

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: PDA Phone

Brand Name: HTC

Model Name: SAPP310

FCC ID: NM8SPRM2

Report No.: EH/2009/80004

Issue Date: Aug. 18, 2009

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

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

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
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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: PDA Phone

Brand Name: HTC

FCC ID: NM8SPRM2

Model No.: SAPP310

Model Difference: N/A

File Number: EH/2009/80004

Date of test: Aug. 10, 2009 ~ Aug. 17, 2009

Date of EUT Received: Aug. 10, 2009

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:

Jazz Huang

Date:

Aug. 18, 2009

Jazz Huang / Engineer

Prepared By:

Alex Hsieh

Date:

Aug. 18, 2009

Alex Hsieh / Sr. Engineer

Approved By

Vincent Su

Date:

Aug. 18, 2009

Vincent Su / Manager

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Version

Version No.	Date	Description
00	Aug. 18, 2009	Initial creation of document

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1. GENERAL PRODUCT INFORMATION

General:

Product Name	PDA Phone	
Brand Name	HTC	
Model Name	SAPP310	
Model Difference	N/A	
Data Cable (USB)	Model No.: DC U210, Supplier: MEC	
Simple Hands-free (SHF)	Model No.: HS U120, Supplier: COTRON	
Pouch	Model No.: PO S430, Supplier: Xigma	
LCM	(1) 1ST:Model No.: L5F30949, Supplier: SHARP (2) 2ND:Model No.: 990000353, Supplier: TOPPOLY	
Camera	(1) 1ST :Model No.: CMHT-3AM01D ; Supplier: Premier (2) 2ND:Model No.: 07PM12B ; Supplier: LITEON	
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	1. Model: SAPP160, Supplier: Total Wireless Solution(TWS) 2. Model No.: SAPP160, Supplier: WELLDONE
	Adapter:	Model No.: TC P310, Supplier: Foxlink

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GSM and WCDMA:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and Power	GSM/GPRS/EDGE 850 Class 10	824.2 MHz– 848.8 MHz	33 dBm
	GSM/GPRS/EDGE 900 Class 10	880.2MHz – 914.8MHz	33 dBm
	GSM/GPRS/EDGE 1800 Class 10	1710.2MHz – 1784.8MHz	30 dBm
	GSM/GPRS/EDGE 1900 Class 10	1850.2MHz – 1909.8MHz	30 dBm
	WCDMA/HSUPA/HSDPA Band I	1922.4MHz – 1977.6MHz	24 dBm
	WCDMA/HSUPA/HSDPA Band IV	1712.4MHz –1752.6MHz	24 dBm
	HSUPA data rate: uplink up to 2Mbps HSDPA data rate: downlink up to 7.2Mbps		
Type of Emission	GSM 850: 250KGXW, GSM 1900 :257KGXW EDGE 850: 248KG7W, EDGE 1900:260KG7W WCDMA Band IV: 4M18F9W		
IMEI	356221030010252		

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WLAN:

Frequency Range:	2412 – 2462 MHz
Channel number:	11 channels
Max. Output Power:	802.11 b: 17.06 dBm (Peak) 802.11 g: 13.11dBm (Peak)
Modulation Technology:	DSSS, OFDM
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation:	PIFA Antenna / 1.2dBi.
Type of Emission	16M5M5D

The EUT is compliance with IEEE 802.11 b/g Standard.

Bluetooth:

Bluetooth Version	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input checked="" type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) <input type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Frequency Range	2402 – 2480MHz
Channel number	79 channels max.
Rated Power	0.25 dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum
Antenna Designation	PIFA Antenna / 1.2dBi.
Type of Emission	1M37F7D

This test report applies for GSM/GPRS/EDGE 850/1900 MHz and WCDMA/HSDPA/HSUPA Bands IV.

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

This submittal(s) (test report) is intended for FCC ID: **NM8SPRM2** filing to comply with Section Part 22 subpart H, Part 24 subpart E and Part27 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-1

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

2.4. Measurement Equipment Used:

AC POWER LINE CONDUCTED EMISSION EQUIPMENT List					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	04/28/2009	04/27/2010
LISN	FCC	FCC-LISN-50 /250-25-2-01	04034	04/28/2009	04/27/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E4440A	US41160416	01/23/2008	01/22/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/13/2010
800 – 1000MHz Filter	Micro-Tronics	BRM13462	001	01/05/2009	01/04/2010
1800 – 2000MHz Filter	Micro-Tronics	BRM13463	001	01/05/2009	01/04/2010
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
Temperature Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA0512-018	02/05/2008	02/04/2010
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S20W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2009	07/04/2010
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010
DC Power Supply	HP	6038A	2929A-07548	06/27/2009	06/26/2010
DC Power Supply	Topward	3303D	981327	10/26/2009	10/25/2010

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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	02/12/2009	02/11/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Dipole Antenna	SCHWAZBECK	VHAP	908/909	07/10/2008	07/09/2010
Dipole Antenna	SCHWAZBECK	UHAP	891/892	07/10/2008	07/09/2010
Hor.n antenna	SCHWAZBECK	BBHA 9120D	309	01/22/2008	01/21/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Signal Generator	R&S	SMR40	100210	01/22/2008	01/21/2010
Signal Generator	Agilent	E4438C	MY45093613	06/11/2009	06/10/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010
Radio Communication Analyzer	R&S	CMU200	102189	05/13/2008	05/12/2010
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	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010
3m Site	SGS	966 chamber	N/A	11/08/2008	11/09/2009

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2.5. Configuration of Tested System

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

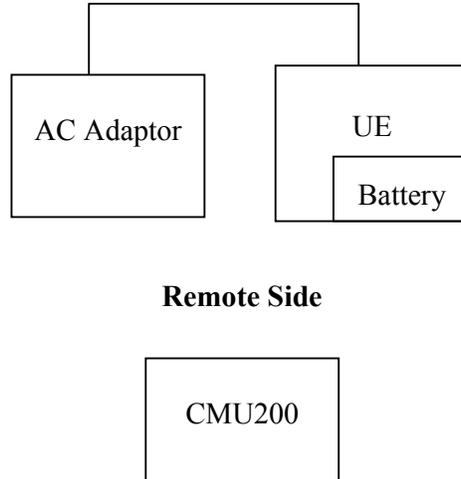


Table 2-1 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(d)(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
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

Max ERP/EIRP measurement result:

	dBm	dB	W
GSM 850 Band	33.98	ERP	2.500
GSM 1900 Band	27.98	EIRP	0.628
EDGE 850 Band	31.62	ERP	1.452
EDGE 1900 Band	25.14	EIRP	0.327
WCDMA Band IV	20.57	EIRP	0.114
HSUPA Band IV	16.34	EIRP	0.043

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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 band with rated data rate were chosen for full testing.

The field strength of spurious radiation emission was measured as EUT stand-up position (E1 mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE and WCDMA Band 4 with power adaptors. The worst-case of E1 position for GSM 850 band, E2 position for GSM 1900, H position WCDMA Band IV were reported.

5. RF POWER OUTPUT MEASUREMENT

5.1. Standard Applicable:

According to FCC §2.1046.

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

FCC 24.232(d) Peak Power Measurement, FCC 24.232(c) Maximum Power Reduction.

3GPP Power limitation for HSDPA and HSUPA

Maximum Output Powers for HSDPA

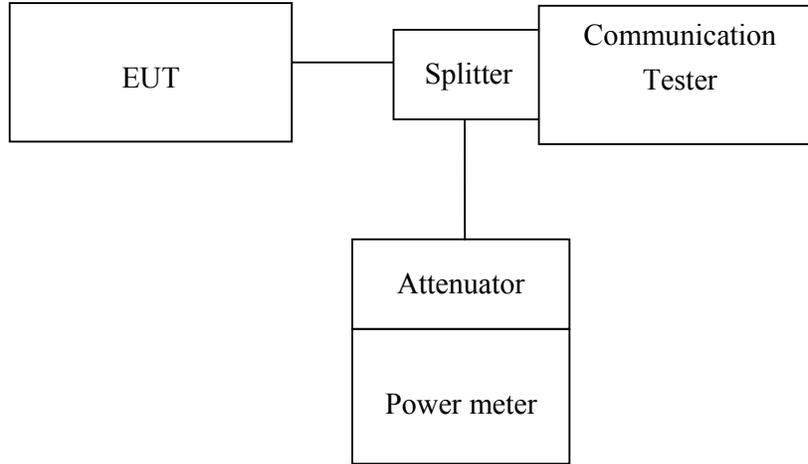
Sub-test in table C.10.1.4	Power Class 3		Power Class 4	
	Power (dBm)	Tol (dB)	Power (dBm)	Tol (dB)
1	+24	+1.7/-3.7	+21	+2.7/-2.7
2	+24	+1.7/-3.7	+21	+2.7/-2.7
3	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7
4	+23.5	+2.2/-3.7	+20.5	+3.2/-2.7

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

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5.2. Test Set-up:



Note: Measurement setup for testing on Antenna connector

5.3. 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

5.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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5.5. Measurement Result:

5.5.1 RF Conducted Output Power

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

Result:

Fre- quency (MHz)	CH	1 Time Slot				2 Time Slot			
		GMSK Mode		8-PSK Mode		GMSK Mode		8-PSK Mode	
		Peak Power (dBm)	AV Power (dBm)						
824.2	128	33.2	33.1	30	26.8	32.7	32.6	29.5	26.3
836.6	190	33	32.9	29.8	26.6	32.5	32.4	29.3	26.1
848.8	251	32.8	32.7	29.6	26.5	32.3	32.1	29.1	25.9
1850.2	512	29.8	29.7	28.6	25.4	29.3	29.2	28.1	24.8
1880.0	661	29.7	29.6	28.5	25.3	29.2	29	27.9	24.7
1909.8	810	29.6	29.5	28.4	25.2	29.1	28.9	27.9	24.6

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5.5.1.2: 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)	AVG. Power (dBm)
WCDMA Band IV	1712.4	1312	26.93	23.48
	1732.6	1413	27.01	23.62
	1752.6	1513	26.98	23.61

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

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5.5.13: HSDPA Release 6 mode

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

HSDPA SUB-TEST Setting

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

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

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

Results:

Mode	Sub-test	Transmitter Power (dBm) Channel			Power Class 3 Limita- tion (dBm)	Comments
		1312	1413	1513		
HSDPA(B4)	1	23.7	23.87	23.8	20.3dBm – 25.7dBm	Pass
	2	23.41	23.51	23.48	20.3dBm – 25.7dBm	Pass
	3	23.24	23.39	23.31	19.8dBm – 25.7dBm	Pass
	4	23.29	23.43	23.37	19.8dBm – 25.7dBm	Pass

5.5.1.4: 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 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

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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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

Results:

Mode	Sub-test	TX Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		1312	1413	1513		
HSUPA(B4)	1	23.44	23.55	23.53	18.8dBm – 25.7dBm	Pass
	2	21.5	21.63	21.57	16.8dBm – 25.7dBm	Pass
	3	22.48	22.61	22.60	17.8dBm – 25.7dBm	Pass
	4-	21.55	21.69	21.65	16.8dBm – 25.7dBm	Pass
	5	23.3	23.28	23.42	18.8dBm – 25.7dBm	Pass

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5.5.1.5 Minimum Communications Power Measurement

PCS 1900 band

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	28.7	27.8	25.3	24.1	22.2	20.3	18.2	16.2	14.3
PCL	9	10	11	12	13	14	15	16	17
Output power (dBm)	12.1	10.2	8.3	6.4	4.3	2.3	0.3		

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

WCDMA/HSDPA/HSUPA band IV

The EUT output power was controlled by simulator. Set Communication Tester CMU200 function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. then record the read(see page 15 for measurement data) . The min. power was measures by a function key “minimum power” then record the read. It is -52.5dBm. The power variation can be 0.1dB step by setting.

6. ERP, EIRP MEASUREMENT

6.1. Standard Applicable:

According to FCC §2.1046

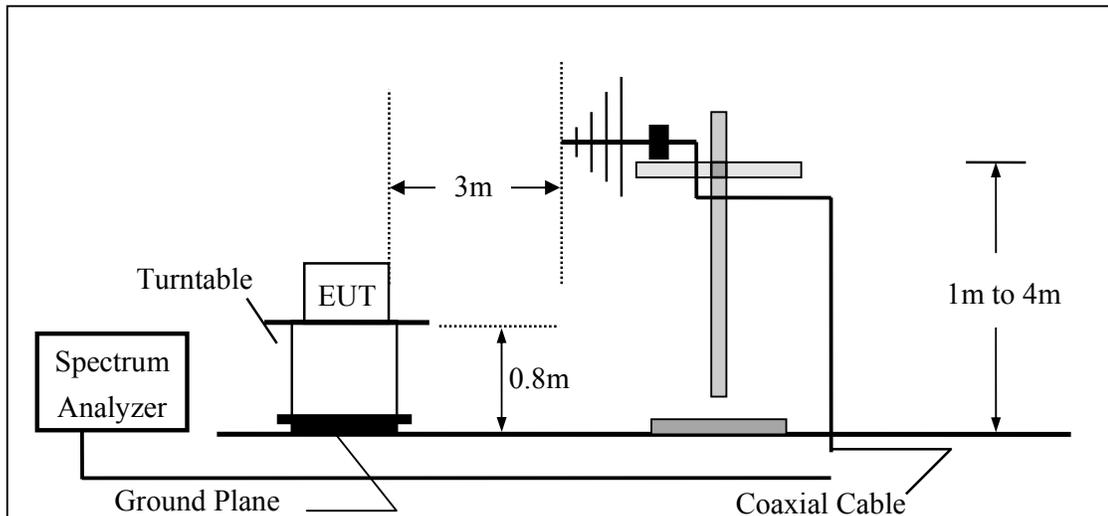
FCC 22.913(a) Mobile station are limited to 7W ERP.

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.

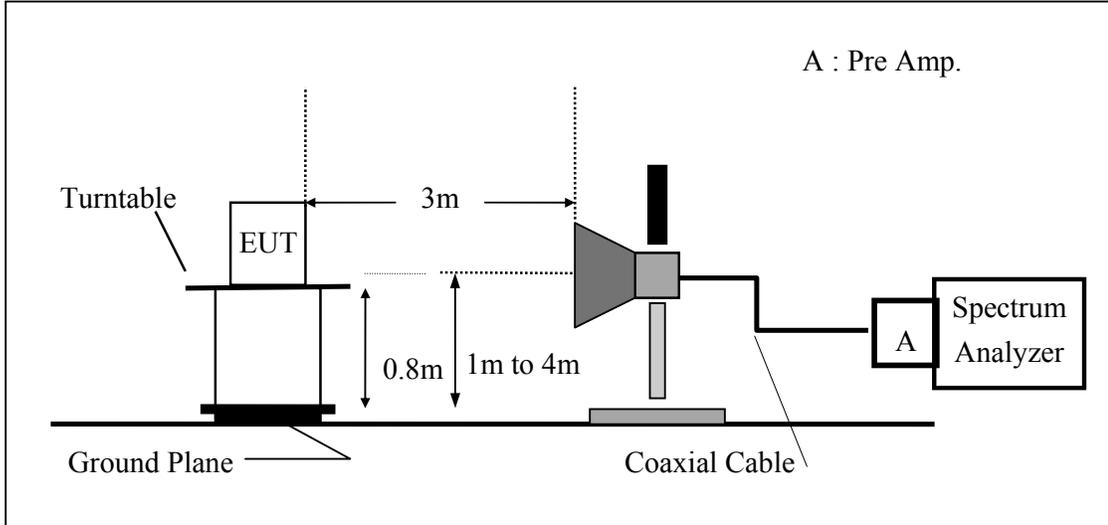
6.2. Test SET-UP (Block Diagram of Configuration):

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

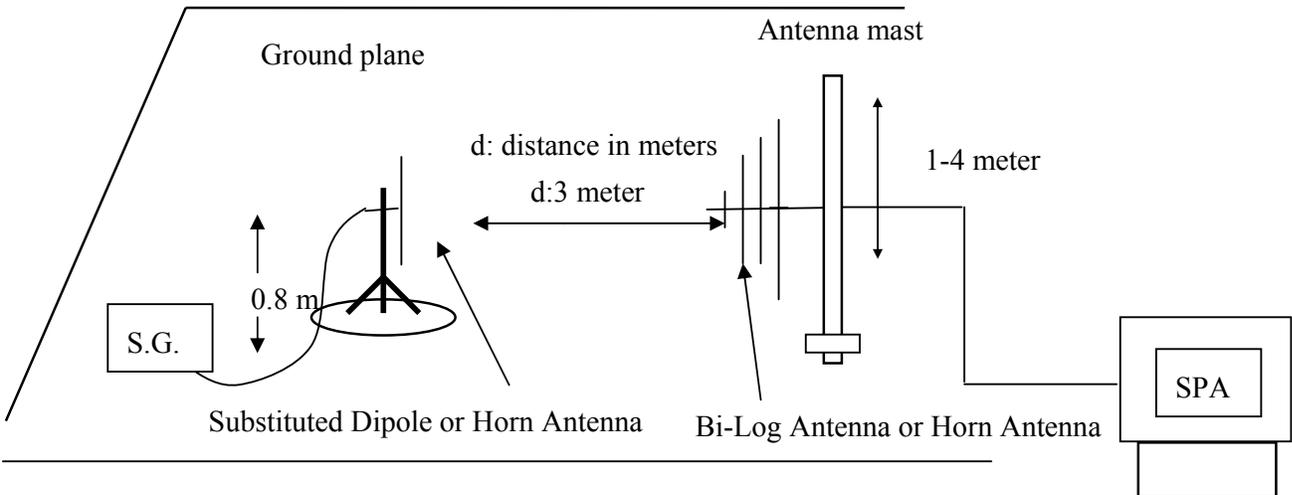


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3. 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 in 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 a 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:

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

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

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

6.4. Measurement Equipment Used:

Refer to section 2.4 in this report

6.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	H	V	113.38	26.99	-7.87	3.62	15.49	38.45
				H	129.17	42.90	-7.87	3.62	31.40	38.45
			E1	V	129.81	43.42	-7.87	3.62	31.92	38.45
				H	124.44	38.17	-7.87	3.62	26.67	38.45
			E2	V	116.19	29.80	-7.87	3.62	18.30	38.45
				H	129.47	43.20	-7.87	3.62	31.70	38.45
	836.60	190	H	V	114.39	28.14	-7.88	3.65	16.61	38.45
				H	130.34	44.11	-7.88	3.65	32.58	38.45
			E1	V	131.02	44.77	-7.88	3.65	33.24	38.45
				H	125.36	39.13	-7.88	3.65	27.60	38.45
			E2	V	117.47	31.22	-7.88	3.65	19.69	38.45
				H	130.80	44.57	-7.88	3.65	33.04	38.45
	848.80	251	H	V	117.99	31.87	-7.88	3.68	20.31	38.45
				H	131.43	45.24	-7.88	3.68	33.68	38.45
			E1	V	131.92	45.80	-7.88	3.68	34.24	38.45
				H	125.31	39.12	-7.88	3.68	27.56	38.45
			E2	V	119.24	33.12	-7.88	3.68	21.56	38.45
				H	131.73	45.54	-7.88	3.68	33.98	38.45

Remark :

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

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Measurement Result:

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)
PCS 1900	1850.20	512	H	V	113.88	9.49	9.90	5.56	13.83	33.00
				H	125.35	21.17	9.90	5.56	25.51	33.00
			E1	V	125.68	21.29	9.90	5.56	25.63	33.00
				H	125.04	20.86	9.90	5.56	25.20	33.00
			E2	V	126.57	22.18	9.90	5.56	26.52	33.00
				H	121.22	17.04	9.90	5.84	21.10	33.00
	1880.00	661	H	V	112.41	8.05	9.99	5.61	12.43	33.00
				H	126.29	22.15	9.99	5.61	26.52	33.00
			E1	V	126.18	21.82	9.99	5.61	26.20	33.00
				H	126.05	21.91	9.99	5.61	26.28	33.00
			E2	V	127.96	23.60	9.99	5.61	27.98	33.00
				H	120.97	16.83	9.99	5.61	21.20	33.00
	1909.80	810	H	V	113.13	8.80	10.08	5.66	13.22	33.00
				H	127.45	23.34	10.08	5.66	27.76	33.00
			E1	V	125.58	21.25	10.08	5.66	25.67	33.00
				H	125.49	21.38	10.08	5.66	25.80	33.00
			E2	V	126.57	22.24	10.08	5.66	26.66	33.00
				H	121.22	17.11	10.08	5.66	21.53	33.00

Remark :

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

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Measurement Result:

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	H	V	111.49	24.17	-7.87	3.64	12.65	38.45
				H	126.59	38.93	-7.87	3.64	27.42	38.45
			E1	V	127.61	40.29	-7.87	3.64	28.77	38.45
				H	120.25	32.59	-7.87	3.64	21.08	38.45
			E2	V	114.80	27.48	-7.87	3.64	15.96	38.45
				H	127.82	40.16	-7.87	3.64	28.65	38.45
	836.60	190	H	V	113.24	26.21	-7.88	3.70	14.64	38.45
				H	127.64	40.30	-7.88	3.70	28.73	38.45
			E1	V	129.00	41.97	-7.88	3.70	30.40	38.45
				H	121.36	34.02	-7.88	3.70	22.45	38.45
			E2	V	115.55	28.52	-7.88	3.70	16.95	38.45
				H	128.67	41.33	-7.88	3.70	29.76	38.45
	848.80	251	H	V	116.35	29.61	-7.88	3.75	17.98	38.45
				H	129.36	42.34	-7.88	3.75	30.71	38.45
			E1	V	129.99	43.25	-7.88	3.75	31.62	38.45
				H	121.91	34.89	-7.88	3.75	23.26	38.45
			E2	V	117.49	30.75	-7.88	3.75	19.12	38.45
				H	129.72	42.70	-7.88	3.75	31.07	38.45

Remark :

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

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Measurement Result:

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	115.37	8.41	9.90	5.41	12.90	33.00
				H	127.46	20.57	9.90	5.41	25.06	33.00
			E1	V	126.73	19.77	9.90	5.41	24.26	33.00
				H	124.82	17.93	9.90	5.41	22.42	33.00
			E2	V	126.94	19.98	9.90	5.41	24.47	33.00
				H	123.84	16.95	9.90	5.84	21.01	33.00
	1880.00	661	H	V	114.43	7.48	9.99	5.46	12.01	33.00
				H	127.48	20.61	9.99	5.46	25.14	33.00
			E1	V	126.87	19.92	9.99	5.46	24.45	33.00
				H	124.65	17.78	9.99	5.46	22.31	33.00
			E2	V	127.40	20.45	9.99	5.46	24.98	33.00
				H	123.47	16.60	9.99	5.46	21.13	33.00
	1909.80	810	H	V	114.73	7.79	10.08	5.51	12.36	33.00
				H	127.29	20.44	10.08	5.51	25.00	33.00
			E1	V	126.01	19.07	10.08	5.51	23.64	33.00
				H	124.08	17.23	10.08	5.51	21.79	33.00
			E2	V	126.68	19.74	10.08	5.51	24.31	33.00
				H	122.40	15.55	10.08	5.51	20.11	33.00

Remark :

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

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Measurement Result:

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 IV	1712.40	1312	H	V	109.36	2.40	9.90	5.41	6.90	33.00
				H	121.58	14.69	9.90	5.41	19.19	33.00
			E1	V	120.37	13.41	9.90	5.41	17.91	33.00
				H	119.99	13.10	9.90	5.41	17.60	33.00
			E2	V	120.60	13.64	9.90	5.41	18.14	33.00
				H	118.17	11.28	9.90	5.84	15.34	33.00
	1732.60	1413	H	V	107.06	0.11	9.99	5.46	4.64	33.00
				H	120.78	13.91	9.99	5.46	18.44	33.00
			E1	V	118.90	11.95	9.99	5.46	16.48	33.00
				H	119.24	12.37	9.99	5.46	16.90	33.00
			E2	V	119.49	12.54	9.99	5.46	17.07	33.00
				H	117.05	10.18	9.99	5.46	14.71	33.00
	1752.60	1513	H	V	108.79	1.85	10.07	5.51	6.42	33.00
				H	122.86	16.00	10.07	5.51	20.57	33.00
			E1	V	120.78	13.84	10.07	5.51	18.41	33.00
				H	119.92	13.06	10.07	5.51	17.63	33.00
			E2	V	121.68	14.74	10.07	5.51	19.31	33.00
				H	119.15	12.29	10.07	5.51	16.86	33.00

Remark:

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

RBW= 5MHz , VBW= 8MHz

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Measurement Result:

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 IV	1712.40	1312	H	V	103.31	-3.65	9.90	5.41	0.85	33.00
				H	115.61	8.72	9.90	5.41	13.22	33.00
			E1	V	117.32	10.36	9.90	5.41	14.86	33.00
				H	116.87	9.98	9.90	5.41	14.48	33.00
			E2	V	115.53	8.57	9.90	5.41	13.07	33.00
				H	114.19	7.30	9.90	5.84	11.36	33.00
	1732.60	1413	H	V	102.95	-4.00	9.99	5.46	0.53	33.00
				H	116.02	9.15	9.99	5.46	13.68	33.00
			E1	V	115.62	8.67	9.99	5.46	13.20	33.00
				H	115.59	8.72	9.99	5.46	13.25	33.00
			E2	V	114.17	7.22	9.99	5.46	11.75	33.00
				H	112.61	5.74	9.99	5.46	10.27	33.00
	1752.60	1513	H	V	104.10	-2.84	10.07	5.51	1.73	33.00
				H	118.63	11.77	10.07	5.51	16.34	33.00
			E1	V	116.01	9.07	10.07	5.51	13.64	33.00
				H	115.93	9.07	10.07	5.51	13.64	33.00
			E2	V	114.27	7.33	10.07	5.51	11.90	33.00
				H	112.94	6.08	10.07	5.51	10.65	33.00

Remark:

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

RBW= 5MHz , VBW= 8MHz

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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable:

According to §FCC 2.1049.

7.2. Test Set-up:

Refer to section 5.2 in this report

7.3. 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.

7.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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7.5. Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2484
	836.60	190	0.2415
	848.80	251	0.2495

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2462
	836.60	190	0.2402
	848.80	251	0.256.5

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2440
	1880.00	661	0.2567
	1909.80	810	0.2445

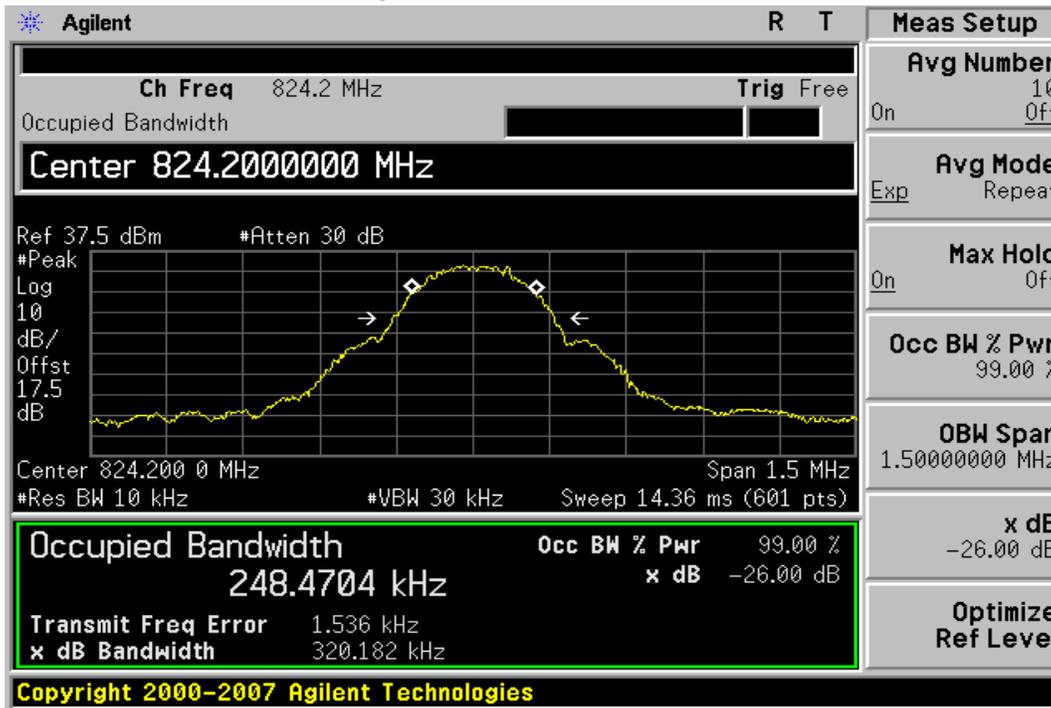
EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2427
	1880.00	661	0.2567
	1909.80	810	0.2597

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA Band IV	1712.40	1312	4.1743
	1732.60	1413	4.1616
	1752.60	1513	4.1714

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EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
HSUPA IV	1712.40	1312	4.1791
	1732.60	1413	4.1801
	1752.60	1513	4.1599

Figure 7-1: GSM Channel Low



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Figure 7-2 GSM Channel Mid

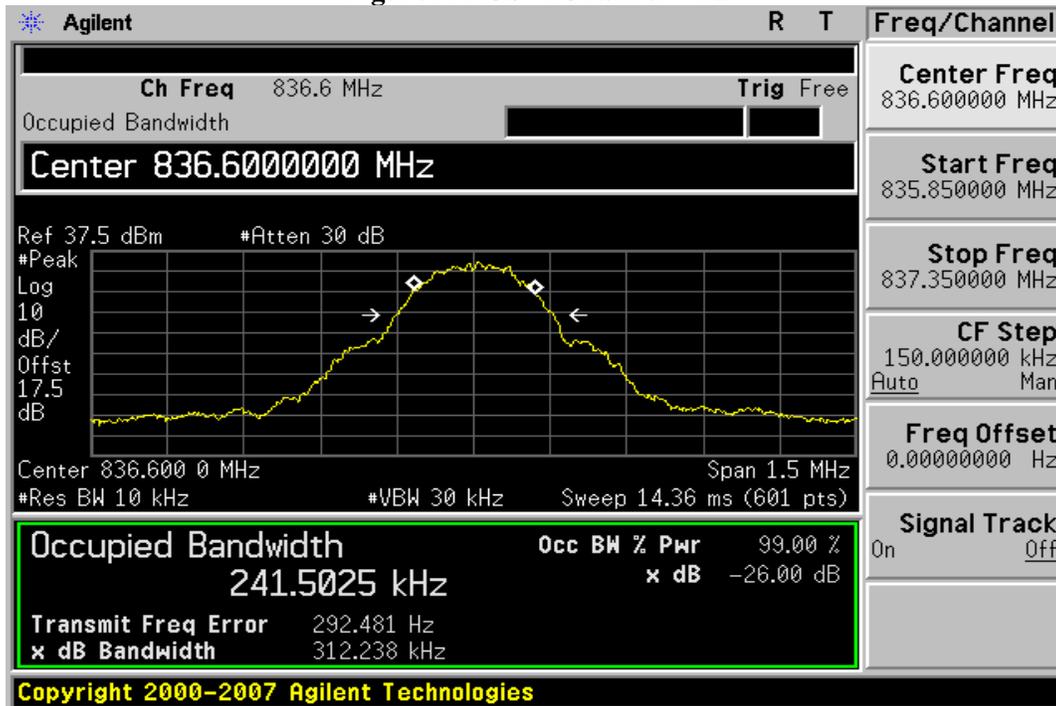
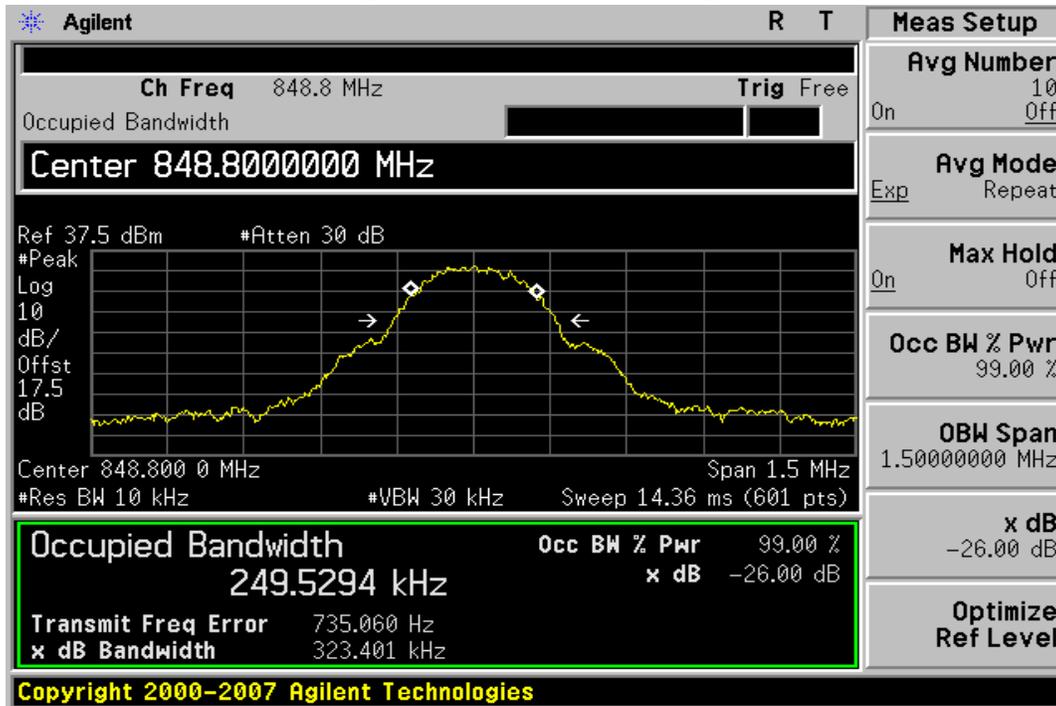


Figure 7-3: GSM Channel High



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Figure 7-4: PCS Channel Low

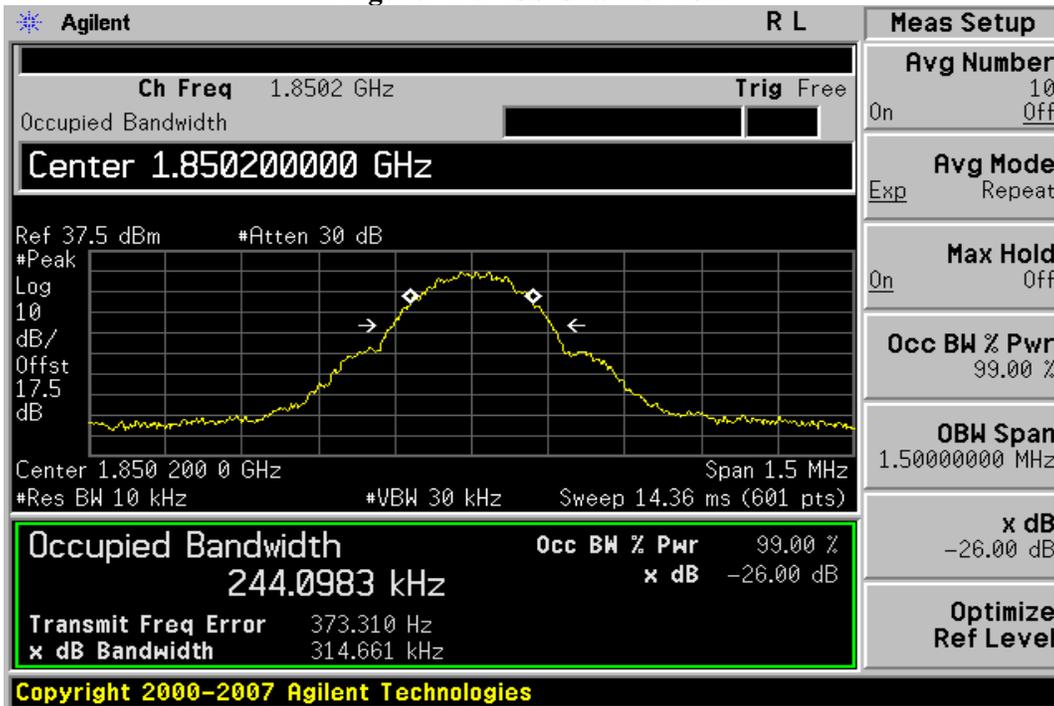
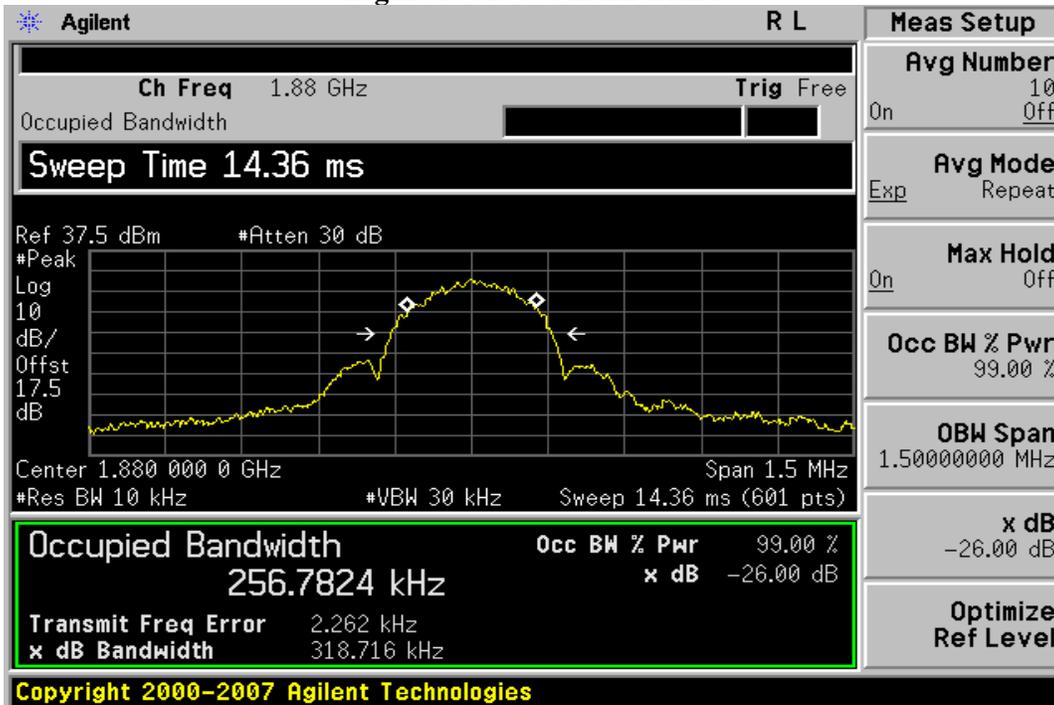


Figure 7-5 PCS Channel Mid



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Figure 7-6: PCS Channel High

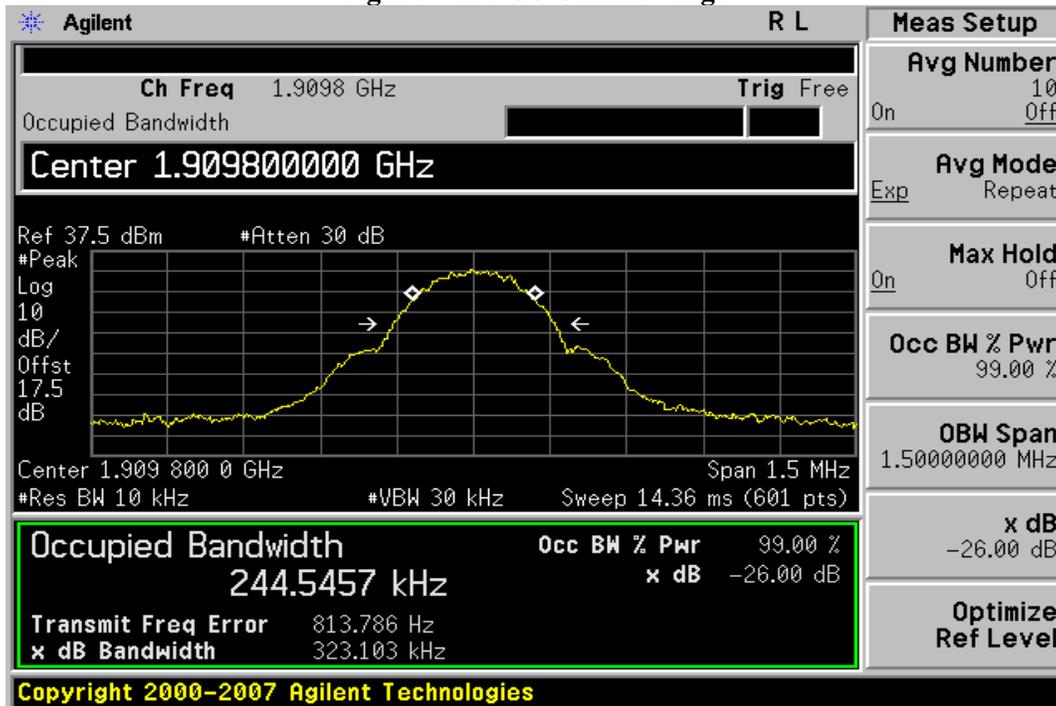
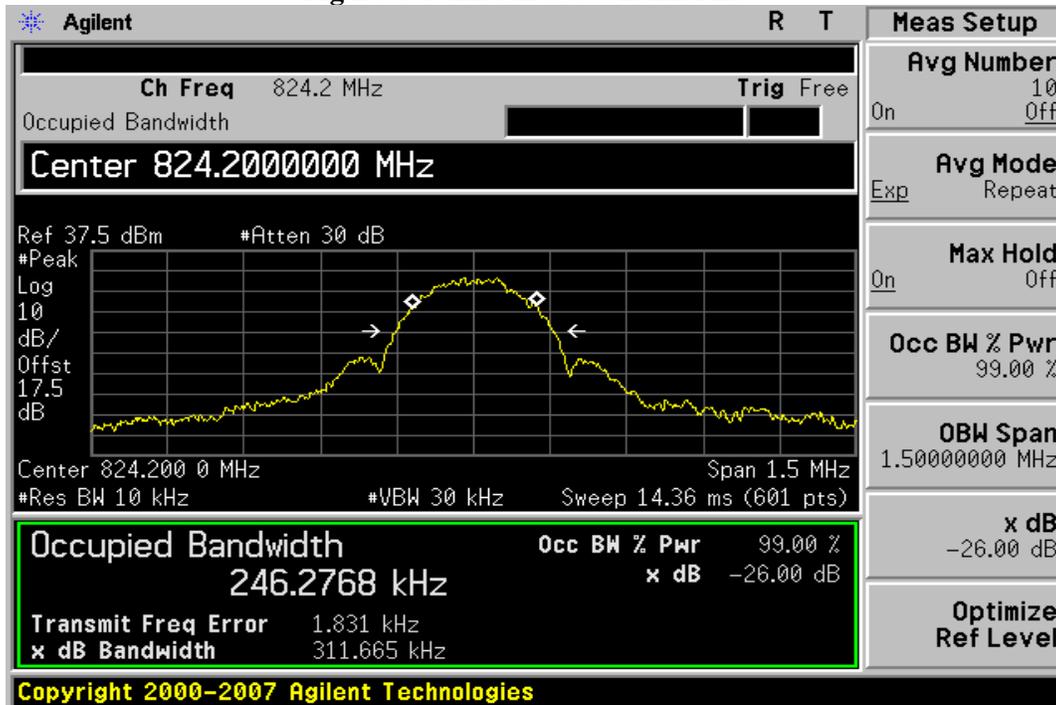


Figure 7-7: EDGE 850 Channel Low



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Figure 7-8 EDGE 850 Channel Mid

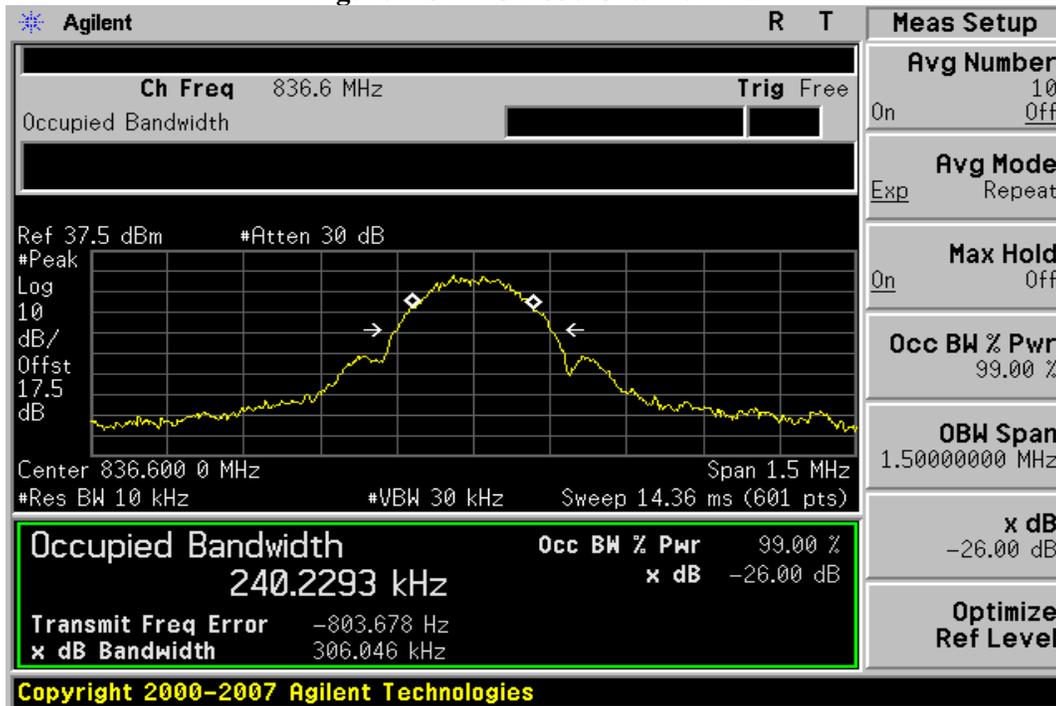
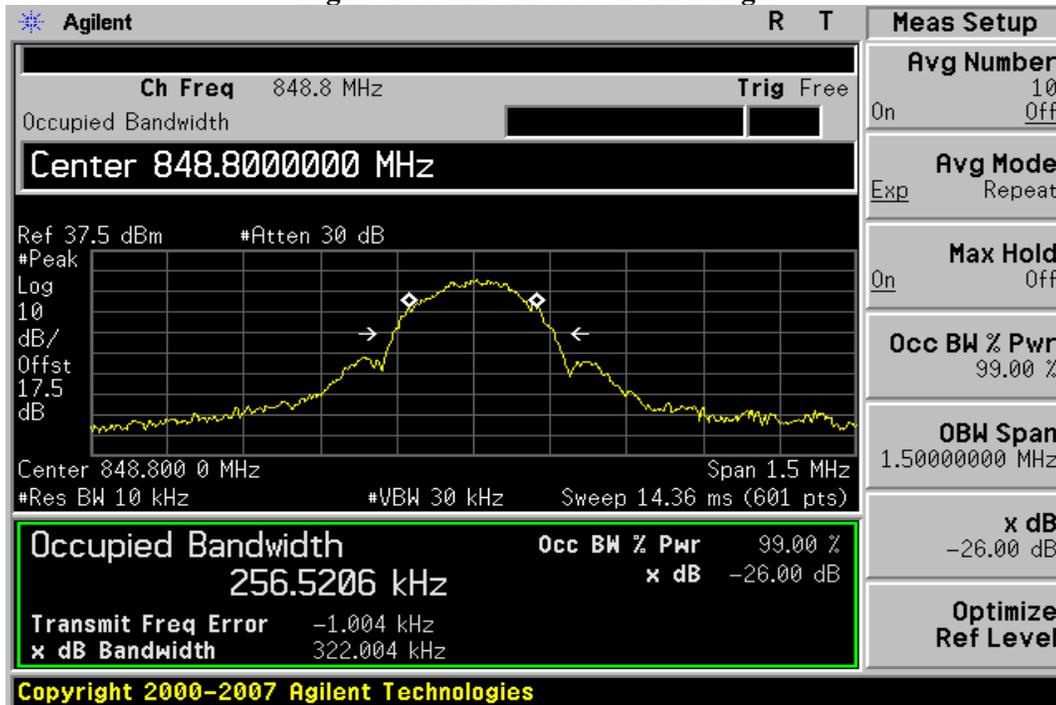


Figure 7-9: EDGE 850 Channel High



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Figure 7-10: EDGE 1900 Channel Low

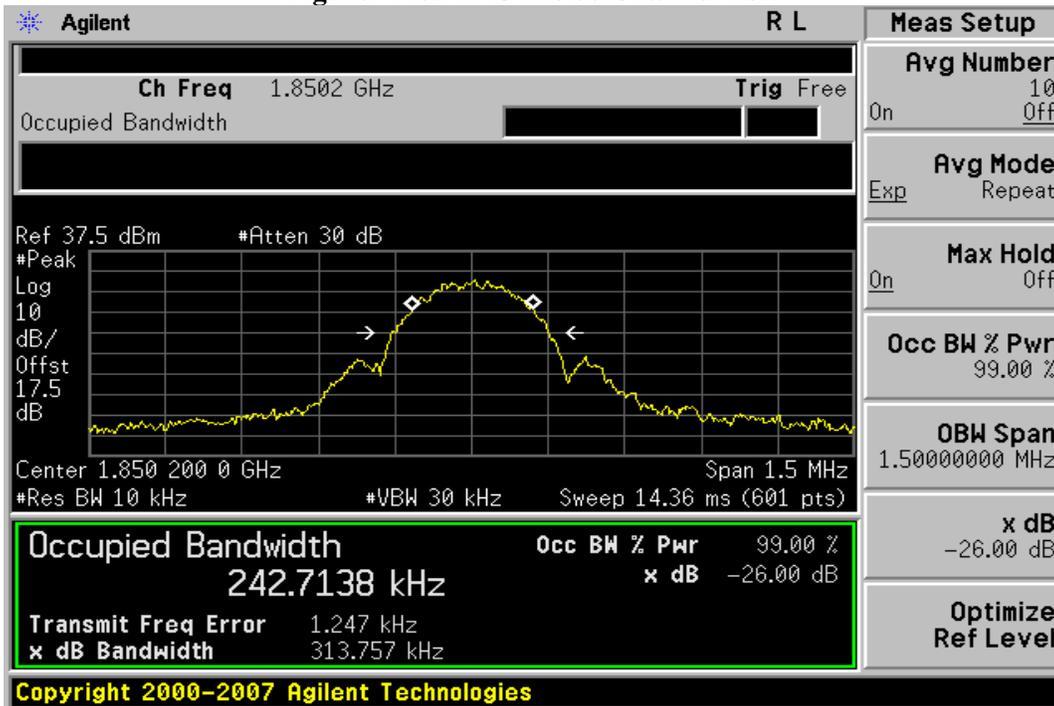
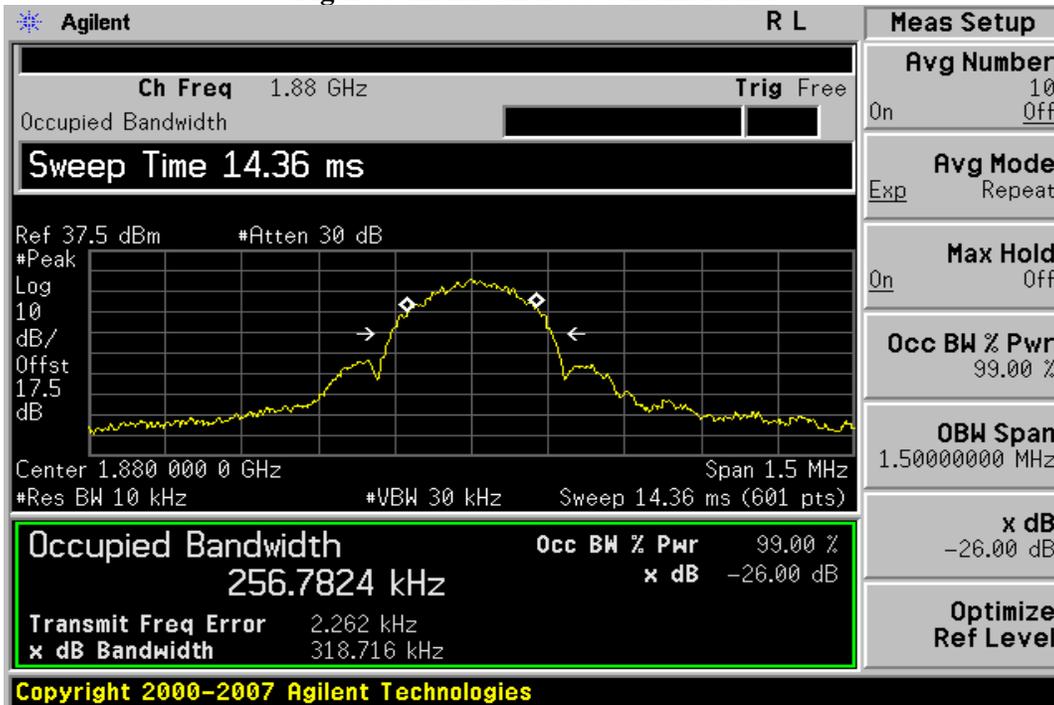


Figure 7-11 EDGE 1900 Channel Mid



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Figure 7-12: EDGE 1900 Channel High

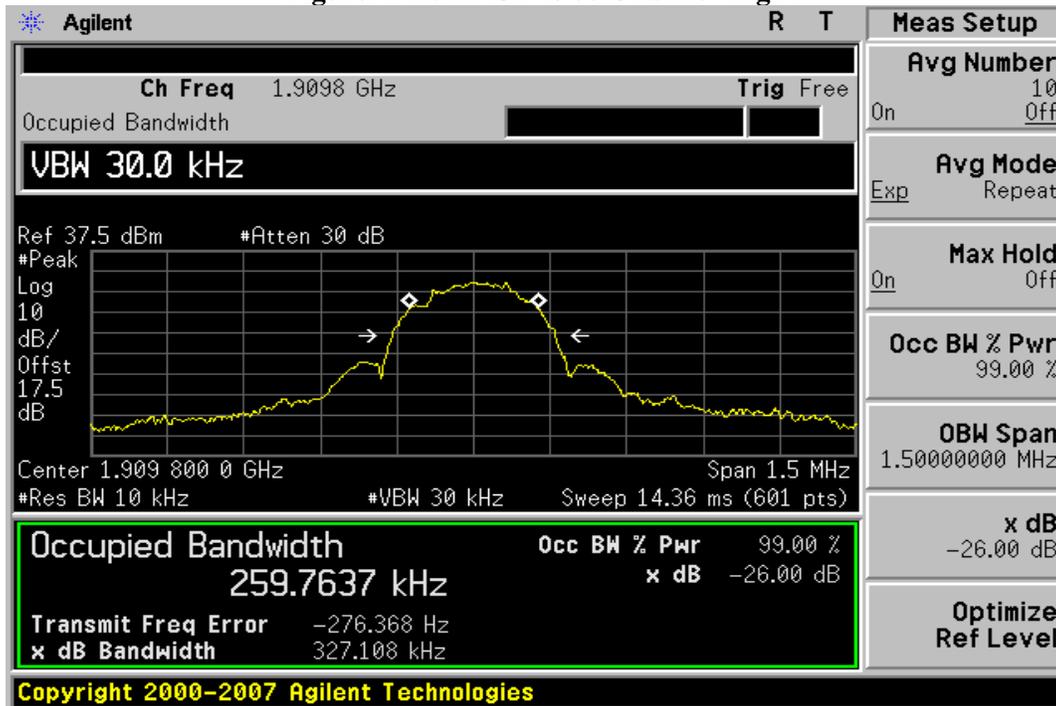
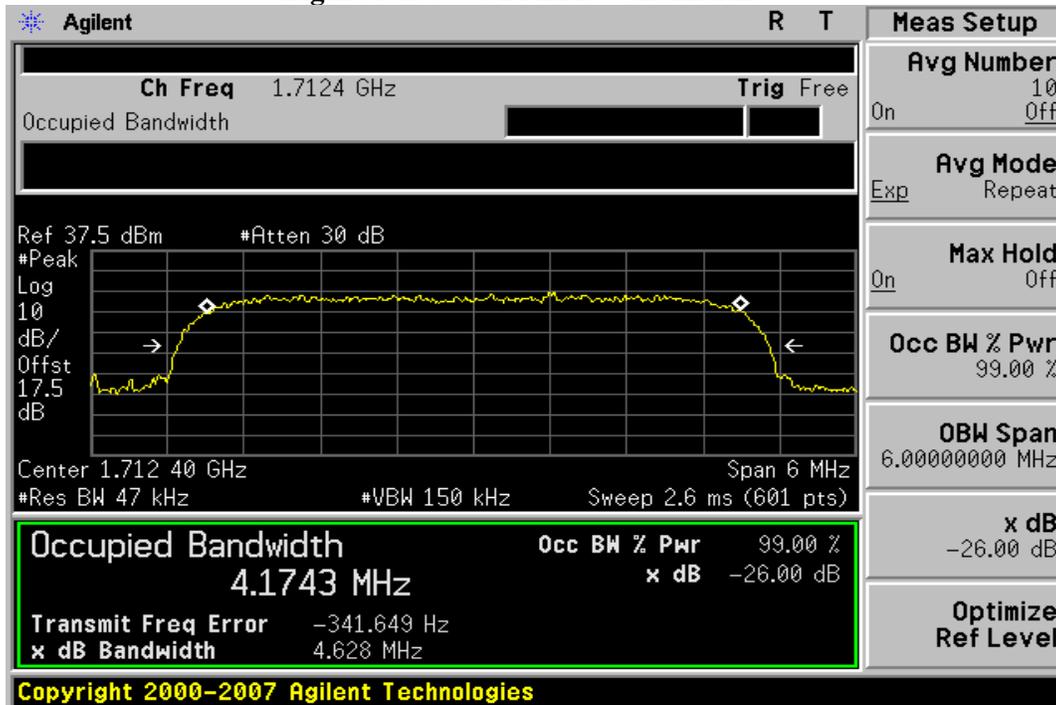


Figure 7-13: WCDMA IV Channel Low



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Figure 7-14 WCDMA IV Channel Mid

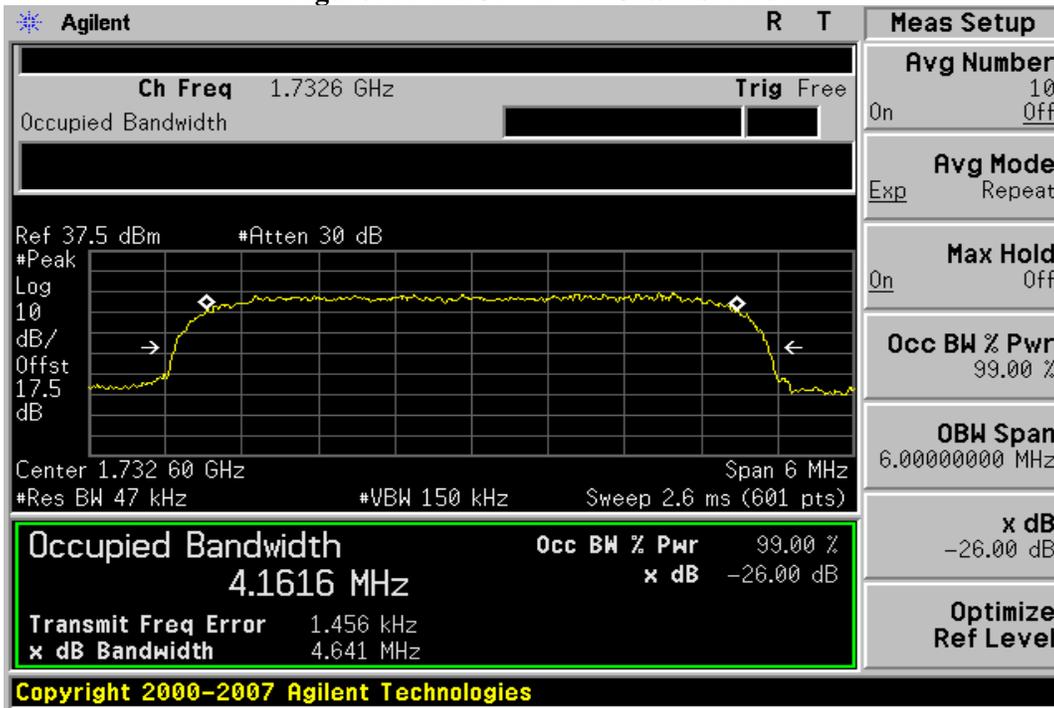
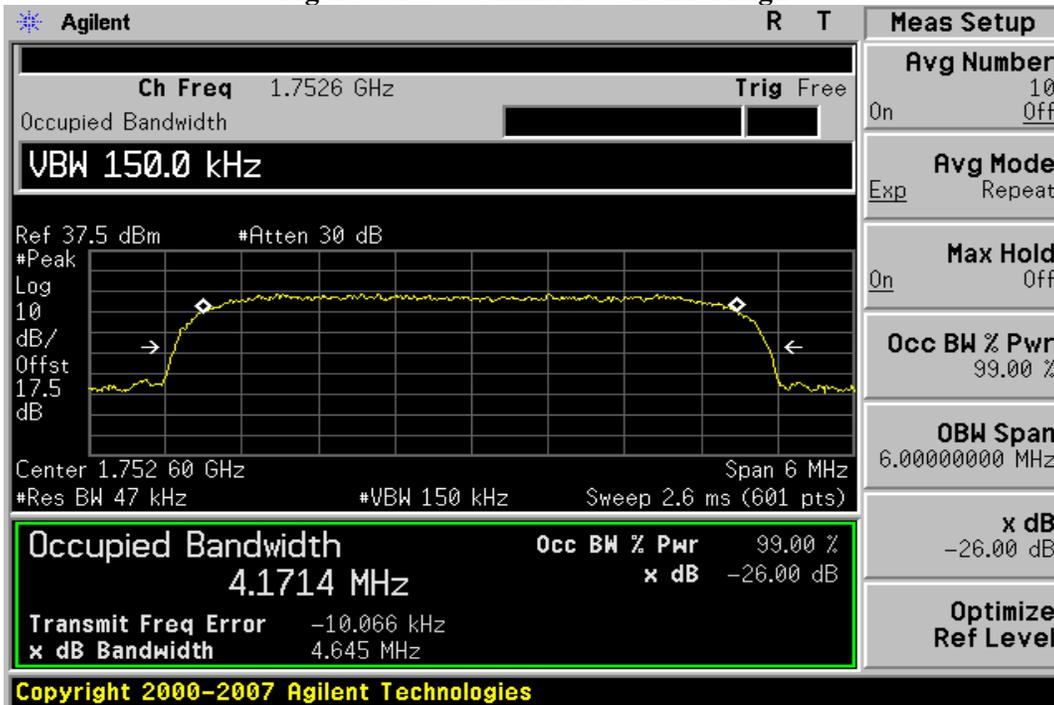


Figure 7-15: WCDMA IV Channel High



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Figure 7-16: HSUPA IV Channel Low

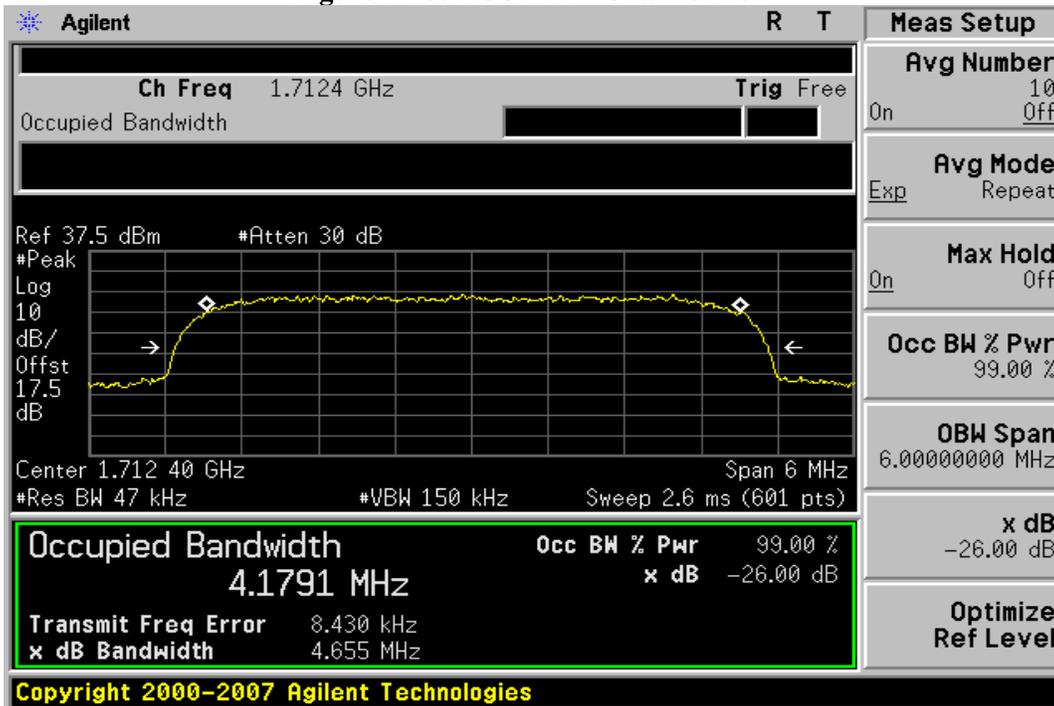
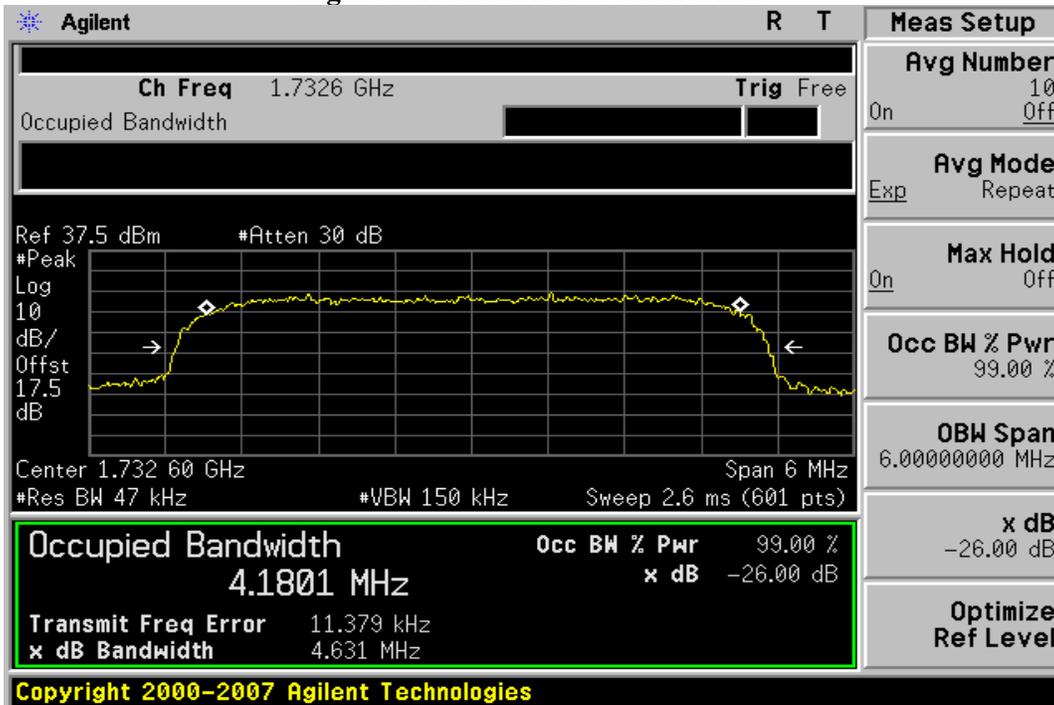
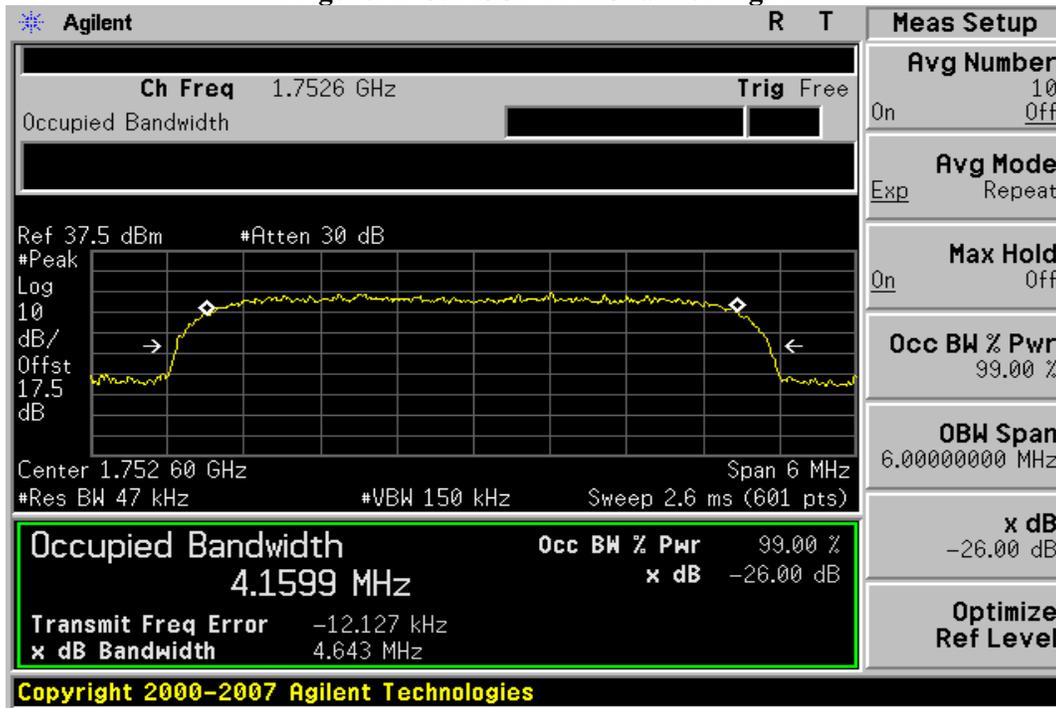


Figure 7-17 HSUPA IV Channel Mid



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Figure 7-18: HSUPA IV Channel High



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8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1. 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)

8.2. Test SET-UP:

Refer to section 5.2 in this report

8.3. 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

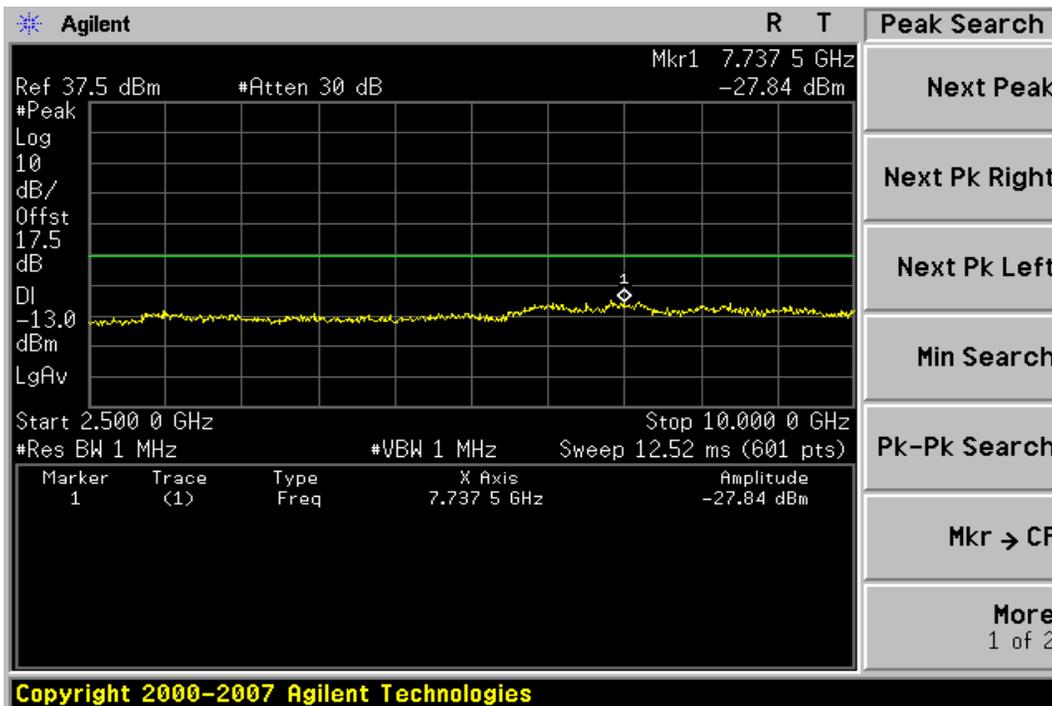
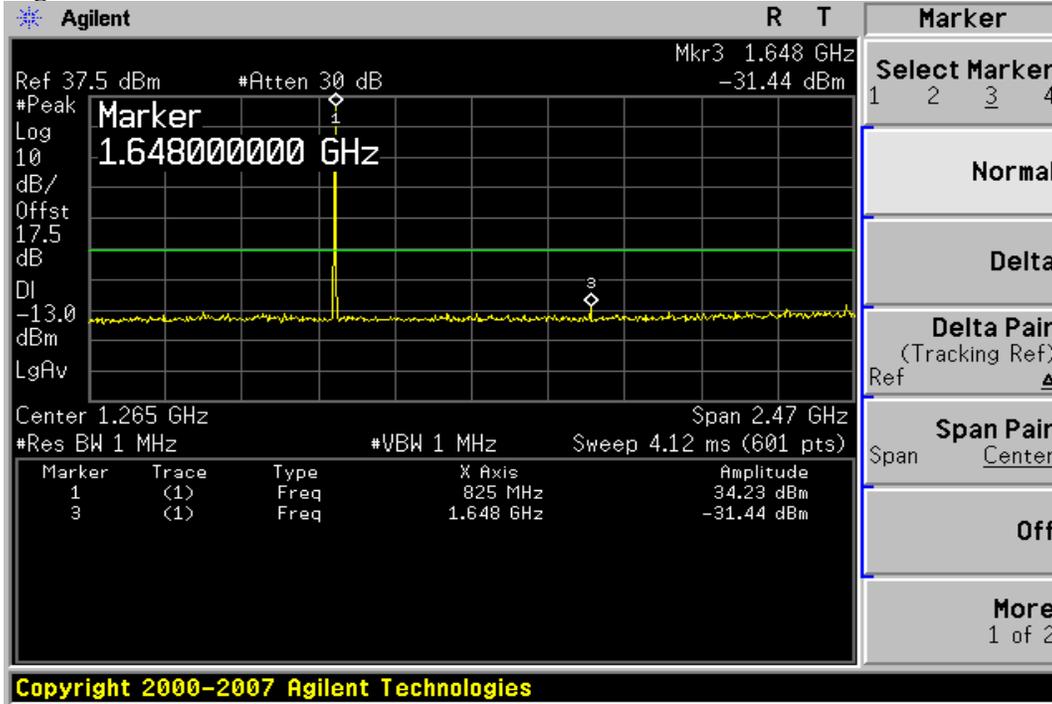
Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. Limit, -13dBm.

8.4. Measurement Equipment Used:

Refer to section 2.4 in this report

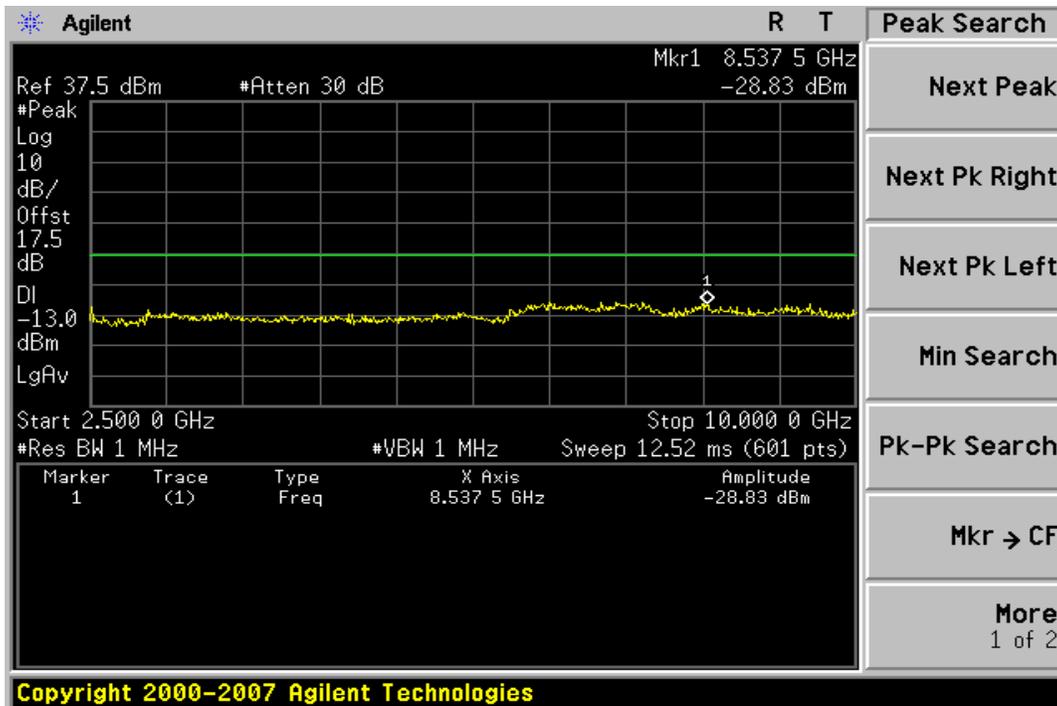
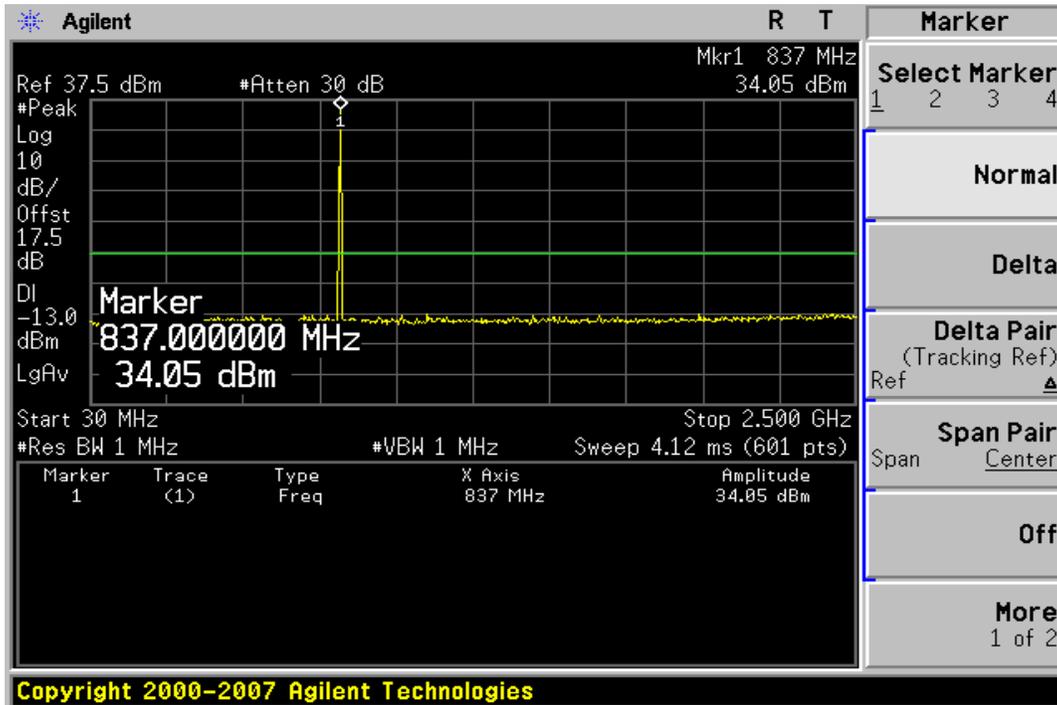
8.5. Measurement Result:

Figure 8-1: Out of Band emission at antenna terminals– GSM 850 Channel Lowest



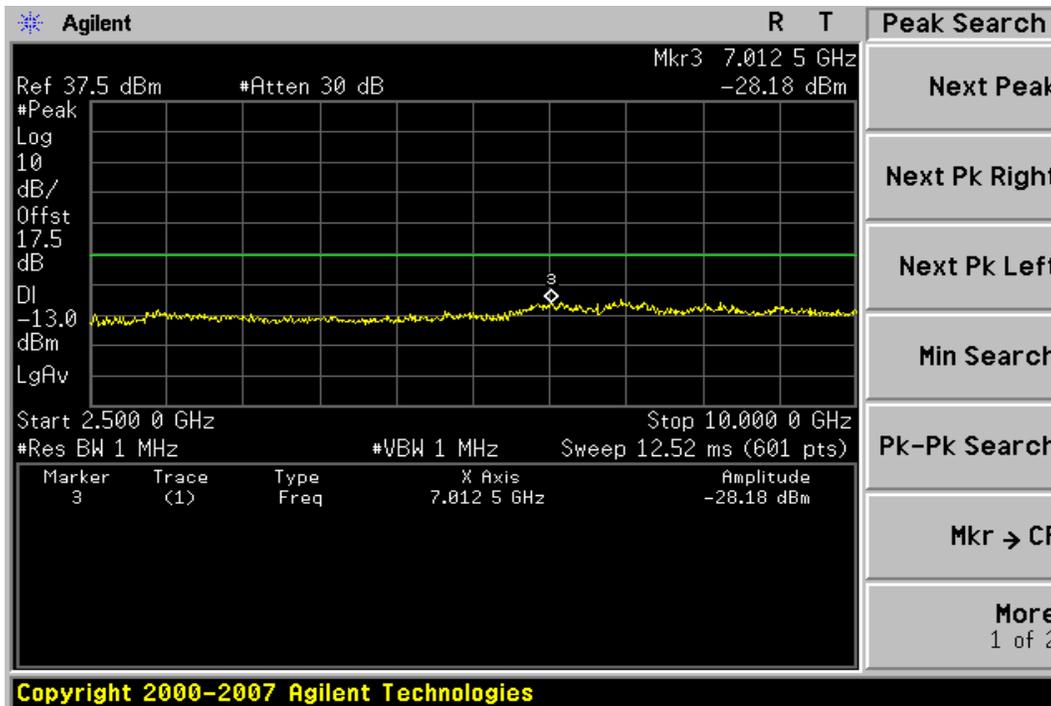
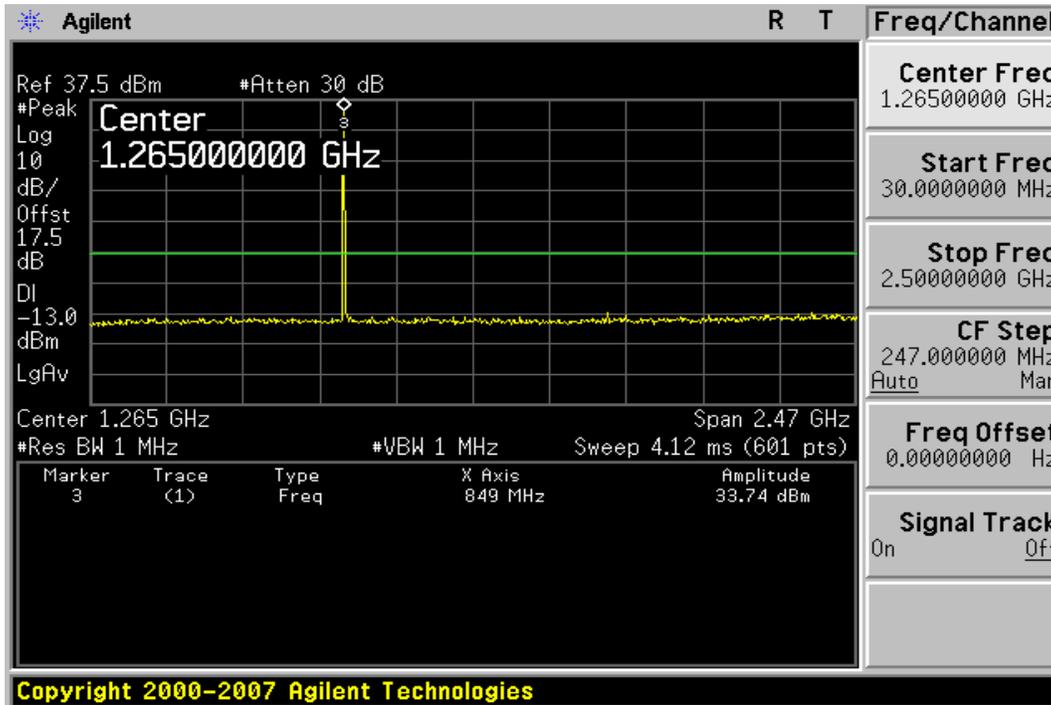
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Figure 8-2: Out of Band emission at antenna terminals –GSM 850 Channel Mid



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Figure 8-3: Out of Band emission at antenna terminals–GSM 850 Channel Highest



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Figure 8-4: Band edge emission at antenna terminals – GSM 850 Channel Lowest

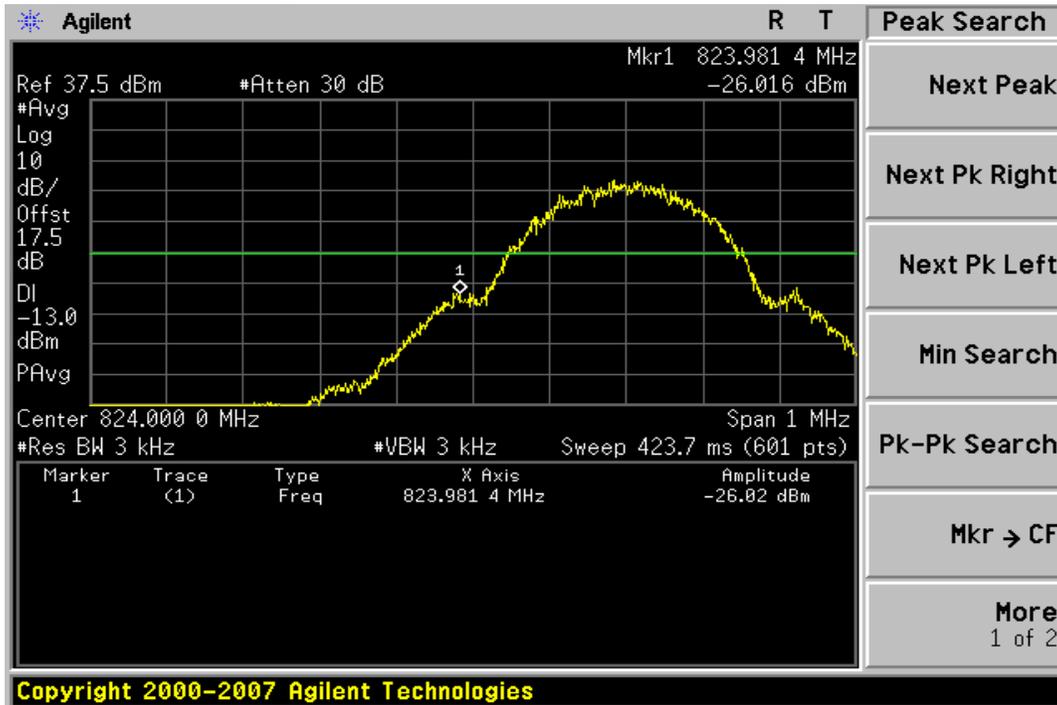
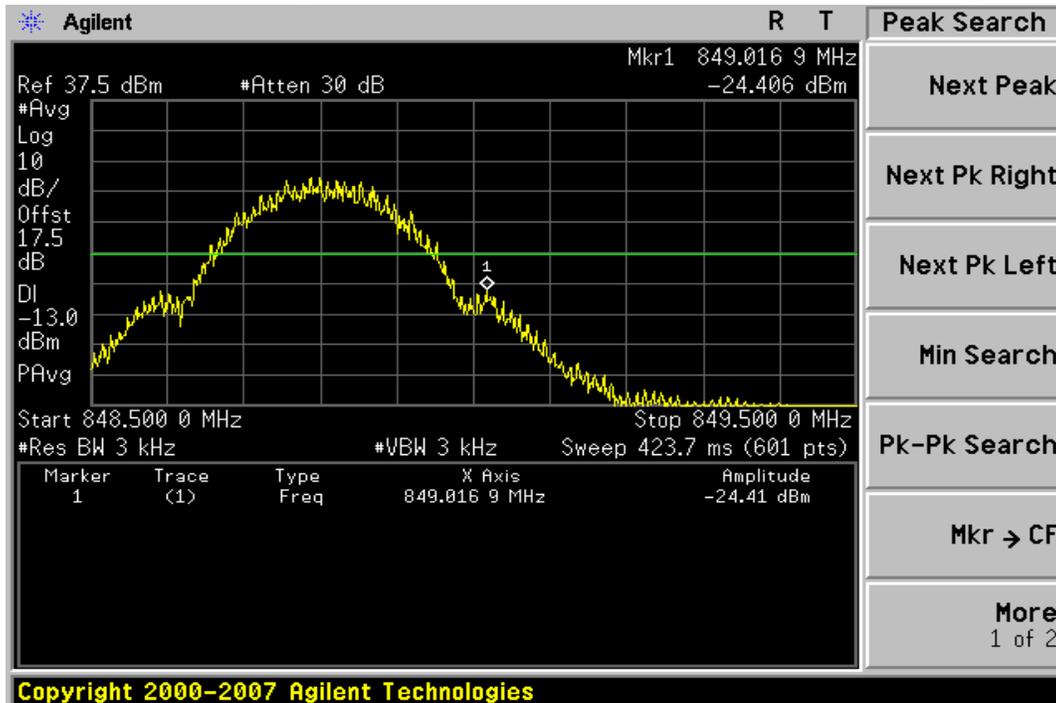
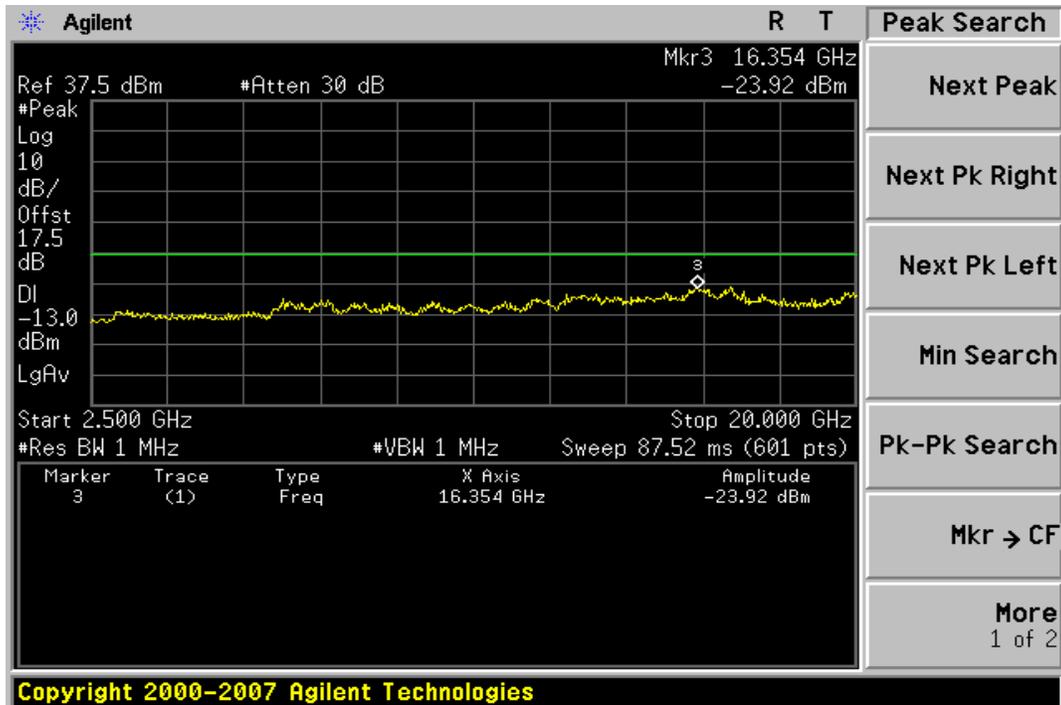
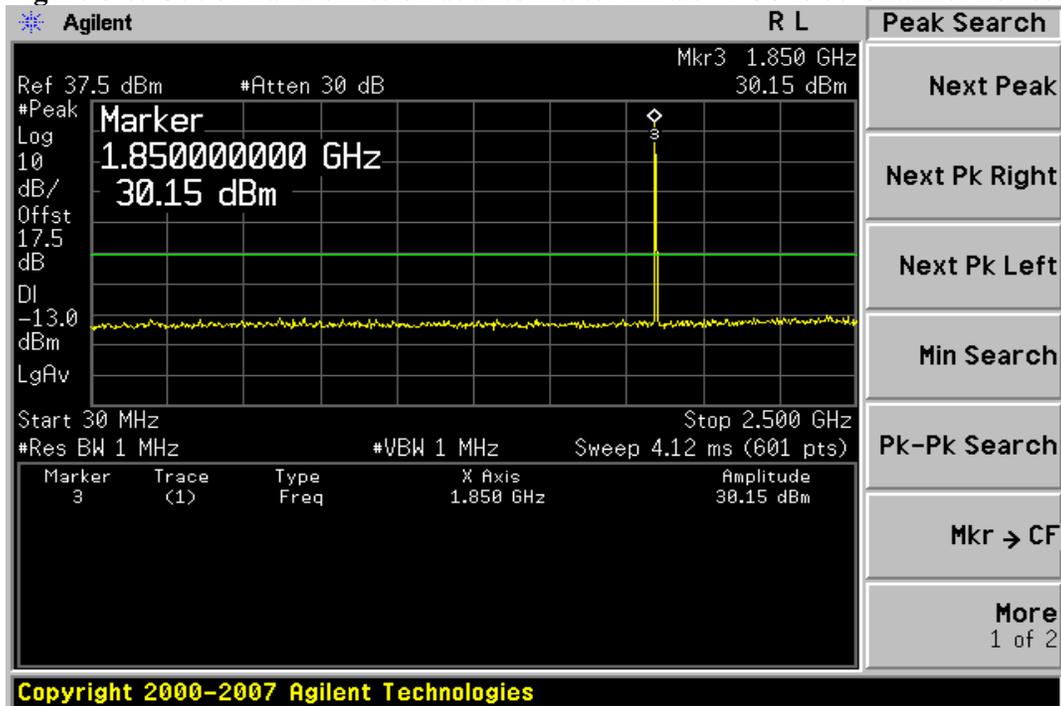


Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest



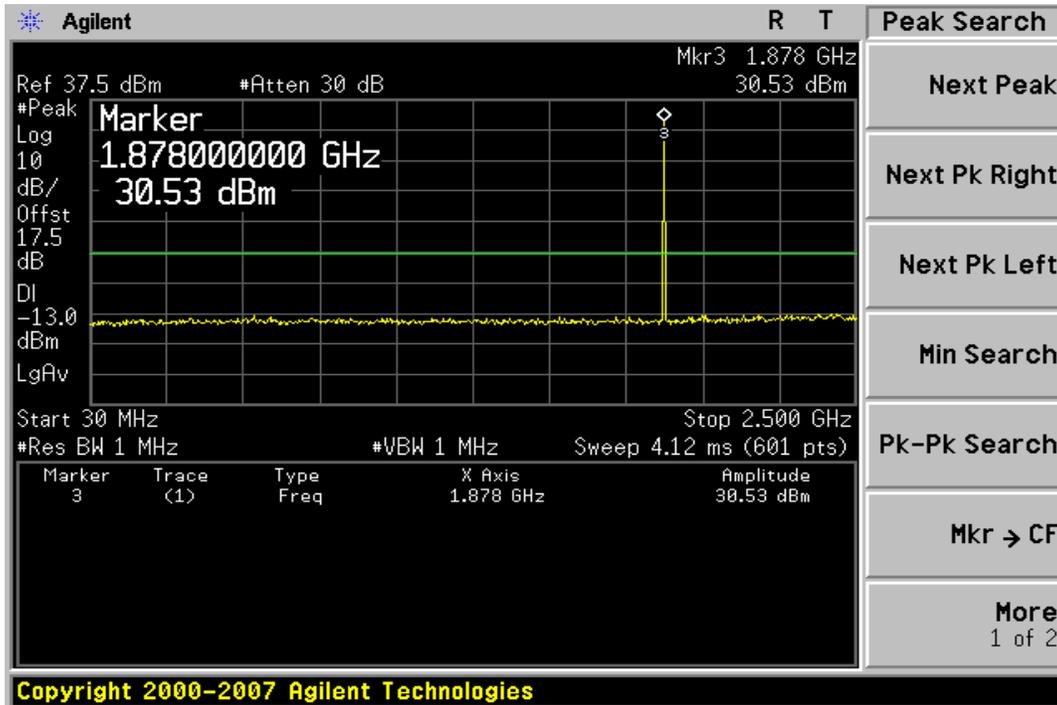
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Figure 8-6: Out of Band emission at antenna terminals– PCS 1900 Channel Lowest



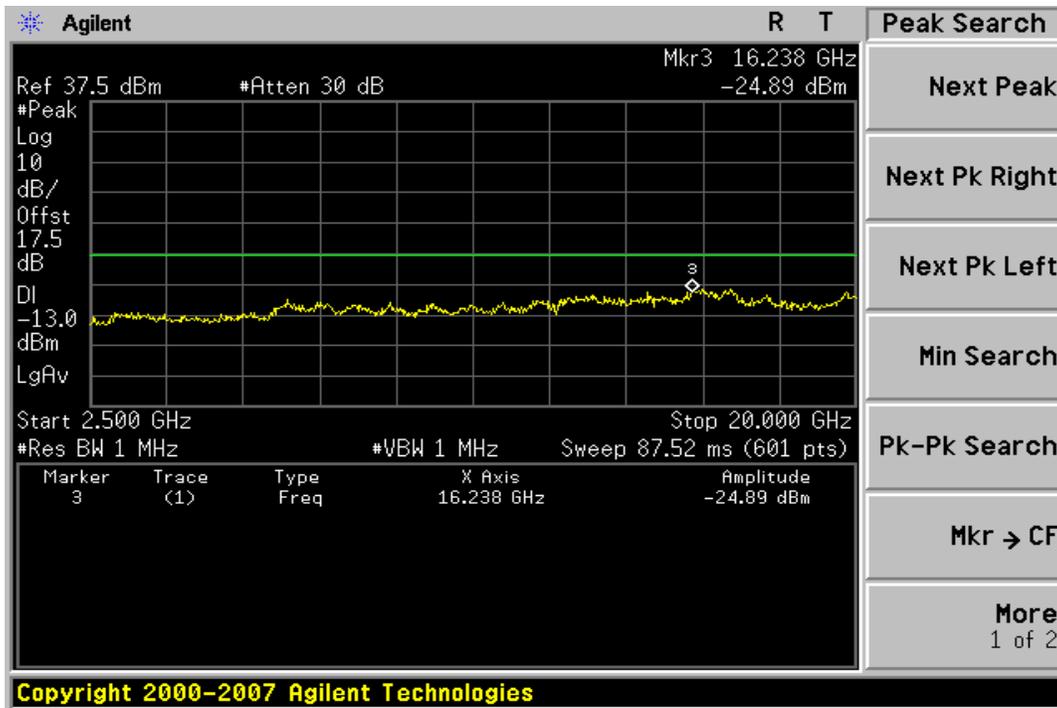
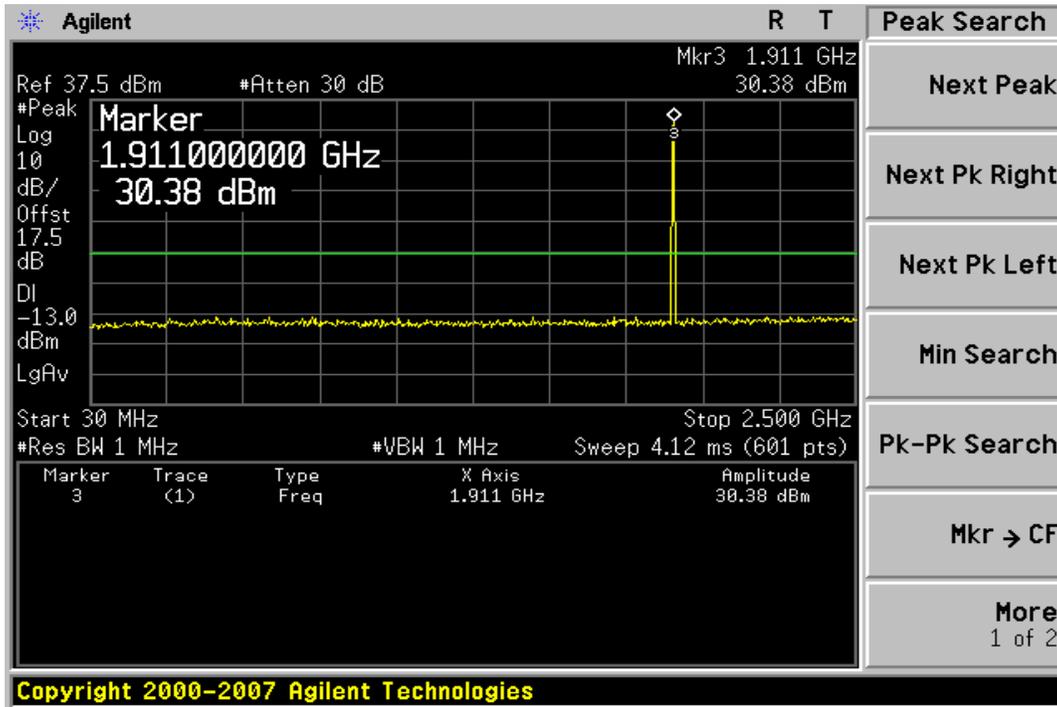
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Figure 8-7: Out of Band emission at antenna terminals –PCS 1900 Channel Mid



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



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Figure 8-9: Bad edge emission at antenna terminals – PCS 1900 Channel Lowest

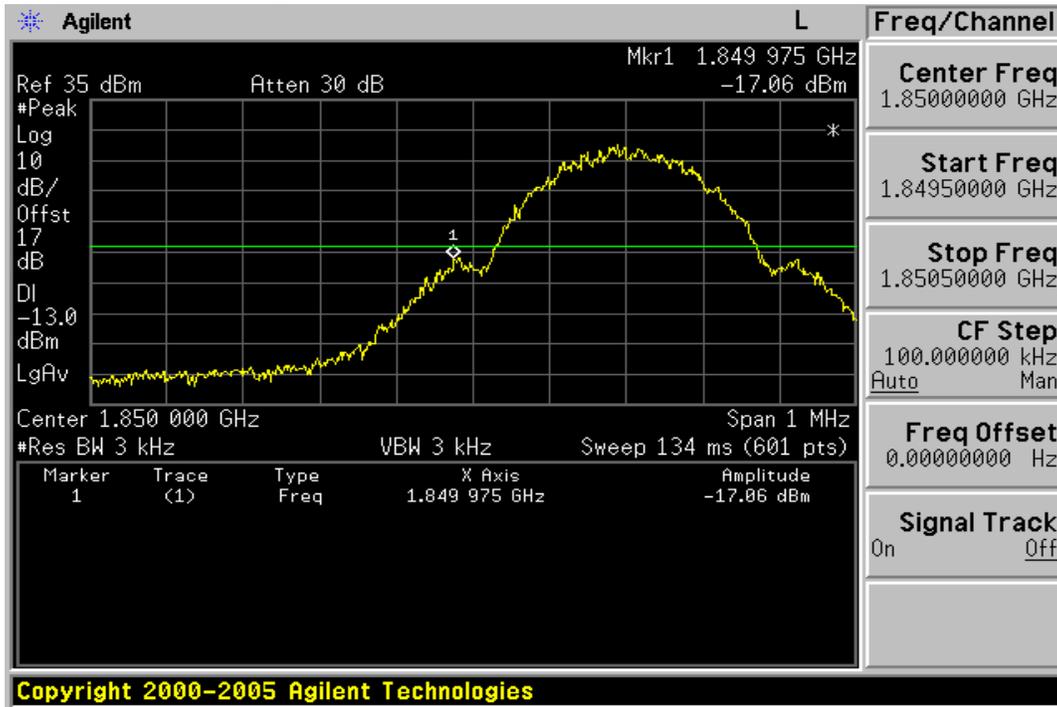
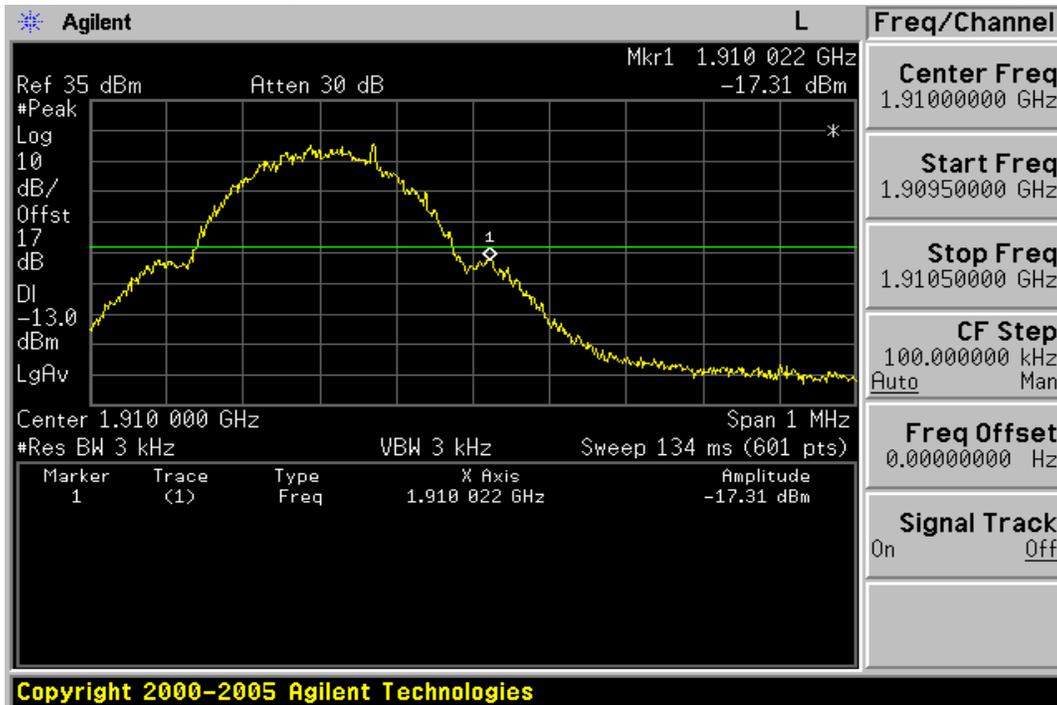
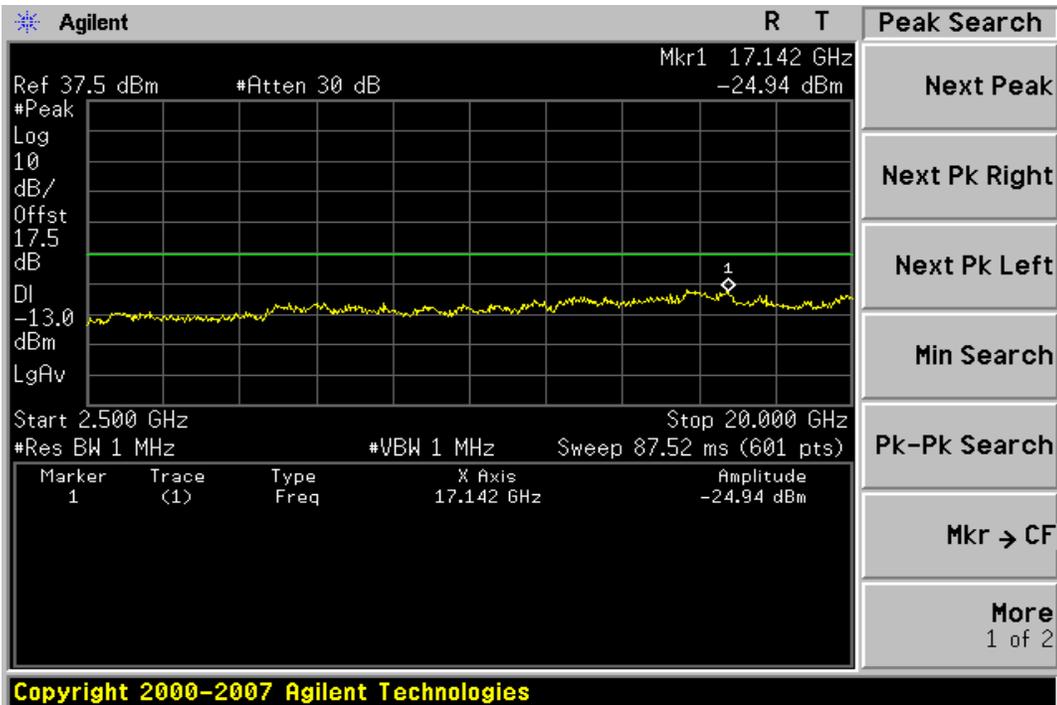
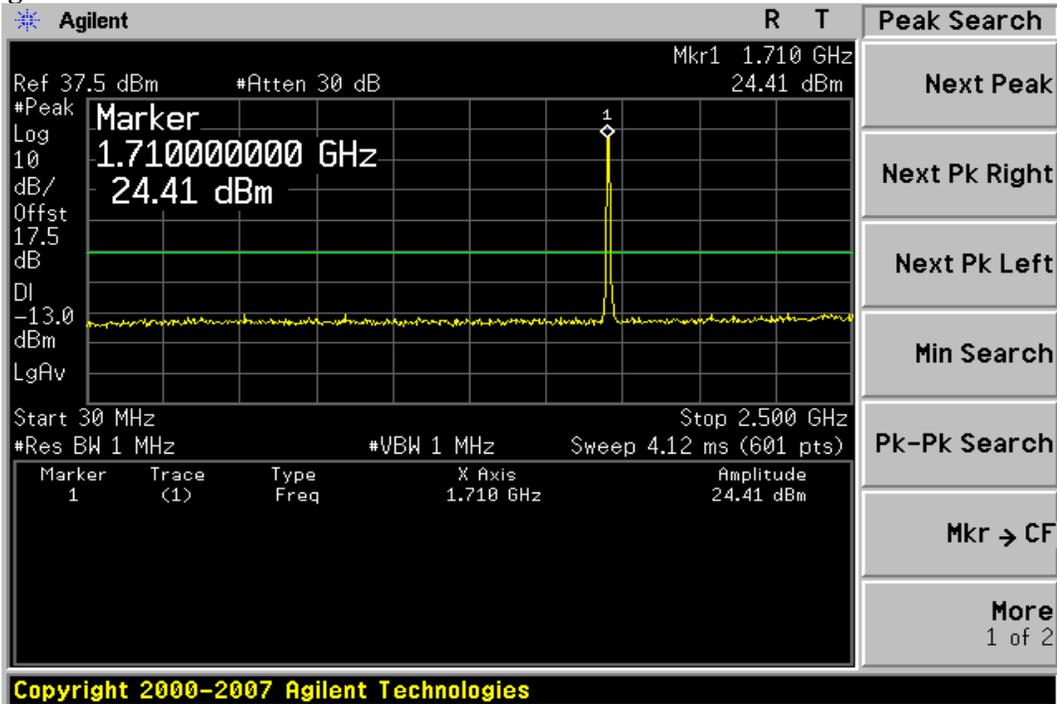


Figure 8-10: Band edge emission at antenna terminals – PCS 1900 Channel Highest



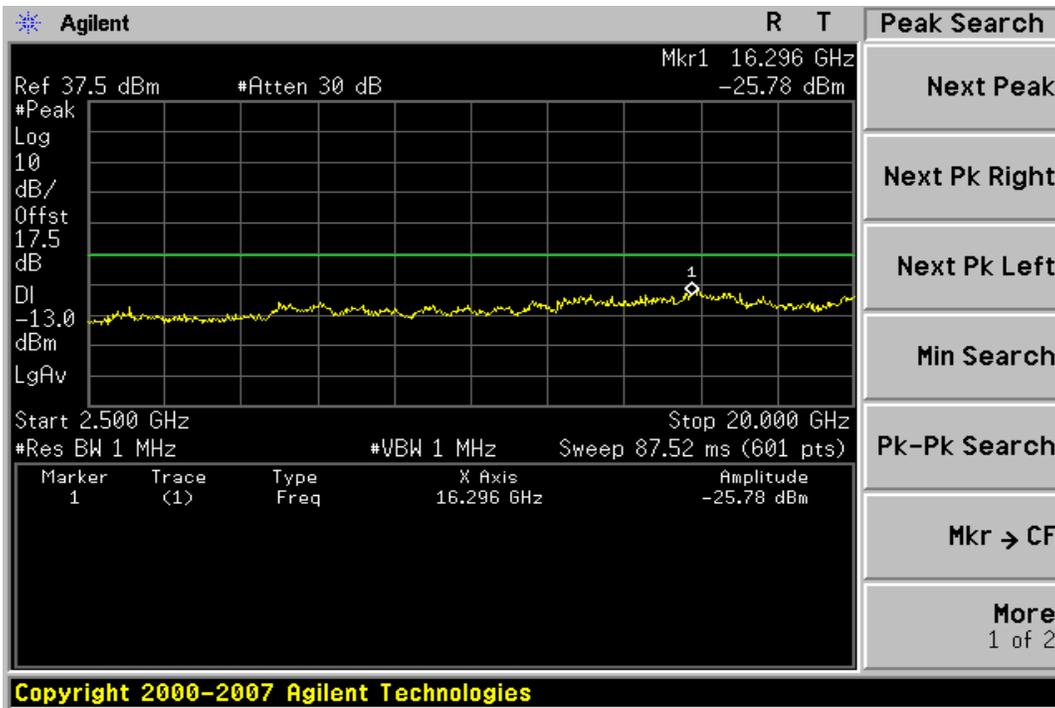
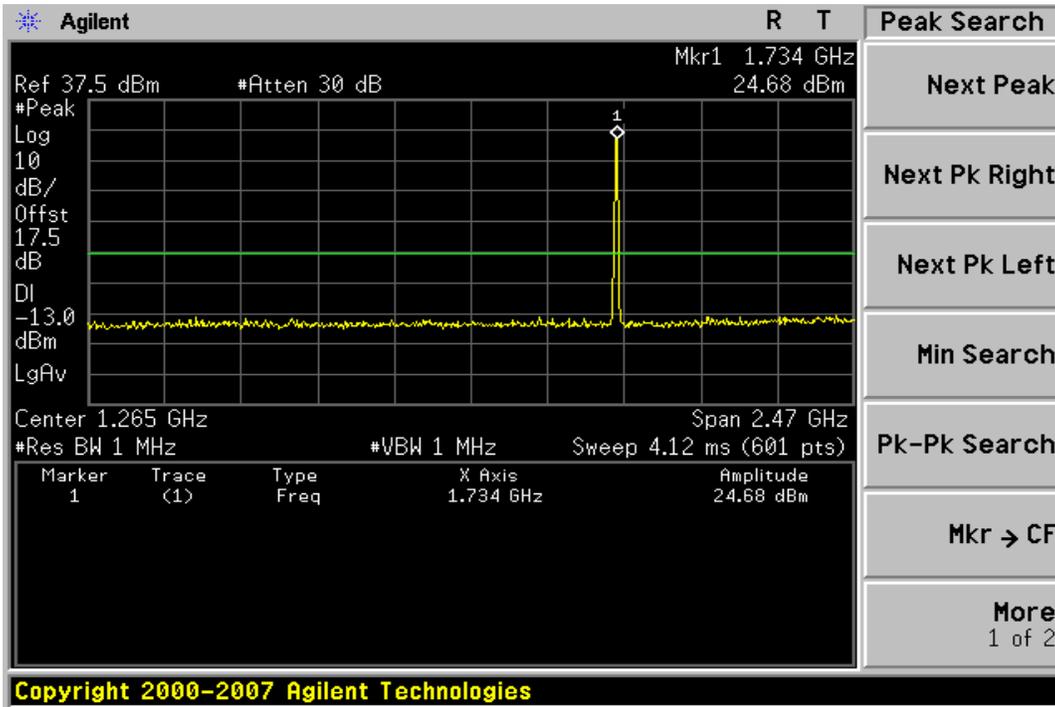
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Figure 8-11: Out of Band emission at antenna terminals–WCDMA IV Channel Lowest



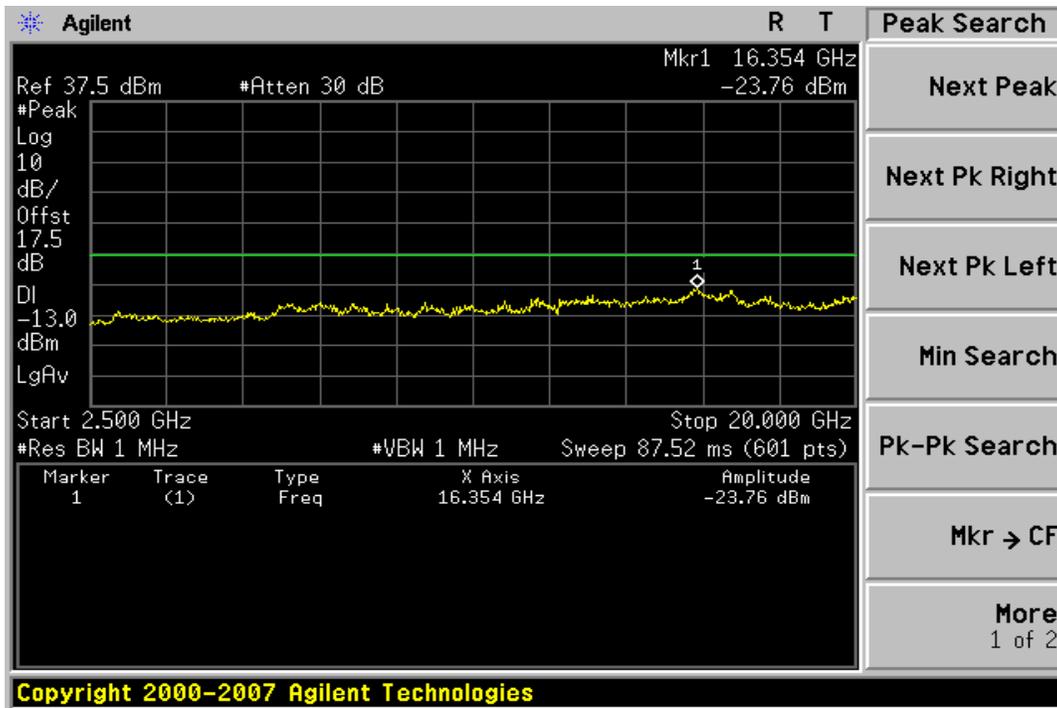
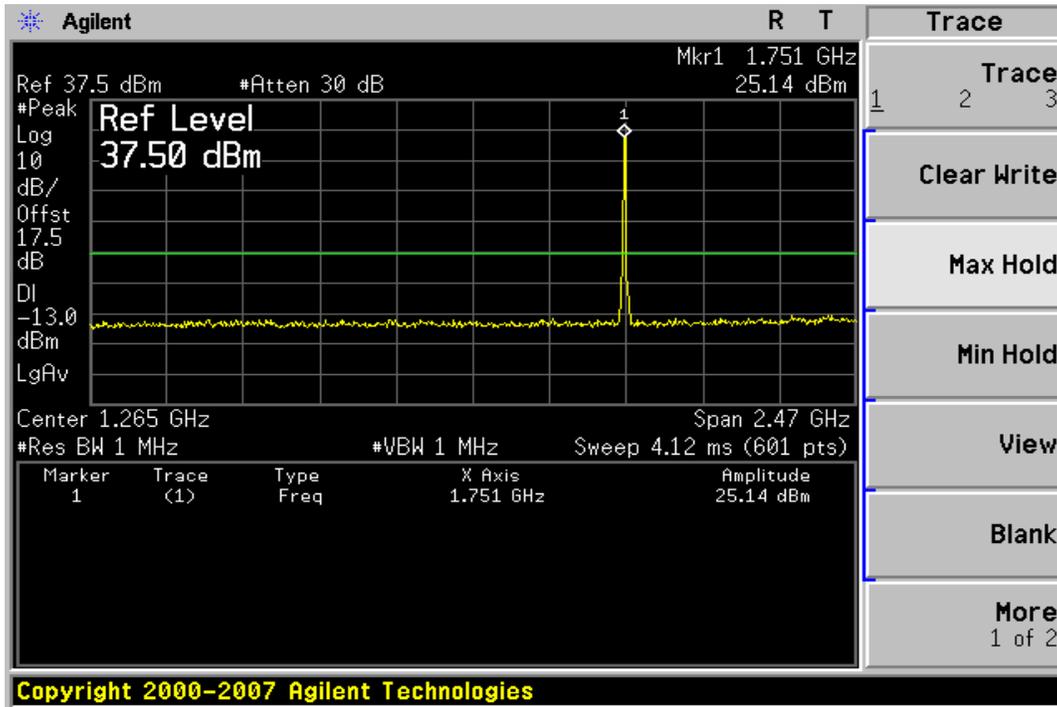
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Figure 8-12: Out of Band emission at antenna terminals –WCDMA IV Channel Mid



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Figure 8-13: Out of Band emission at antenna terminals–WCDMA IV Channel Highest



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Figure 8-14: Bad edge emission at antenna terminals –WCDMA IV Channel Lowest

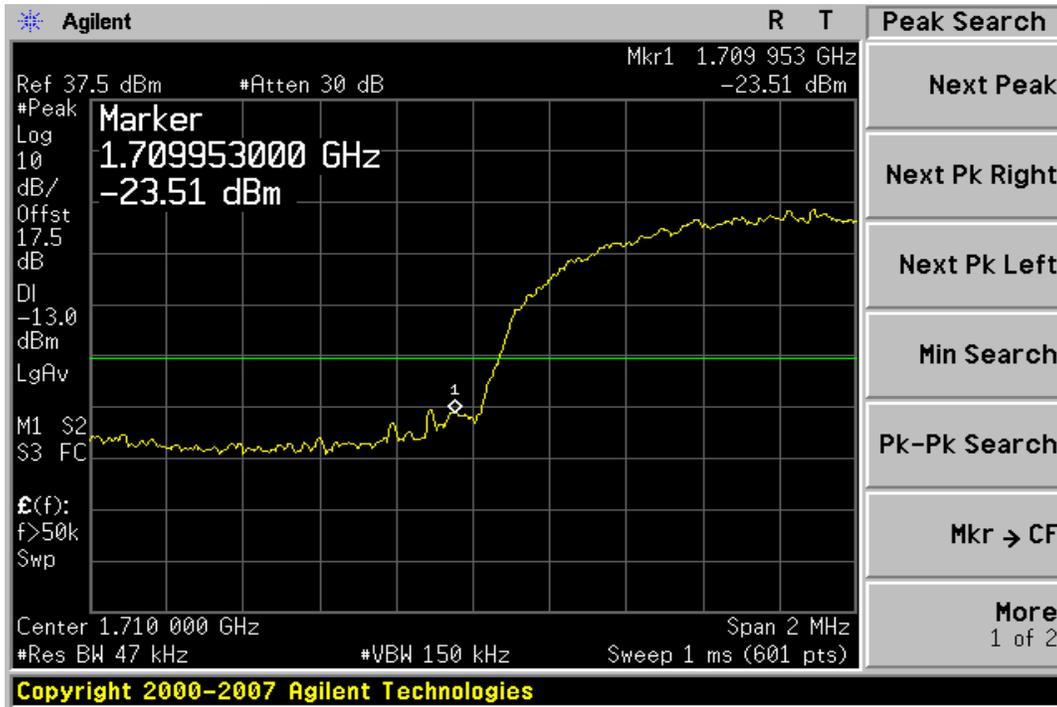
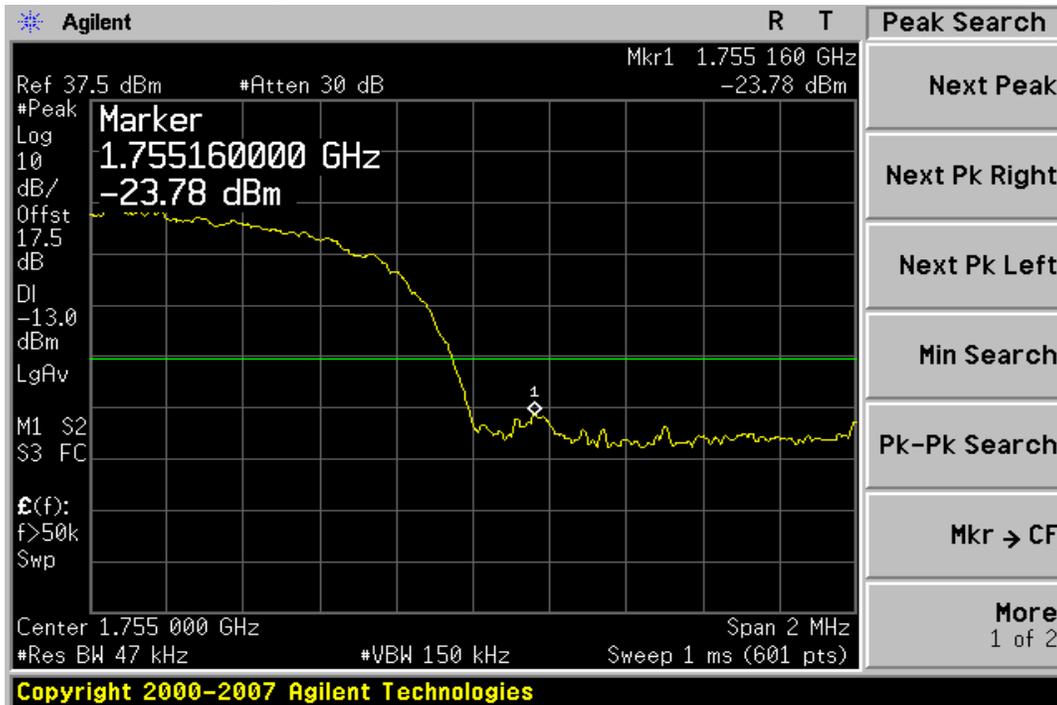


Figure 8-15: Band edge emission at antenna terminals –WCDMA IV Channel Highest



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1. 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)

9.2. EUT Setup (Block Diagram of Configuration):

Refer to section 6.2 in this report

9.3. 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 were identified, the power of the emission was determined using the substitution method.

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

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

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

9.4. Measurement Equipment Used:

Refer to section 2.4 in this report

9.5. Measurement Result:

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low E1 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA. Reading (dBuV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
58.13	48.38	V	-62.12	-0.49	1.08	-63.68	-13.00	-50.68
92.08	46.51	V	-56.42	-7.75	1.29	-65.46	-13.00	-52.46
153.19	32.40	V	-65.18	-7.80	1.60	-74.58	-13.00	-61.58
240.49	31.69	V	-68.56	-7.88	1.94	-78.38	-13.00	-65.38
449.04	31.67	V	-62.29	-7.70	2.66	-72.65	-13.00	-59.65
824.00	83.56	V	-2.83	-7.87	3.62	-14.33	-13.00	-1.33
1648.40	41.08	V	-63.50	9.29	5.23	-59.44	-13.00	-46.44
2472.60	55.88	V	-45.13	10.08	6.53	-41.58	-13.00	-28.58
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: GSM 850 Mode

Operation Mode	: TX CH Low E1 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 824.20 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

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)
41.64	42.33	H	-61.18	-2.31	0.93	-64.42	-13.00	-51.42
75.59	41.78	H	-70.58	-1.85	1.19	-73.62	-13.00	-60.62
104.69	39.25	H	-63.26	-7.76	1.38	-72.40	-13.00	-59.40
153.19	31.47	H	-66.55	-7.80	1.60	-75.95	-13.00	-62.95
446.13	31.63	H	-62.46	-7.70	2.65	-72.80	-13.00	-59.80
824.00	75.59	H	-10.68	-7.87	3.62	-22.18	-13.00	-9.18
1648.40	42.16	H	-62.24	9.29	5.23	-58.18	-13.00	-45.18
2472.60	55.06	H	-45.85	10.08	6.53	-42.30	-13.00	-29.30
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: GSM 850 Mode

Operation Mode	: TX CH Mid E1 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 836.60 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

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)
90.14	47.29	V	-55.89	-7.75	1.27	-64.91	-13.00	-51.91
143.49	32.85	V	-65.04	-7.79	1.56	-74.40	-13.00	-61.40
286.08	31.38	V	-67.33	-7.91	2.12	-77.36	-13.00	-64.36
392.78	32.60	V	-63.21	-7.66	2.49	-73.35	-13.00	-60.35
533.43	31.85	V	-61.19	-7.75	2.91	-71.84	-13.00	-58.84
1673.20	43.24	V	-61.32	9.36	5.27	-57.22	-13.00	-44.22
2509.80	57.79	V	-42.99	10.09	6.58	-39.49	-13.00	-26.49
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Mid E1 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 836.60 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

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)
72.68	41.69	H	-70.64	-1.45	1.18	-73.26	-13.00	-60.26
104.69	38.81	H	-63.70	-7.76	1.38	-72.84	-13.00	-59.84
148.34	31.38	H	-66.56	-7.80	1.58	-75.94	-13.00	-62.94
385.99	31.74	H	-64.91	-7.65	2.47	-75.03	-13.00	-62.03
538.28	31.46	H	-60.67	-7.75	2.92	-71.34	-13.00	-58.34
1673.20	43.58	H	-60.80	9.36	5.27	-56.70	-13.00	-43.70
2509.80	52.89	H	-47.81	10.09	6.58	-44.31	-13.00	-31.31
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: GSM 850 Mode

Operation Mode	: TX CH High E1 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 848.80 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

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)
56.19	49.36	V	-60.30	-0.51	1.09	-61.91	-13.00	-48.91
90.14	47.02	V	-56.16	-7.75	1.27	-65.18	-13.00	-52.18
153.19	32.41	V	-65.17	-7.80	1.60	-74.57	-13.00	-61.57
288.99	31.79	V	-66.82	-7.91	2.13	-76.86	-13.00	-63.86
429.64	31.35	V	-63.22	-7.68	2.60	-73.50	-13.00	-60.50
850.00	84.24	V	-1.87	-7.88	3.68	-13.43	-13.00	-0.43
1697.60	44.29	V	-60.25	9.44	5.31	-56.12	-13.00	-43.12
2546.40	53.09	V	-47.55	10.20	6.63	-43.99	-13.00	-30.99
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: GSM 850 Mode

Operation Mode	: TX CH High E1 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 848.80 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

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)
72.68	40.81	H	-71.52	-1.45	1.18	-74.14	-13.00	-61.14
104.69	37.89	H	-64.62	-7.76	1.38	-73.76	-13.00	-60.76
148.34	30.90	H	-67.04	-7.80	1.58	-76.42	-13.00	-63.42
310.33	31.02	H	-66.54	-7.86	2.21	-76.62	-13.00	-63.62
421.88	31.69	H	-63.63	-7.68	2.58	-73.88	-13.00	-60.88
850.00	77.47	H	-8.72	-7.88	3.68	-20.28	-13.00	-7.28
1697.60	46.85	H	-57.50	9.44	5.31	-53.37	-13.00	-40.37
2546.40	55.66	H	-44.94	10.20	6.63	-41.38	-13.00	-28.38
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: PCS 1900 Mode

Operation Mode : TX CH Low E2 Mode Test Date: Aug. 13, 2009
 Fundamental Frequency : 1850.20MHz Test By: Jazz
 Temperature : 25°C Pol: Ver
 Humidity : 65%

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)
90.14	47.63	V	-55.55	-7.75	1.27	-64.57	-13.00	-51.57
153.19	32.56	V	-65.02	-7.80	1.60	-74.42	-13.00	-61.42
303.54	32.24	V	-65.97	-7.90	2.18	-76.05	-13.00	-63.05
419.94	32.24	V	-62.63	-7.68	2.57	-72.88	-13.00	-59.88
618.79	32.56	V	-56.77	-7.80	3.08	-67.64	-13.00	-54.64
1850.00	80.83	V	-23.56	9.90	5.56	-19.22	-13.00	-6.22
3700.40	45.03	V	-52.90	12.61	8.31	-48.60	-13.00	-35.60
5550.60	46.68	V	-44.16	13.23	10.33	-41.26	-13.00	-28.26
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: PCS 1900 Mode

Operation Mode	: TX CH Low E2 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1850.20MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

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)
67.83	39.27	H	-72.79	-0.95	1.14	-74.88	-13.00	-61.88
104.69	38.70	H	-63.81	-7.76	1.38	-72.95	-13.00	-59.95
148.34	30.46	H	-67.48	-7.80	1.58	-76.86	-13.00	-63.86
310.33	32.52	H	-65.04	-7.86	2.21	-75.12	-13.00	-62.12
458.74	31.79	H	-62.02	-7.70	2.68	-72.41	-13.00	-59.41
1850.00	79.19	H	-24.99	9.90	5.56	-20.65	-13.00	-7.65
3700.40	47.11	H	-50.93	12.61	8.31	-46.63	-13.00	-33.63
5550.60	47.17	H	-43.88	13.23	10.33	-40.98	-13.00	-27.98
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: PCS 1900 Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1880MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBUV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
94.99	44.73	V	-57.83	-7.75	1.31	-66.90	-13.00	-53.90
153.19	31.50	V	-66.08	-7.80	1.60	-75.48	-13.00	-62.48
247.28	31.91	V	-68.08	-7.89	1.97	-77.94	-13.00	-64.94
441.28	31.52	V	-62.68	-7.69	2.63	-73.01	-13.00	-60.01
628.49	33.15	V	-56.05	-7.80	3.10	-66.96	-13.00	-53.96
3760.00	39.94	V	-57.72	12.60	8.39	-53.50	-13.00	-40.50
5640.00	47.97	V	-42.61	13.36	10.41	-39.66	-13.00	-26.66
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz - 1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: PCS 1900 Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1880MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBUV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
72.68	41.22	H	-71.11	-1.45	1.18	-73.73	-13.00	-60.73
104.69	38.15	H	-64.36	-7.76	1.38	-73.50	-13.00	-60.50
145.43	31.27	H	-66.98	-7.80	1.57	-76.34	-13.00	-63.34
453.89	31.86	H	-62.00	-7.70	2.67	-72.37	-13.00	-59.37
652.74	32.24	H	-57.37	-7.81	3.17	-68.35	-13.00	-55.35
3760.00	40.61	H	-57.16	12.60	8.39	-52.95	-13.00	-39.95
5640.00	45.96	H	-44.79	13.36	10.41	-41.84	-13.00	-28.84
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: PCS 1900 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1909.8 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

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)
90.14	47.57	V	-55.61	-7.75	1.27	-64.63	-13.00	-51.63
158.04	32.90	V	-65.11	-7.81	1.61	-74.53	-13.00	-61.53
264.74	32.23	V	-67.18	-7.90	2.04	-77.12	-13.00	-64.12
407.33	32.43	V	-62.84	-7.67	2.53	-73.04	-13.00	-60.04
560.59	34.84	V	-57.03	-7.77	2.97	-67.77	-13.00	-54.77
1910.00	80.56	V	-23.77	10.08	5.66	-19.35	-13.00	-6.35
3981.60	43.65	V	-53.01	12.60	8.69	-49.11	-13.00	-36.11
5972.40	46.22	V	-43.38	13.86	10.73	-40.26	-13.00	-27.26
7963.20	---	V		11.27	12.49		-13.00	
9954.00	---	V		12.08	14.24		-13.00	
11944.80	---	V		13.08	15.87		-13.00	
13935.60	---	V		11.82	17.21		-13.00	
15926.40	---	V		17.08	18.70		-13.00	
17917.20	---	V		9.63	19.97		-13.00	
19908.00	---	V		18.88	21.24		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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: PCS 1900 Mode

Operation Mode	: TX CH High E2 Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1909.8 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

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)
74.62	40.90	H	-71.45	-1.72	1.19	-74.35	-13.00	-61.35
104.69	38.91	H	-63.60	-7.76	1.38	-72.74	-13.00	-59.74
145.43	32.52	H	-65.73	-7.80	1.57	-75.09	-13.00	-62.09
284.14	31.82	H	-66.33	-7.91	2.11	-76.36	-13.00	-63.36
419.94	32.30	H	-63.12	-7.68	2.57	-73.36	-13.00	-60.36
1910.00	75.40	H	-28.71	10.08	5.66	-24.29	-13.00	-11.29
3981.60	47.42	H	-49.35	12.60	8.69	-45.45	-13.00	-32.45
5972.40	44.23	H	-45.40	13.86	10.73	-42.28	-13.00	-29.28
7963.20	---	H		11.27	12.49		-13.00	
9954.00	---	H		12.08	14.24		-13.00	
11944.80	---	H		13.08	15.87		-13.00	
13935.60	---	H		11.82	17.21		-13.00	
15926.40	---	H		17.08	18.70		-13.00	
17917.20	---	H		9.63	19.97		-13.00	
19908.00	---	H		18.88	21.24		-13.00	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 IV Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1712.4MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

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)
153.19	33.22	V	-64.68	-7.80	1.47	-73.95	-13.00	-60.95
327.79	32.31	V	-66.36	-7.76	2.26	-76.38	-13.00	-63.38
405.39	31.89	V	-64.01	-7.66	2.43	-74.11	-13.00	-61.11
630.43	32.26	V	-58.19	-7.80	2.98	-68.97	-13.00	-55.97
1709.85	54.92	V	-52.10	9.47	5.16	-47.78	-13.00	-34.78
3424.80	38.42	V	-64.11	12.45	7.35	-59.02	-13.00	-46.02
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 IV Mode

Operation Mode	: TX CH Low H Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1712.4MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

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)
72.68	40.44	H	-71.89	-1.45	1.03	-74.37	-13.00	-61.37
104.69	38.45	H	-64.32	-7.76	1.24	-73.32	-13.00	-60.32
150.28	30.86	H	-67.74	-7.80	1.47	-77.01	-13.00	-64.01
308.39	31.45	H	-67.75	-7.87	2.07	-77.69	-13.00	-64.69
431.58	33.96	H	-61.79	-7.69	2.51	-71.98	-13.00	-58.98
1709.85	67.51	H	-39.46	9.47	5.16	-35.15	-13.00	-22.15
3424.80	48.18	H	-54.08	12.45	7.35	-48.99	-13.00	-35.99
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 IV Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1732.6MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

Freq. (MHz)	SPA Reading (dBUV)	Ant.Pol. H/V	S.G Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
72.68	40.64	H	-71.69	-1.45	1.03	-74.17	-13.00	-61.17
90.14	39.17	H	-64.52	-7.75	1.16	-73.44	-13.00	-60.44
148.34	30.29	H	-68.44	-7.80	1.46	-77.70	-13.00	-64.70
322.94	30.94	H	-67.55	-7.79	2.21	-77.55	-13.00	-64.55
418.97	31.30	H	-64.68	-7.68	2.47	-74.83	-13.00	-61.83
3465.20	55.47	H	-46.76	12.53	7.38	-41.61	-13.00	-28.61
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 IV Mode

Operation Mode	: TX CH High H Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1752.6 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

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)
90.14	48.79	V	-55.60	-7.75	1.16	-64.51	-13.00	-51.51
153.19	32.66	V	-65.24	-7.80	1.47	-74.51	-13.00	-61.51
361.74	31.89	V	-65.61	-7.64	2.46	-75.72	-13.00	-62.72
444.19	32.29	V	-62.50	-7.70	2.55	-72.74	-13.00	-59.74
560.59	32.51	V	-60.00	-7.77	2.78	-70.55	-13.00	-57.55
1755.06	51.27	V	-55.73	9.61	5.24	-51.36	-13.00	-38.36
3505.20	36.30	V	-66.18	12.61	7.42	-60.98	-13.00	-47.98
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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 IV Mode

Operation Mode	: TX CH High H Mode	Test Date:	Aug. 13, 2009
Fundamental Frequency	: 1752.6 MHz	Test By:	Jazz
Temperature	: 25°C	Pol:	Hor
Humidity	: 65%		

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)
67.83	48.46	H	-63.60	-0.95	1.00	-65.54	-13.00	-52.54
90.14	42.56	H	-61.13	-7.75	1.16	-70.05	-13.00	-57.05
153.19	31.90	H	-66.89	-7.80	1.47	-76.16	-13.00	-63.16
392.78	32.23	H	-64.23	-7.66	2.42	-74.31	-13.00	-61.31
458.74	33.11	H	-62.03	-7.70	2.59	-72.32	-13.00	-59.32
1755.06	66.07	H	-40.88	9.61	5.24	-36.51	-13.00	-23.51
3505.20	42.77	H	-59.41	12.61	7.42	-54.22	-13.00	-41.22
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	

Measurement uncertainty	30MHz - 80MHz: 5.04dB
	80MHz -1000MHz: 3.76dB
	1GHz - 13GHz: 4.45dB

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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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1. Standard Applicable:

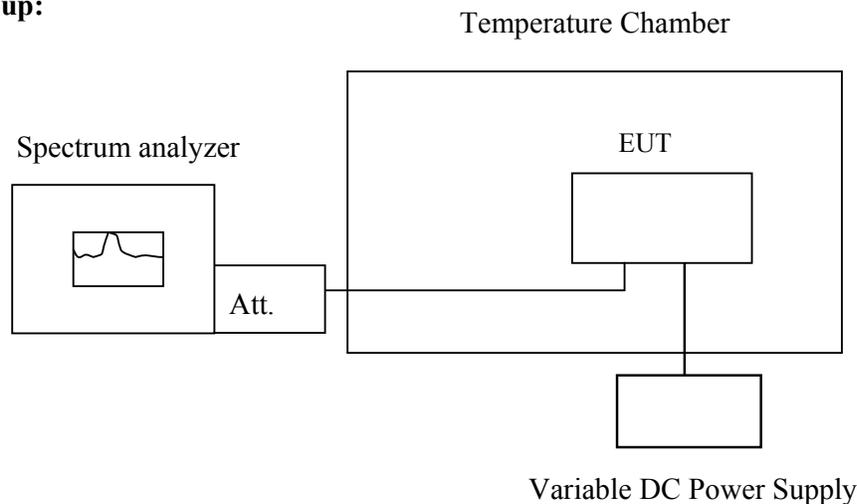
According to FCC §2.1055(a) (1)

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

+/-2.5ppm for 1900MHz band

§27.54: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

10.2. Test Set-up:



Note : Measurement setup for testing on Antenna connector

10.3. 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.

10.4. Measurement Equipment Used:

Refer to section 2.4 in this report

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10.5. Measurement Result:

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	836.599997	-1.00	2091
3.7	-20	836.599992	4.00	2091
3.7	-10	836.599991	5.00	2091
3.7	0	836.599995	1.00	2091
3.7	10	836.599994	56.00	2091
3.7	20	836.599996	0.00	2091
3.7	30	836.599998	-2.00	2091
3.7	40	836.599996	0.00	2091
3.7	50	836.599992	4.00	2091

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1879.999987	3.00	4700
3.7	-20	1879.999979	11.00	4700
3.7	-10	1879.999980	10.00	4700
3.7	0	1879.999982	8.00	4700
3.7	10	1879.999985	5.00	4700
3.7	20	1879.999990	0.00	4700
3.7	30	1879.999993	-3.00	4700
3.7	40	1879.999991	-1.00	4700
3.7	50	1879.999986	4.00	4700

Note: The battery is rated 3.7V dc.

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Reference Frequency: WCDMA IV Mid Channel 1732.6(ARFCN1413) MHz @ 25°C				
Limit: +/- 2.5 ppm = 4331 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1732.5999980	1.00	4331
3.7	-20	1732.5999930	6.00	4331
3.7	-10	1732.6000060	-7.00	4331
3.7	0	1732.5999970	2.00	4331
3.7	10	1732.5999960	3.00	4331
3.7	20	1732.5999990	0.00	4331
3.7	30	1732.5999940	5.00	4331
3.7	40	1732.5999970	2.00	4331
3.7	50	1732.5999990	0.00	4331

Note: The battery is rated 3.7V dc.

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11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

11.1. Standard Applicable:

According to FCC §2.1055(a) (1)

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

+/-2.5ppm for 1900MHz band

§27.54: The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

11.2. Test Set-up:

Refer to section 10.2 in this report

11.3. 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.

11.4. Measurement Equipment Used:

Refer to section 2.4 in this report

11.5. Measurement Result:

Reference Frequency: GSM Mid Channel 836.6 MHz @ 25°C				
Limit: +/- 2.5 ppm = 2091 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.25	25.00	836.599997	2.00	2091.00
3.70	25.00	836.599999	0.00	2091.00
3.15	25.00	836.599998	1.00	2091.00
3.1 (End Point)	25.00	836.599990	9.00	2091.00

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.25	25	1879.999998	-2.00	4700
3.7	25	1879.999996	0.00	4700
3.145	25	1879.999993	3.00	4700
3.1 (Endpoint)	25	1879.999987	9.00	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz(ARFCN1413) @ 25°C				
Limit: +/- 2.5 ppm = 4331 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.25	25	1732.5999990	-1.00	4331
3.7	25	1732.5999980	0.00	4331
3.145	25	1732.5999960	2.00	4331
3.1 (Endpoint)	25	1732.6000010	-3.00	4331

Note: The battery is rated 3.7V dc.

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12. AC POWER LINE CONDUCTED EMISSION TEST

12.1. Standard Applicable:

According to §15.207. The emission value for frequency within 150KHz to 30MHz shall not exceed criteria of below chart.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in DC power adaptor and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 120Vac/60Hz power source.

12.3. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

12.4. Measurement Equipment Used:

Refer to section 2.4 in this report

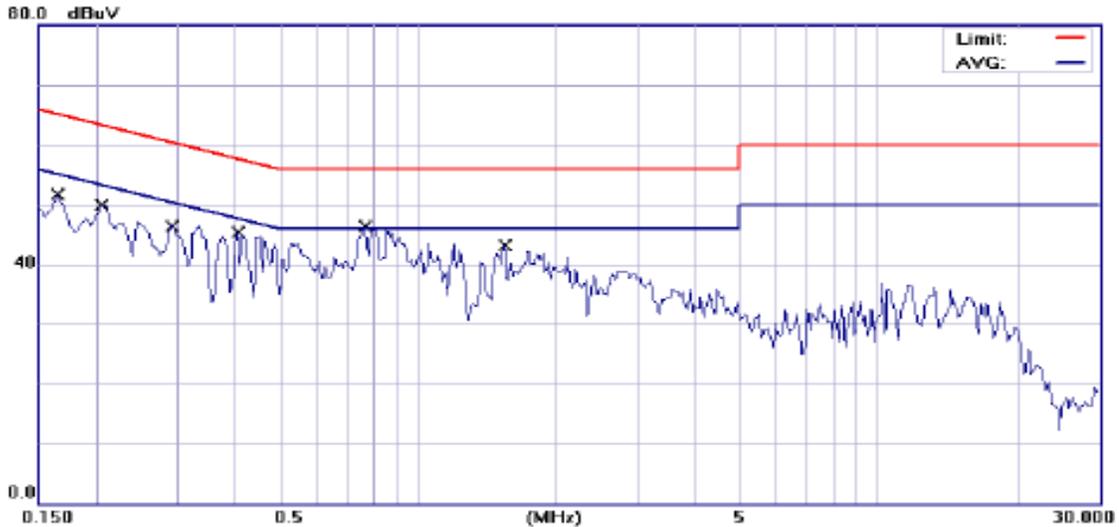
12.5. Measurement Result;

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK		Test Date:	Aug. 12, 2009	
Temperature:	23 °C	Humidity:	59 %	Test By:	Jazz



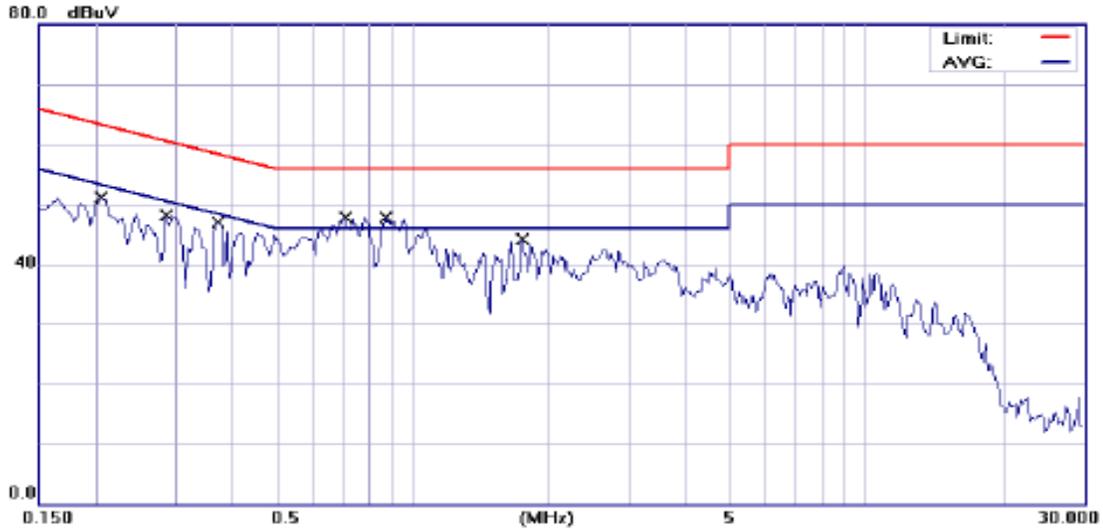
Site: SGS CONDUCTED #1
 Limit: CISPR22/11 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: SAPP310
 Note: GSM 850 LINK MODE

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 23 °C
 Humidity: 59 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	48.20	0.16	48.36	65.21	-16.85	QP	
2		0.1650	33.00	0.16	33.16	55.21	-22.05	AVG	
3		0.2050	46.60	0.12	46.72	63.41	-16.69	QP	
4		0.2050	30.20	0.12	30.32	53.41	-23.09	AVG	
5		0.2950	42.70	0.10	42.80	60.38	-17.58	QP	
6		0.2950	30.80	0.10	30.90	50.38	-19.48	AVG	
7		0.4050	41.00	0.08	41.08	57.75	-16.67	QP	
8		0.4050	28.00	0.08	28.08	47.75	-19.67	AVG	
9	*	0.7700	41.40	0.08	41.48	56.00	-14.52	QP	
10		0.7700	28.40	0.08	28.48	46.00	-17.52	AVG	
11		1.5400	33.60	0.11	33.71	56.00	-22.29	QP	
12		1.5400	24.70	0.11	24.81	46.00	-21.19	AVG	

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Site: SGS CONDUCTED #1
 Limit: CISPR22/11 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: SAPP310
 Note: GSM 850 LINK MODE

Phase: N
 Power: AC 120V/60Hz
 Distance:

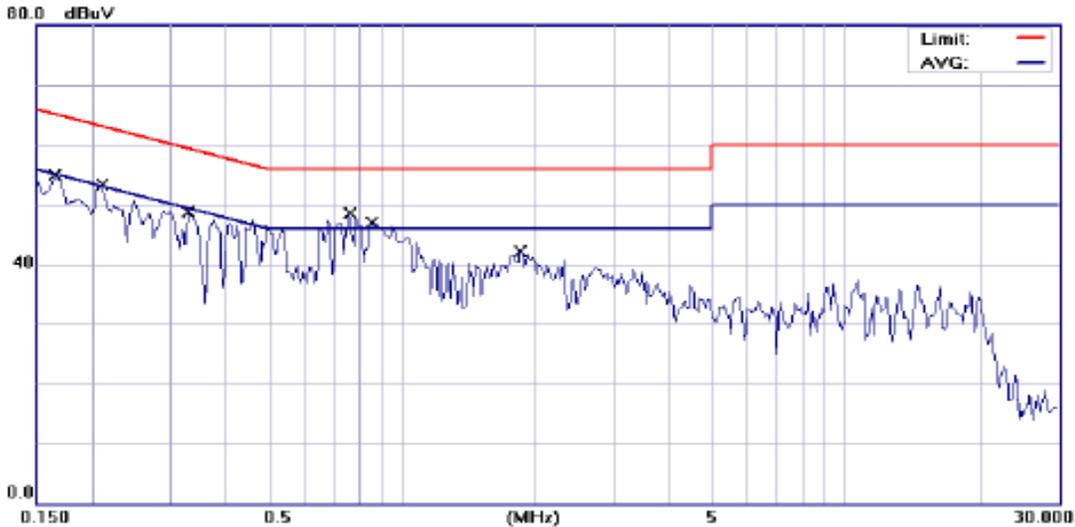
Temperature: 23 °C
 Humidity: 59 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2050	46.40	0.14	46.54	63.41	-16.87	QP	
2		0.2050	31.50	0.14	31.64	53.41	-21.77	AVG	
3		0.2850	43.50	0.13	43.63	60.87	-17.04	QP	
4		0.2850	31.60	0.13	31.73	50.87	-18.94	AVG	
5		0.3700	44.10	0.11	44.21	58.50	-14.29	QP	
6		0.3700	35.90	0.11	36.01	48.50	-12.49	AVG	
7	*	0.7100	43.90	0.11	44.01	56.00	-11.99	QP	
8		0.7100	30.60	0.11	30.71	46.00	-15.29	AVG	
9		0.8700	43.30	0.11	43.41	56.00	-12.59	QP	
10		0.8700	30.30	0.11	30.41	46.00	-15.59	AVG	
11		1.7400	39.50	0.14	39.64	56.00	-16.36	QP	
12		1.7400	25.60	0.14	25.74	46.00	-20.26	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

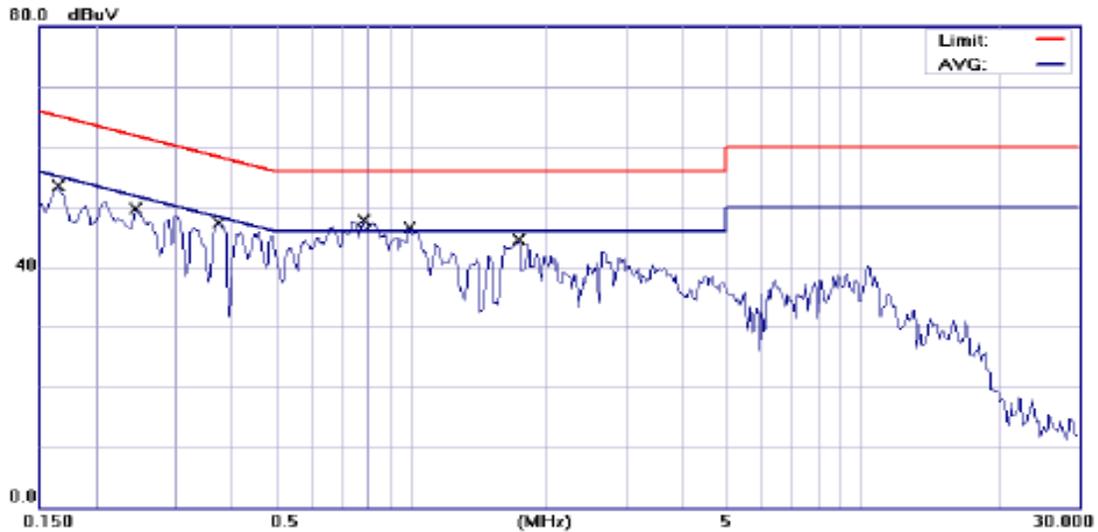
Operation Mode:	GSM 1900 Link		Test Date:	Aug. 12, 2009	
Temperature:	23 °C	Humidity:	59 %	Test By:	Jazz



Site SGS CONDUCTED #1 Phase: L1 Temperature: 23 °C
 Limit: CISPR22/11 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 59 %
 EUT: Pocket PC Phone Distance: Air Pressure: hpa
 M/N: SAPP310
 Note: GSM 1900 LINK MODE

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1650	50.50	0.16	50.66	65.21	-14.55	QP	
2		0.1650	34.80	0.16	34.96	55.21	-20.25	AVG	
3		0.2100	48.70	0.12	48.82	63.21	-14.39	QP	
4		0.2100	32.40	0.12	32.52	53.21	-20.69	AVG	
5		0.3300	44.30	0.09	44.39	59.45	-15.06	QP	
6		0.3300	31.50	0.09	31.59	49.45	-17.86	AVG	
7	*	0.7800	43.20	0.08	43.28	56.00	-12.72	QP	
8		0.7800	32.20	0.08	32.28	46.00	-13.72	AVG	
9		0.8500	41.50	0.08	41.58	56.00	-14.42	QP	
10		0.8500	31.30	0.08	31.38	46.00	-14.62	AVG	
11		1.8400	36.80	0.12	36.92	56.00	-19.08	QP	
12		1.8400	28.40	0.12	28.52	46.00	-17.48	AVG	

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Site: SGS CONDUCTED #1
 Limit: CISPR22/11 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: SAPP310
 Note: GSM 1900 LINK MODE

Phase: N
 Power: AC 120V/60Hz
 Distance:

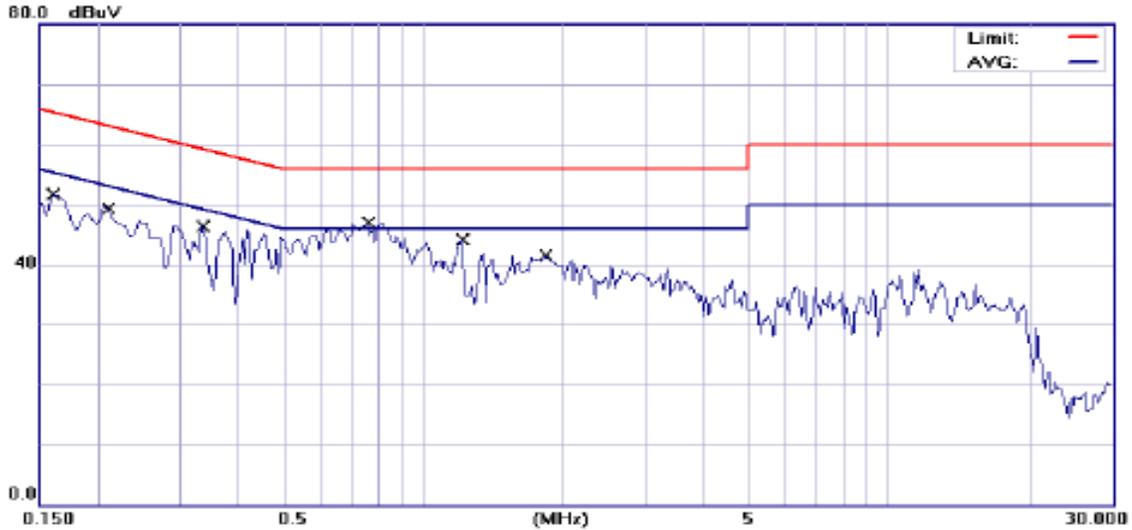
Temperature: 23 °C
 Humidity: 59 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1650	48.90	0.18	49.08	65.21	-16.13	QP	
2		0.1650	34.80	0.18	34.98	55.21	-20.23	AVG	
3		0.2450	44.00	0.13	44.13	61.92	-17.79	QP	
4		0.2450	29.30	0.13	29.43	51.92	-22.49	AVG	
5		0.3750	44.30	0.11	44.41	58.39	-13.98	QP	
6		0.3750	35.50	0.11	35.61	48.39	-12.78	AVG	
7	*	0.7800	44.40	0.11	44.51	56.00	-11.49	QP	
8		0.7800	30.70	0.11	30.81	46.00	-15.19	AVG	
9		0.9900	41.90	0.12	42.02	56.00	-13.98	QP	
10		0.9900	28.70	0.12	28.82	46.00	-17.18	AVG	
11		1.7300	39.50	0.14	39.64	56.00	-16.36	QP	
12		1.7300	26.00	0.14	26.14	46.00	-19.86	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMA IV Link		Test Date:	Aug. 12, 2009	
Temperature:	23 °C	Humidity:	59 %	Test By:	Jazz



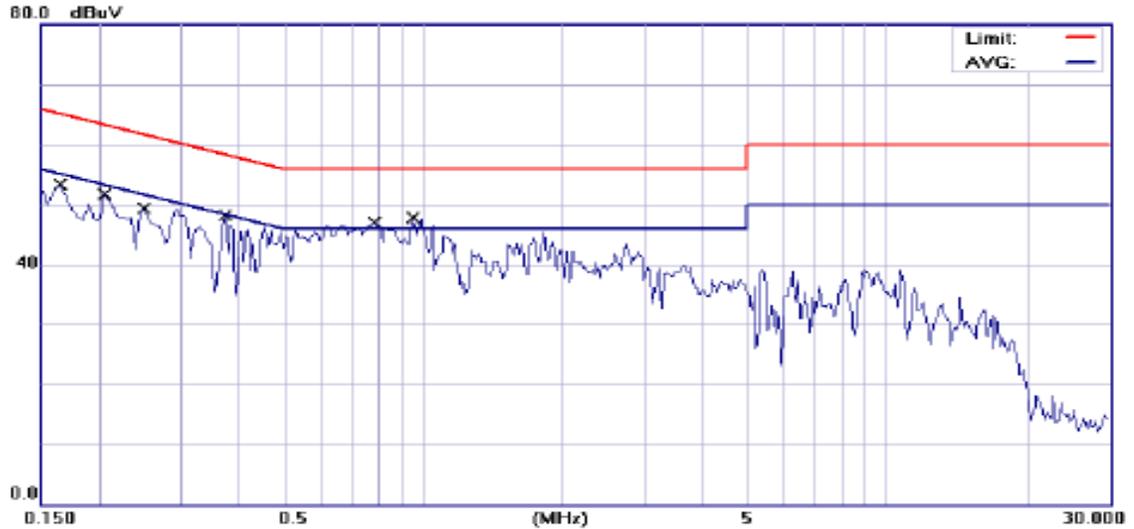
Site: SGS CONDUCTED #1
 Limit: CISPR22/11 Class B Conduction(QP)
 EUT: Pocket PC Phone
 M/N: SAPP310
 Note: WCDMA B4 LINK MODE

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 23 °C
 Humidity: 59 %
 Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1600	43.20	0.16	43.36	65.46	-22.10	QP	
2		0.1600	30.50	0.16	30.66	55.46	-24.80	AVG	
3		0.2117	41.50	0.12	41.62	63.14	-21.52	QP	
4		0.2117	29.10	0.12	29.22	53.14	-23.92	AVG	
5		0.3350	39.40	0.09	39.49	59.33	-19.84	QP	
6	*	0.3350	33.90	0.09	33.99	49.33	-15.34	AVG	
7		0.7600	35.00	0.08	35.08	56.00	-20.92	QP	
8		0.7600	22.20	0.08	22.28	46.00	-23.72	AVG	
9		1.2100	35.00	0.10	35.10	56.00	-20.90	QP	
10		1.2100	26.60	0.10	26.70	46.00	-19.30	AVG	
11		1.8200	37.80	0.12	37.92	56.00	-18.08	QP	
12		1.8200	27.20	0.12	27.32	46.00	-18.68	AVG	

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Site: SGS CONDUCTED #1 Phase: **N** Temperature: 23 °C
 Limit: CISPR22/11 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 59 %
 EUT: Pocket PC Phone Distance: Air Pressure: hpa
 M/N: SAPP310
 Note: WCDMA B4 LINK MODE

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1650	49.60	0.18	49.78	65.21	-15.43	QP	
2		0.1650	35.20	0.18	35.38	55.21	-19.83	AVG	
3		0.2050	48.40	0.14	48.54	63.41	-14.87	QP	
4		0.2050	33.30	0.14	33.44	53.41	-19.97	AVG	
5		0.2500	45.20	0.13	45.33	61.76	-16.43	QP	
6		0.2500	31.40	0.13	31.53	51.76	-20.23	AVG	
7		0.3750	44.50	0.11	44.61	58.39	-13.78	QP	
8		0.3750	34.60	0.11	34.71	48.39	-13.68	AVG	
9	*	0.7800	45.50	0.11	45.61	56.00	-10.39	QP	
10		0.7800	31.30	0.11	31.41	46.00	-14.59	AVG	
11		0.9500	43.60	0.12	43.72	56.00	-12.28	QP	
12		0.9500	30.10	0.12	30.22	46.00	-15.78	AVG	

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