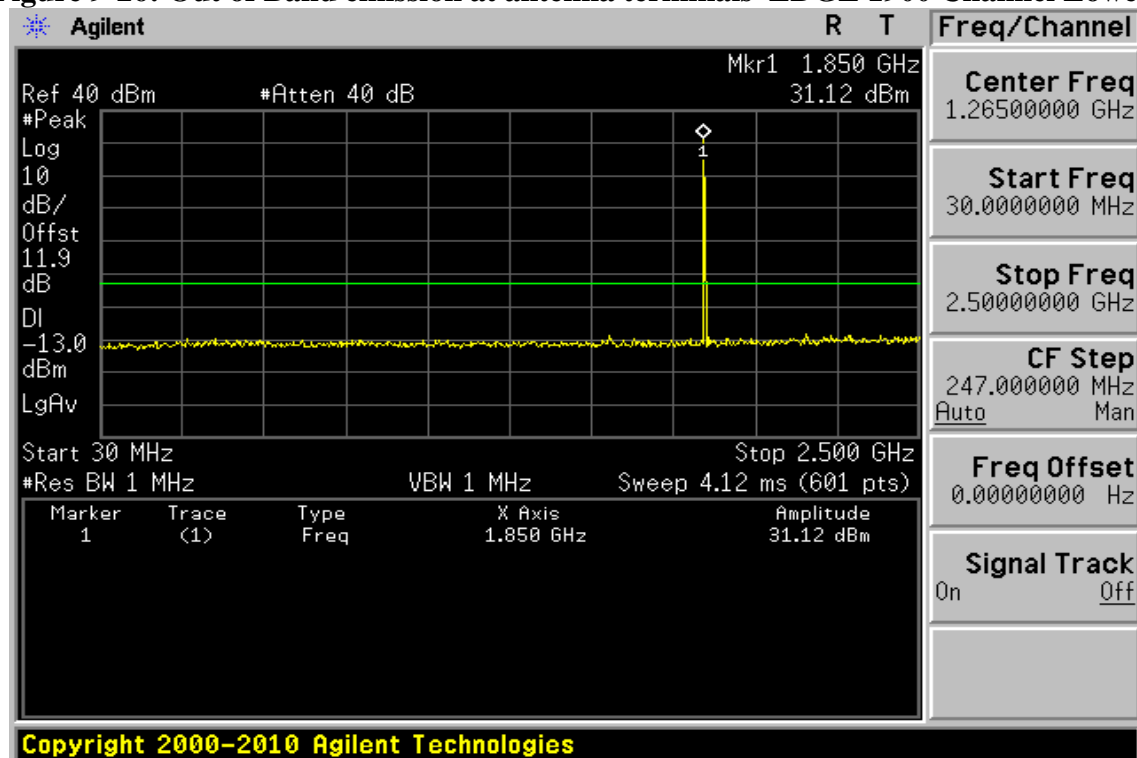


Figure 9-25: Band edge emission at antenna terminals –EDGE 850 Channel Highest



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Figure 9-26: Out of Band emission at antenna terminals–EDGE 1900 Channel Lowest



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Figure 9-27: Out of Band emission at antenna terminals –EDGE 1900 Channel Mid

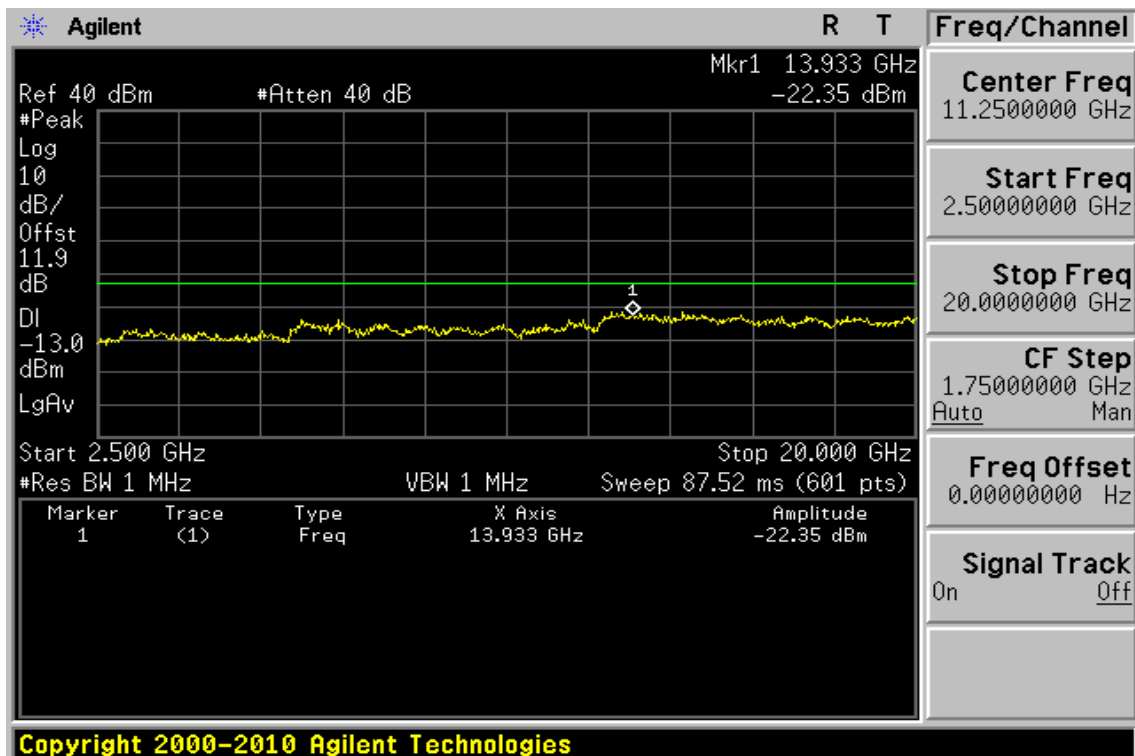
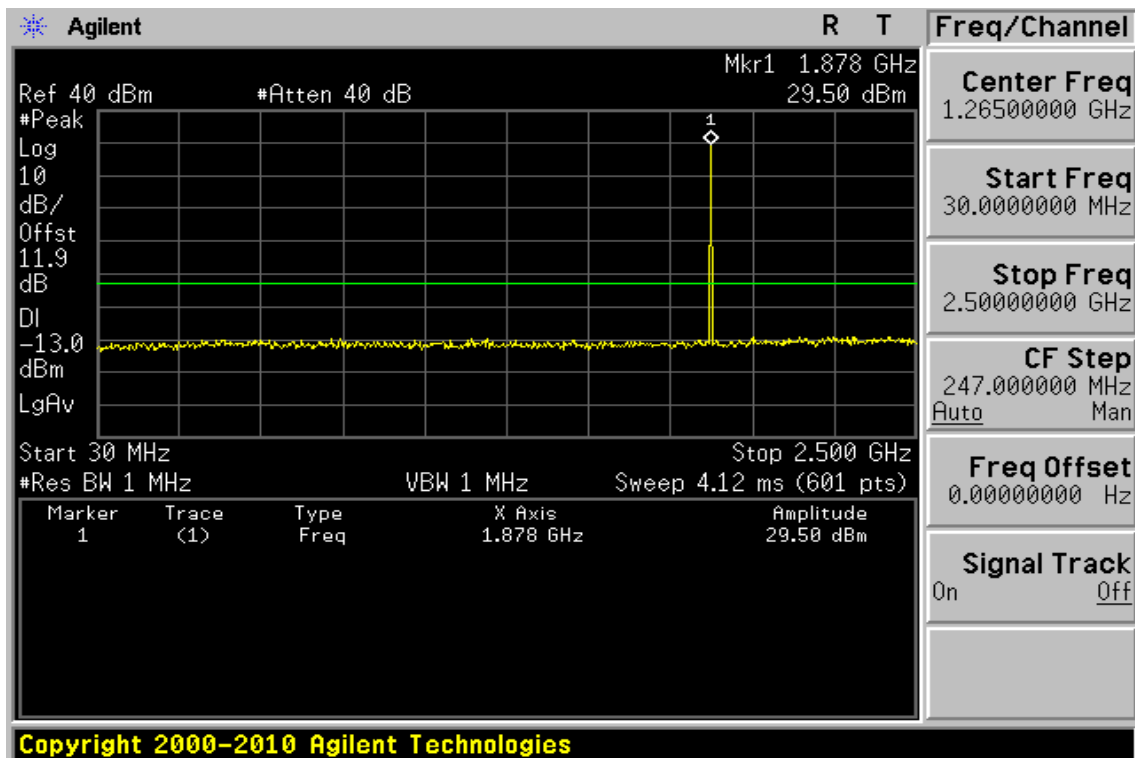


Figure 9-28: Out of Band emission at antenna terminals–EDGE 1900 Channel Highest

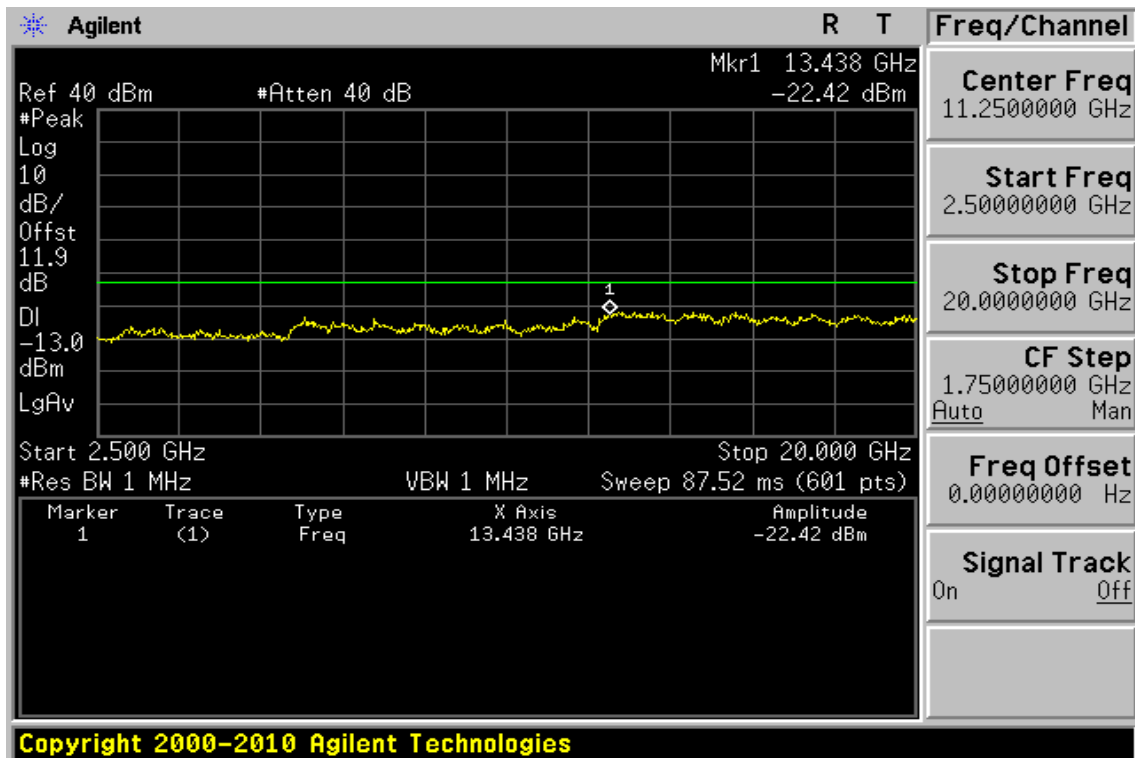
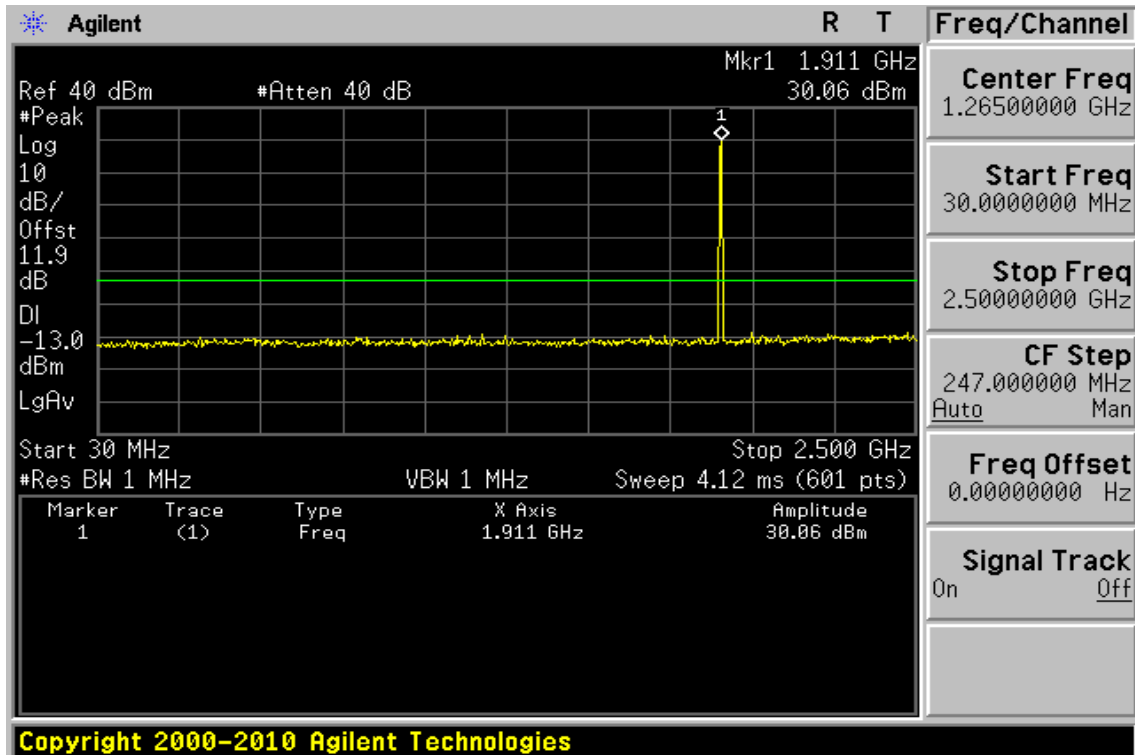


Figure 9-29: Bad edge emission at antenna terminals –EDGE 1900 Channel Lowest

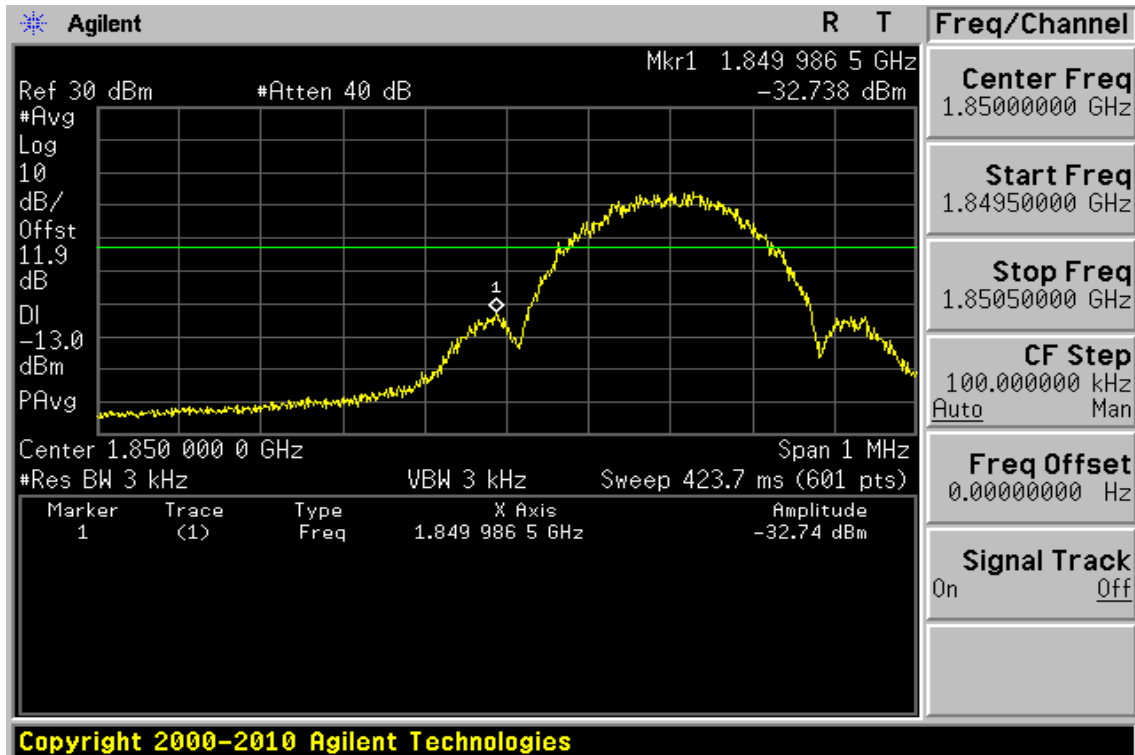
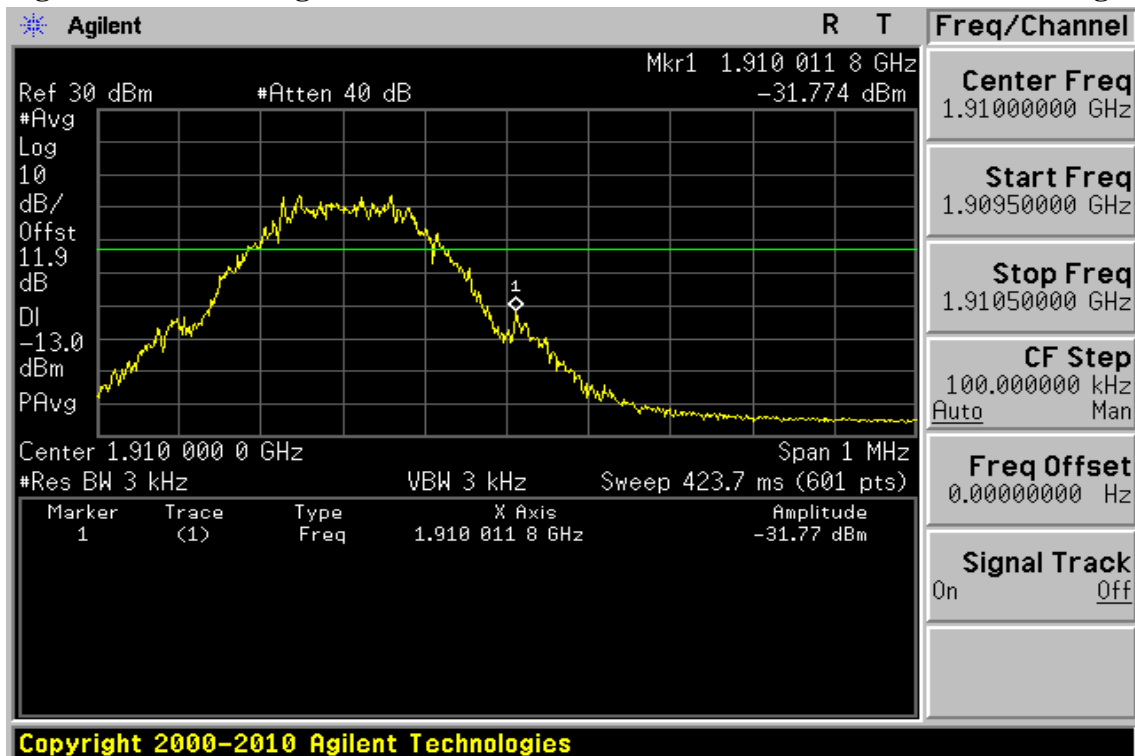


Figure 9-30: Band edge emission at antenna terminals –EDGE 1900 Channel Highest



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Figure 9-31: Out of Band emission at antenna terminals– WCDMA II Channel Lowest

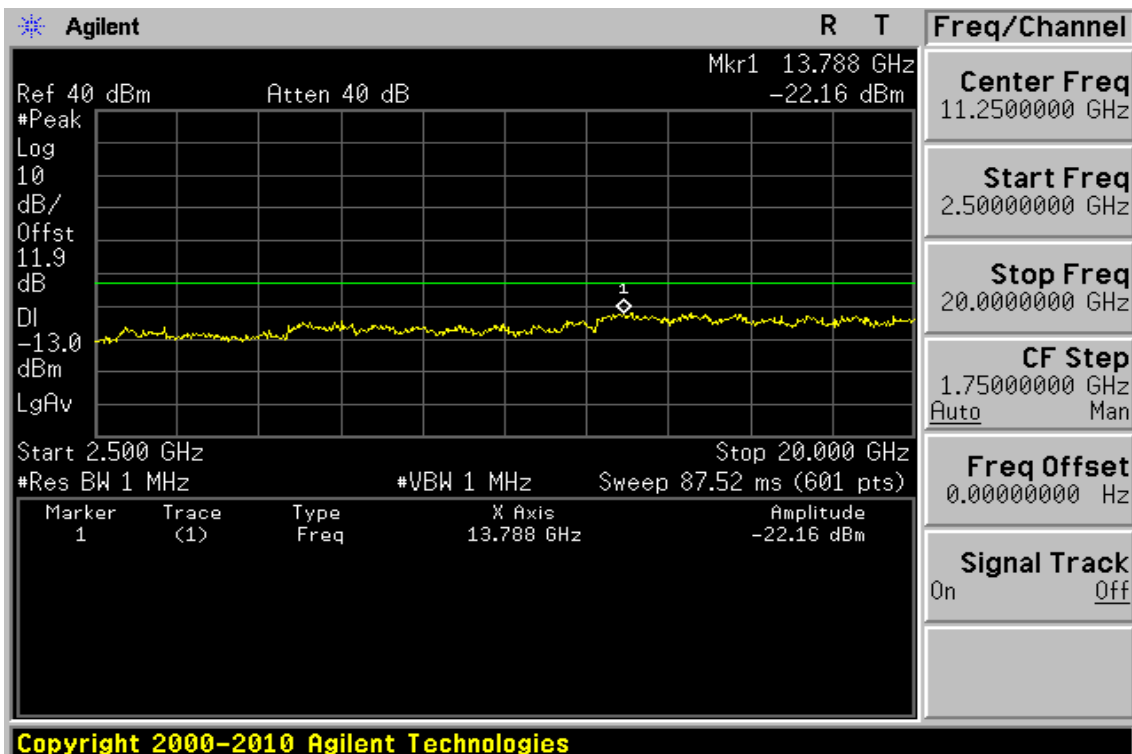
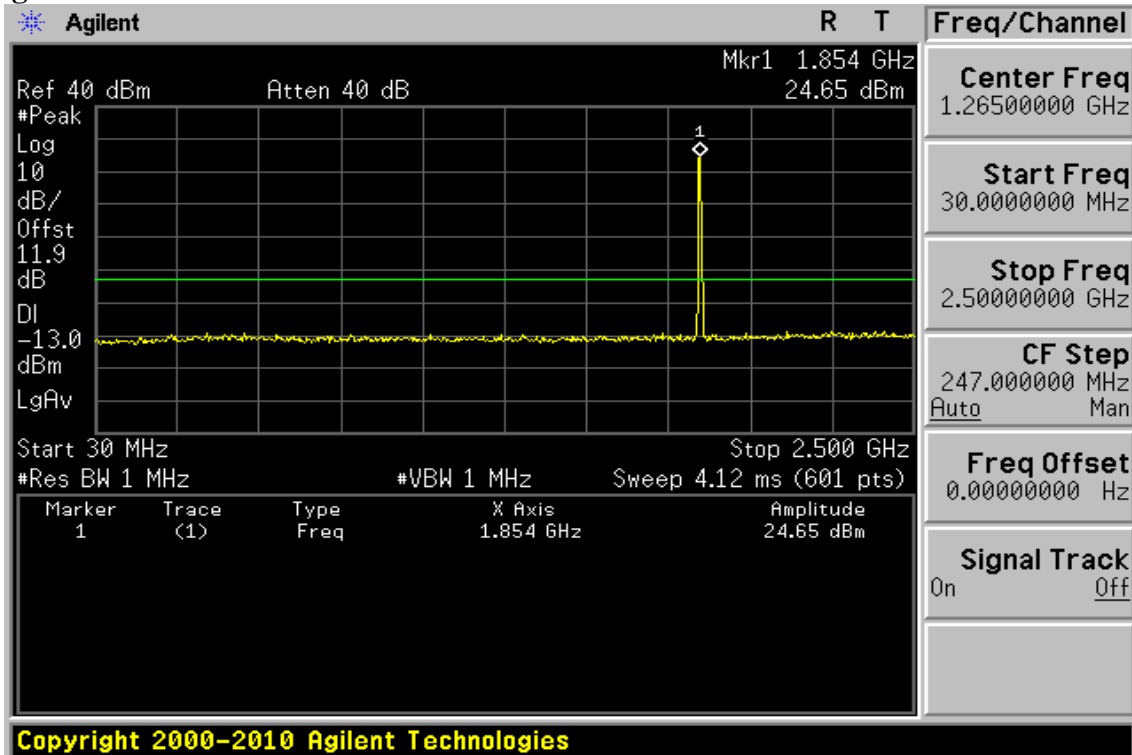


Figure 9-32: Out of Band emission at antenna terminals –WCDMA II Channel Mid

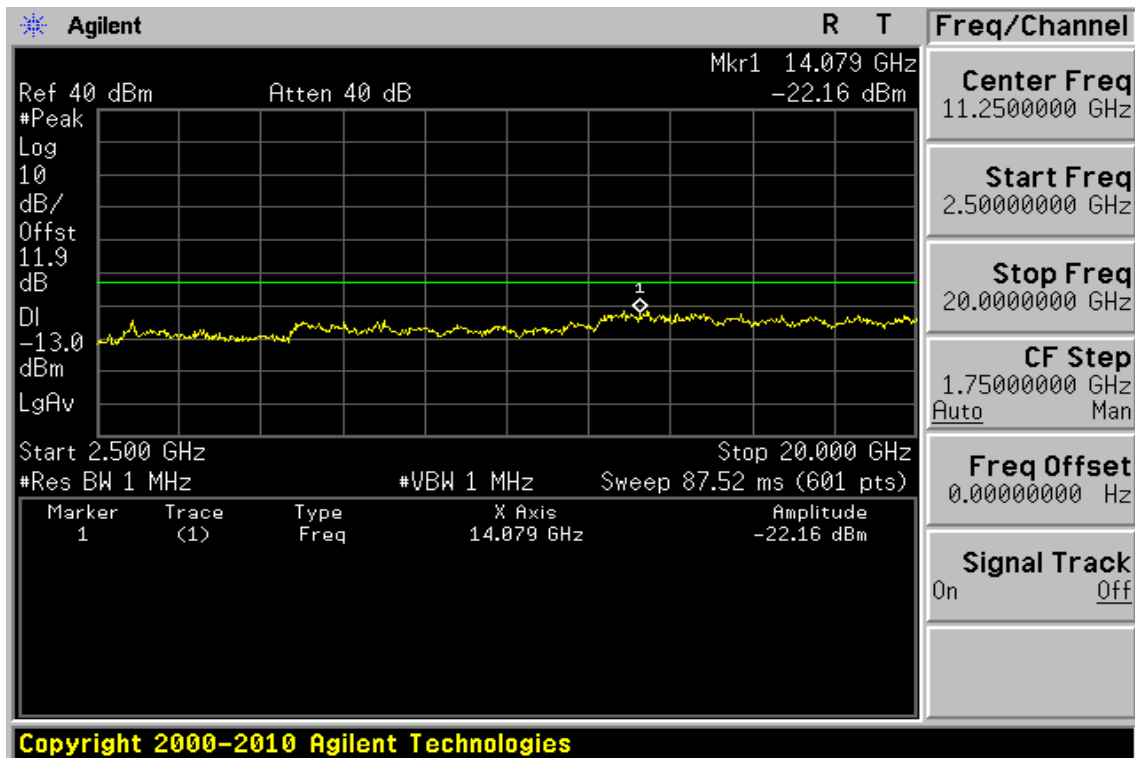
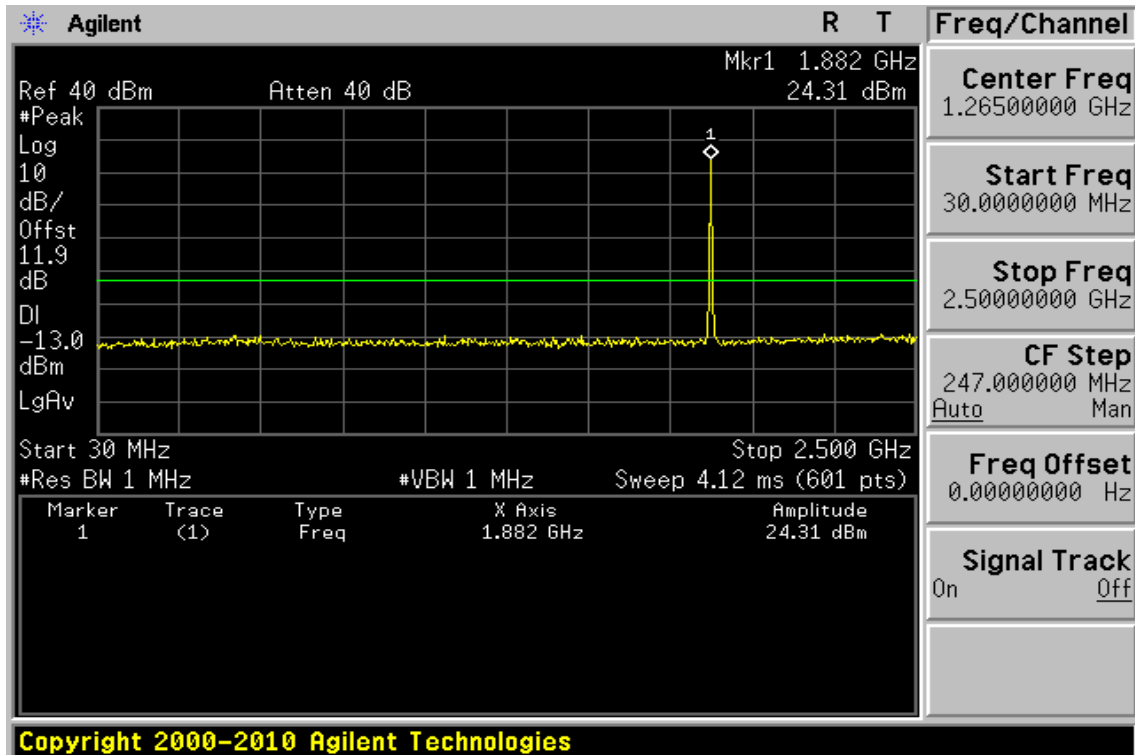
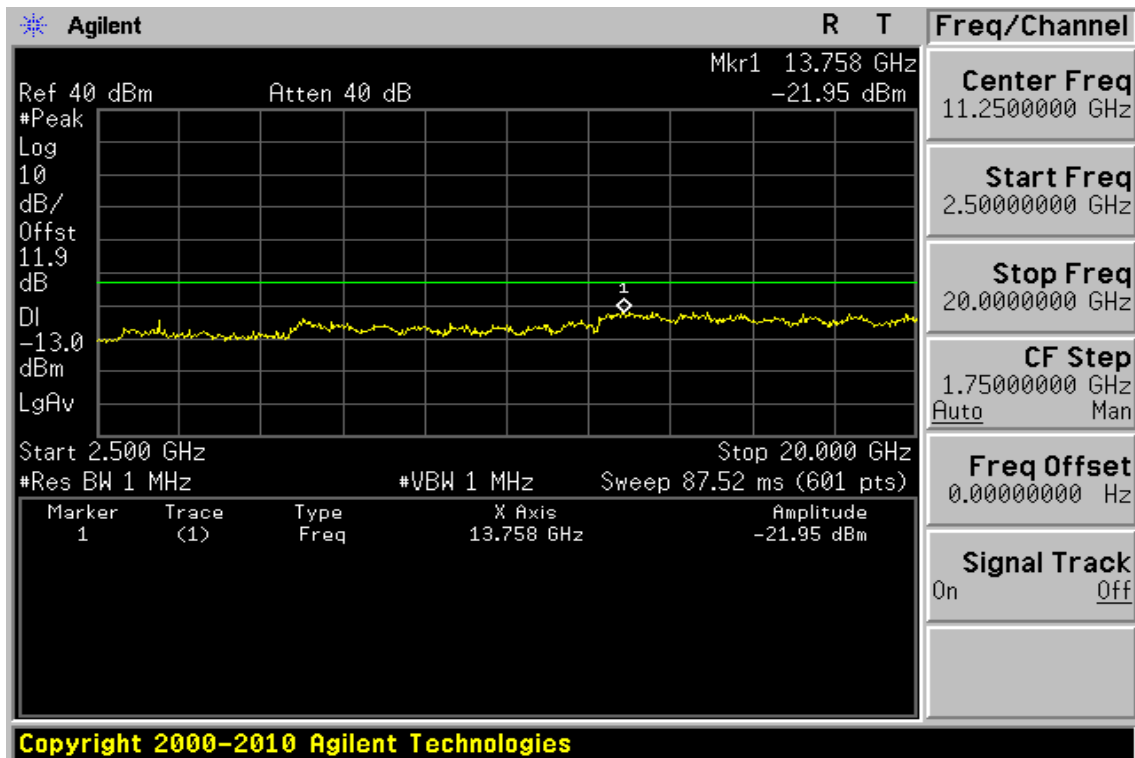
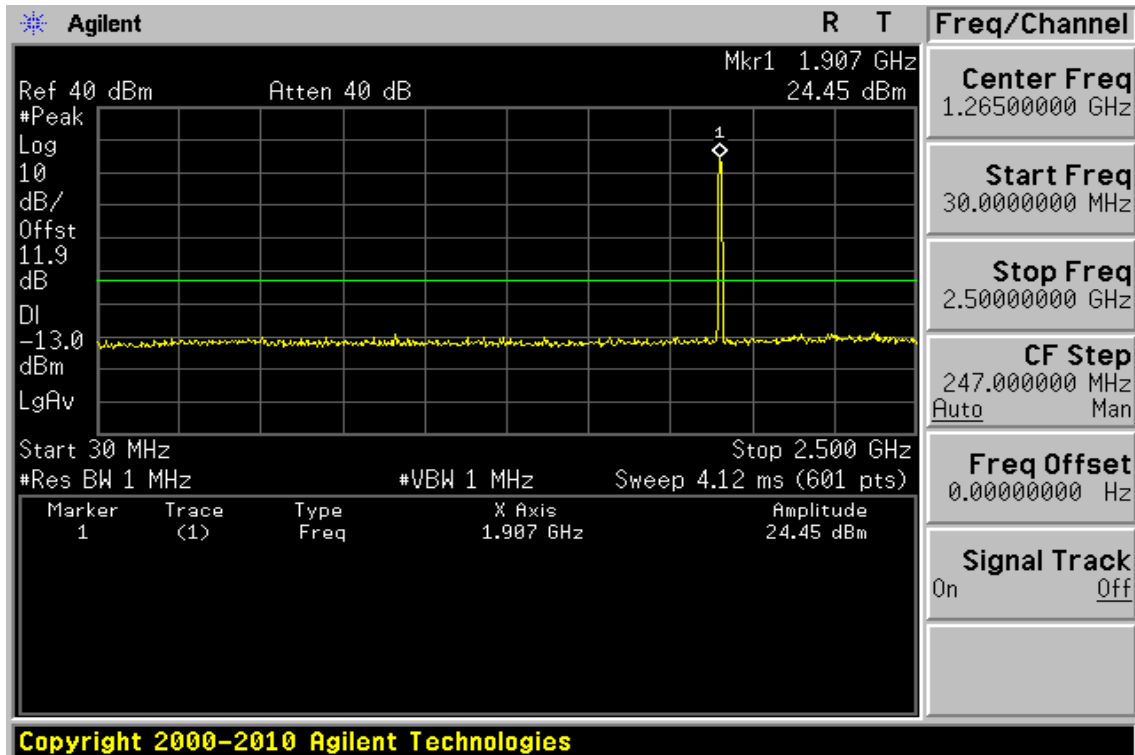


Figure 9-33: Out of Band emission at antenna terminals–WCDMA II Channel Highest



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Figure 9-34: Band edge emission at antenna terminals –WCDMA II Channel Lowest

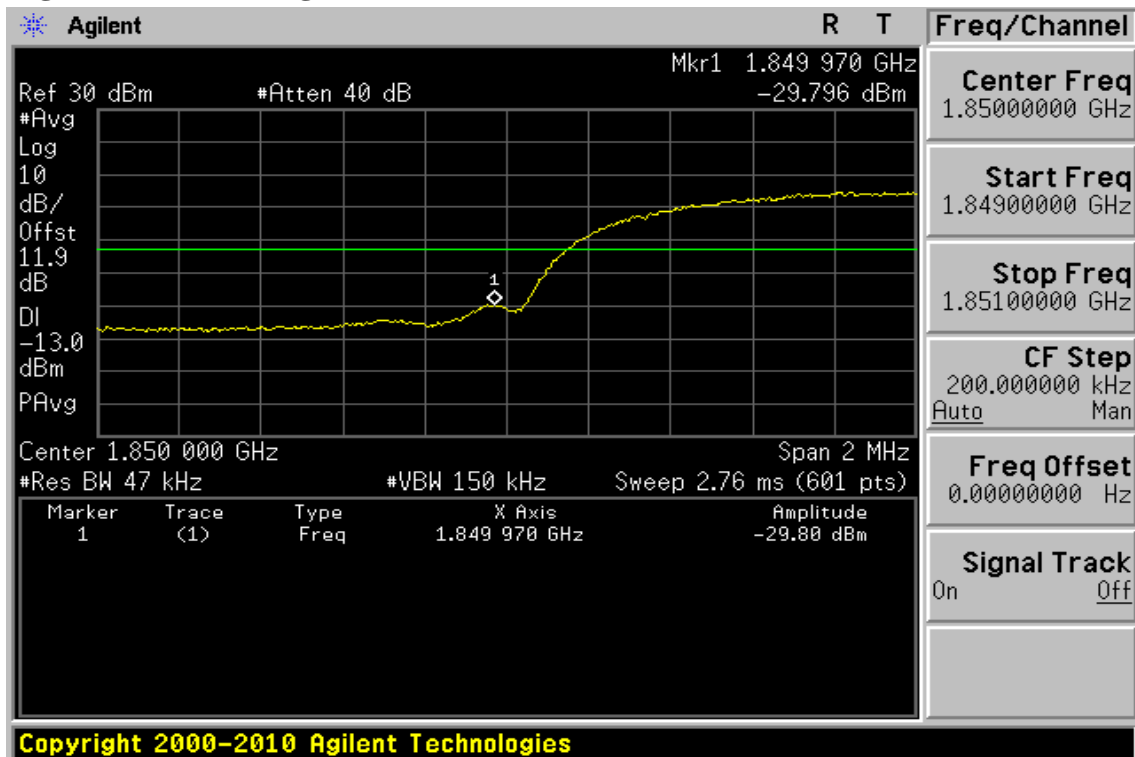
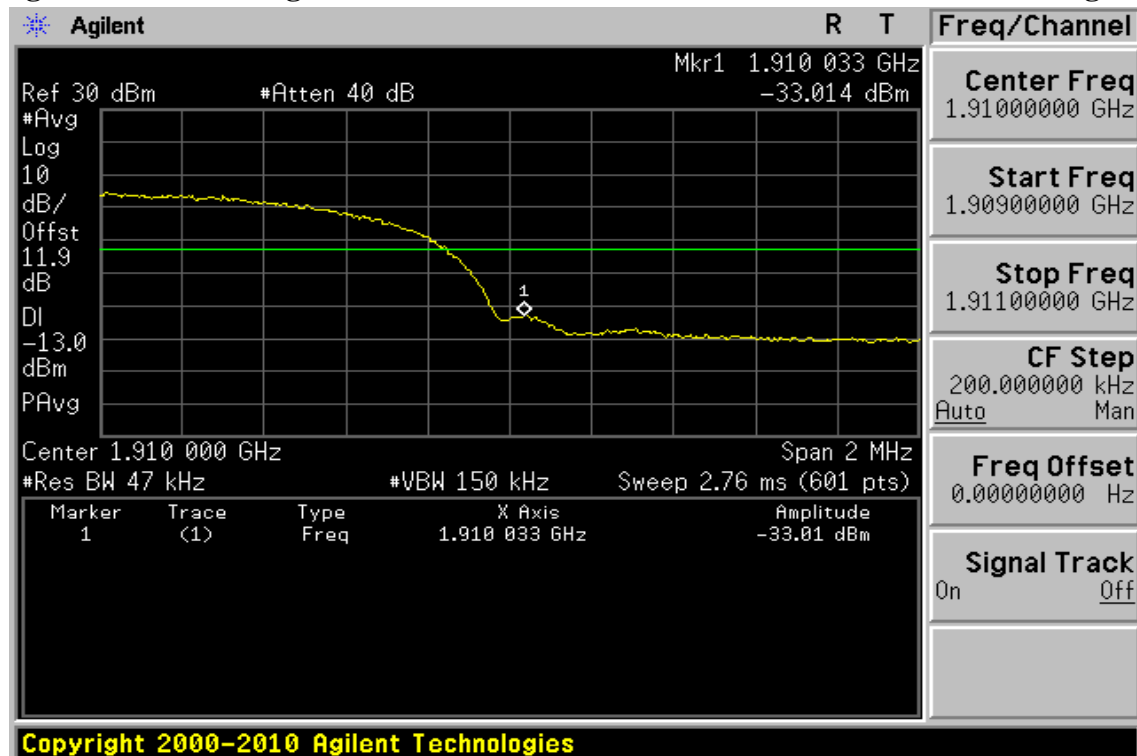
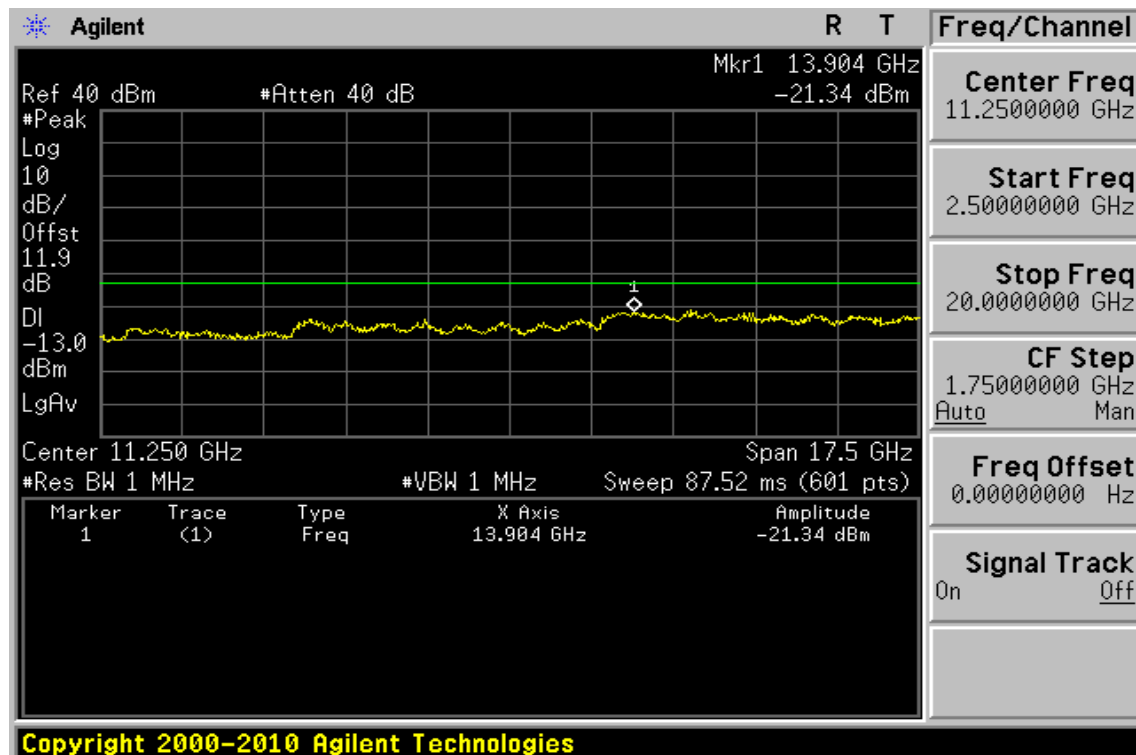
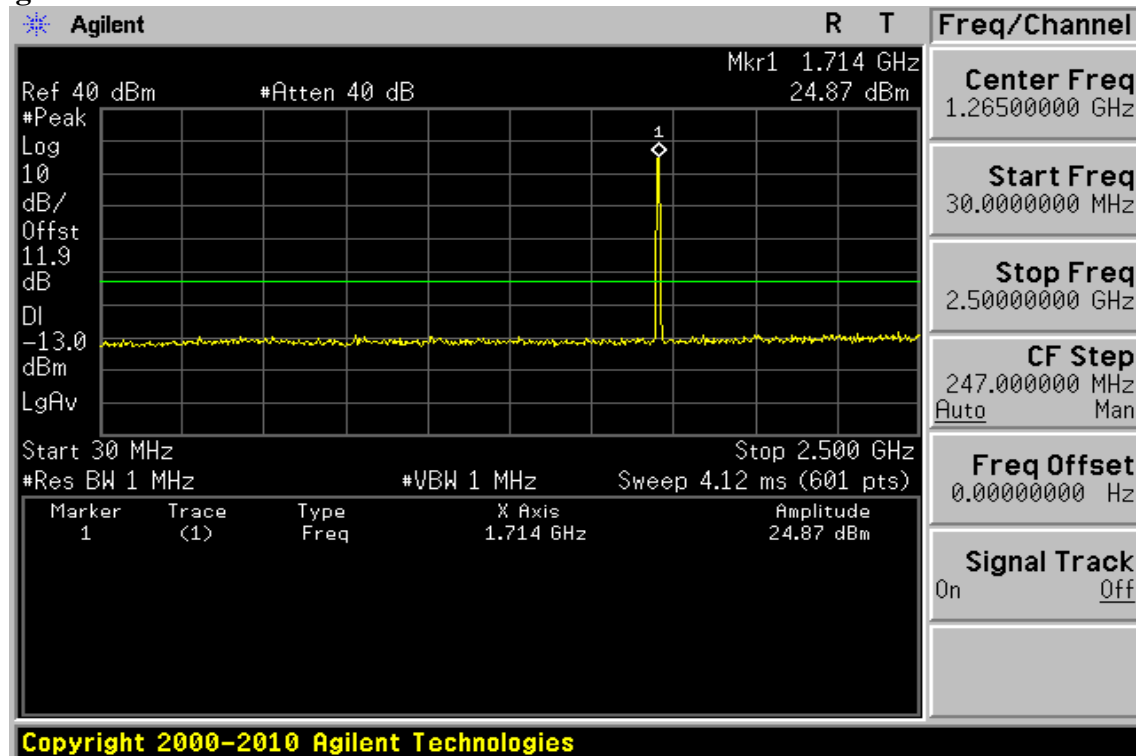


Figure 9-35: Band edge emission at antenna terminals –WCDMA II Channel Highest



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Figure 9-36: Out of Band emission at antenna terminals–WCDMA IV Channel Lowest



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Figure 9-37: Out of Band emission at antenna terminals –WCDMA IV Channel Mid

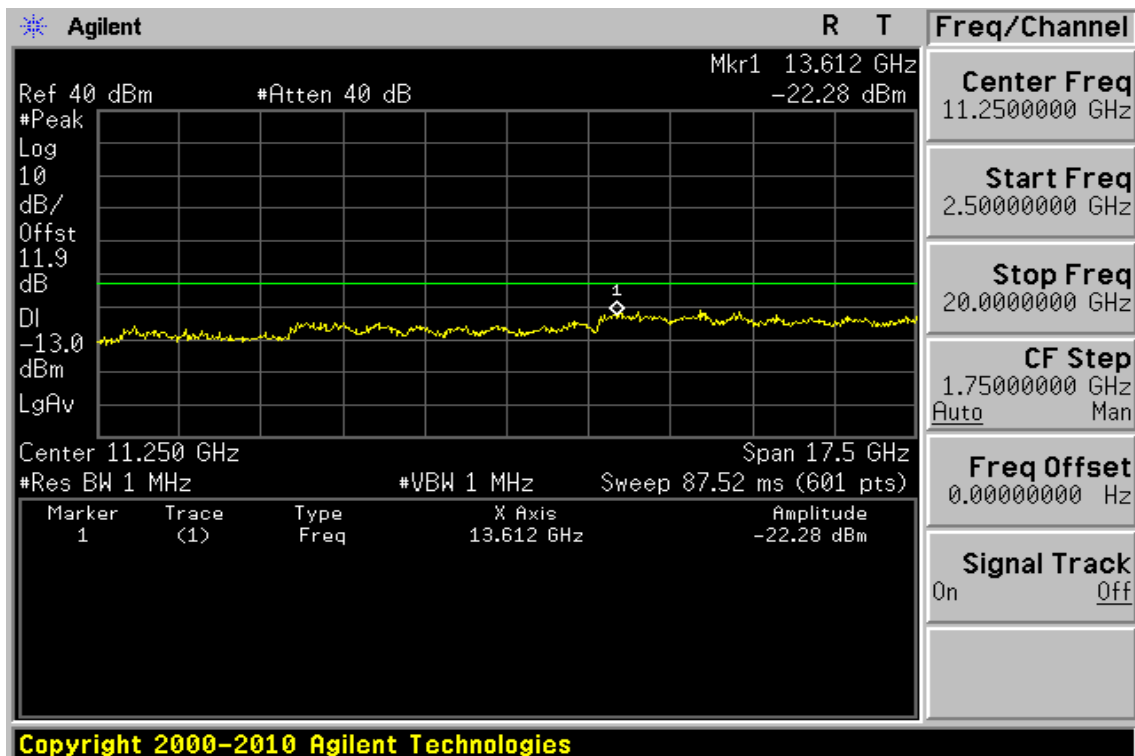
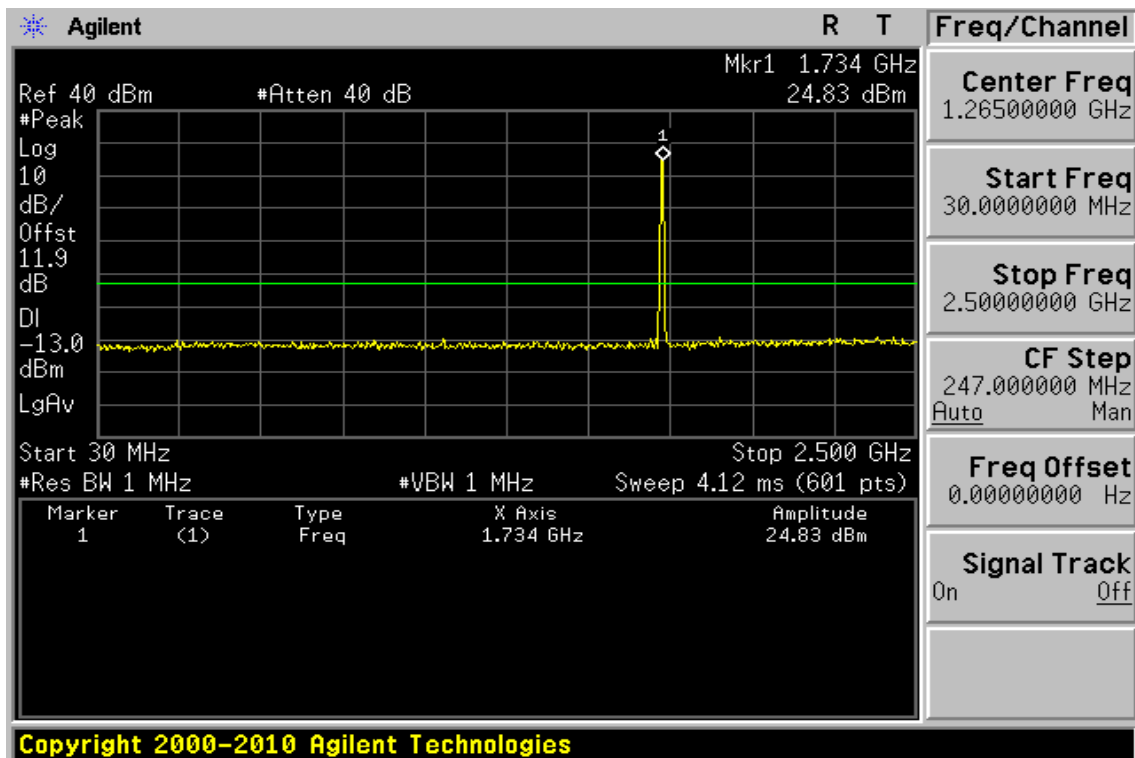
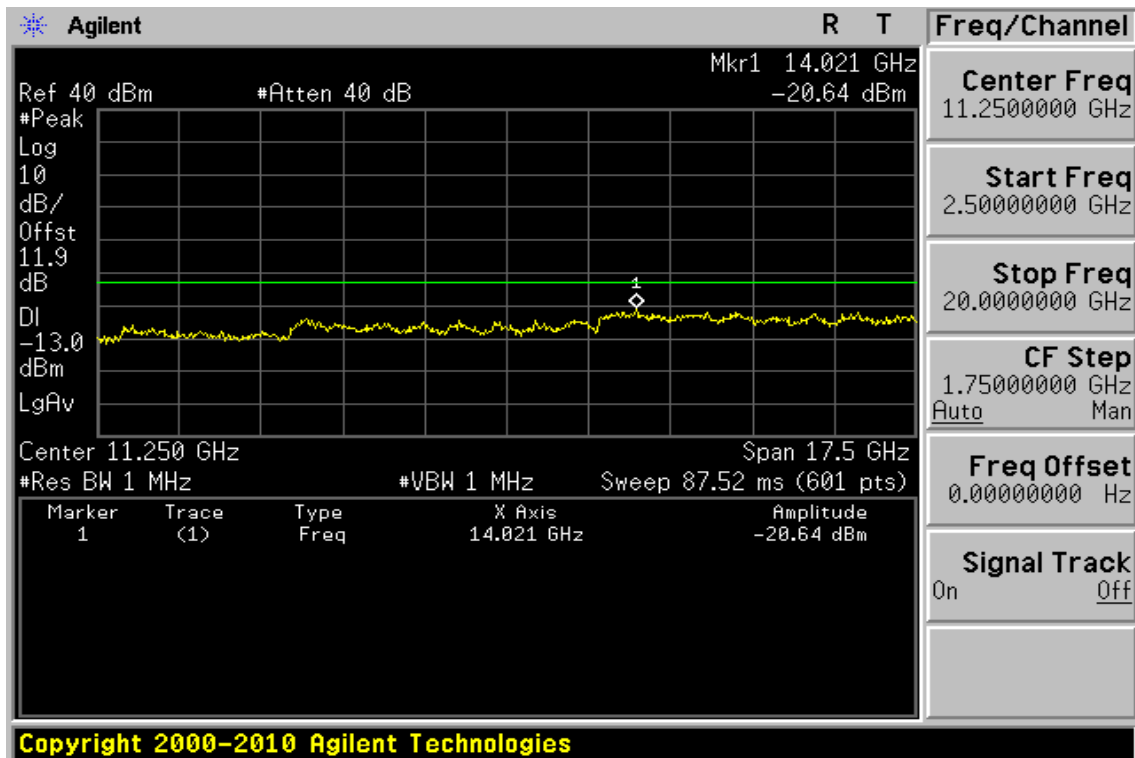
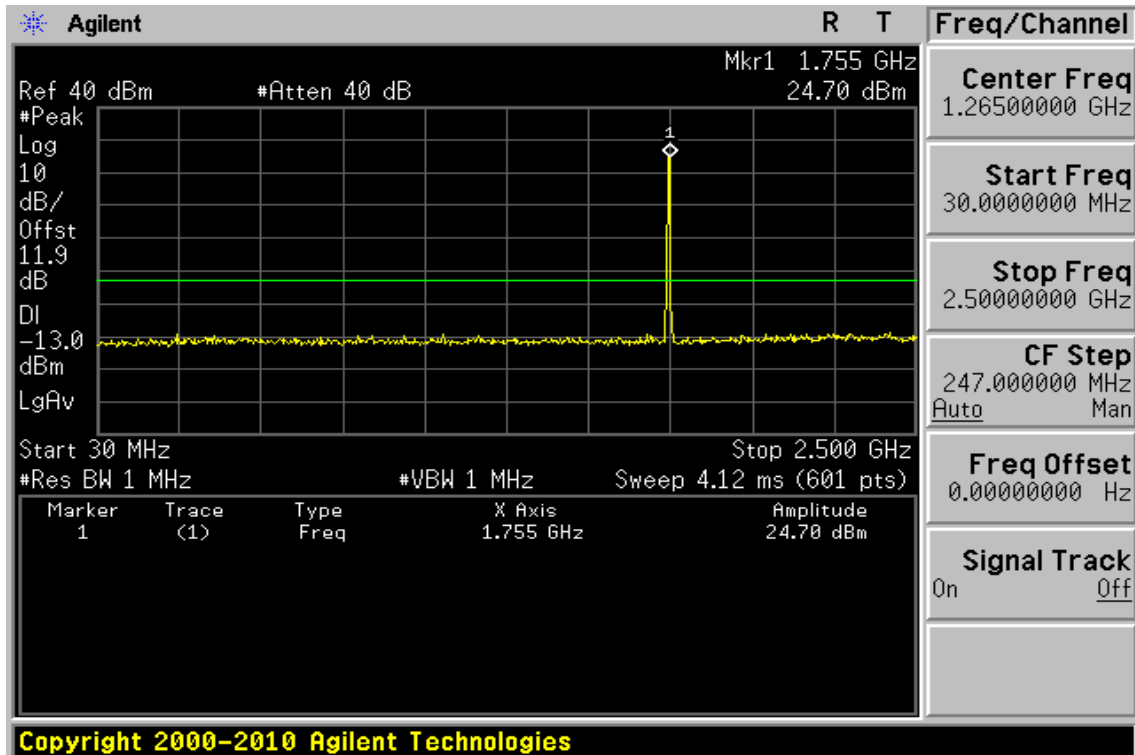


Figure 9-38: Out of Band emission at antenna terminals–WCDMA IV Channel Highest



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Figure 9-39: Bad edge emission at antenna terminals –WCDMA IV Channel Lowest

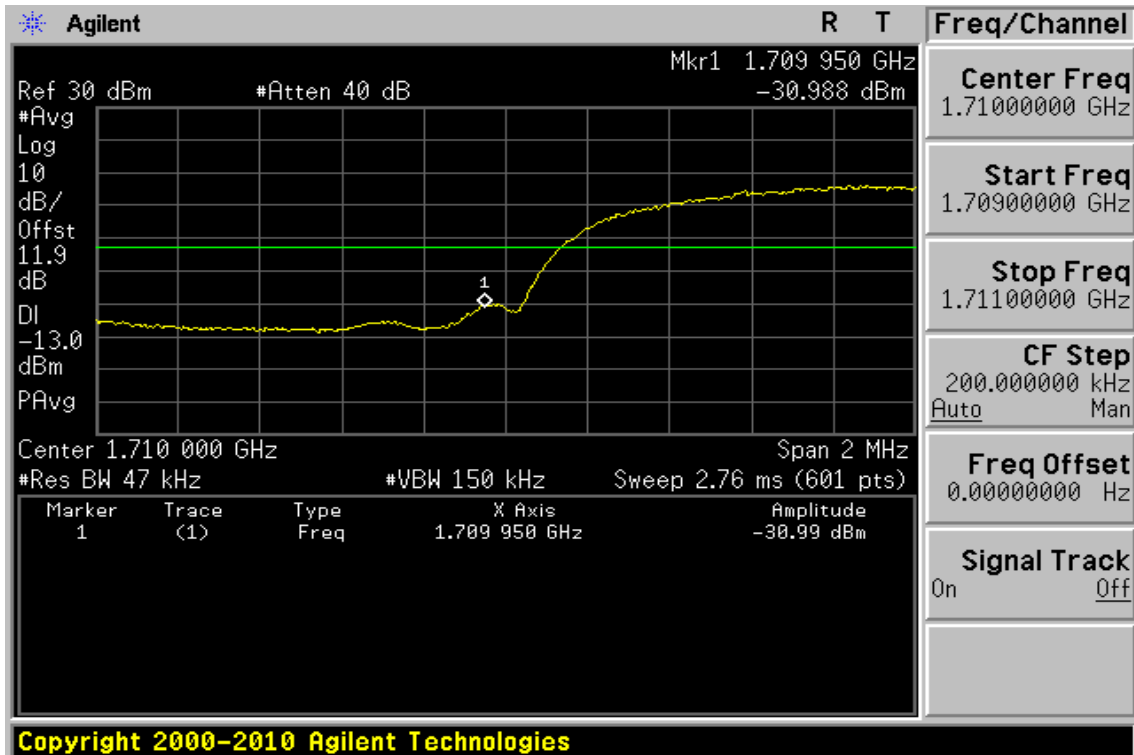


Figure 9-40: Band edge emission at antenna terminals –WCDMA IV Channel Highest

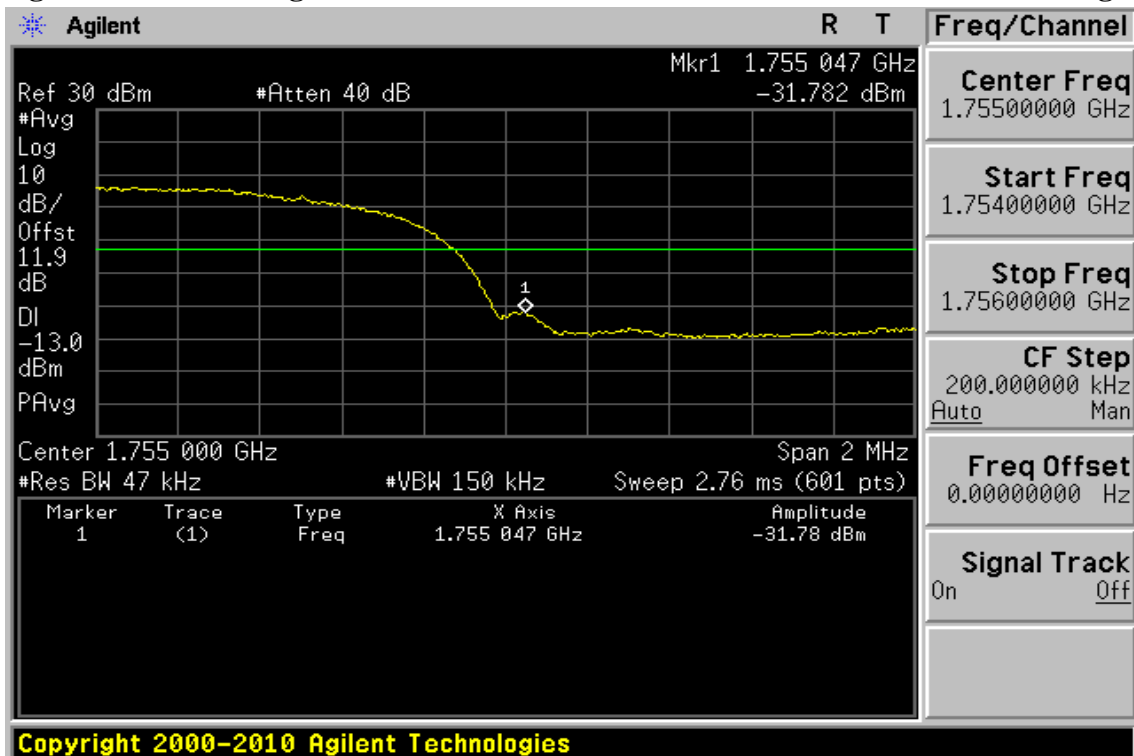
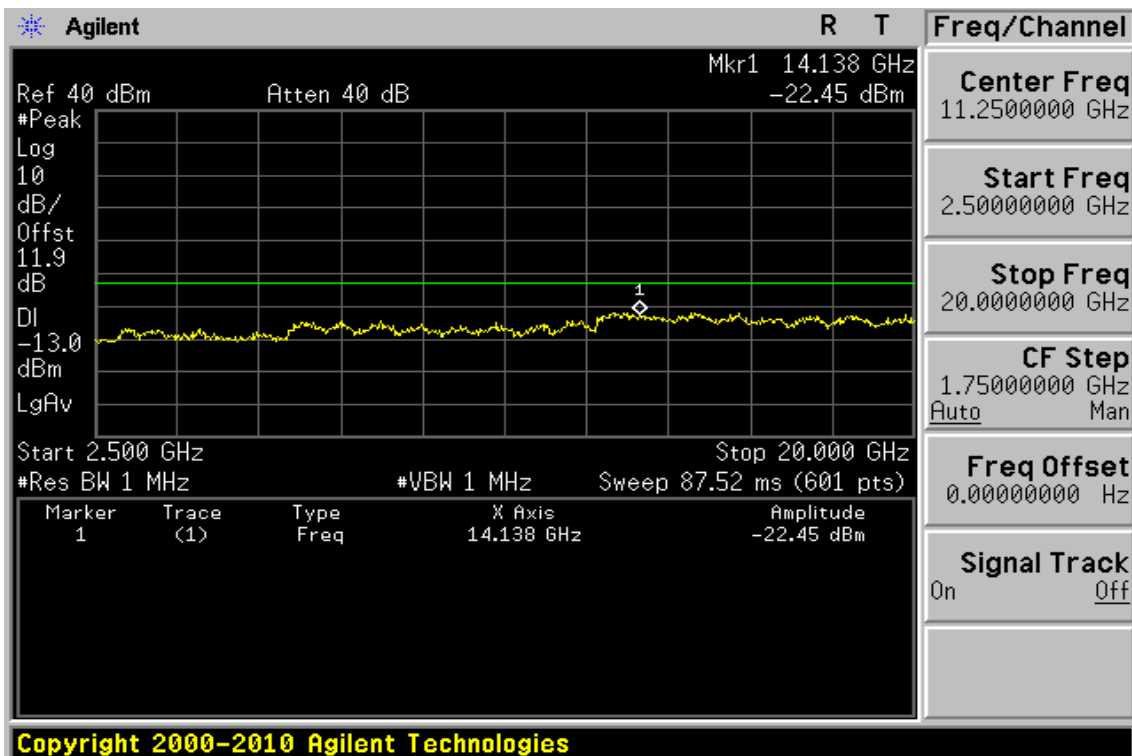
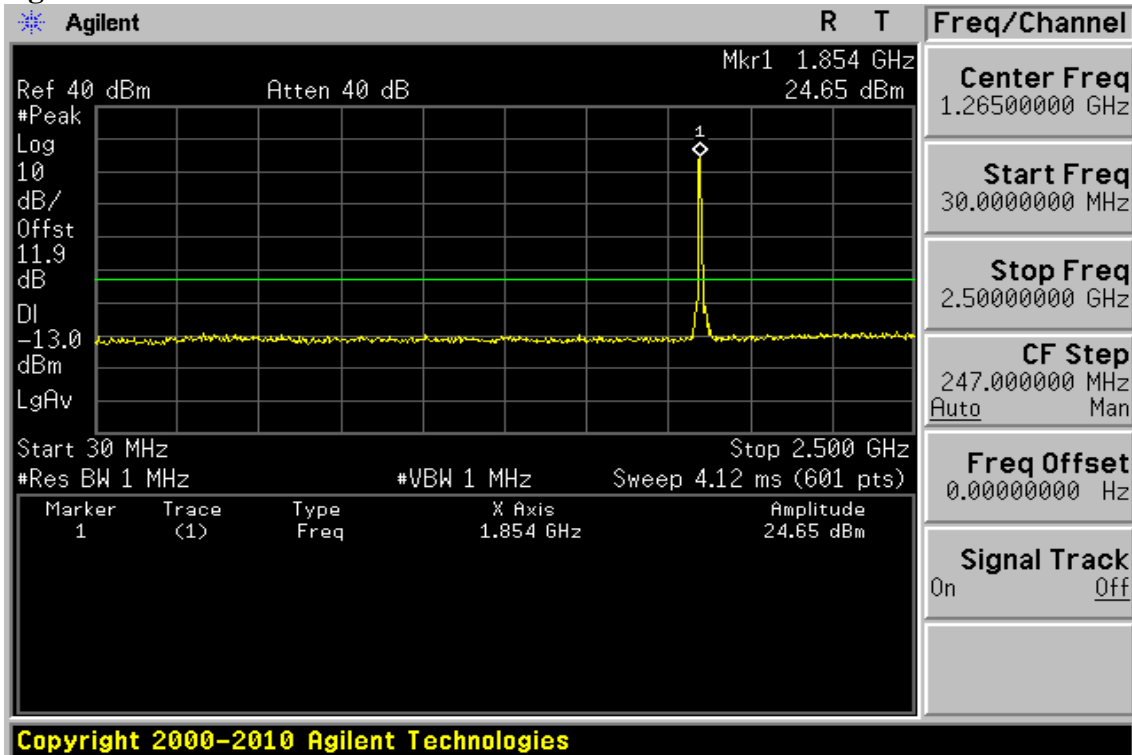


Figure 9-41: Out of Band emission at antenna terminals–HSUPA II Channel Lowest



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Figure 9-42: Out of Band emission at antenna terminals –HSUPA II Channel Mid

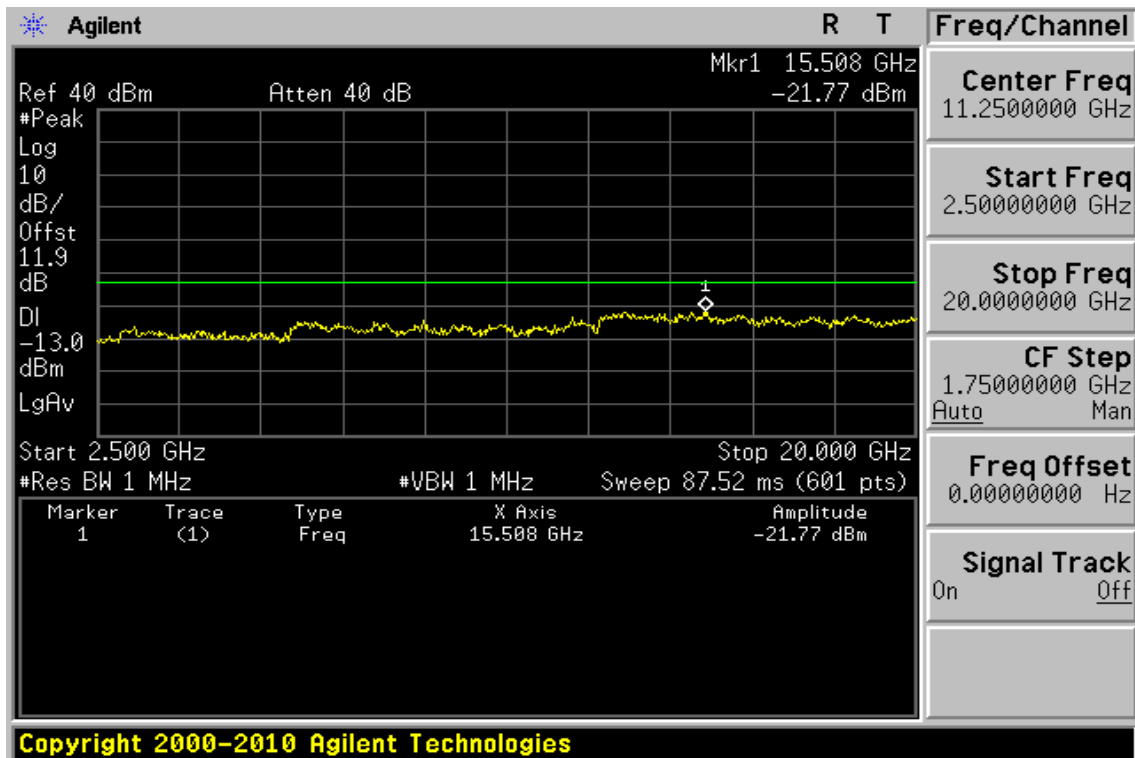
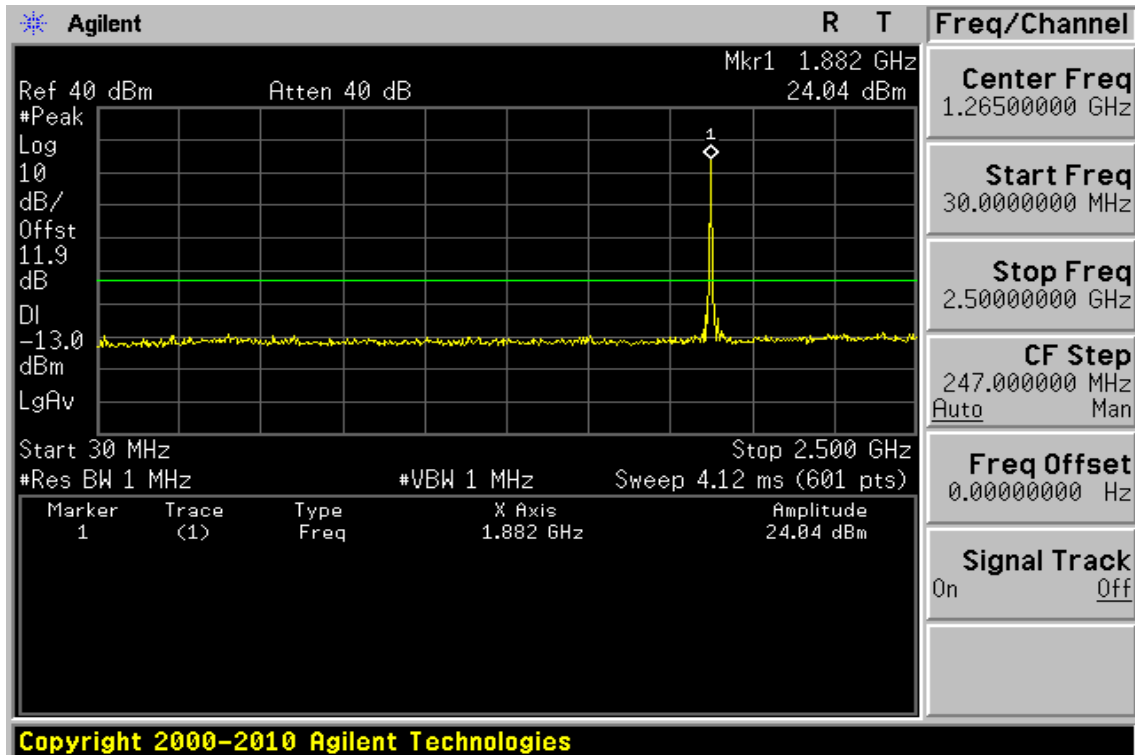


Figure 9-43: Out of Band emission at antenna terminals–HSUPA II Channel Highest

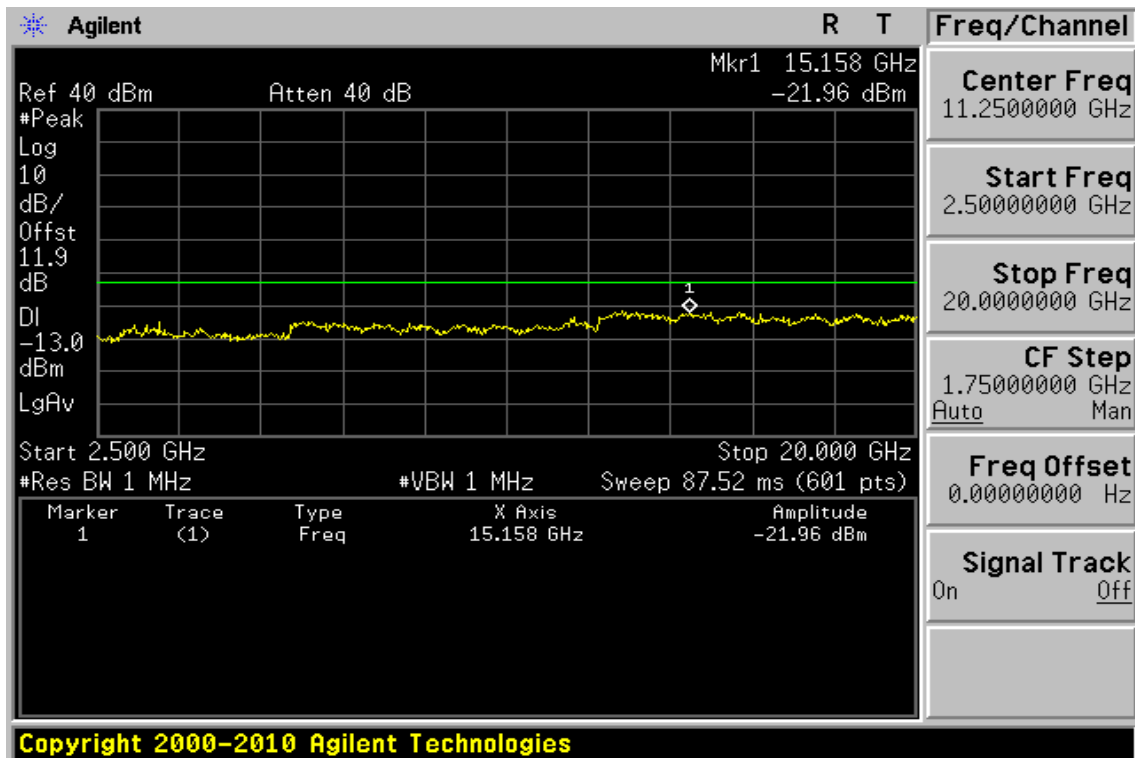
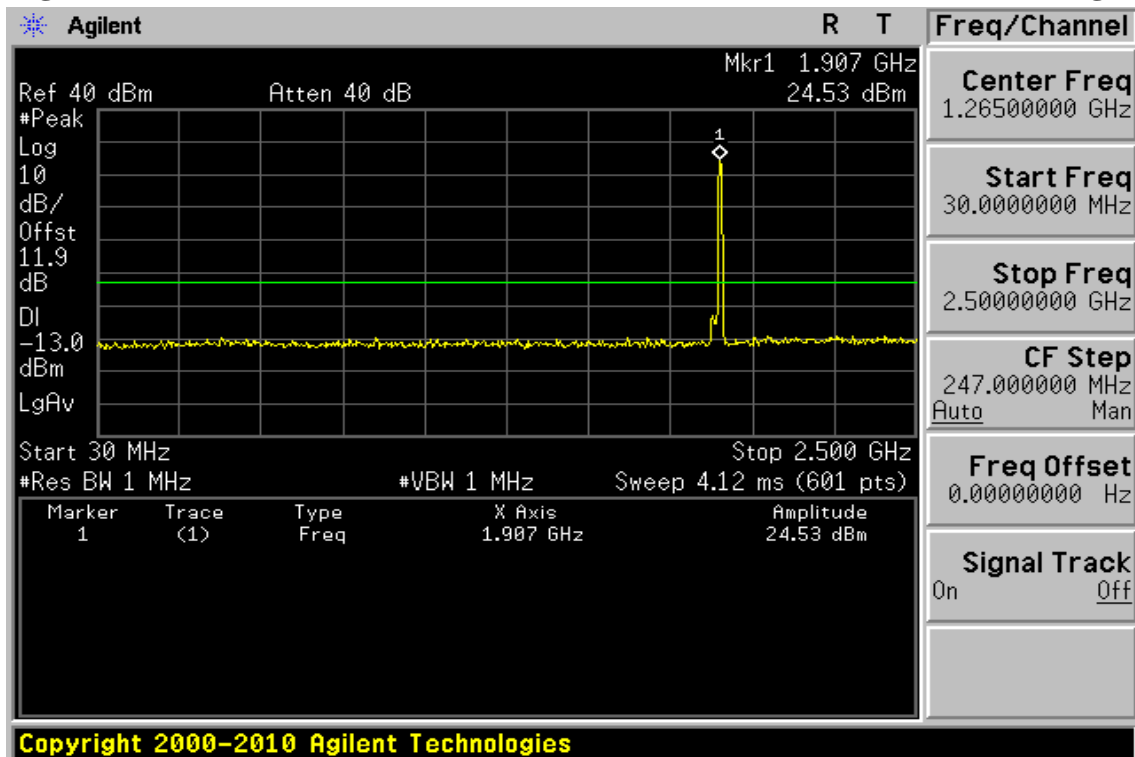


Figure 9-44: Band edge emission at antenna terminals –HSUPA II Channel Lowest

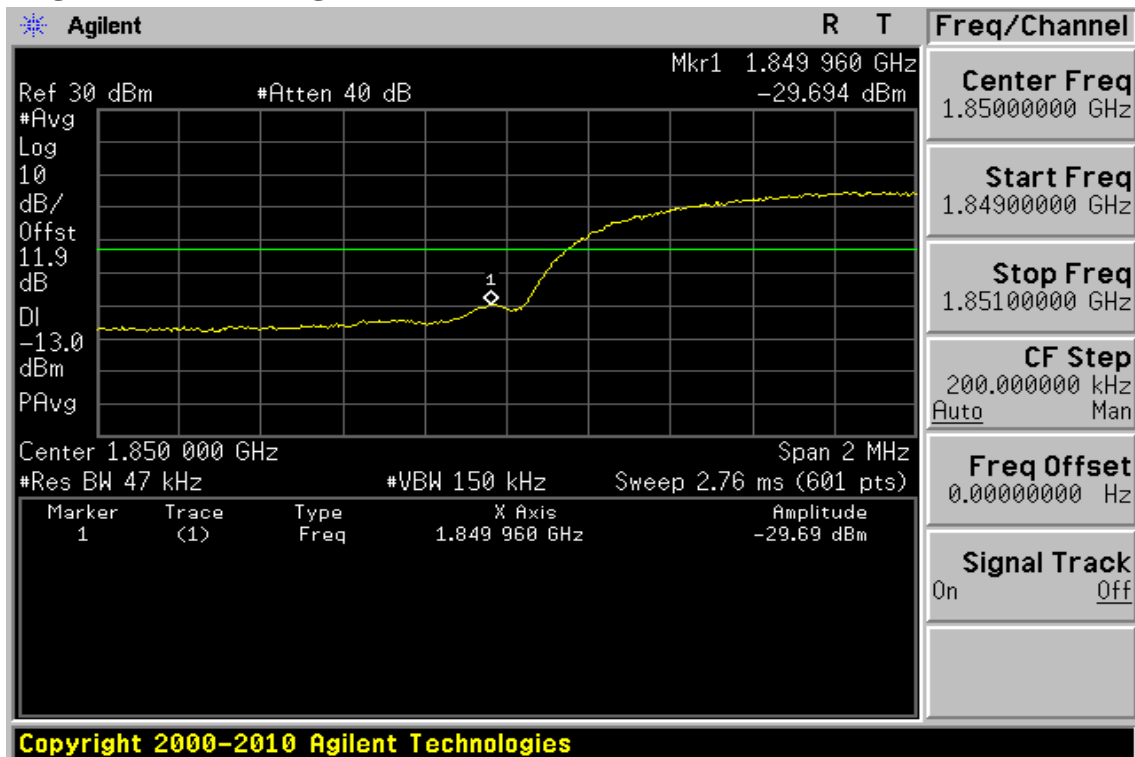
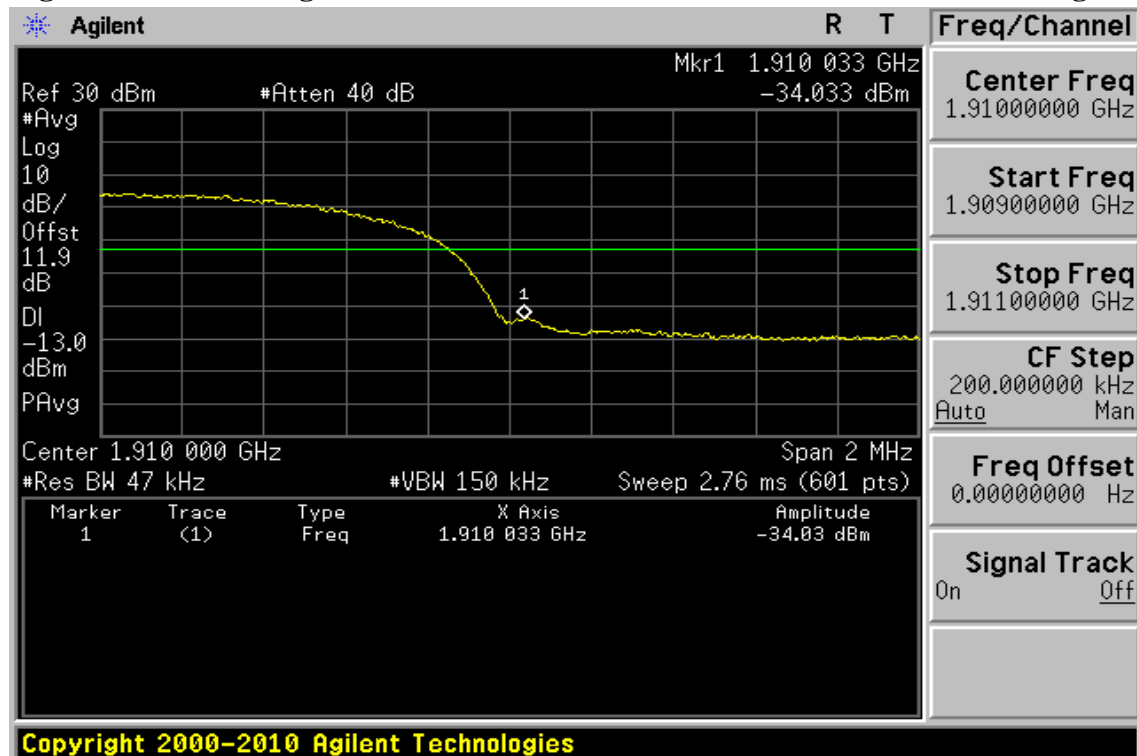
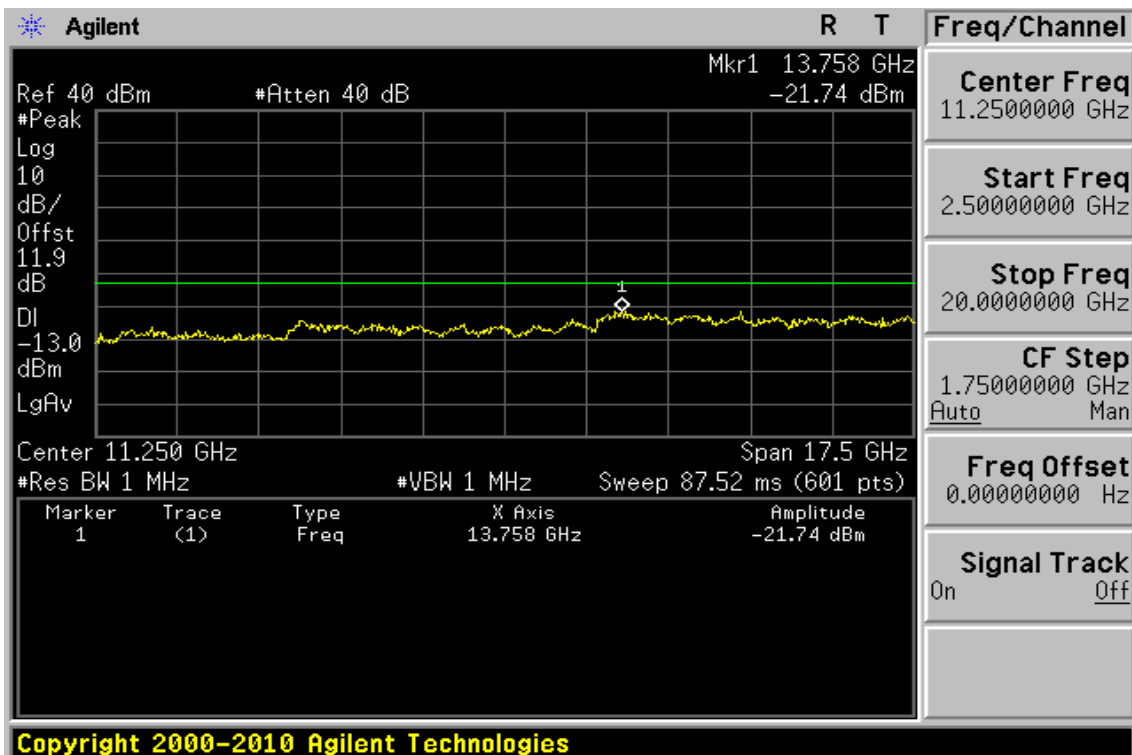
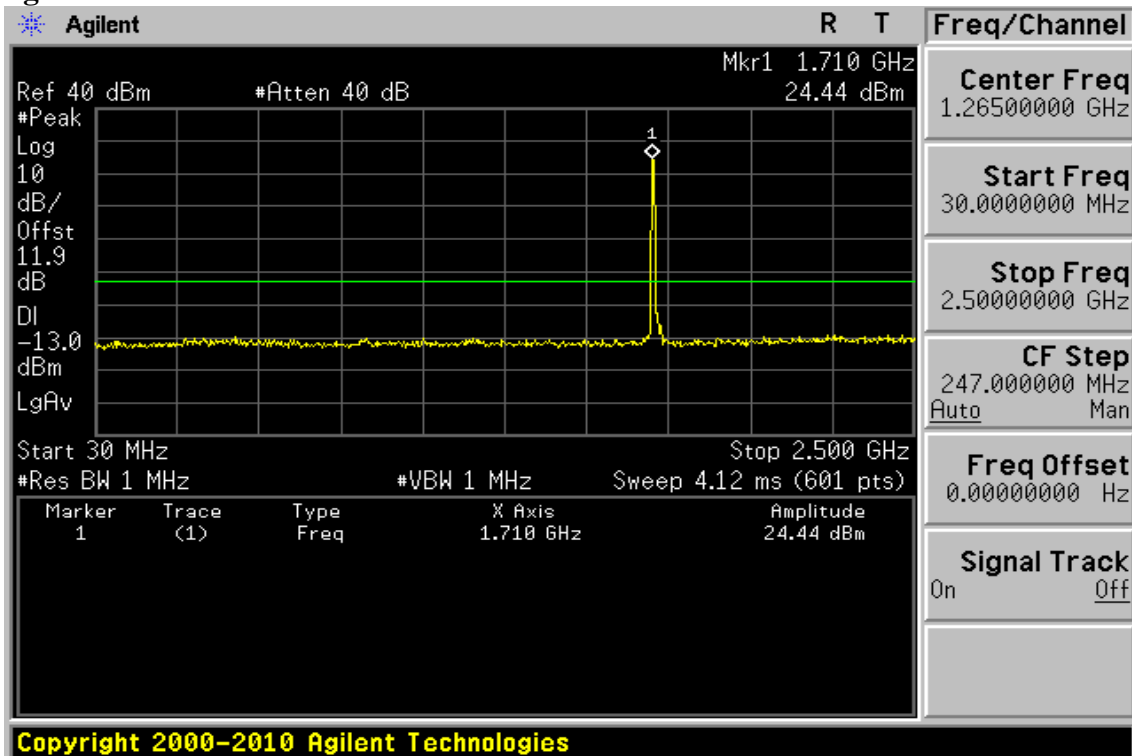


Figure 9-45: Band edge emission at antenna terminals –HSUPA II Channel Highest



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Figure 9-46: Out of Band emission at antenna terminals–HSUPA IV Channel Lowest



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Figure 9-47: Out of Band emission at antenna terminals –HSUPA IV Channel Mid

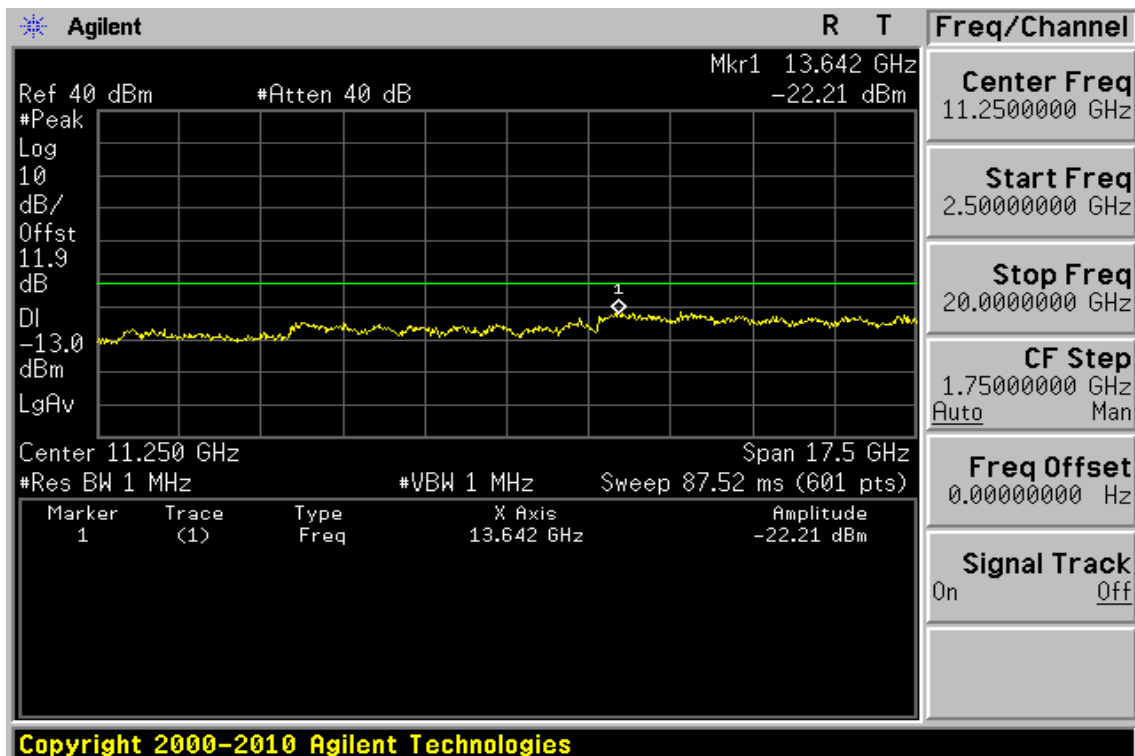
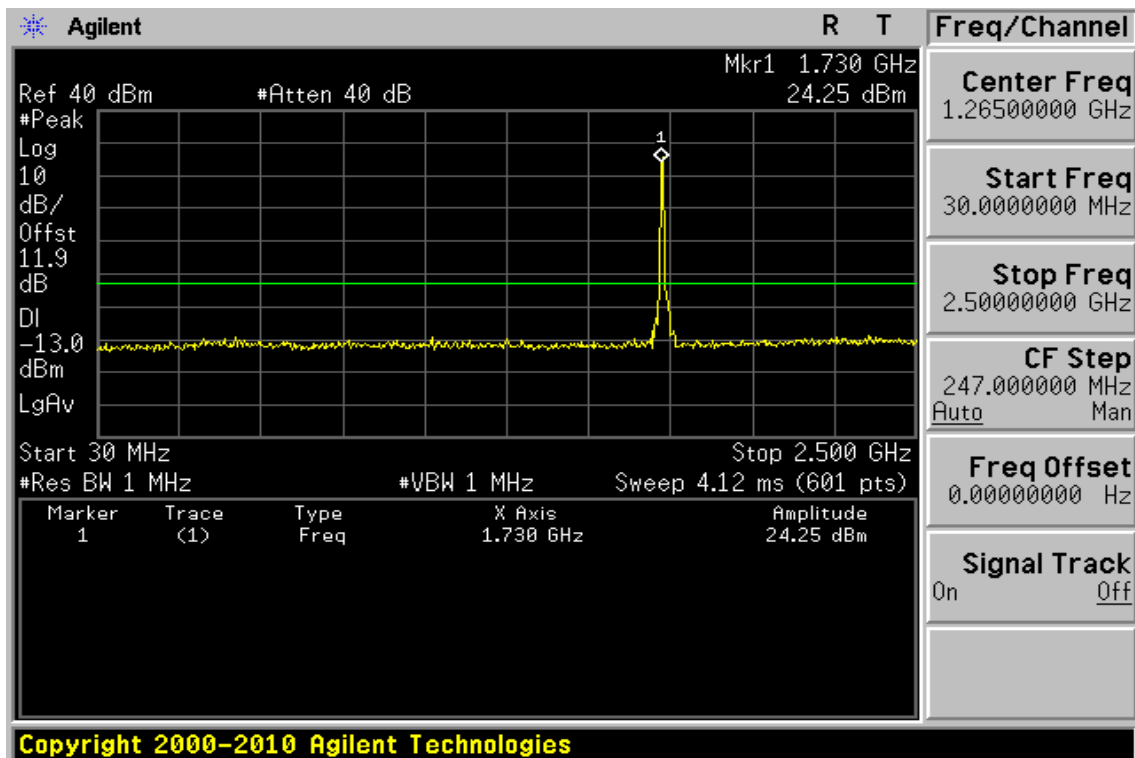
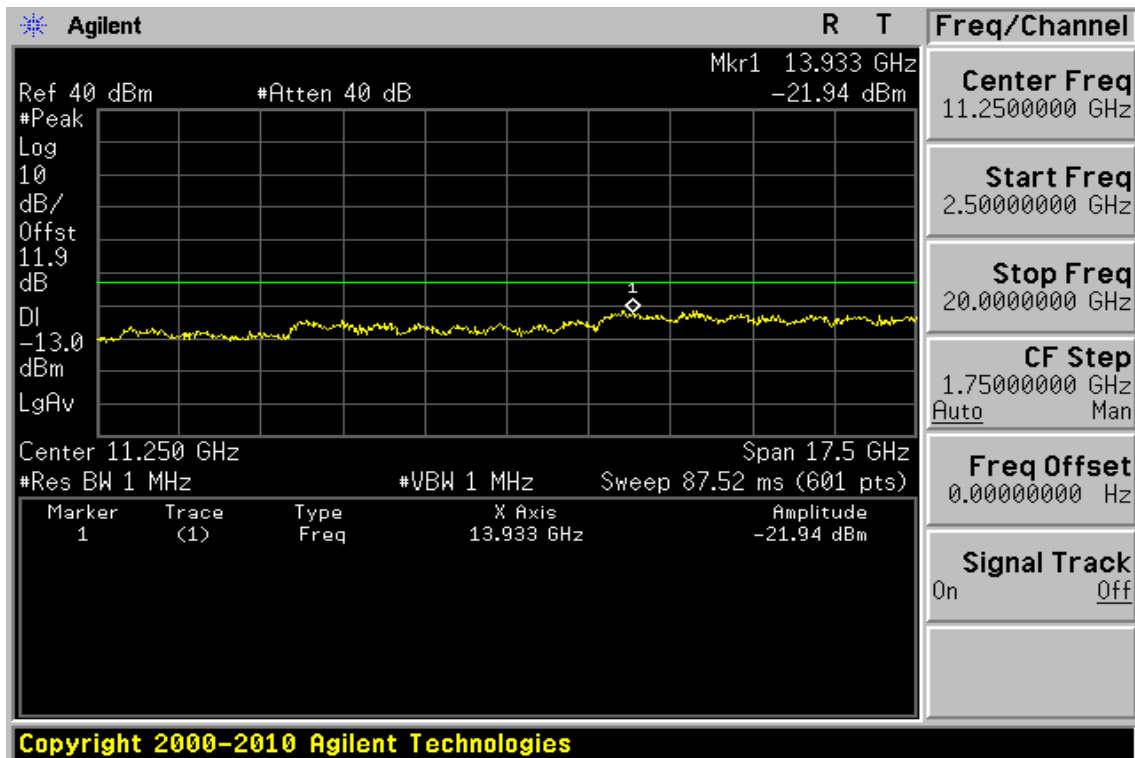
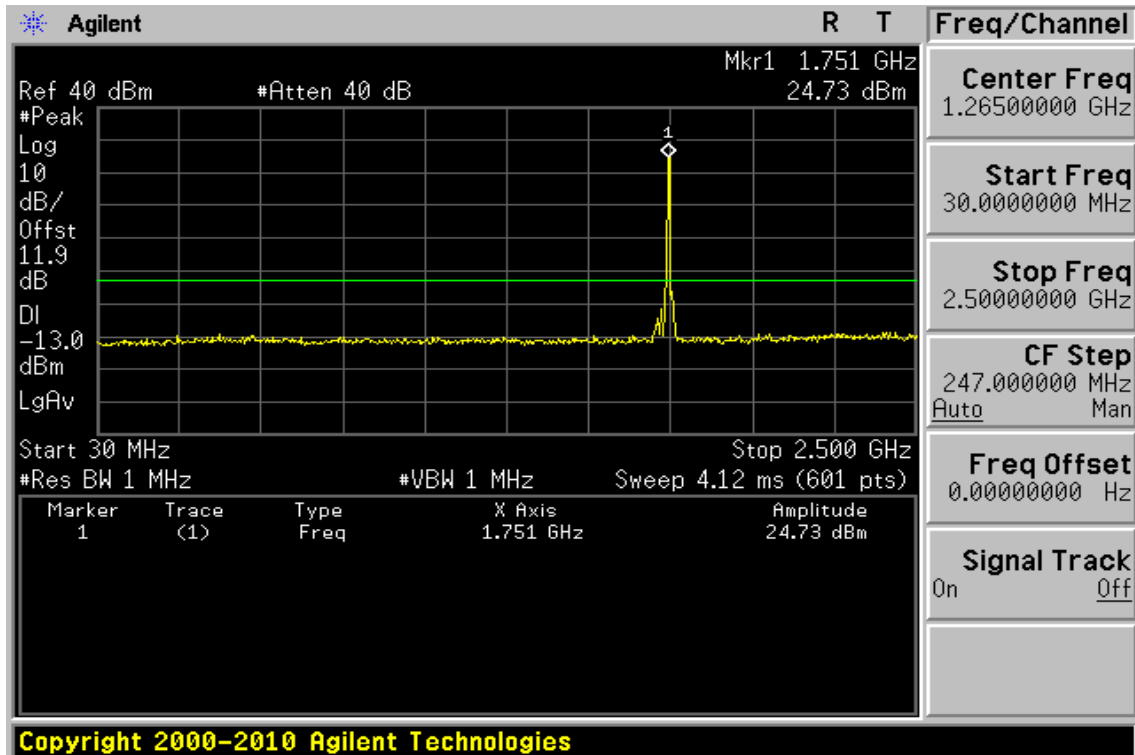


Figure 9-48: Out of Band emission at antenna terminals–HSUPA IV Channel Highest



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Figure 9-49: Band edge emission at antenna terminals –HSUPA IV Channel Lowest

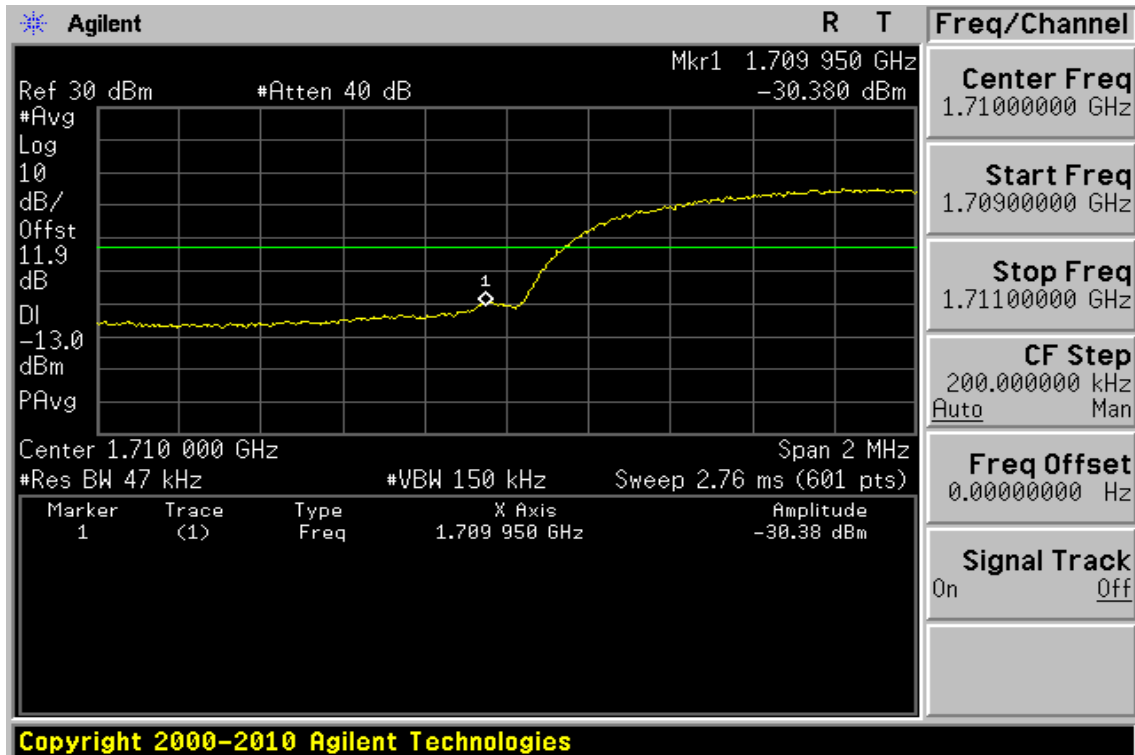
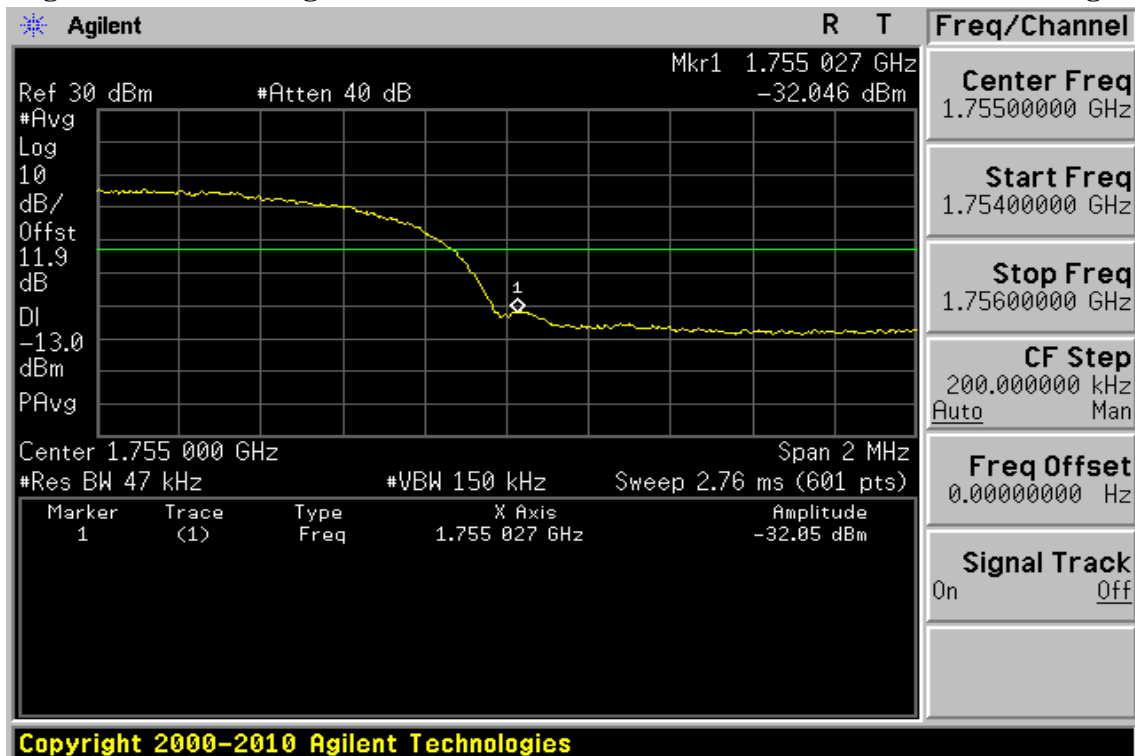
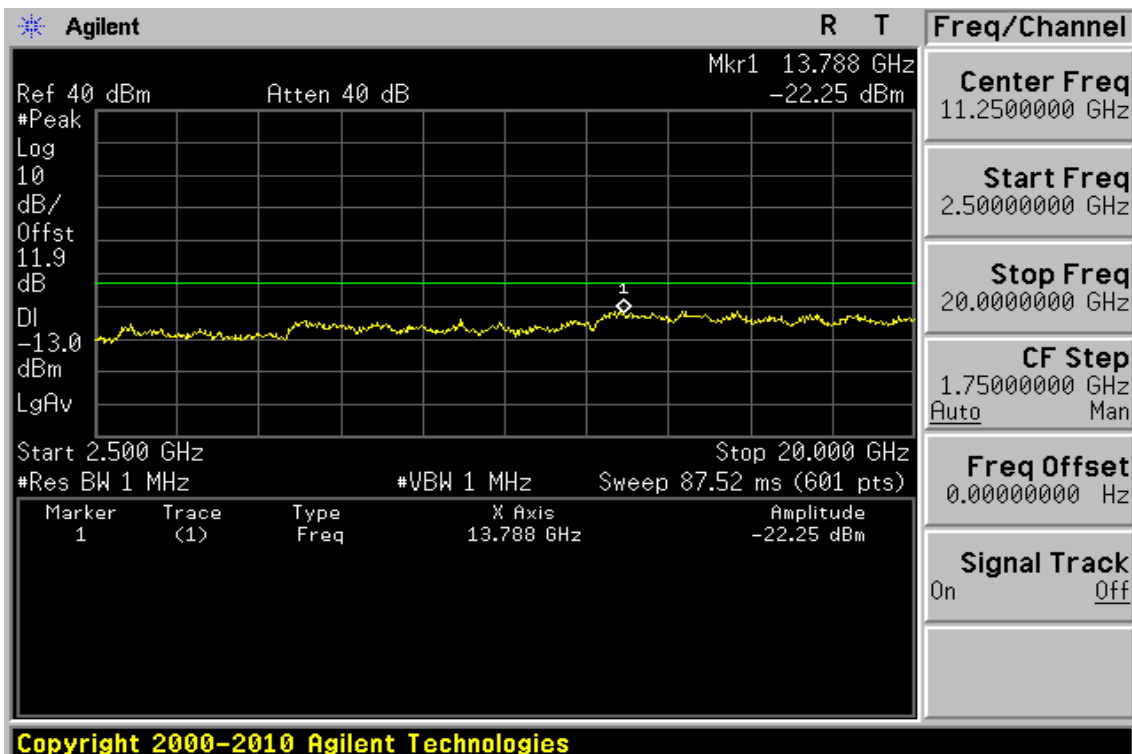
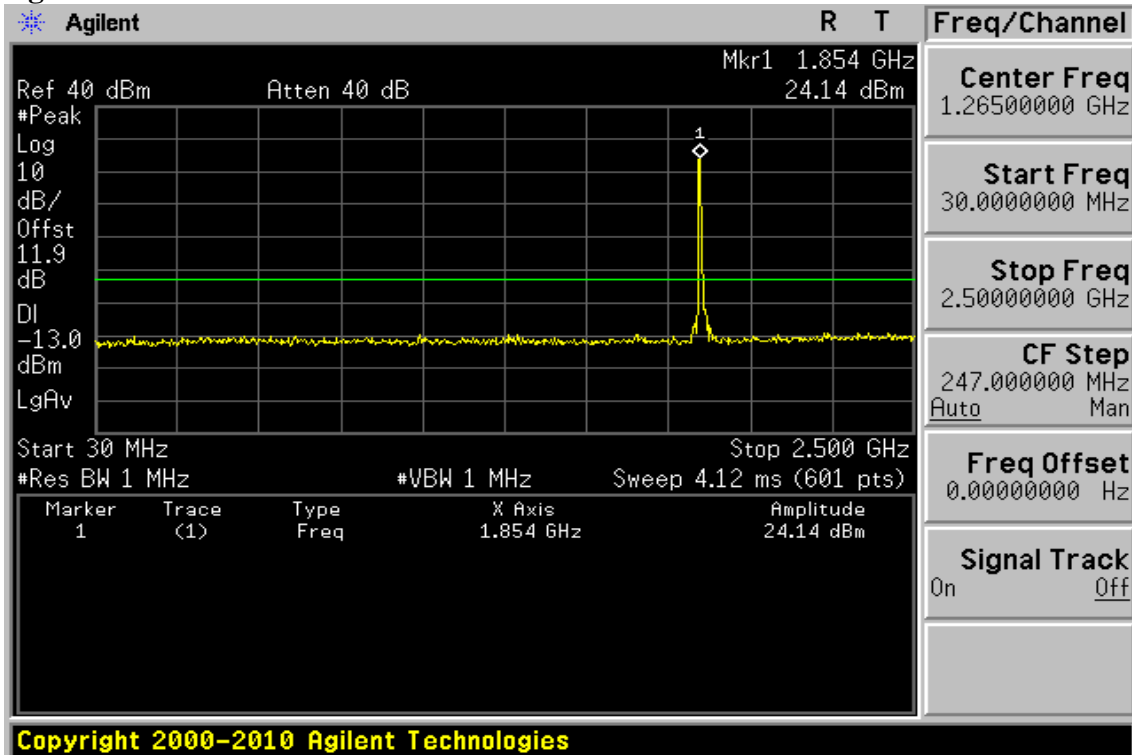


Figure 9-50: Band edge emission at antenna terminals –HSUPA IV Channel Highest



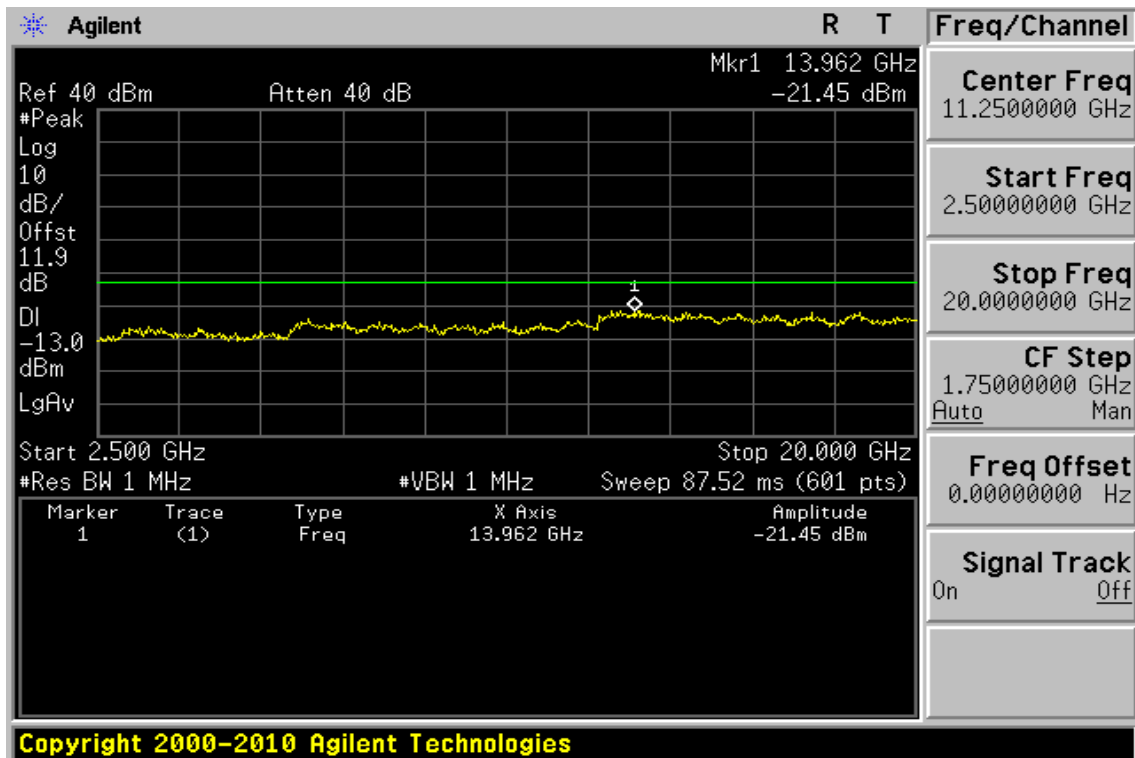
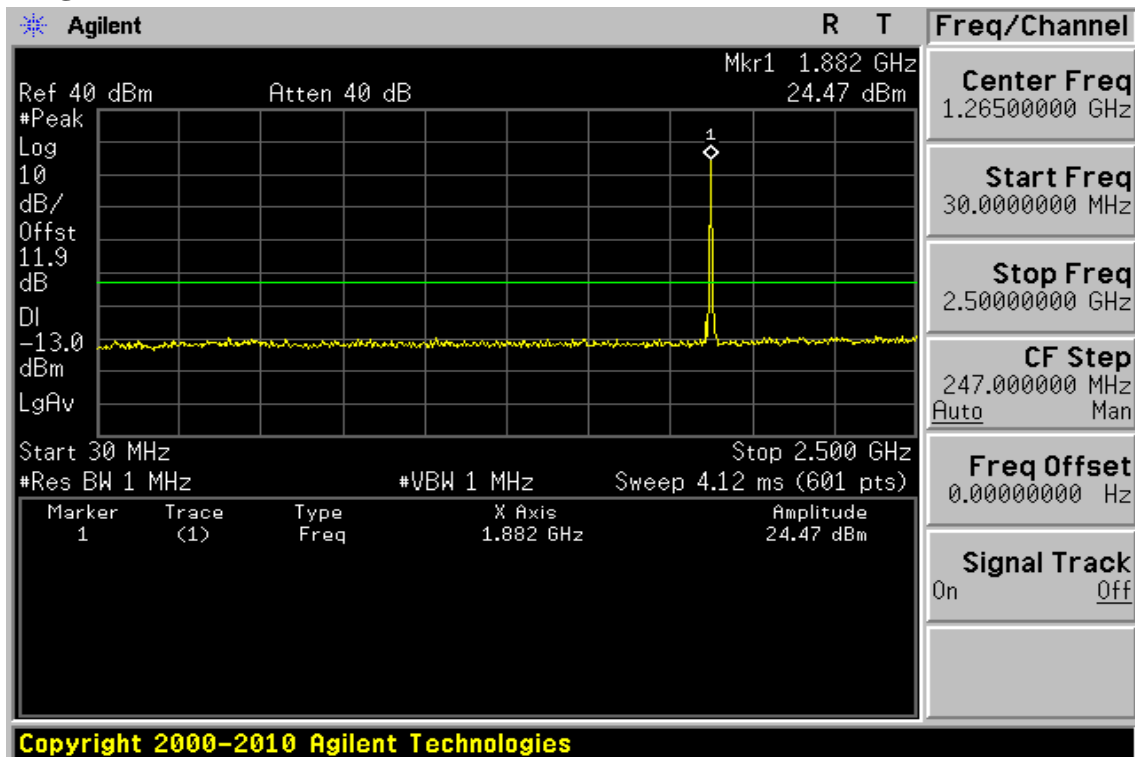
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Figure 9-51: Out of Band emission at antenna terminals–HSDPA II Channel Lowest



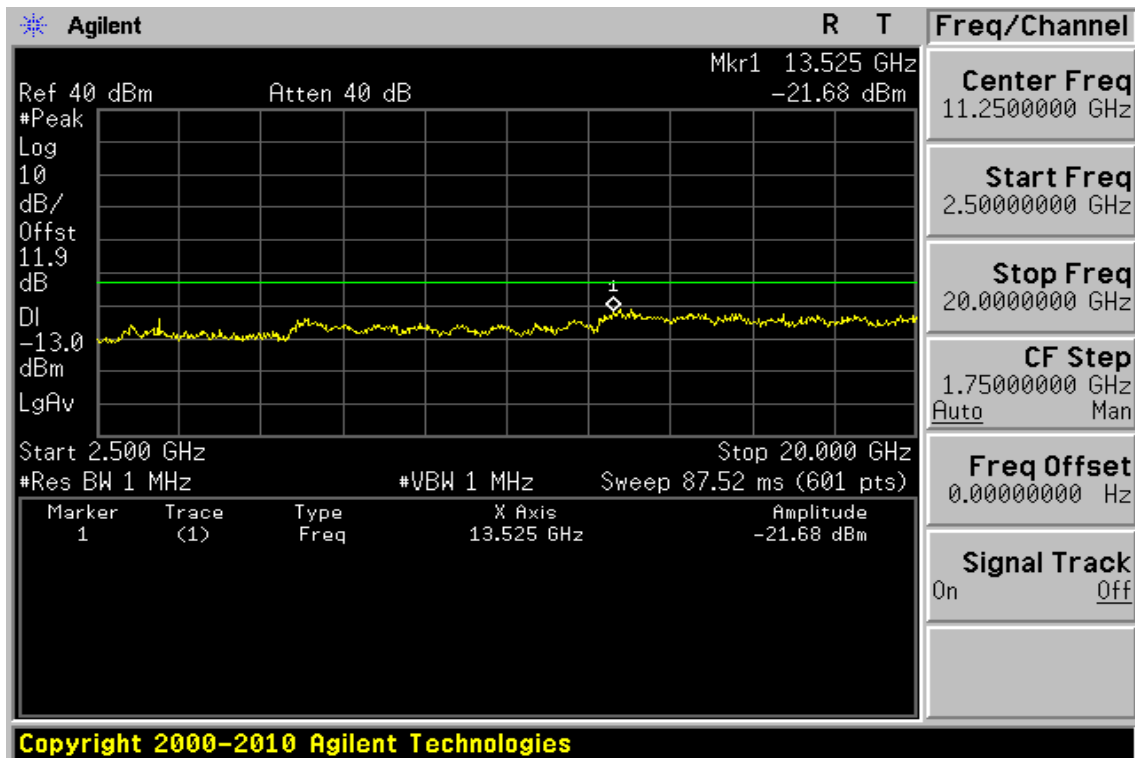
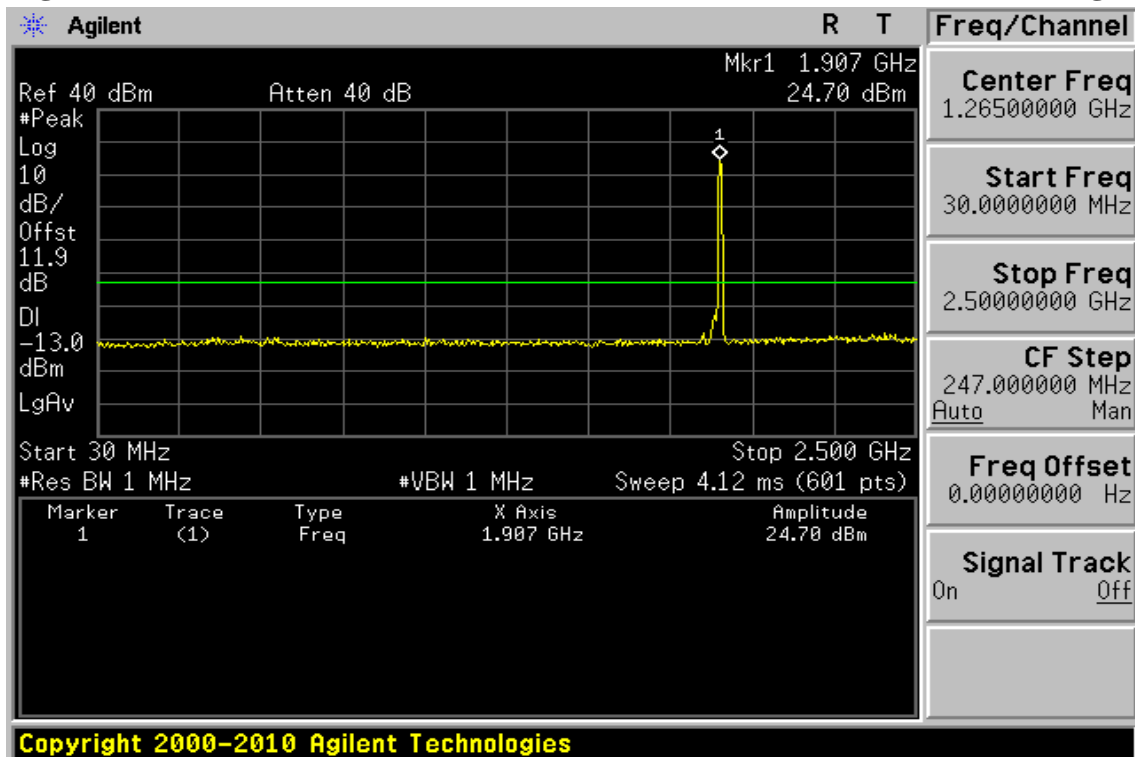
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Figure 9-52: Out of Band emission at antenna terminals –HSDPA II Channel Mid



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Figure 9-53: Out of Band emission at antenna terminals–HSDPA II Channel Highest



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Figure 9-54: Band edge emission at antenna terminals –HSDPA II Channel Lowest

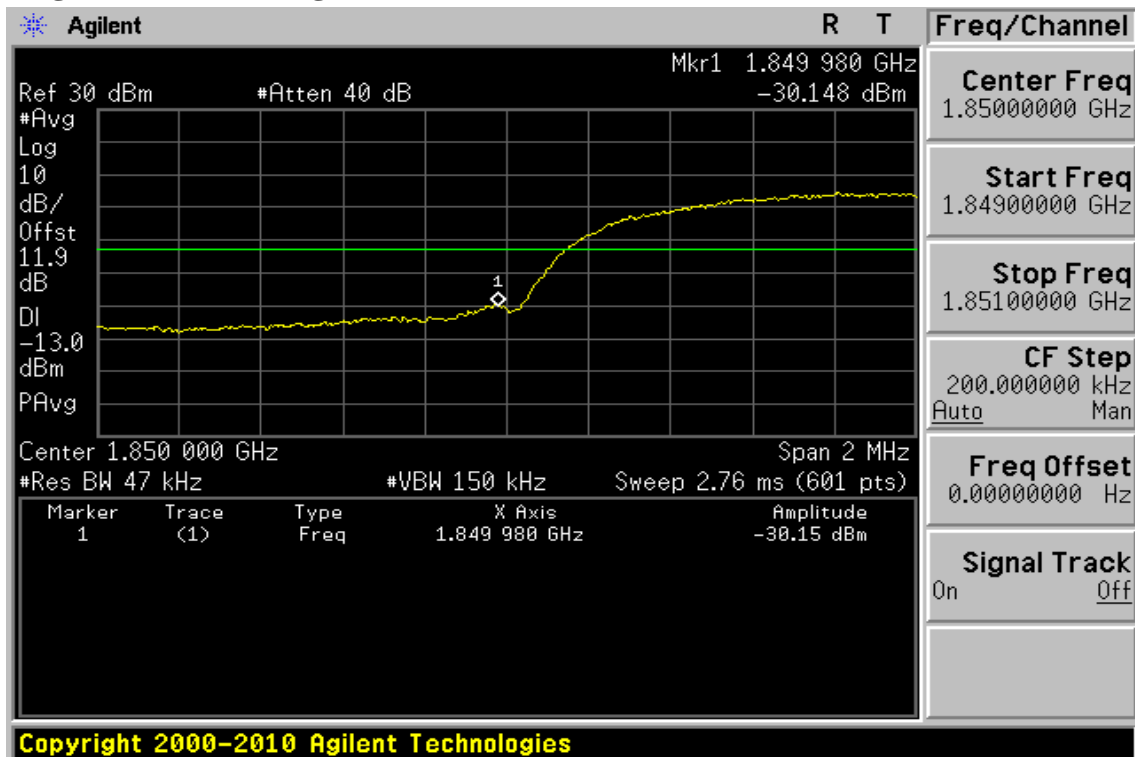
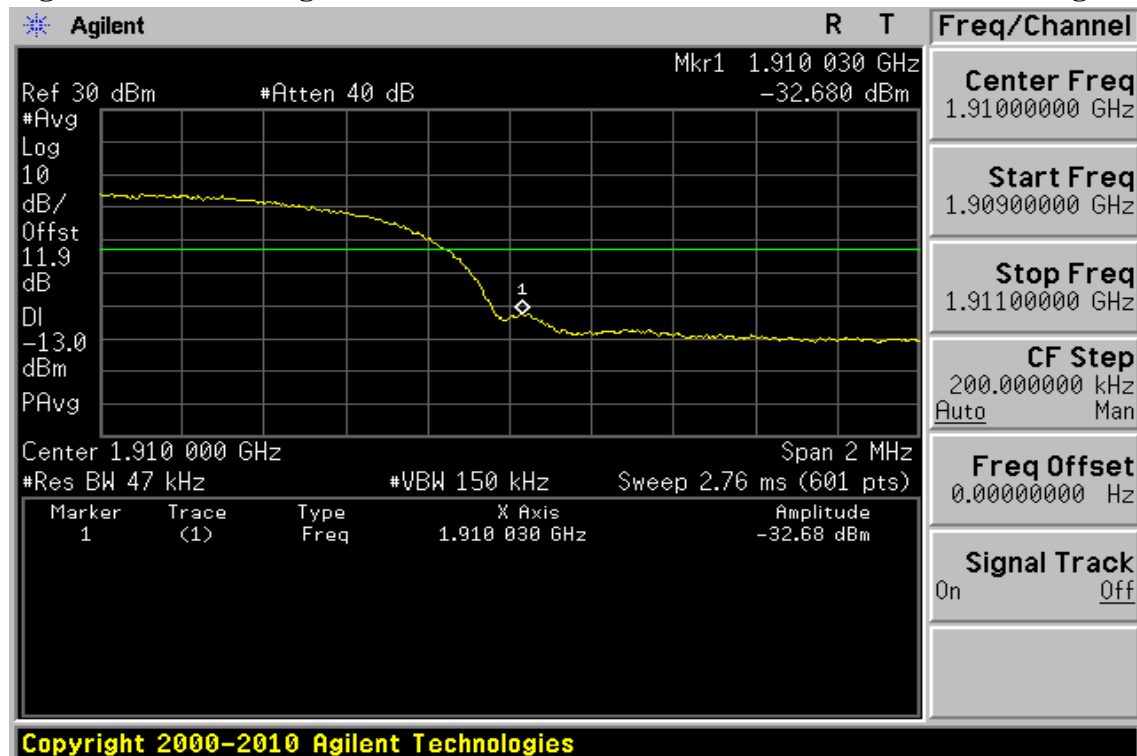
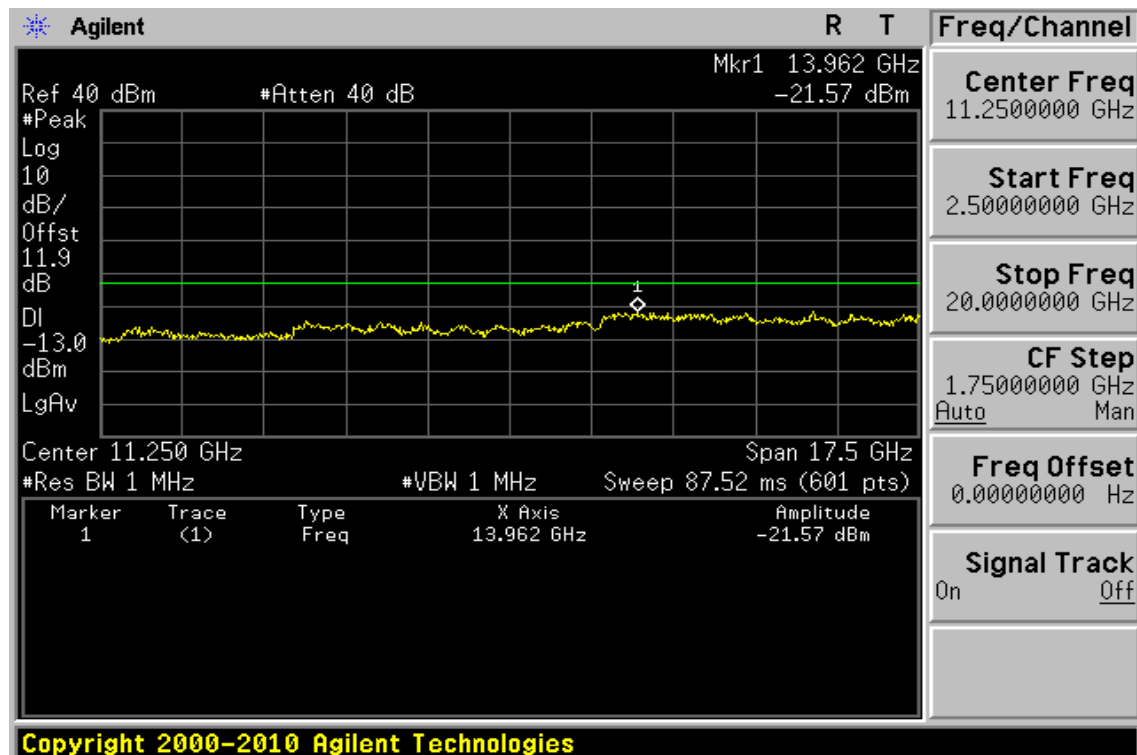
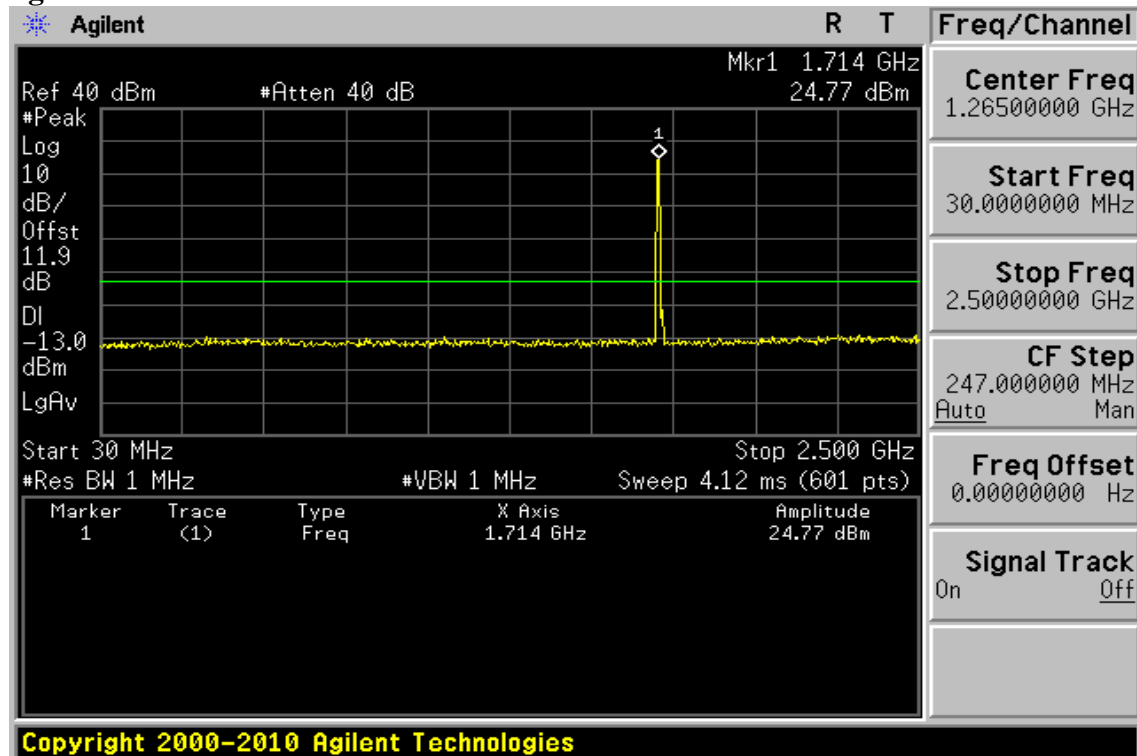


Figure 9-55: Band edge emission at antenna terminals –HSDPA II Channel Highest



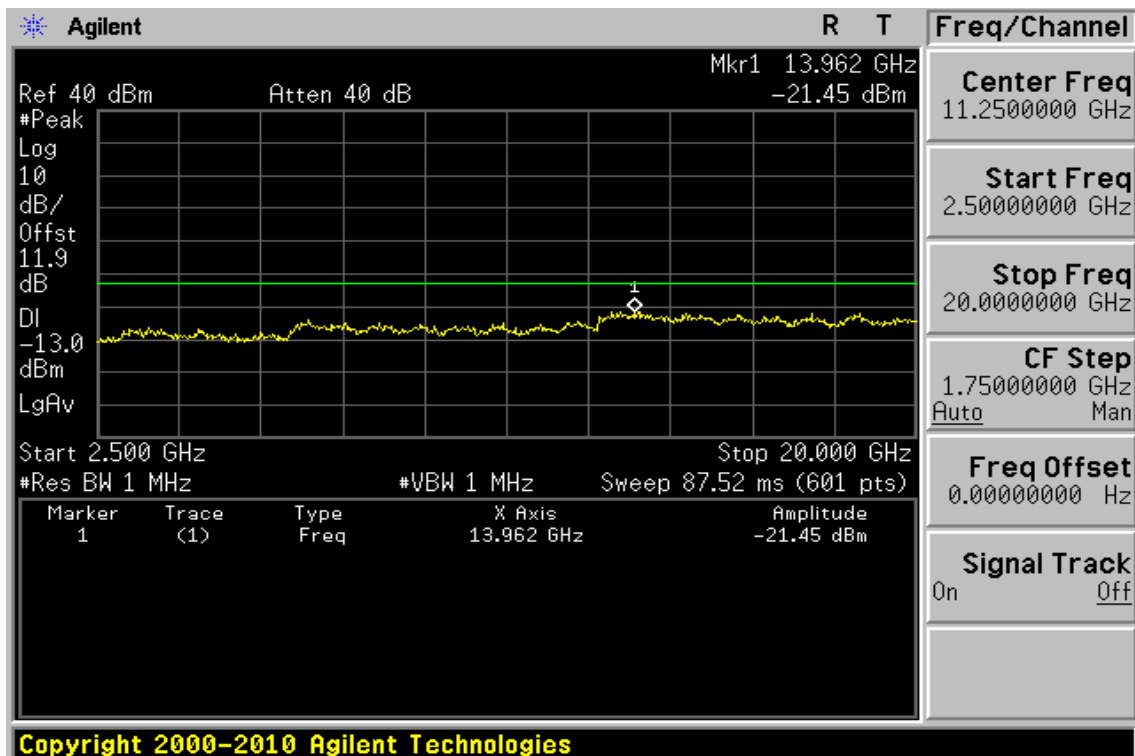
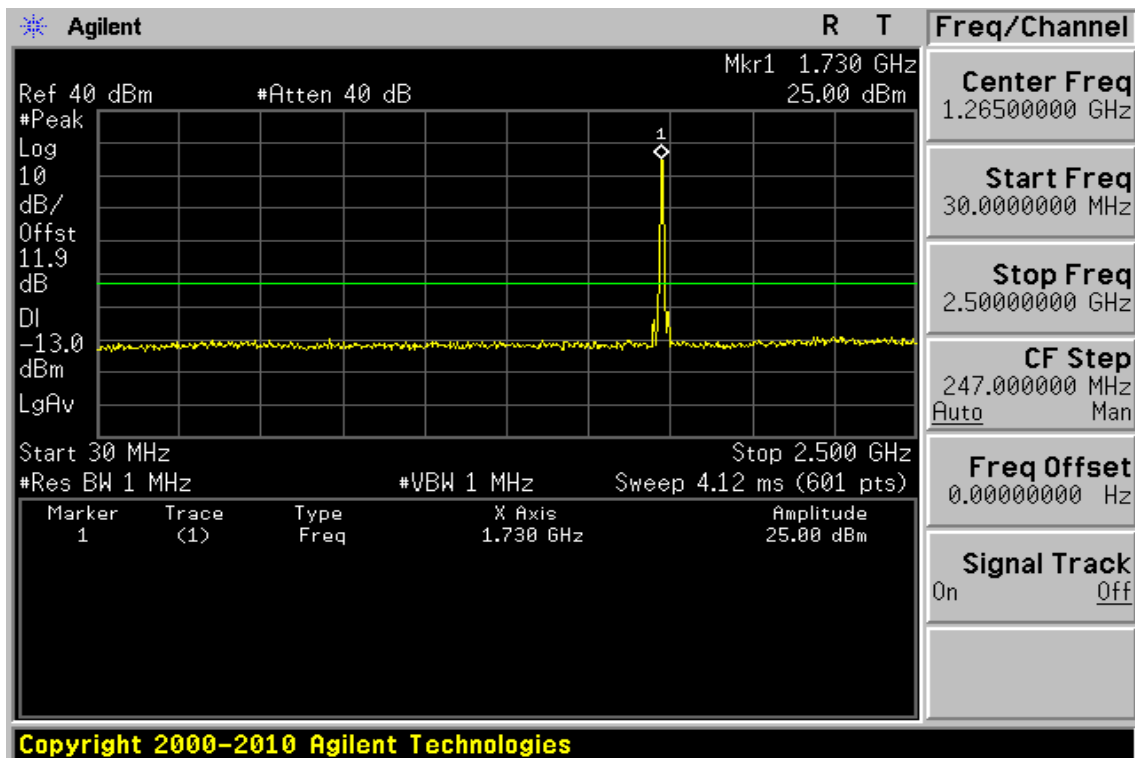
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Figure 9-56: Out of Band emission at antenna terminals–HSDPA IV Channel Lowest



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Figure 9-57: Out of Band emission at antenna terminals –HSDPA IV Channel Mid



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Figure 9-58: Out of Band emission at antenna terminals–HSDPA IV Channel Highest

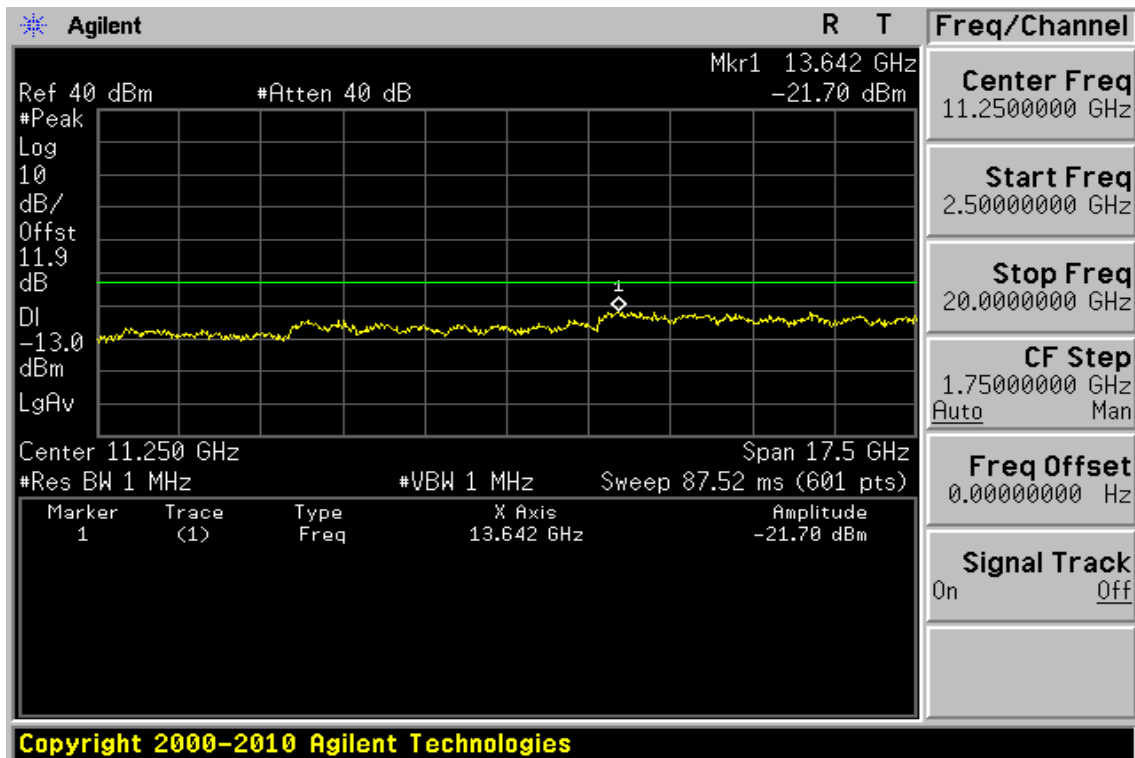
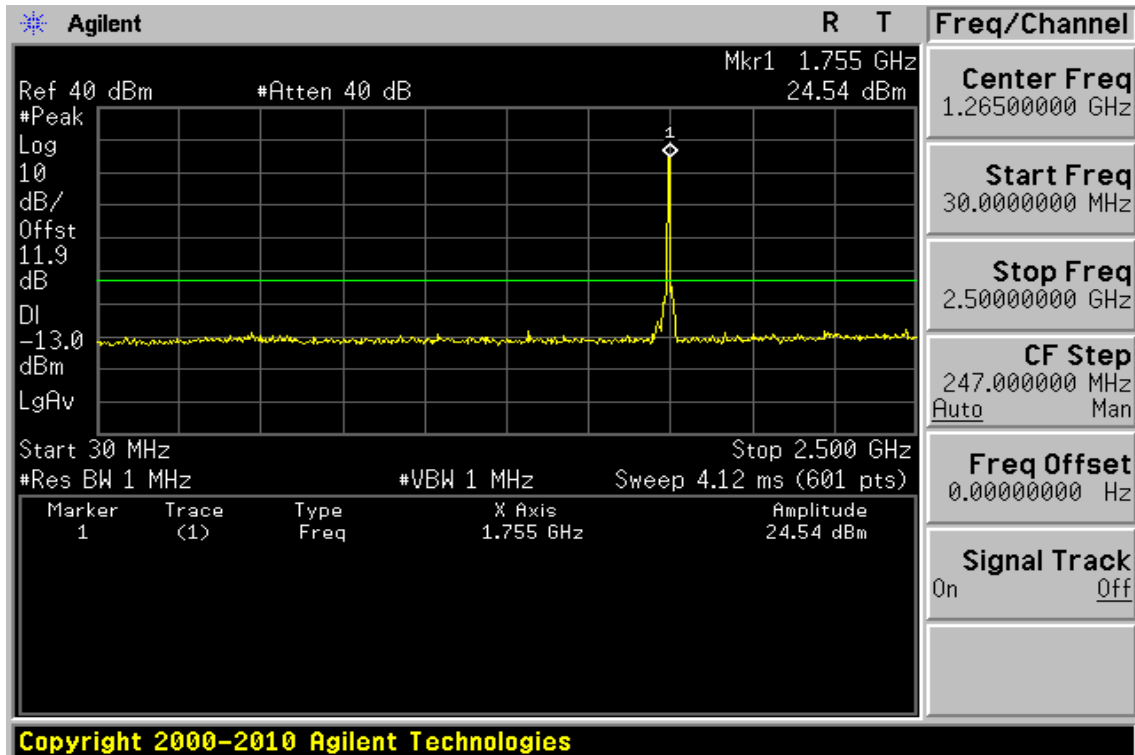


Figure 9-59: Bad edge emission at antenna terminals –HSDPA IV Channel Lowest

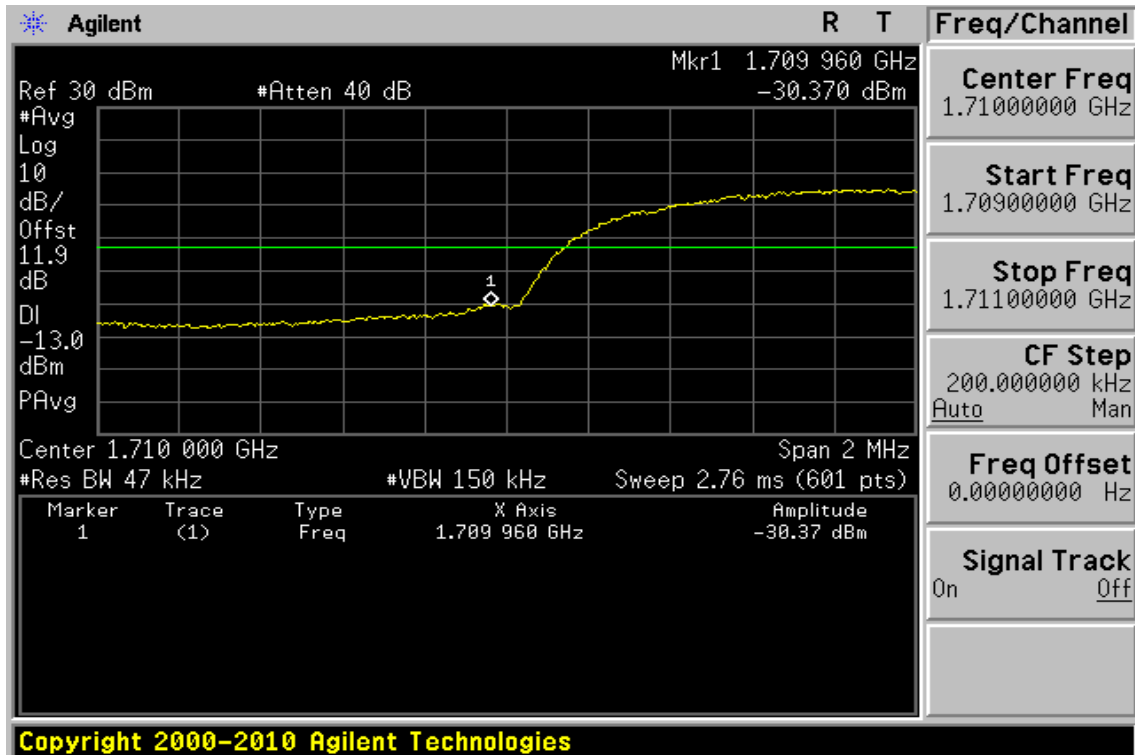


Figure 9-60: Band edge emission at antenna terminals –HSDPA IV Channel Highest



10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

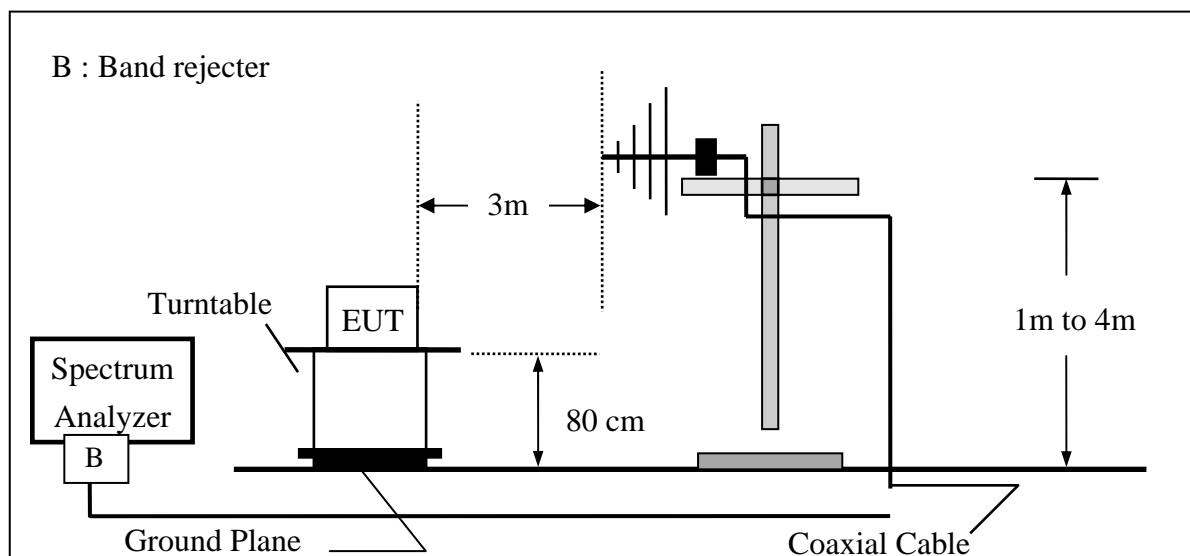
10.1. Standard Applicable:

According to FCC §2.1053,

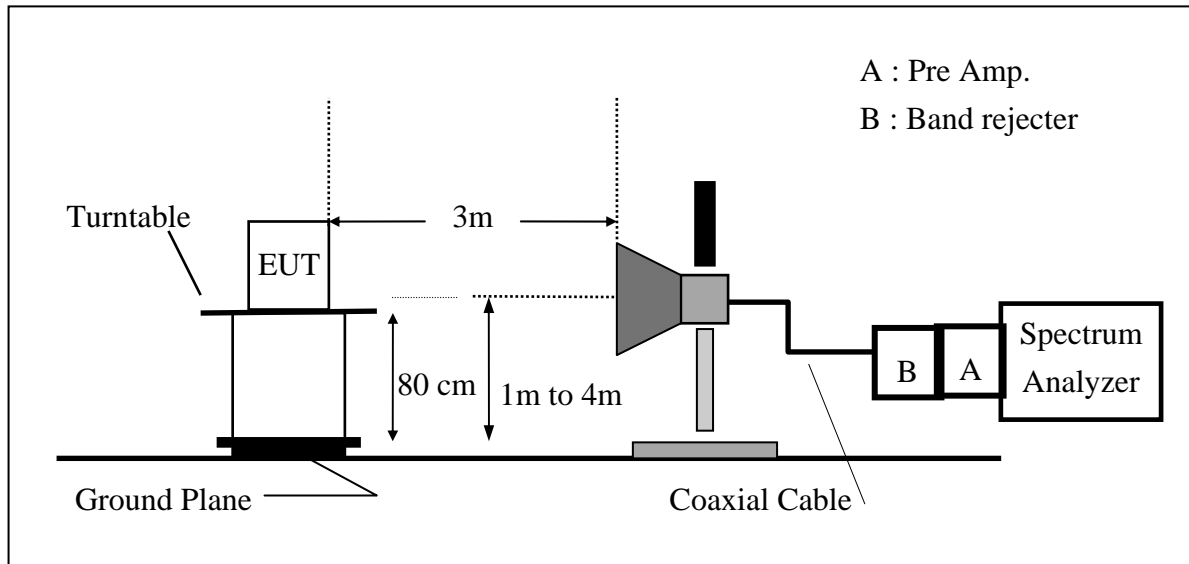
FCC §22.917(a), §24.238(a), §27.53(g) the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below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

10.2. EUT Setup (Block Diagram of Configuration):

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz

**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 frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

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

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

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

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

10.5. Measurement Result:

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Aug. 04, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
63.95	52.79	V	-58.71	-0.70	1.11	-60.52	-13.00	-47.52
163.86	40.25	V	-58.28	-7.81	1.62	-67.72	-13.00	-54.72
212.36	42.65	V	-58.66	-7.85	1.78	-68.29	-13.00	-55.29
291.90	40.90	V	-57.62	-7.92	2.14	-67.67	-13.00	-54.67
485.90	42.62	V	-51.46	-7.71	2.76	-61.94	-13.00	-48.94
516.94	39.02	V	-54.56	-7.73	2.85	-65.15	-13.00	-52.15
1648.40	37.48	V	-66.92	9.29	5.23	-62.86	-13.00	-49.86
2472.60	49.77	V	-51.24	10.08	6.53	-47.69	-13.00	-34.69
3296.80	---	V		12.17	7.71		-13.00	
4121.00	---	V		12.61	8.86		-13.00	
4945.20	---	V		12.65	9.74		-13.00	
5769.40	---	V		13.55	10.54		-13.00	
6593.60	---	V		12.05	11.30		-13.00	
7417.80	---	V		11.49	12.10		-13.00	
8242.00	---	V		11.48	12.71		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Aug. 04, 2011
Fundamental Frequency	: 824.20 MHz	Test By:	Nick
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	53.45	H	-58.50	-0.89	1.13	-60.52	-13.00	-47.52
167.74	42.93	H	-56.22	-7.81	1.63	-65.66	-13.00	-52.66
219.15	46.98	H	-53.74	-7.86	1.82	-63.42	-13.00	-50.42
299.66	45.36	H	-52.31	-7.92	2.17	-62.40	-13.00	-49.40
451.95	42.58	H	-51.29	-7.70	2.67	-61.66	-13.00	-48.66
471.35	42.56	H	-51.14	-7.71	2.72	-61.57	-13.00	-48.57
1648.40	39.25	H	-65.15	9.29	5.23	-61.09	-13.00	-48.09
2472.60	54.06	H	-46.85	10.08	6.53	-43.30	-13.00	-30.30
3296.80	---	H		12.17	7.71		-13.00	
4121.00	---	H		12.61	8.86		-13.00	
4945.20	---	H		12.65	9.74		-13.00	
5769.40	---	H		13.55	10.54		-13.00	
6593.60	---	H		12.05	11.30		-13.00	
7417.80	---	H		11.49	12.10		-13.00	
8242.00	---	H		11.48	12.71		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E2 Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 836.60 MHz

Test By: Nick

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
68.80	54.90	V	-56.84	-1.01	1.15	-58.99	-13.00	-45.99
224.00	42.14	V	-58.73	-7.86	1.84	-68.44	-13.00	-55.44
267.65	47.72	V	-51.59	-7.90	2.05	-61.55	-13.00	-48.55
291.90	46.91	V	-51.61	-7.92	2.14	-61.66	-13.00	-48.66
497.54	44.76	V	-49.37	-7.72	2.79	-59.88	-13.00	-46.88
553.80	39.45	V	-52.82	-7.76	2.97	-63.55	-13.00	-50.55
1673.20	43.41	V	-61.15	9.36	5.27	-57.05	-13.00	-44.05
2509.80	44.54	V	-56.24	10.09	6.58	-52.74	-13.00	-39.74
3346.40	---	V		12.28	7.79		-13.00	
4183.00	---	V		12.62	8.93		-13.00	
5019.60	---	V		12.67	9.81		-13.00	
5856.20	---	V		13.68	10.62		-13.00	
6692.80	---	V		11.95	11.39		-13.00	
7529.40	---	V		11.45	12.20		-13.00	
8366.00	---	V		11.59	12.81		-13.00	

Remark:

- 1 The emission behaviors belongs to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP\ (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid E2 Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 836.60 MHz

Test By: Nick

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	56.13	H	-55.82	-0.89	1.13	-57.84	-13.00	-44.84
219.15	42.51	H	-58.21	-7.86	1.82	-67.89	-13.00	-54.89
280.26	42.06	H	-56.22	-7.91	2.10	-66.22	-13.00	-53.22
309.36	41.62	H	-55.95	-7.87	2.21	-66.03	-13.00	-53.03
458.74	39.34	H	-54.47	-7.70	2.68	-64.86	-13.00	-51.86
519.85	37.21	H	-55.55	-7.74	2.86	-66.15	-13.00	-53.15
1673.20	50.30	H	-54.26	9.36	5.27	-50.16	-13.00	-37.16
2509.80	49.26	H	-51.44	10.09	6.58	-47.94	-13.00	-34.94
3346.40	---	H		12.28	7.79		-13.00	
4183.00	---	H		12.62	8.93		-13.00	
5019.60	---	H		12.67	9.81		-13.00	
5856.20	---	H		13.68	10.62		-13.00	
6692.80	---	H		11.95	11.39		-13.00	
7529.40	---	H		11.45	12.20		-13.00	
8366.00	---	H		11.59	12.81		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + Antenna \text{ Gain (dBd/dBi)} - Cable \text{ loss (dB)}$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E2 Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 848.80 MHz

Test By: Nick

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	56.80	V	-54.84	-0.89	1.13	-56.86	-13.00	-43.86
228.85	44.12	V	-56.57	-7.87	1.87	-66.31	-13.00	-53.31
267.65	49.37	V	-49.94	-7.90	2.05	-59.90	-13.00	-46.90
299.66	44.38	V	-53.88	-7.92	2.17	-63.97	-13.00	-50.97
478.14	42.39	V	-51.66	-7.71	2.74	-62.11	-13.00	-49.11
548.95	37.63	V	-54.89	-7.76	2.96	-65.61	-13.00	-52.61
1697.60	41.13	V	-63.41	9.44	5.31	-59.28	-13.00	-46.28
2546.40	41.14	V	-59.50	10.20	6.63	-55.94	-13.00	-42.94
3395.20	---	V		12.38	7.87		-13.00	
4244.00	---	V		12.63	9.00		-13.00	
5092.80	---	V		12.74	9.88		-13.00	
5941.60	---	V		13.81	10.70		-13.00	
6790.40	---	V		11.86	11.48		-13.00	
7639.20	---	V		11.40	12.27		-13.00	
8488.00	---	V		11.70	12.91		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High E2 Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 848.80 MHz

Test By: Nick

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	54.26	H	-57.69	-0.89	1.13	-59.71	-13.00	-46.71
204.60	45.30	H	-56.13	-7.84	1.74	-65.71	-13.00	-52.71
219.15	42.40	H	-58.32	-7.86	1.82	-68.00	-13.00	-55.00
282.20	42.31	H	-55.91	-7.91	2.11	-65.92	-13.00	-52.92
303.54	41.83	H	-55.80	-7.90	2.18	-65.88	-13.00	-52.88
449.04	37.03	H	-56.91	-7.70	2.66	-67.27	-13.00	-54.27
1697.60	50.99	H	-53.36	9.44	5.31	-49.23	-13.00	-36.23
2546.40	46.51	H	-54.09	10.20	6.63	-50.53	-13.00	-37.53
3395.20	---	H		12.38	7.87		-13.00	
4244.00	---	H		12.63	9.00		-13.00	
5092.80	---	H		12.74	9.88		-13.00	
5941.60	---	H		13.81	10.70		-13.00	
6790.40	---	H		11.86	11.48		-13.00	
7639.20	---	H		11.40	12.27		-13.00	
8488.00	---	H		11.70	12.91		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode : TX CH Low E2 Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1850.20MHz

Test By: Nick

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	52.44	V	-59.20	-0.89	1.13	-61.22	-13.00	-48.22
196.84	43.23	V	-58.27	-7.84	1.70	-67.81	-13.00	-54.81
253.10	42.23	V	-57.56	-7.89	2.00	-67.45	-13.00	-54.45
291.90	41.88	V	-56.64	-7.92	2.14	-66.69	-13.00	-53.69
451.95	39.05	V	-54.89	-7.70	2.67	-65.25	-13.00	-52.25
500.45	40.05	V	-54.08	-7.72	2.80	-64.60	-13.00	-51.60
3700.40	---	V		12.61	8.31		-13.00	
5550.60	37.21	V	-53.63	13.23	10.33	-50.73	-13.00	-37.73
7400.80	---	V		11.50	12.08		-13.00	
9251.00	---	V		11.92	13.50		-13.00	
11101.20	---	V		11.66	15.11		-13.00	
12951.40	---	V		13.63	16.60		-13.00	
14801.60	---	V		12.76	17.95		-13.00	
16651.80	---	V		15.92	19.14		-13.00	
18502.00	---	V		18.75	10.40		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode : TX CH Low E2 Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1850.20MHz

Test By: Nick

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
78.50	51.90	H	-60.49	-2.25	1.21	-63.95	-13.00	-50.95
163.86	39.99	H	-58.86	-7.81	1.62	-68.29	-13.00	-55.29
241.46	40.79	H	-58.85	-7.88	1.94	-68.67	-13.00	-55.67
272.50	45.86	H	-52.66	-7.90	2.07	-62.63	-13.00	-49.63
289.96	46.58	H	-51.39	-7.91	2.13	-61.44	-13.00	-48.44
485.90	36.11	H	-57.46	-7.71	2.76	-67.94	-13.00	-54.94
3700.40	---	H		12.61	8.31		-13.00	
5550.60	39.05	H	-52.00	13.23	10.33	-49.10	-13.00	-36.10
7400.80	---	H		11.50	12.08		-13.00	
9251.00	---	H		11.92	13.50		-13.00	
11101.20	---	H		11.66	15.11		-13.00	
12951.40	---	H		13.63	16.60		-13.00	
14801.60	---	H		12.76	17.95		-13.00	
16651.80	---	H		15.92	19.14		-13.00	
18502.00	---	H		18.75	10.40		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode : TX CH Mid E2 Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1880MHz

Test By: Nick

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	59.05	V	-52.59	-0.89	1.13	-54.61	-13.00	-41.61
158.04	40.75	V	-57.26	-7.81	1.61	-66.68	-13.00	-53.68
233.70	40.79	V	-59.72	-7.87	1.90	-69.49	-13.00	-56.49
291.90	45.05	V	-53.47	-7.92	2.14	-63.52	-13.00	-50.52
487.84	45.88	V	-48.21	-7.72	2.77	-58.69	-13.00	-45.69
529.55	37.87	V	-55.29	-7.74	2.89	-65.93	-13.00	-52.93
3760.00	---	V		12.60	8.39		-13.00	
5640.00	38.67	V	-51.91	13.36	10.41	-48.96	-13.00	-35.96
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dBd/dBi)} - \text{Cable loss (dB)}$

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode : TX CH Mid E2 Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1880MHz

Test By: Nick

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
80.44	54.40	H	-49.20	-7.75	0.04	-56.99	-13.00	-43.99
170.65	45.30	H	-54.07	-7.82	1.64	-63.53	-13.00	-50.53
222.06	43.53	H	-57.05	-7.86	1.83	-66.74	-13.00	-53.74
301.60	41.64	H	-56.01	-7.91	2.18	-66.09	-13.00	-53.09
413.15	41.32	H	-54.44	-7.67	2.55	-64.66	-13.00	-51.66
510.15	38.33	H	-54.77	-7.73	2.83	-65.33	-13.00	-52.33
3760.00	---	H		12.60	8.39		-13.00	
5640.00	39.60	H	-51.15	13.36	10.41	-48.20	-13.00	-35.20
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP\ (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode : TX CH High E2 Mode Test Date: Aug. 04, 2011
Fundamental Frequency : 1909.8 MHz Test By: Nick
Temperature : 25°C Pol: Ver
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
90.14	52.50	V	-50.68	-7.75	1.27	-59.70	-13.00	-46.70
167.74	48.02	V	-50.86	-7.81	1.63	-60.31	-13.00	-47.31
248.25	48.83	V	-51.13	-7.89	1.98	-60.99	-13.00	-47.99
264.74	43.03	V	-56.38	-7.90	2.04	-66.32	-13.00	-53.32
282.20	40.44	V	-58.39	-7.91	2.11	-68.41	-13.00	-55.41
429.64	36.41	V	-58.16	-7.68	2.60	-68.44	-13.00	-55.44
3819.60	---	V		12.60	8.47		-13.00	
5729.40	39.77	V	-50.55	13.49	10.50	-47.55	-13.00	-34.55
7639.20	---	V		11.40	12.27		-13.00	
9549.00	---	V		11.95	13.74		-13.00	
11458.80	---	V		12.17	15.43		-13.00	
13368.60	---	V		12.97	16.82		-13.00	
15278.40	---	V		15.00	18.29		-13.00	
17188.20	---	V		14.47	19.52		-13.00	
19098.00	---	V		18.66	20.78		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP\ (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dBd/dBi) - Cable\ loss\ (dB)$

Radiated Spurious Emission Measurement Result: GSM 1900 Mode

Operation Mode : TX CH High E2 Mode Test Date: Aug. 04, 2011
Fundamental Frequency : 1909.8 MHz Test By: Nick
Temperature : 25°C Pol: Hor
Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
80.44	52.51	H	-51.09	-7.75	0.04	-58.88	-13.00	-45.88
216.24	45.39	H	-55.47	-7.86	1.80	-65.13	-13.00	-52.13
287.05	44.35	H	-53.71	-7.91	2.12	-63.75	-13.00	-50.75
367.56	38.26	H	-58.67	-7.65	2.41	-68.73	-13.00	-55.73
437.40	38.65	H	-55.88	-7.69	2.62	-66.19	-13.00	-53.19
478.14	38.75	H	-54.89	-7.71	2.74	-65.34	-13.00	-52.34
3819.60	---	H		12.60	8.47		-13.00	
5729.40	37.16	H	-53.29	13.49	10.50	-50.30	-13.00	-37.30
7639.20	---	H		11.40	12.27		-13.00	
9549.00	---	H		11.95	13.74		-13.00	
11458.80	---	H		12.17	15.43		-13.00	
13368.60	---	H		12.97	16.82		-13.00	
15278.40	---	H		15.00	18.29		-13.00	
17188.20	---	H		14.47	19.52		-13.00	
19098.00	---	H		18.66	20.78		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dBd/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Mode : TX CH Low H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1852.4MHz

Test By: Nick

Temperature : 27°C

Pol: Ver

Humidity : 66%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
68.80	53.66	V	-58.08	-1.01	1.15	-60.23	-13.00	-47.23
206.54	44.44	V	-57.09	-7.85	1.75	-66.69	-13.00	-53.69
260.86	46.35	V	-53.18	-7.90	2.03	-63.11	-13.00	-50.11
289.96	39.71	V	-58.87	-7.91	2.13	-68.92	-13.00	-55.92
468.44	38.55	V	-55.46	-7.71	2.71	-65.88	-13.00	-52.88
490.75	40.45	V	-53.65	-7.72	2.77	-64.14	-13.00	-51.14
3717.00	34.05	V	-63.80	12.61	8.33	-59.53	-13.00	-46.53
5557.20	---	V		13.24	10.33		-13.00	
7409.60	---	V		11.49	12.09		-13.00	
9262.00	---	V		11.92	13.51		-13.00	
11114.40	---	V		11.68	15.12		-13.00	
12966.80	---	V		13.62	16.61		-13.00	
14819.20	---	V		12.83	17.96		-13.00	
16671.60	---	V		15.87	19.15		-13.00	
18524.00	---	V		18.74	10.86		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark “---” means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Mode : TX CH Low H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1852.4MHz

Test By: Nick

Temperature : 27°C

Pol: Hor

Humidity : 66%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
86.26	50.37	H	-53.31	-7.75	0.79	-61.85	-13.00	-48.85
134.76	42.07	H	-57.29	-7.79	1.52	-66.60	-13.00	-53.60
209.45	45.62	H	-55.57	-7.85	1.76	-65.18	-13.00	-52.18
270.56	42.57	H	-56.01	-7.90	2.06	-65.97	-13.00	-52.97
289.96	40.18	H	-57.79	-7.91	2.13	-67.84	-13.00	-54.84
461.65	42.75	H	-51.04	-7.70	2.69	-61.43	-13.00	-48.43
3697.50	35.07	H	-62.99	12.61	8.30	-58.68	-13.00	-45.68
5557.20	---	H		13.24	10.33		-13.00	
7409.60	---	H		11.49	12.09		-13.00	
9262.00	---	H		11.92	13.51		-13.00	
11114.40	---	H		11.68	15.12		-13.00	
12966.80	---	H		13.62	16.61		-13.00	
14819.20	---	H		12.83	17.96		-13.00	
16671.60	---	H		15.87	19.15		-13.00	
18524.00	---	H		18.74	10.86		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark “---” means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Mode : TX CH Mid H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1880MHz

Test By: Nick

Temperature : 27°C

Pol: Ver

Humidity : 66%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
70.74	57.61	V	-54.15	-1.18	1.16	-56.50	-13.00	-43.50
175.50	40.55	V	-59.03	-7.82	1.65	-68.50	-13.00	-55.50
270.56	43.67	V	-55.55	-7.90	2.06	-65.51	-13.00	-52.51
352.04	41.83	V	-55.71	-7.64	2.37	-65.72	-13.00	-52.72
451.95	41.97	V	-51.97	-7.70	2.67	-62.33	-13.00	-49.33
515.00	40.76	V	-52.89	-7.73	2.85	-63.47	-13.00	-50.47
3762.00	34.81	V	-62.84	12.60	8.39	-58.63	-13.00	-45.63
5640.00	---	V		13.36	10.41		-13.00	
7520.00	---	V		11.45	12.19		-13.00	
9400.00	---	V		11.93	13.61		-13.00	
11280.00	---	V		11.92	15.27		-13.00	
13160.00	---	V		13.33	16.71		-13.00	
15040.00	---	V		13.76	18.15		-13.00	
16920.00	---	V		15.27	19.32		-13.00	
18800.00	---	V		18.68	16.58		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark “---” means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + Antenna \text{ Gain (dB/dBi)} - Cable \text{ loss (dB)}$

Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Mode : TX CH Mid H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1880MHz

Test By: Nick

Temperature : 27°C

Pol: Hor

Humidity : 66%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	54.07	H	-57.88	-0.89	1.13	-59.90	-13.00	-46.90
170.65	44.96	H	-54.41	-7.82	1.64	-63.87	-13.00	-50.87
222.06	40.70	H	-59.88	-7.86	1.83	-69.57	-13.00	-56.57
309.36	40.56	H	-57.01	-7.87	2.21	-67.09	-13.00	-54.09
388.90	37.06	H	-59.54	-7.66	2.48	-69.67	-13.00	-56.67
466.50	39.56	H	-54.18	-7.71	2.71	-64.60	-13.00	-51.60
3762.50	37.14	H	-60.62	12.60	8.39	-56.41	-13.00	-43.41
5640.00	---	H		13.36	10.41		-13.00	
7520.00	---	H		11.45	12.19		-13.00	
9400.00	---	H		11.93	13.61		-13.00	
11280.00	---	H		11.92	15.27		-13.00	
13160.00	---	H		13.33	16.71		-13.00	
15040.00	---	H		13.76	18.15		-13.00	
16920.00	---	H		15.27	19.32		-13.00	
18800.00	---	H		18.68	16.58		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark “---” means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Mode : TX CH High H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1907.6MHz

Test By: Nick

Temperature : 27°C

Pol: Ver

Humidity : 66%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
51.34	47.89	V	-59.69	-0.58	1.12	-61.39	-13.00	-48.39
167.74	44.65	V	-54.23	-7.81	1.63	-63.68	-13.00	-50.68
228.85	46.96	V	-53.73	-7.87	1.87	-63.47	-13.00	-50.47
299.66	36.15	V	-62.11	-7.92	2.17	-72.20	-13.00	-59.20
398.60	41.23	V	-54.33	-7.66	2.51	-64.49	-13.00	-51.49
461.65	38.12	V	-55.86	-7.70	2.69	-66.26	-13.00	-53.26
3808.00	39.32	V	-58.12	12.60	8.46	-53.98	-13.00	-40.98
5722.80	---	V		13.48	10.49		-13.00	
7630.40	---	V		11.41	12.27		-13.00	
9538.00	---	V		11.95	13.73		-13.00	
11445.60	---	V		12.15	15.42		-13.00	
13353.20	---	V		13.00	16.81		-13.00	
15260.80	---	V		14.91	18.28		-13.00	
17168.40	---	V		14.53	19.50		-13.00	
19076.00	---	V		18.65	20.76		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark “---” means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: HSDPA II Mode

Operation Mode : TX CH High H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1907.6MHz

Test By: Nick

Temperature : 27°C

Pol: Hor

Humidity : 66%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	51.86	H	-60.09	-0.89	1.13	-62.11	-13.00	-49.11
177.44	43.24	H	-56.66	-7.82	1.66	-66.14	-13.00	-53.14
222.06	39.13	H	-61.45	-7.86	1.83	-71.14	-13.00	-58.14
255.04	40.63	H	-58.43	-7.89	2.01	-68.33	-13.00	-55.33
309.36	38.38	H	-59.19	-7.87	2.21	-69.27	-13.00	-56.27
425.76	35.73	H	-59.39	-7.68	2.59	-69.66	-13.00	-56.66
3808.00	38.14	H	-59.42	12.60	8.46	-55.27	-13.00	-42.27
5722.80	---	H		13.48	10.49		-13.00	
7630.40	---	H		11.41	12.27		-13.00	
9538.00	---	H		11.95	13.73		-13.00	
11445.60	---	H		12.15	15.42		-13.00	
13353.20	---	H		13.00	16.81		-13.00	
15260.80	---	H		14.91	18.28		-13.00	
17168.40	---	H		14.53	19.50		-13.00	
19076.00	---	H		18.65	20.76		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark “---” means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH Low H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1712.40MHz

Test By: Nick

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
61.04	52.87	V	-58.48	-0.52	0.95	-59.96	-13.00	-46.96
112.45	52.22	V	-49.96	-7.77	1.28	-59.01	-13.00	-46.01
165.80	44.49	V	-54.54	-7.81	1.50	-63.85	-13.00	-50.85
241.46	40.71	V	-60.23	-7.88	1.91	-70.02	-13.00	-57.02
284.14	47.81	V	-52.13	-7.91	1.99	-62.02	-13.00	-49.02
419.94	38.67	V	-56.82	-7.68	2.47	-66.96	-13.00	-53.96
3424.80	36.38	V	-66.15	12.45	7.35	-61.06	-13.00	-48.06
5137.20	---	V		12.79	9.36		-13.00	
6849.60	---	V		11.80	10.94		-13.00	
8562.00	---	V		11.73	12.66		-13.00	
10274.40	---	V		11.85	13.80		-13.00	
11986.80	---	V		13.15	15.25		-13.00	
13699.20	---	V		12.32	16.55		-13.00	
15411.60	---	V		15.69	18.06		-13.00	
17124.00	---	V		14.68	19.79		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH Low H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1712.40MHz

Test By: Nick

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
73.65	54.99	H	-57.35	-1.58	1.04	-59.97	-13.00	-46.97
214.30	48.16	H	-53.38	-7.85	1.68	-62.92	-13.00	-49.92
277.35	45.44	H	-54.75	-7.91	1.99	-64.65	-13.00	-51.65
303.54	45.79	H	-53.65	-7.90	2.02	-63.57	-13.00	-50.57
335.55	41.55	H	-56.33	-7.72	2.33	-66.38	-13.00	-53.38
474.26	40.54	H	-54.13	-7.71	2.64	-64.48	-13.00	-51.48
3424.80	40.39	H	-61.87	12.45	7.35	-56.78	-13.00	-43.78
5137.20	---	H		12.79	9.36		-13.00	
6849.60	---	H		11.80	10.94		-13.00	
8562.00	---	H		11.73	12.66		-13.00	
10274.40	---	H		11.85	13.80		-13.00	
11986.80	---	H		13.15	15.25		-13.00	
13699.20	---	H		12.32	16.55		-13.00	
15411.60	---	H		15.69	18.06		-13.00	
17124.00	---	H		14.68	19.79		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH Mid H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1732.6MHz

Test By: Nick

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
57.16	52.63	V	-57.45	-0.50	0.93	-58.88	-13.00	-45.88
202.66	44.12	V	-57.91	-7.84	1.58	-67.33	-13.00	-54.33
253.10	45.35	V	-55.28	-7.89	1.99	-65.16	-13.00	-52.16
282.20	45.26	V	-54.72	-7.91	1.99	-64.61	-13.00	-51.61
447.10	37.13	V	-57.57	-7.70	2.55	-67.83	-13.00	-54.83
524.70	37.41	V	-56.43	-7.74	2.73	-66.90	-13.00	-53.90
3465.20	34.95	V	-67.56	12.53	7.38	-62.41	-13.00	-49.41
5197.80	---	V		12.85	9.41		-13.00	
6930.40	---	V		11.72	11.05		-13.00	
8663.00	---	V		11.77	12.74		-13.00	
10395.60	---	V		11.75	13.95		-13.00	
12128.20	---	V		13.35	15.32		-13.00	
13860.80	---	V		11.98	16.77		-13.00	
15593.40	---	V		16.35	18.21		-13.00	
17326.00	---	V		14.02	19.68		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH Mid H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1732.6MHz

Test By: Nick

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
78.50	60.01	H	-52.38	-2.25	1.08	-55.70	-13.00	-42.70
173.56	43.13	H	-56.97	-7.82	1.51	-66.30	-13.00	-53.30
209.45	47.81	H	-53.82	-7.85	1.64	-63.31	-13.00	-50.31
274.44	43.65	H	-56.62	-7.90	1.99	-66.51	-13.00	-53.51
311.30	40.92	H	-58.14	-7.86	2.10	-68.09	-13.00	-55.09
454.86	42.72	H	-52.53	-7.70	2.58	-62.81	-13.00	-49.81
3465.20	34.99	H	-67.24	12.53	7.38	-62.09	-13.00	-49.09
5197.80	---	H		12.85	9.41		-13.00	
6930.40	---	H		11.72	11.05		-13.00	
8663.00	---	H		11.77	12.74		-13.00	
10395.60	---	H		11.75	13.95		-13.00	
12128.20	---	H		13.35	15.32		-13.00	
13860.80	---	H		11.98	16.77		-13.00	
15593.40	---	H		16.35	18.21		-13.00	
17326.00	---	H		14.02	19.68		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH High H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1752.6 MHz

Test By: Nick

Temperature : 25°C

Pol: Ver

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
66.86	57.67	V	-53.97	-0.89	0.99	-55.85	-13.00	-42.85
204.60	44.71	V	-57.26	-7.84	1.60	-66.71	-13.00	-53.71
250.19	45.53	V	-55.17	-7.89	1.99	-65.04	-13.00	-52.04
267.65	47.45	V	-52.85	-7.90	1.99	-62.74	-13.00	-49.74
296.75	39.70	V	-59.95	-7.92	1.99	-69.86	-13.00	-56.86
524.70	37.92	V	-55.92	-7.74	2.73	-66.39	-13.00	-53.39
988.36	32.15	V	-52.19	-7.99	3.98	-64.16	-13.00	-51.16
3505.20	35.20	V	-67.28	12.61	7.42	-62.08	-13.00	-49.08
5257.80	---	V		12.91	9.46		-13.00	
7010.40	---	V		11.65	11.14		-13.00	
8763.00	---	V		11.80	12.82		-13.00	
10515.60	---	V		11.66	14.08		-13.00	
12268.20	---	V		13.54	15.39		-13.00	
14020.80	---	V		11.67	16.95		-13.00	
15773.40	---	V		16.75	18.27		-13.00	
17526.00	---	V		13.21	19.62		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: WCDMA Band IV Mode

Operation Mode : TX CH High H Mode

Test Date: Aug. 04, 2011

Fundamental Frequency : 1752.6 MHz

Test By: Nick

Temperature : 25°C

Pol: Hor

Humidity : 65%

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Out- put (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
68.80	61.08	H	-51.09	-1.01	1.00	-53.10	-13.00	-40.10
206.54	49.07	H	-52.61	-7.85	1.62	-62.08	-13.00	-49.08
219.15	45.99	H	-55.47	-7.86	1.72	-65.05	-13.00	-52.05
284.14	42.24	H	-57.78	-7.91	1.99	-67.67	-13.00	-54.67
348.16	39.07	H	-58.19	-7.65	2.46	-68.30	-13.00	-55.30
435.46	38.11	H	-57.56	-7.69	2.52	-67.77	-13.00	-54.77
3505.20	36.12	H	-66.06	12.61	7.42	-60.87	-13.00	-47.87
5257.80	---	H		12.91	9.46		-13.00	
7010.40	---	H		11.65	11.14		-13.00	
8763.00	---	H		11.80	12.82		-13.00	
10515.60	---	H		11.66	14.08		-13.00	
12268.20	---	H		13.54	15.39		-13.00	
14020.80	---	H		11.67	16.95		-13.00	
15773.40	---	H		16.75	18.27		-13.00	
17526.00	---	H		13.21	19.62		-13.00	

Remark:

- 1 The emission behaviors belong to narrowband spurious emission.
- 2 Remark"---" means that the emission level is too low to be measured
- 3 The result basic equation calculation is as follows:
- 4 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

11. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

11.1. Standard Applicable:

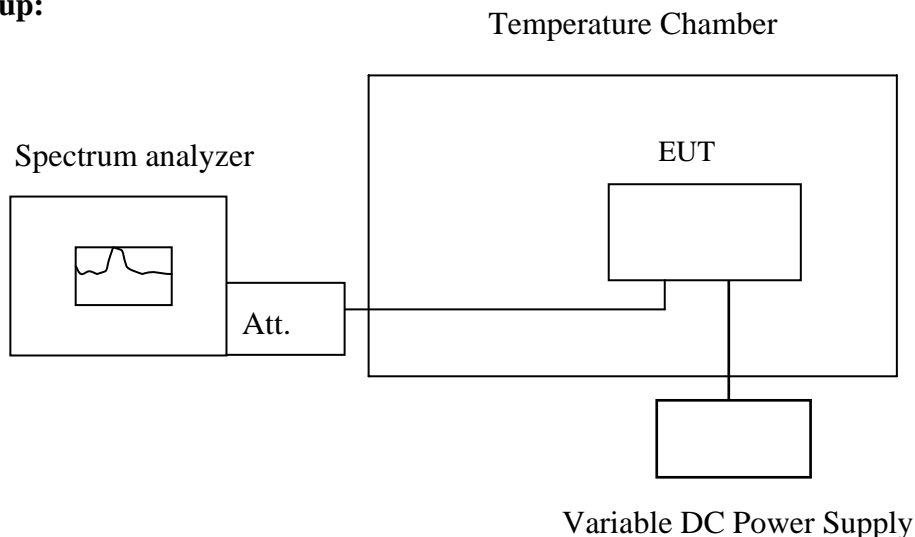
According to FCC §2.1055(a) (1)

Frequency Tolerance: ± 2.5 ppm for 850MHz band

± 2.5 ppm for 1900MHz band

± 2.5 ppm for 1700MHz band

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.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

11.5. Measurement Result:

Reference Frequency: GPRS Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	55	836600023	30	2091
3.8	50	836600019	26	2091
3.8	40	836600025	32	2091
3.8	30	836600027	34	2091
3.8	20	836599993	0	2091
3.8	10	836600003	10	2091
3.8	0	836599989	-4	2091
3.8	-10	836599979	-14	2091

Reference Frequency: GPRS 1900Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	55	1879999988	-30	4700
3.8	50	1880000010	-8	4700
3.8	40	1880000016	-2	4700
3.8	30	1880000018	0	4700
3.8	20	1880000018	0	4700
3.8	10	1879999959	-59	4700
3.8	0	1879999941	-77	4700
3.8	-10	1879999945	-73	4700

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Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	55	1880000007	13	4700
3.8	50	1879999994	0	4700
3.8	40	1880000005	11	4700
3.8	30	1879999993	-1	4700
3.8	20	1879999994	0	4700
3.8	10	1880000008	14	4700
3.8	0	1880000004	10	4700
3.8	-10	1879999998	4	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.8	55	173260004	8	4331
3.8	50	173259997	1	4331
3.8	40	173259995	-1	4331
3.8	30	173259991	-5	4331
3.8	20	173259996	0	4331
3.8	10	173259995	-1	4331
3.8	0	173260003	7	4331
3.8	-10	173260006	10	4331

Note: The battery is rated 3.8V dc.

12. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

12.1. Standard Applicable:

According to FCC §2.1055(a) (1)

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

+/-2.5ppm for 1900MHz band

+/-2.5ppm for 1700MHz band

12.2. Test Set-up:

Refer to section 10.2 in this report

12.3. Measurement Procedure:

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

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

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

12.5. Measurement Result:

Reference Frequency: GPRS Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	20	836600002	9	2091
3.8	20	836599993	0	2091
3.5	20	836599987	-6	2091
3.2 (End Point)	20	836599654	-339	2091

Reference Frequency: GPRS 1900 Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	20	1880000023	5	4700
3.8	20	1880000018	0	4700
3.5	20	1880000037	19	4700
3.0 (End Point)	20	1879999433	-585	4700

Reference Frequency: WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	20	1880000004	10	4700
3.8	20	1879999994	0	4700
3.5	20	1879999997	3	4700
3.0 (End Point)	20	1880000468	474	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	20	173259992	-4	4331
3.8	20	173259996	0	4331
3.5	20	173260003	7	4331
3.0 (Endpoint)	20	173260523	527	4331

Note: The battery is rated 3.8V dc.