

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and Part27

OF

Product Name: Dream

Brand Name: HTC

Model Name: DREA100

FCC ID: NM8DRM

Report No.: EH/2008/50016

Issue Date: Jun. 11, 2008

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.
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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: Dream

Brand Name: HTC

FCC ID: NM8DRM

Model No.: DREA100

Model Difference: N/A

File Number: EH/2008/50016

Date of test: May. 23, 2008 ~ Jun. 10, 2008

Date of EUT Received: May. 22, 2008

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-B-2002 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 Part27.

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

Test By:



Date

Jun. 11, 2008

Bondi Liu / Engineer

Prepared By:



Date

Jun. 11, 2008

Gigi Yeh / Clerk

Approved By



Date

Jun. 11, 2008

Vincent Su/Manager

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Version

Version No.	Date
00	Jun. 11, 2008

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1. GENERAL PRODUCT INFORMATION

General:

Product Name:	Dream	
Brand Name:	HTC	
Model Name:	DREA100	
Model Difference:	N/A	
Simple Hands-Free (SHF):	1 provide, Mode No.: CHM-311STV08002, Supplier: COTRON	
Data Cable (USB):	2 provide, Model: MEC/60-4426-300C;70H00272_00M	
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Battery:	1. Model: DREA160 2. P/N: 35H00106-01M
	Adapter:	Model: PSAA05A-050
	Car Charger:	Model: CLA05D-050A
Jog ball and EUT color description	Jog ball	EUT
	TMU Dark Green	Black color
	TMU Brown	Black color
	TMU Nude	Original color

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GSM:

Cellular Phone Standards Frequency Range and Power	GSM/GPRS 850	824 MHz– 849MHz	33 dBm
	EDGE 850	824 MHz– 849MHz	27 dBm
	GSM/GPRS 1900	1850MHz – 1910MHz	30 dBm
	EDGE 1900	1850MHz – 1910MHz	26 dBm
	WCDMA Band IV	1710MHz – 1755MHz	23 dBm
final amplifier voltage and current information		DC voltage (V)	DC current (mA)
	GSM 850	3.7Vdc	850
	GSM 1900	3.7Vdc	850
Type of Emission	GSM: 300KGXW EDGE: 300KG7W WCDMA: 4M20F9W		
IMEI	35827901002462600		
Antenna Designation	GSM850: PIFA Antenna, -1.5dBi GSM1900: PIFA Antenna. 0.5dBi		

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WLAN:

Frequency Range	2412 – 2462 MHz
Channel number	11 channels
Rated Power	802.11 b: 18.02 dBm (Peak) 802.11 g: 13.16 dBm (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, 0.5 dBi
Type of Emission	16M5M7D

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

Bluetooth:

Frequency Range	2402 – 2480MHz
Channel number	79 channels
Rated Power	1.25dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum (FHSS) (GFSK) ($\pi/4$ -DQPSK) (8DPSK)
Antenna Designation	PIFA Antenna, 0.5dBi

The EUT is compliance with Bluetooth 2.0 with EDR.

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

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1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **NM8DRM** 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 documented on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

The 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.

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.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant. The components list refers to BOM number "51H40446-00M".

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 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 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.

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2.4 Configuration of Tested System

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

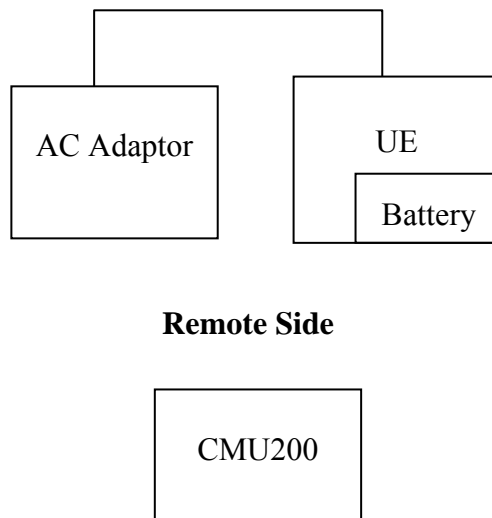


Table 2-1 Equipment Used in Tested System

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) §22.913(a) §24.232(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a) §24.232(a) §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(h)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(h)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1)(b) §27.54	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1)(2) §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	31.21	EIRP	1.321
GSM 1900 Band	27.59	EIRP	0.574
EDGE 850 Band	22.79	ERP	0.190
EDGE 1900 Band	20.25	EIRP	0.106
WCDMA Band IV	21.49	EIRP	0.141

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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 (E1 mode) and lie down position (E1, E2 mode) for GSM/GPRS/EDGE and WCDMA Band 4 with power adaptors. The worst-case of H position for GSM 850 band, H position for GSM 1900, E2 position WCDMA Band 4 were reported.

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5 RF POWER OUTPUT MEASUREMENT

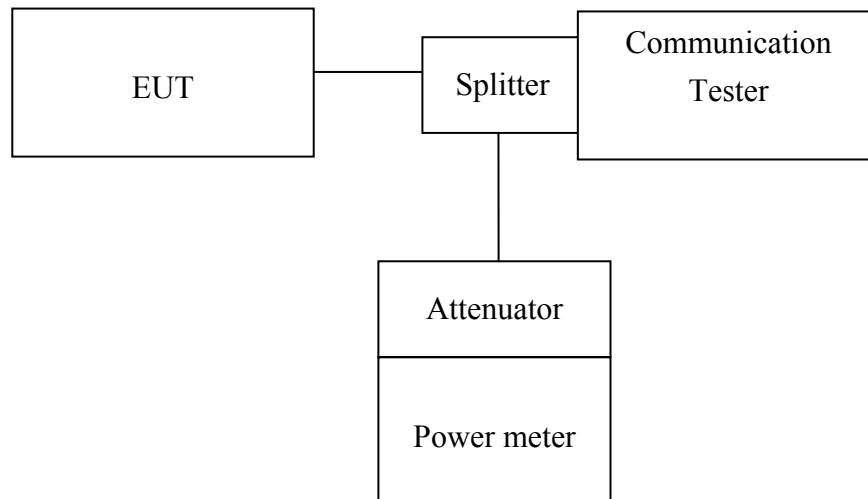
5.1 Standard Applicable

According to FCC §2.1046.

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

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

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.

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5.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/27/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/08/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2007	10/13/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2007	09/22/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008

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5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
GSM 850	824.20	128	15.3	16.90	32.20
	836.60	190	15.1	16.90	32.00
	848.80	251	14.8	16.90	31.70

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	13.4	16.90	30.30
	1880.00	661	13.3	16.90	30.20
	1909.80	810	13.1	16.90	30.00

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 850	824.20	128	8.00	17.80	25.80
	836.60	190	7.70	17.80	25.50
	848.80	251	7.30	17.80	25.10

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 1900	1850.20	512	5.90	17.80	23.70
	1880.00	661	5.70	17.80	23.50
	1909.80	810	6.40	17.80	24.20

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
WCDMA IV	1712.40	1312	7.66	15.60	23.26
	1732.60	1413	8.07	15.60	23.67
	1752.60	1513	8.17	15.60	23.77

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6 ERP, EIRP MEASUREMENT

6.1 Standard Applicable

According to FCC §2.1046

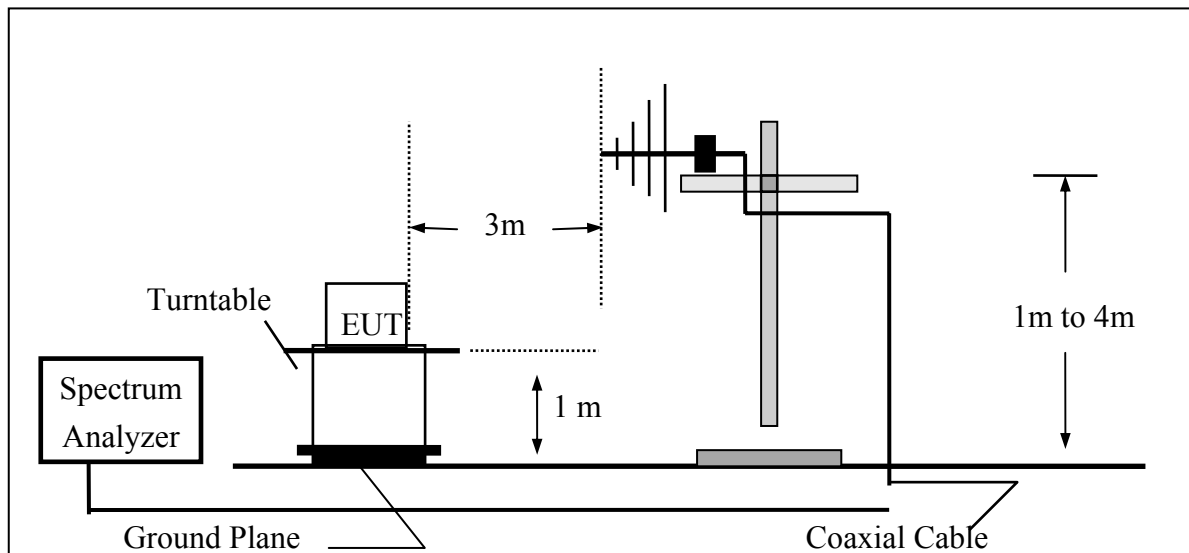
FCC 22.913(a) Mobile station are limited to 7W ERP.

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)

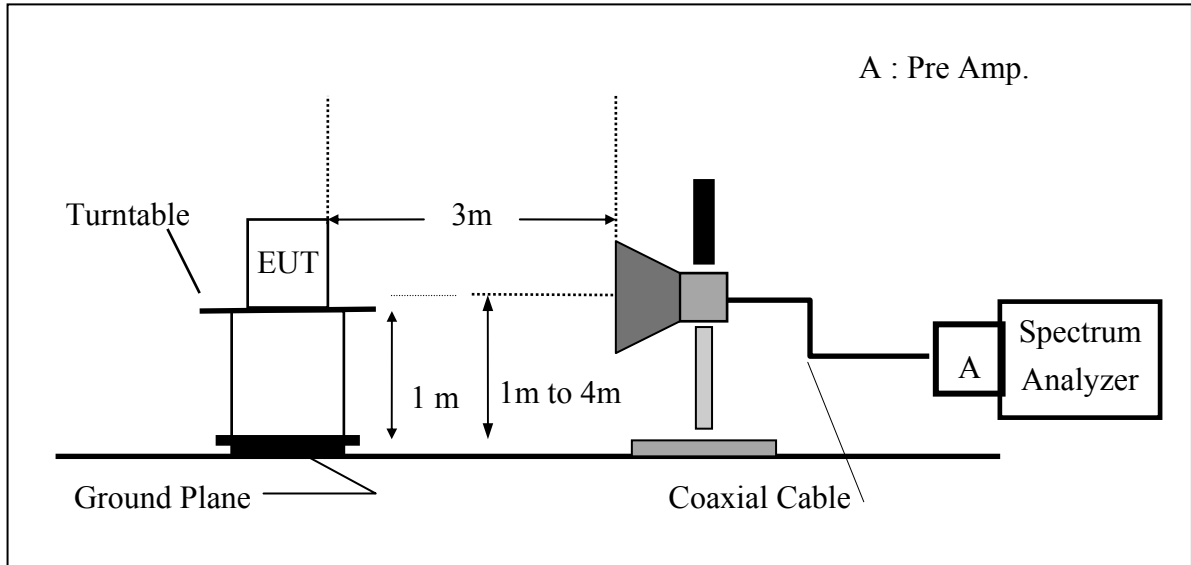
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



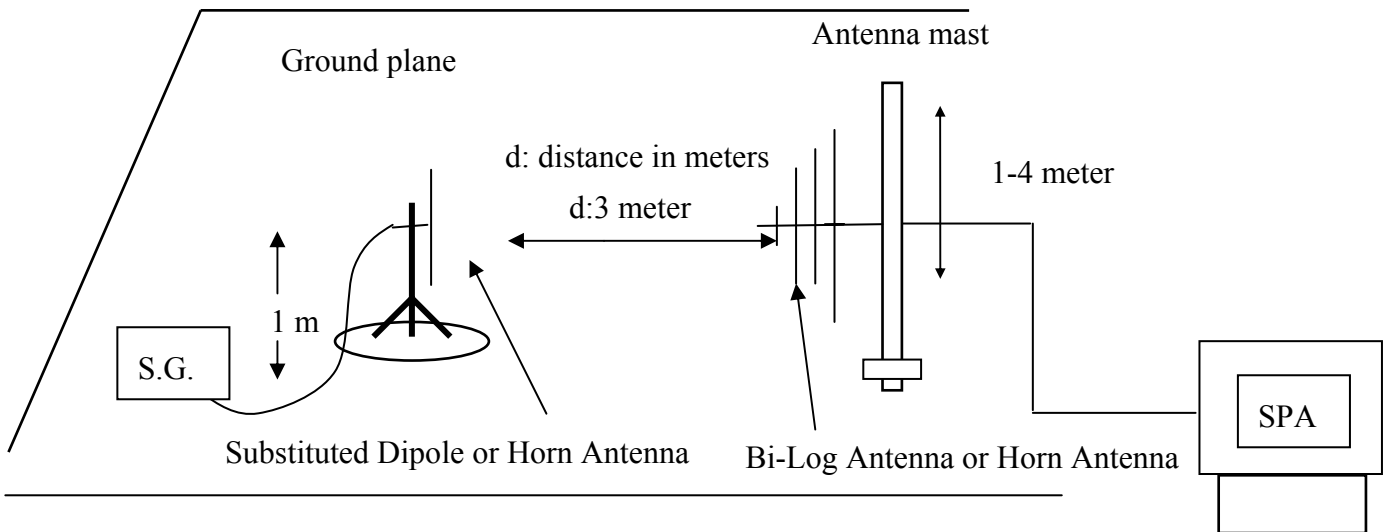
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3 Measurement Procedure

The EUT was placed on an 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 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or 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.

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6.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2007	06/10/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

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6.5 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	120.73	33.41	-7.87	3.64	21.89	38.45
				H	126.56	38.90	-7.87	3.64	27.39	38.45
			E1	V	121.91	34.59	-7.87	3.64	23.07	38.45
				H	127.39	39.73	-7.87	3.64	28.22	38.45
			E2	V	122.60	35.28	-7.87	3.64	23.76	38.45
				H	128.07	40.41	-7.87	3.64	28.90	38.45
	836.60	190	H	V	124.79	37.76	-7.88	3.70	26.19	38.45
				H	120.67	33.33	-7.88	3.70	21.76	38.45
			E1	V	125.28	38.25	-7.88	3.70	26.68	38.45
				H	120.74	33.40	-7.88	3.70	21.83	38.45
			E2	V	125.52	38.49	-7.88	3.70	26.92	38.45
				H	120.89	33.55	-7.88	3.70	21.98	38.45
	848.80	251	H	V	124.90	38.16	-7.88	3.75	26.53	38.45
				H	129.86	42.84	-7.88	3.75	31.21	38.45
			E1	V	122.60	35.86	-7.88	3.75	24.23	38.45
				H	129.35	42.33	-7.88	3.75	30.70	38.45
			E2	V	120.20	33.46	-7.88	3.75	21.83	38.45
				H	128.85	41.83	-7.88	3.75	30.20	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=100 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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6.6 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	132.29	16.50	9.90	3.77	22.63	33.00
				H	136.66	21.11	9.90	3.77	27.24	33.00
			E1	V	131.15	15.36	9.90	3.77	21.49	33.00
				H	136.09	20.54	9.90	3.77	26.67	33.00
			E2	V	130.87	15.08	9.90	3.77	21.21	33.00
				H	136.07	20.52	9.90	5.84	24.58	33.00
	1880.00	661	H	V	133.92	18.11	9.99	3.80	24.30	33.00
				H	136.96	21.40	9.99	3.80	27.59	33.00
			E1	V	133.43	17.62	9.99	3.80	23.81	33.00
				H	136.55	20.99	9.99	3.80	27.18	33.00
			E2	V	134.32	18.51	9.99	3.80	24.70	33.00
				H	136.81	21.25	9.99	3.80	27.44	33.00
	1909.80	810	H	V	137.08	21.25	10.08	3.83	27.50	33.00
				H	134.79	19.22	10.08	3.83	25.47	33.00
			E1	V	136.72	20.89	10.08	3.83	27.14	33.00
				H	134.05	18.48	10.08	3.83	24.73	33.00
			E2	V	136.25	20.42	10.08	3.83	26.67	33.00
				H	134.39	18.82	10.08	3.83	25.07	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=250 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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6.7 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 (EDGE)	824.20	128	H	V	113.30	25.98	-7.87	3.64	14.46	38.45
				H	120.12	32.46	-7.87	3.64	20.95	38.45
			E1	V	114.42	27.10	-7.87	3.64	15.58	38.45
				H	120.79	33.13	-7.87	3.64	21.62	38.45
			E2	V	115.66	28.34	-7.87	3.64	16.82	38.45
				H	121.27	33.61	-7.87	3.64	22.10	38.45
	836.60	190	H	V	118.45	31.42	-7.88	3.70	19.85	38.45
				H	112.50	25.16	-7.88	3.70	13.59	38.45
			E1	V	119.32	32.29	-7.88	3.70	20.72	38.45
				H	112.25	24.91	-7.88	3.70	13.34	38.45
			E2	V	120.38	33.35	-7.88	3.70	21.78	38.45
				H	112.75	25.41	-7.88	3.70	13.84	38.45
	848.80	251	H	V	116.04	29.30	-7.88	3.75	17.67	38.45
				H	121.44	34.42	-7.88	3.75	22.79	38.45
			E1	V	115.46	28.72	-7.88	3.75	17.09	38.45
				H	120.73	33.71	-7.88	3.75	22.08	38.45
			E2	V	114.38	27.64	-7.88	3.75	16.01	38.45
				H	120.13	33.11	-7.88	3.75	21.48	38.45

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=250 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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6.8 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 (EDGE)	1850.20	512	H	V	115.50	8.54	9.90	5.41	13.03	33.00
				H	120.91	14.02	9.90	5.41	18.51	33.00
			E1	V	117.03	10.07	9.90	5.41	14.56	33.00
				H	121.02	14.13	9.90	5.41	18.62	33.00
			E2	V	116.66	9.70	9.90	5.41	14.19	33.00
				H	123.08	16.19	9.90	5.84	20.25	33.00
	1880.00	661	H	V	119.02	12.07	9.99	5.46	16.60	33.00
				H	119.65	12.78	9.99	5.46	17.31	33.00
			E1	V	119.02	12.07	9.99	5.46	16.60	33.00
				H	120.05	13.18	9.99	5.46	17.71	33.00
			E2	V	119.70	12.75	9.99	5.46	17.28	33.00
				H	120.92	14.05	9.99	5.46	18.58	33.00
	1909.80	810	H	V	119.86	12.92	10.08	5.51	17.49	33.00
				H	118.60	11.75	10.08	5.51	16.31	33.00
			E1	V	120.99	14.05	10.08	5.51	18.62	33.00
				H	117.69	10.84	10.08	5.51	15.40	33.00
			E2	V	121.95	15.01	10.08	5.51	19.58	33.00
				H	119.45	12.60	10.08	5.51	17.16	33.00

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=250 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

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6.9 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 IV	1712.40	1312	H	V	112.44	5.48	9.90	5.41	9.98	30.00
				H	120.49	13.60	9.90	5.41	18.10	30.00
			E1	V	114.72	7.76	9.90	5.41	12.26	30.00
				H	122.94	16.05	9.90	5.41	20.55	30.00
			E2	V	116.24	9.28	9.90	5.41	13.78	30.00
				H	124.32	17.43	9.90	5.84	21.49	30.00
	1732.60	1413	H	V	119.52	12.57	9.99	5.46	17.10	30.00
				H	120.10	13.23	9.99	5.46	17.76	30.00
			E1	V	118.65	11.70	9.99	5.46	16.23	30.00
				H	119.74	12.87	9.99	5.46	17.40	30.00
			E2	V	119.89	12.94	9.99	5.46	17.47	30.00
				H	121.60	14.73	9.99	5.46	19.26	30.00
	1752.60	1513	H	V	119.21	12.27	10.07	5.51	16.84	30.00
				H	119.11	12.25	10.07	5.51	16.82	30.00
			E1	V	119.15	12.21	10.07	5.51	16.78	30.00
				H	118.02	11.16	10.07	5.51	15.73	30.00
			E2	V	121.05	14.11	10.07	5.51	18.68	30.00
				H	120.31	13.45	10.07	5.51	18.02	30.00

Remark :

- (1) The RBW,VBW of SPA for frequency
 Below 1GHz was RBW=250 KHz, VBW=300KHz,
 Above 1GHz was RBW= 1MHz , VBW= 3MHz

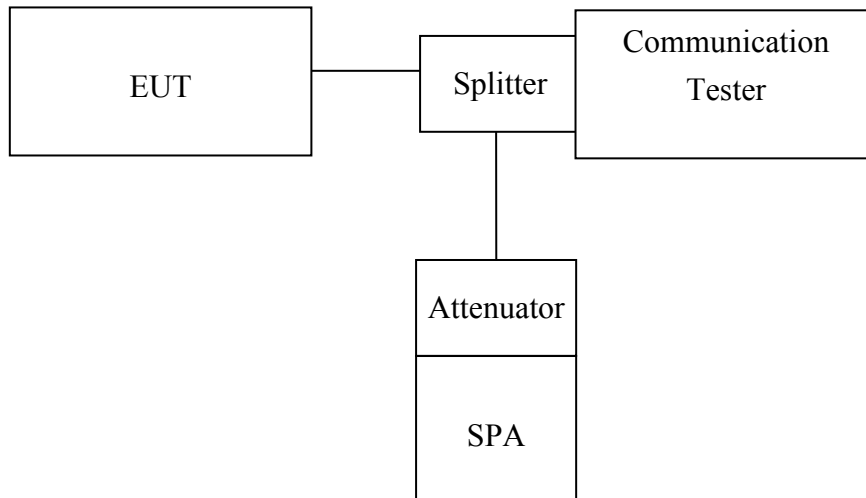
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7 99% OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

According to §FCC 2.1049.

7.2 Test Set-up:



Note: Measurement setup for testing on Antenna connector

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.

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7.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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7.5 Measurement Result:

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2456
	836.60	190	0.2460
	848.80	251	0.2432

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2398
	1880.00	661	0.2418
	1909.80	810	0.2461

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 850	824.20	128	0.2446
	836.60	190	0.2433
	848.80	251	0.2423

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
EDGE 1900	1850.20	512	0.2477
	1880.00	661	0.2482
	1909.80	810	0.2447

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
WCDMA IV	1712.40	1312	4.1794
	1732.60	1413	4.1598
	1752.60	1513	4.1677

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Figure 7-1: GSM Channel Low

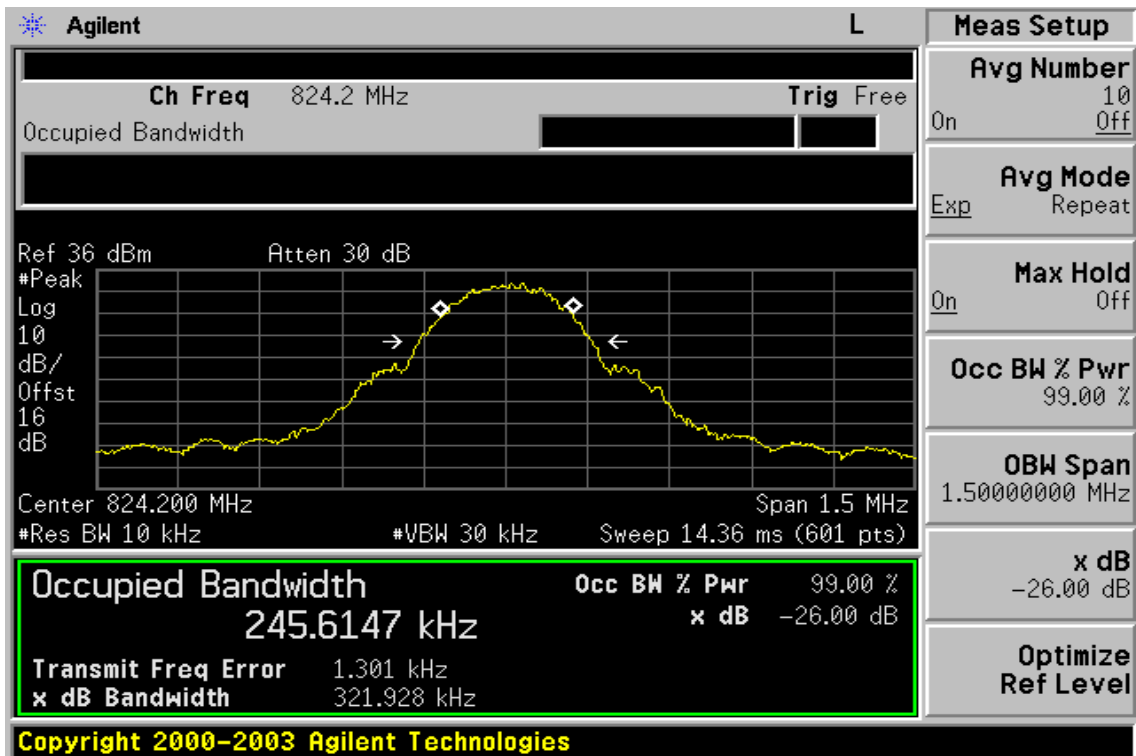
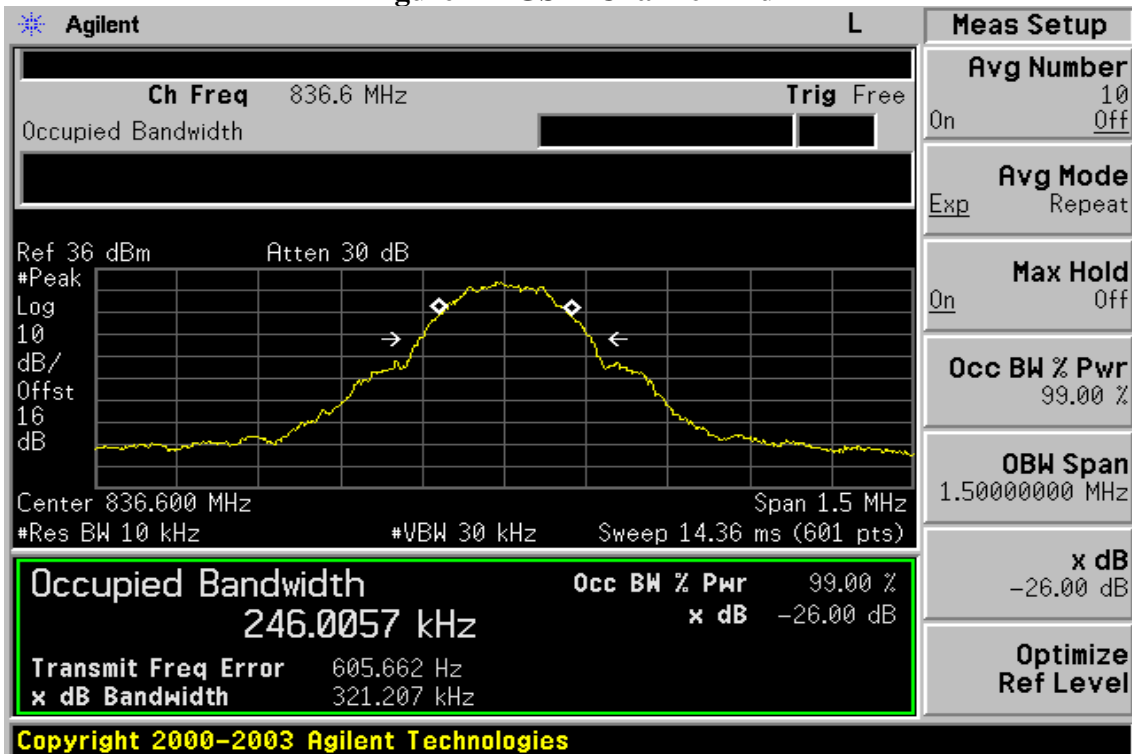


Figure 7-2 GSM Channel Mid



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Figure 7-3: GSM Channel High

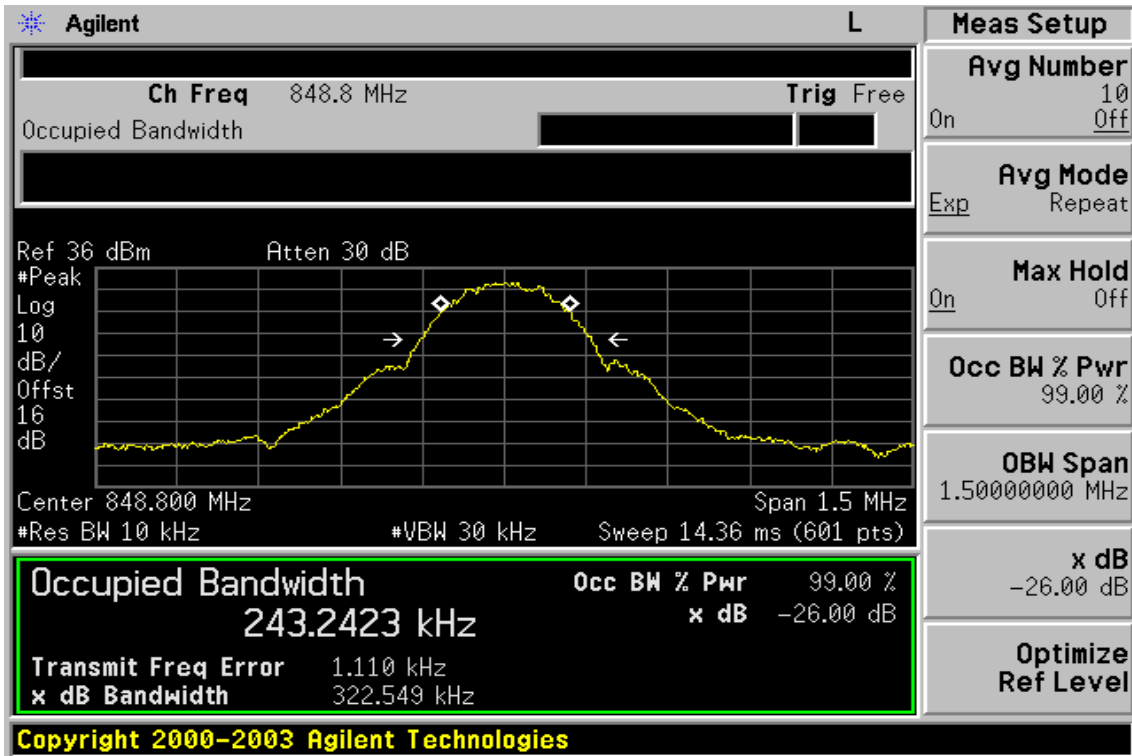
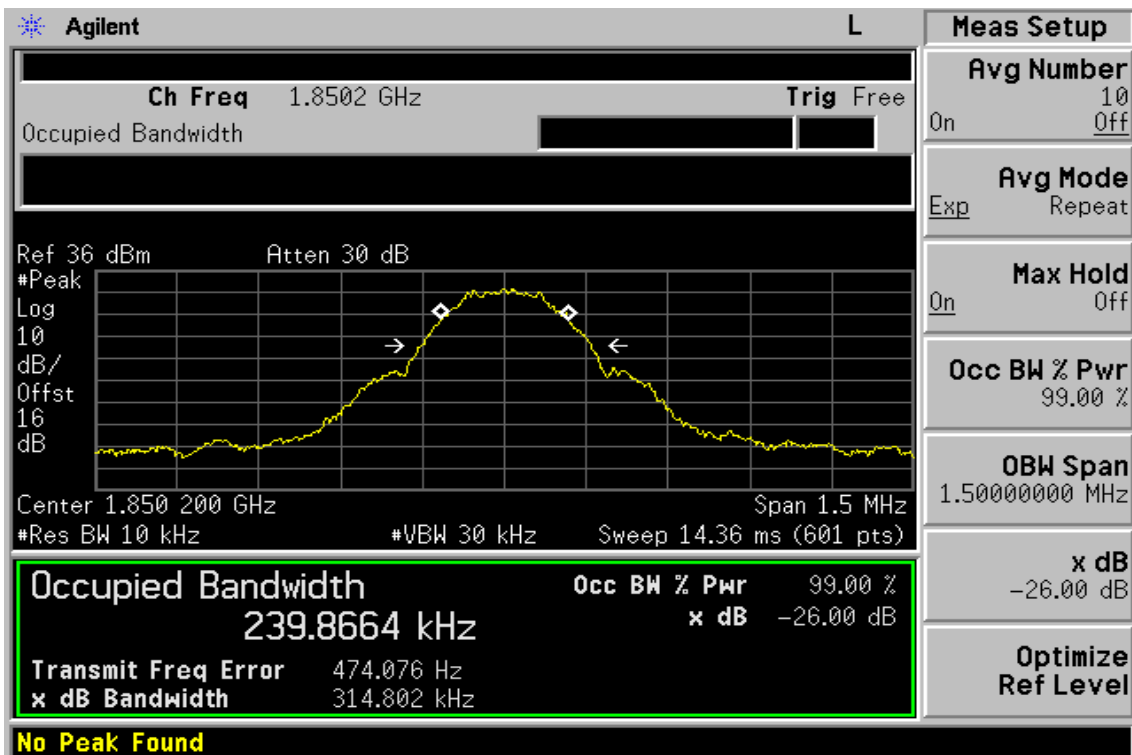


Figure 7-4: PCS Channel Low



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Figure 7-5 PCS Channel Mid

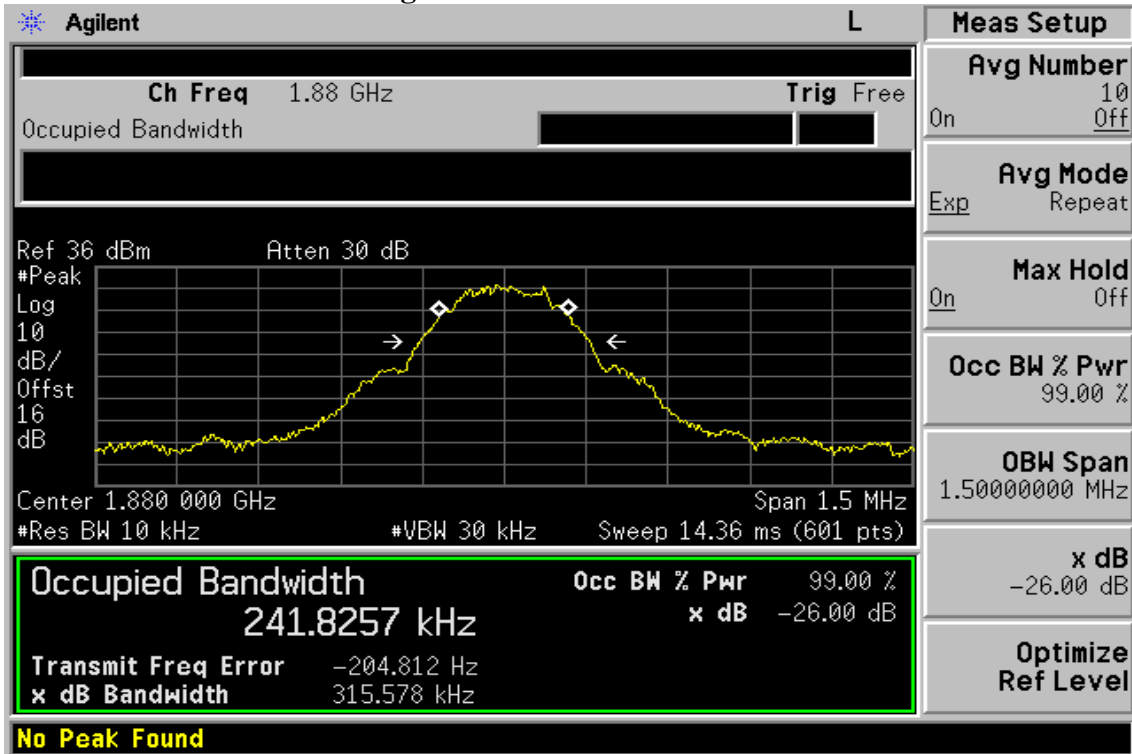
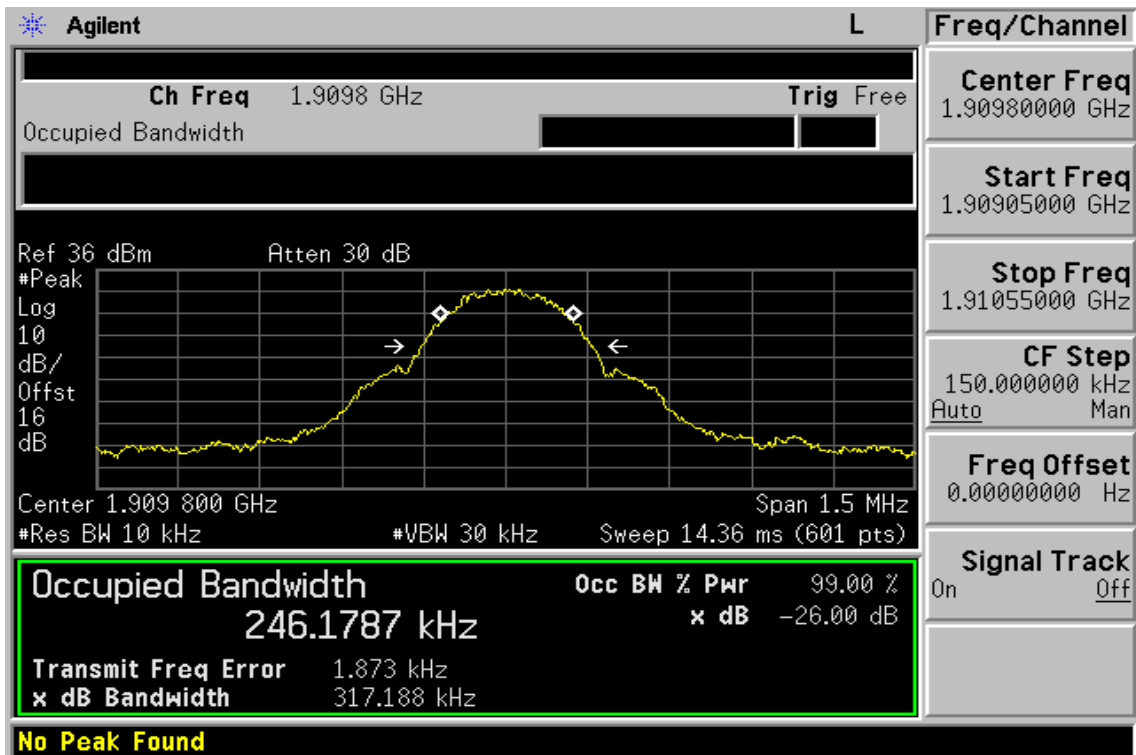


Figure 7-6: PCS Channel High



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Figure 7-7: EDGE 850 Channel Low

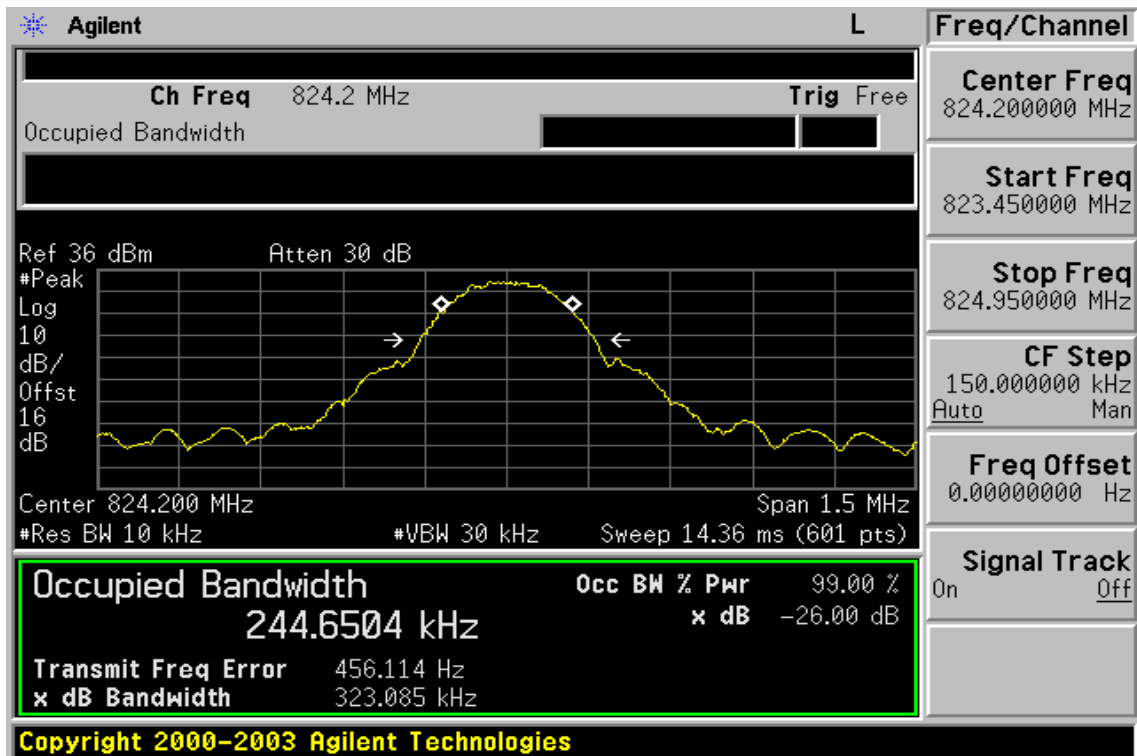
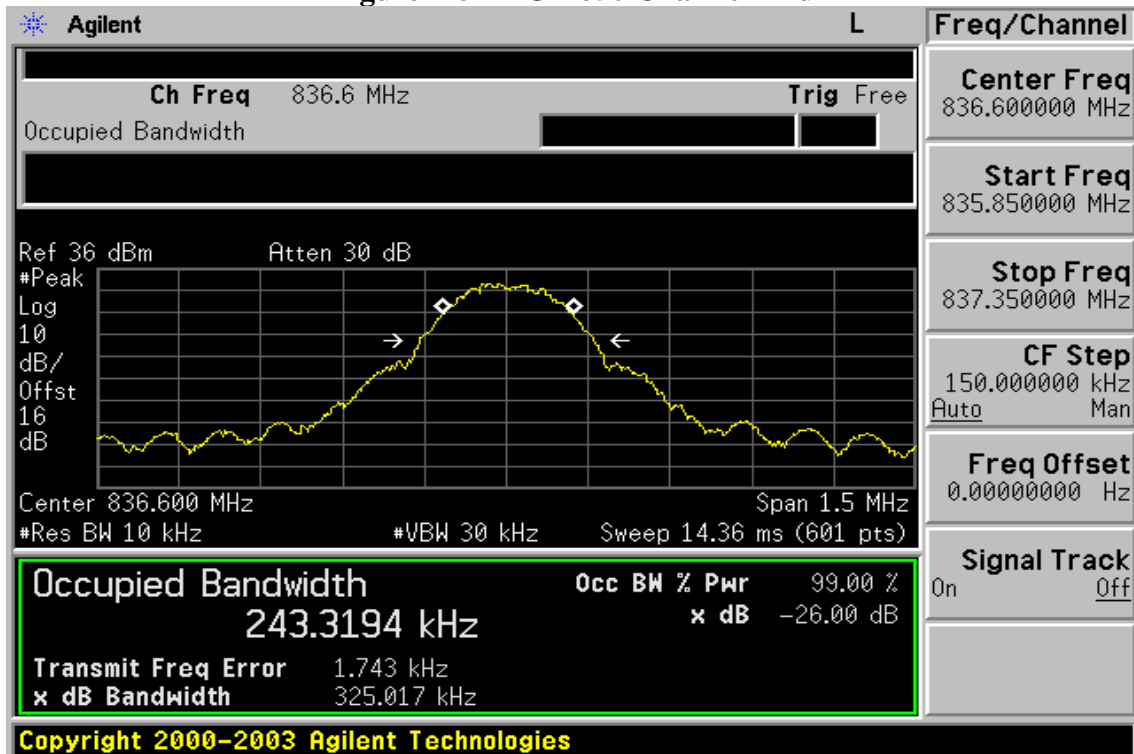


Figure 7-8 EDGE 850 Channel Mid



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Figure 7-9: EDGE 850 Channel High

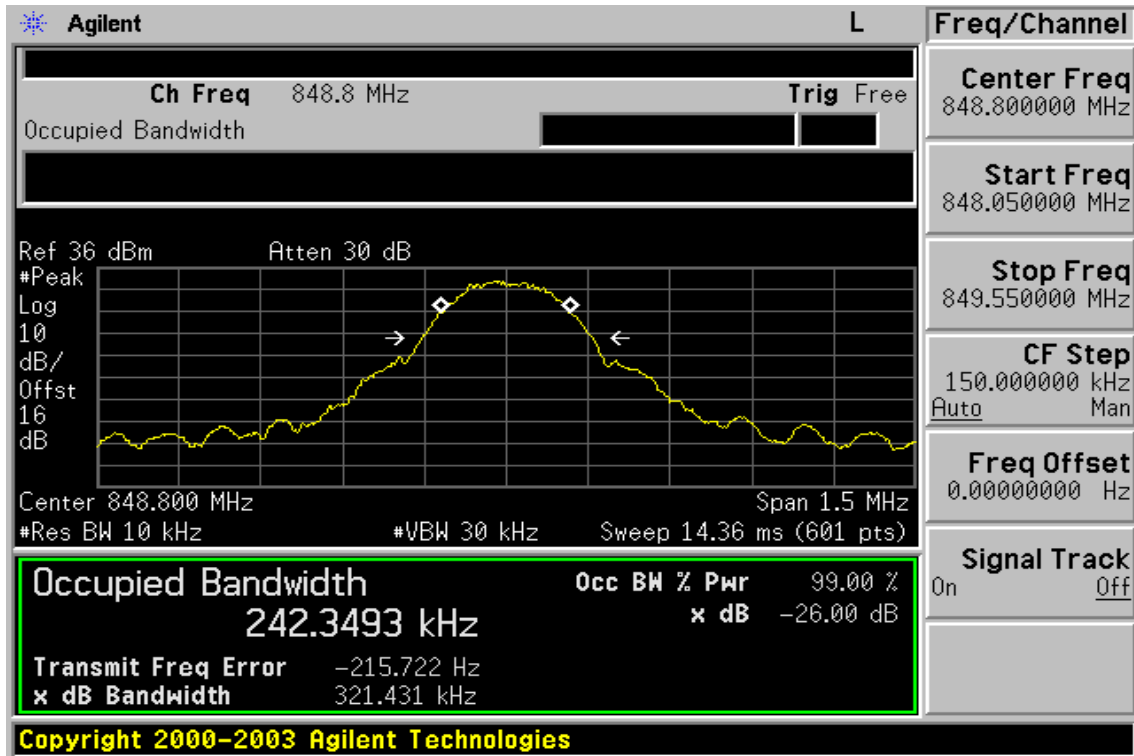
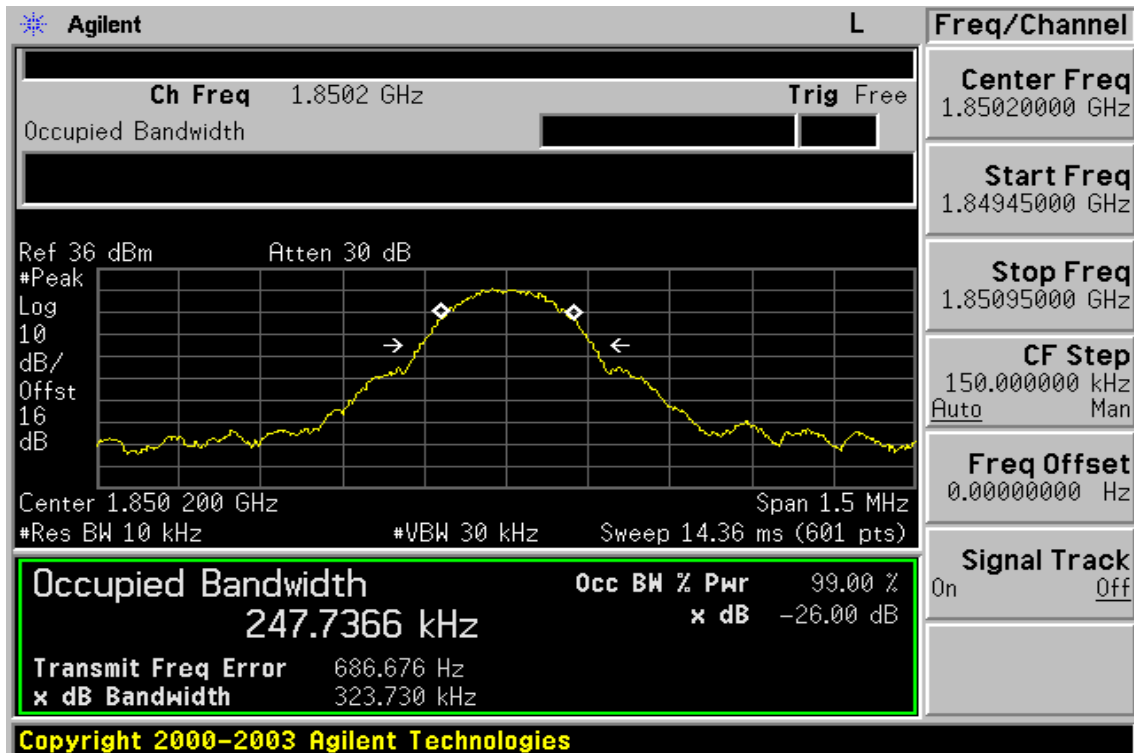


Figure 7-10: EDGE 1900 Channel Low



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Figure 7-11 EDGE 1900 Channel Mid

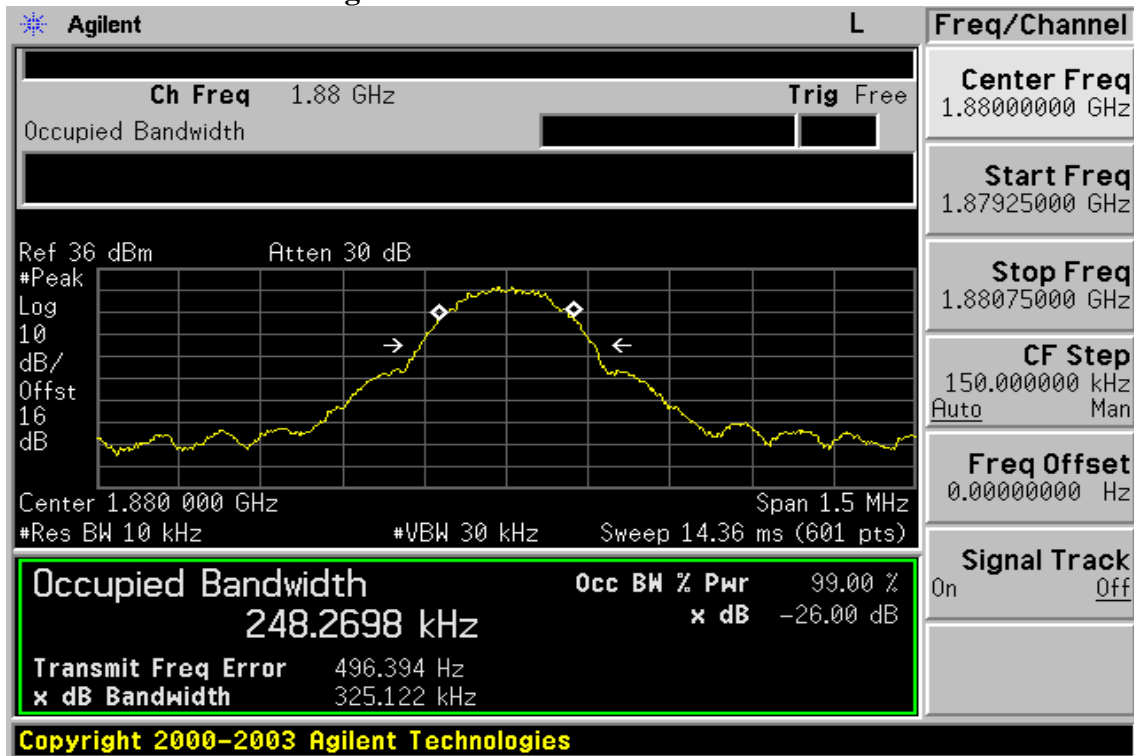
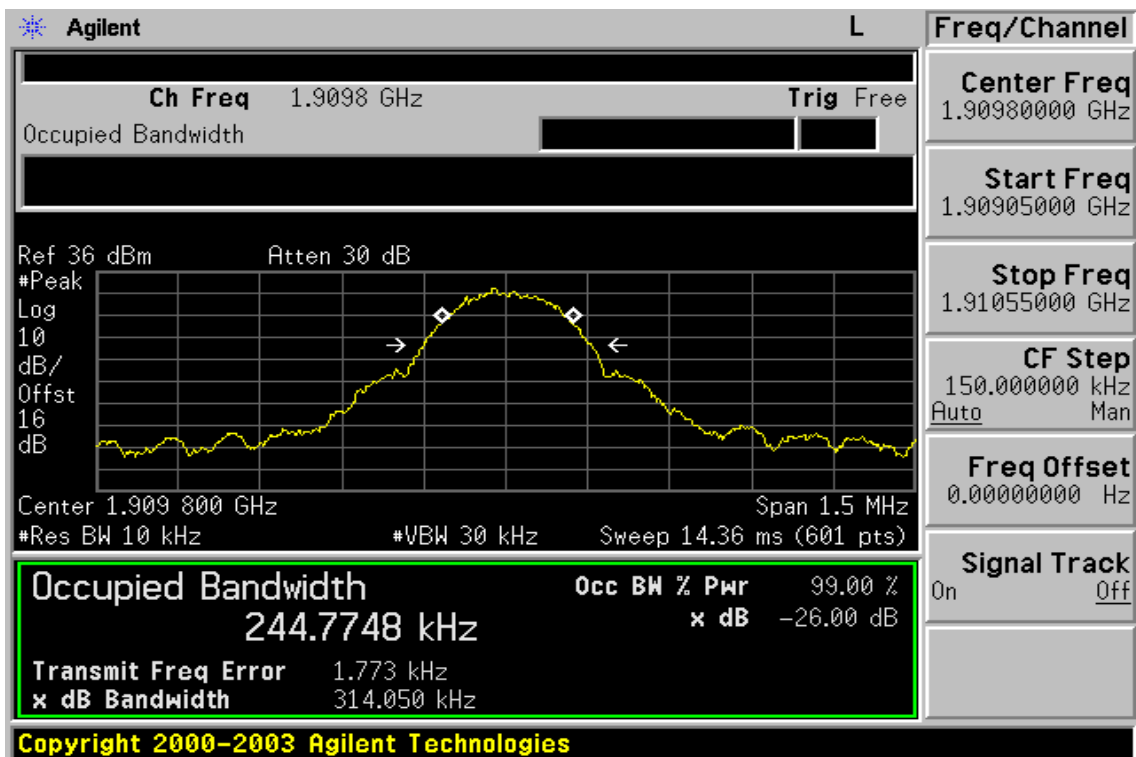


Figure 7-12: EDGE 1900 Channel High



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Figure 7-13: WCDMA IV Channel Low

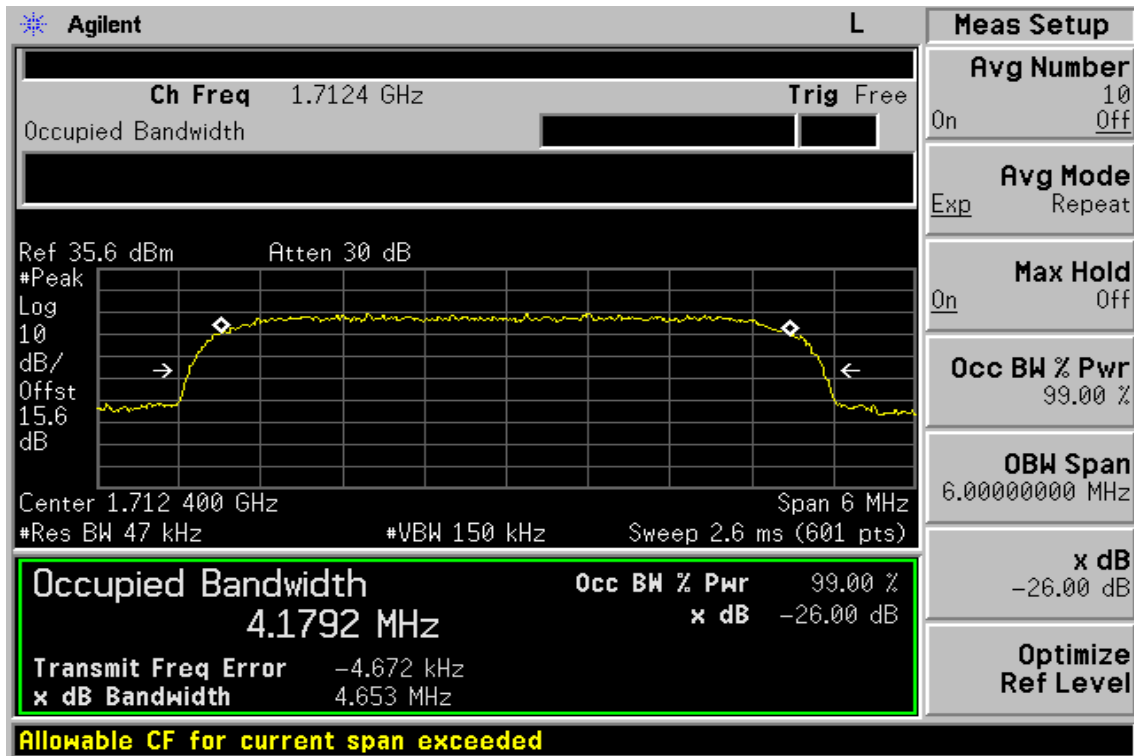
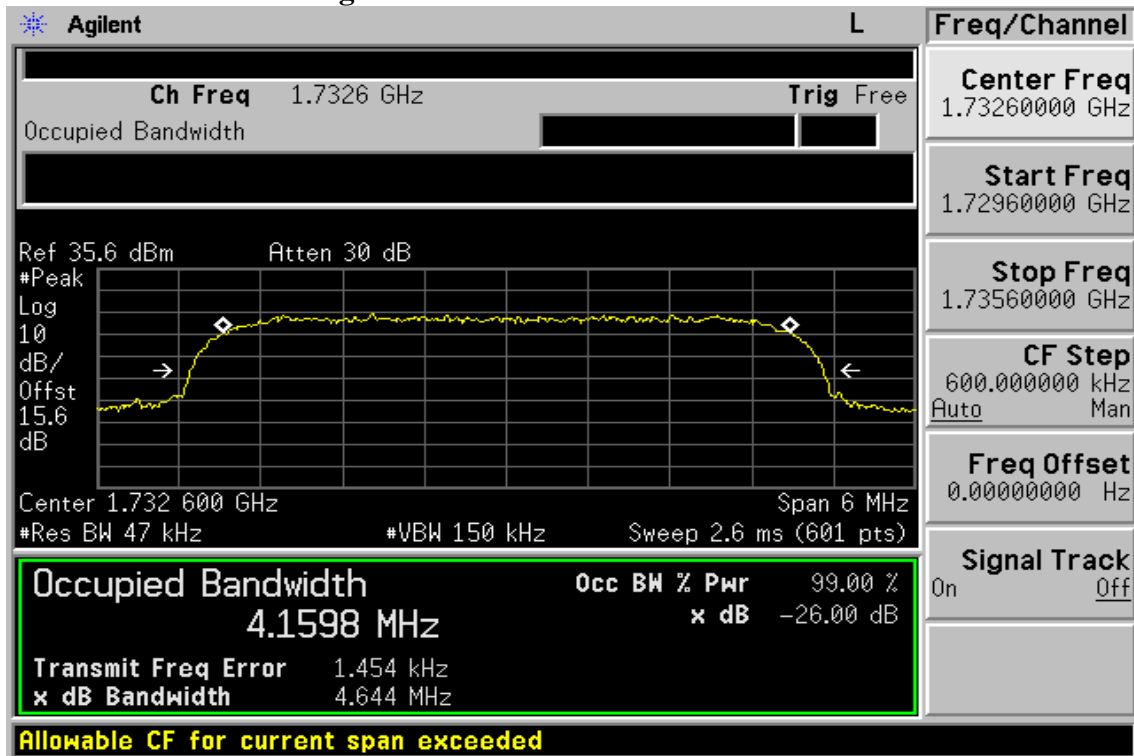
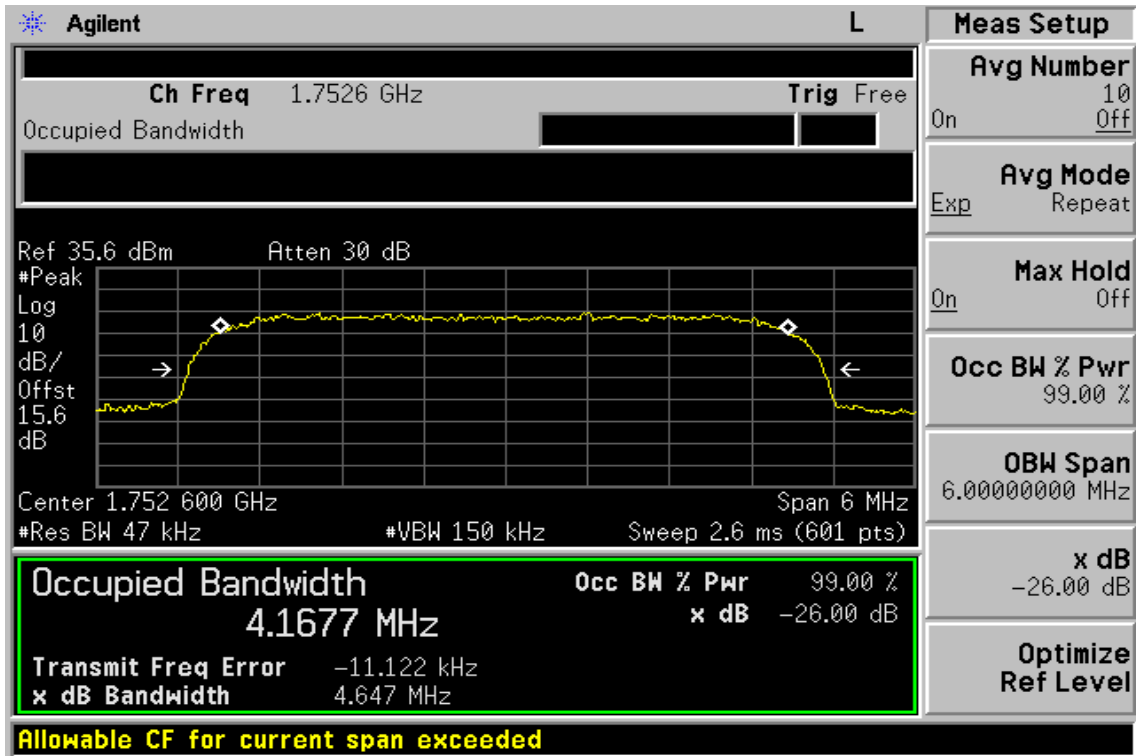


Figure 7-14 WCDMA IV Channel Mid



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Figure 7-15: WCDMA IV Channel High



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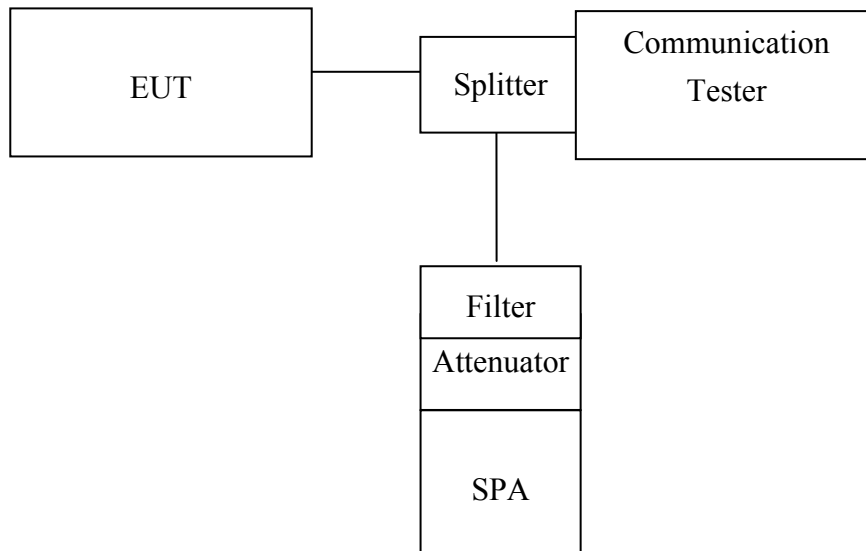
8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

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

8.2 Test SET-UP



Note: Measurement setup for testing on Antenna connector

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= 10 th harmonic.
Limit = -13dBm

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

8.4 Measurement Equipment Used:

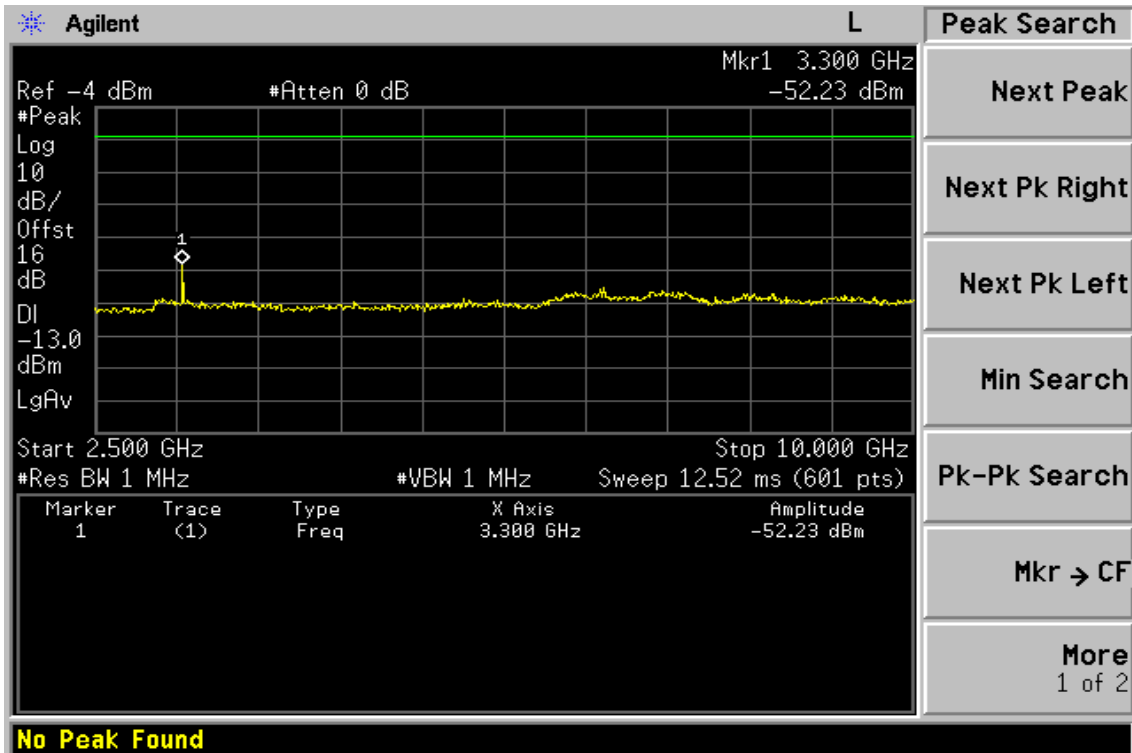
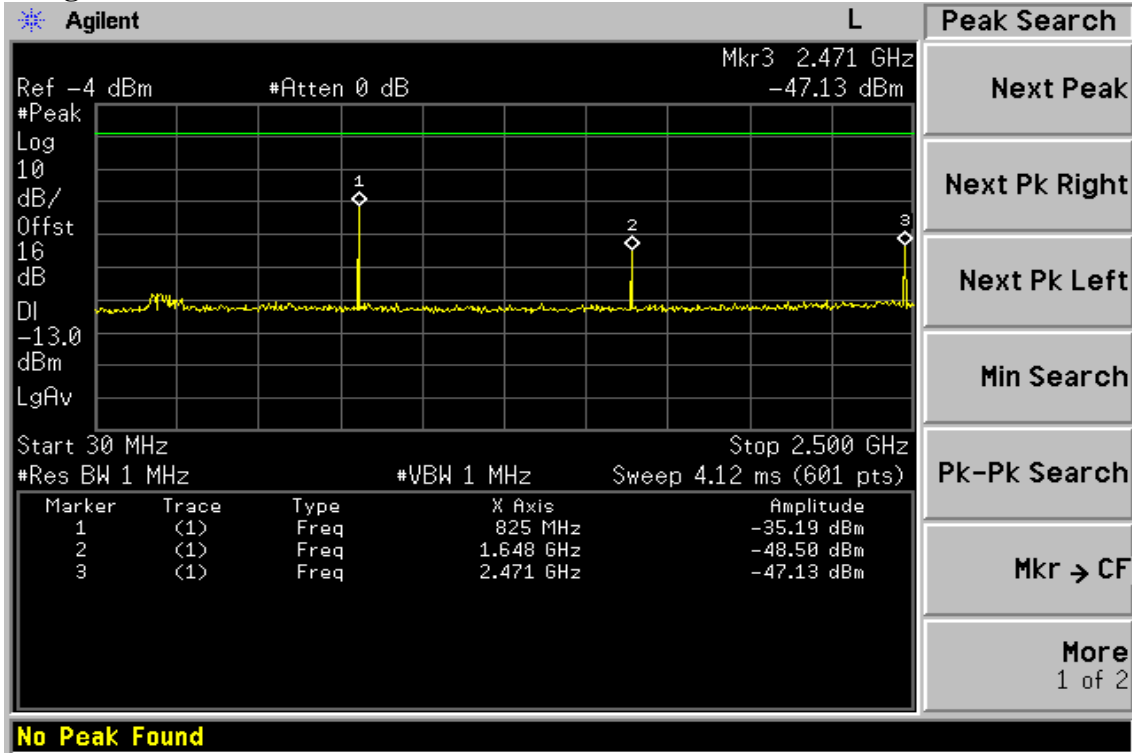
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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8.5 Measurement Result

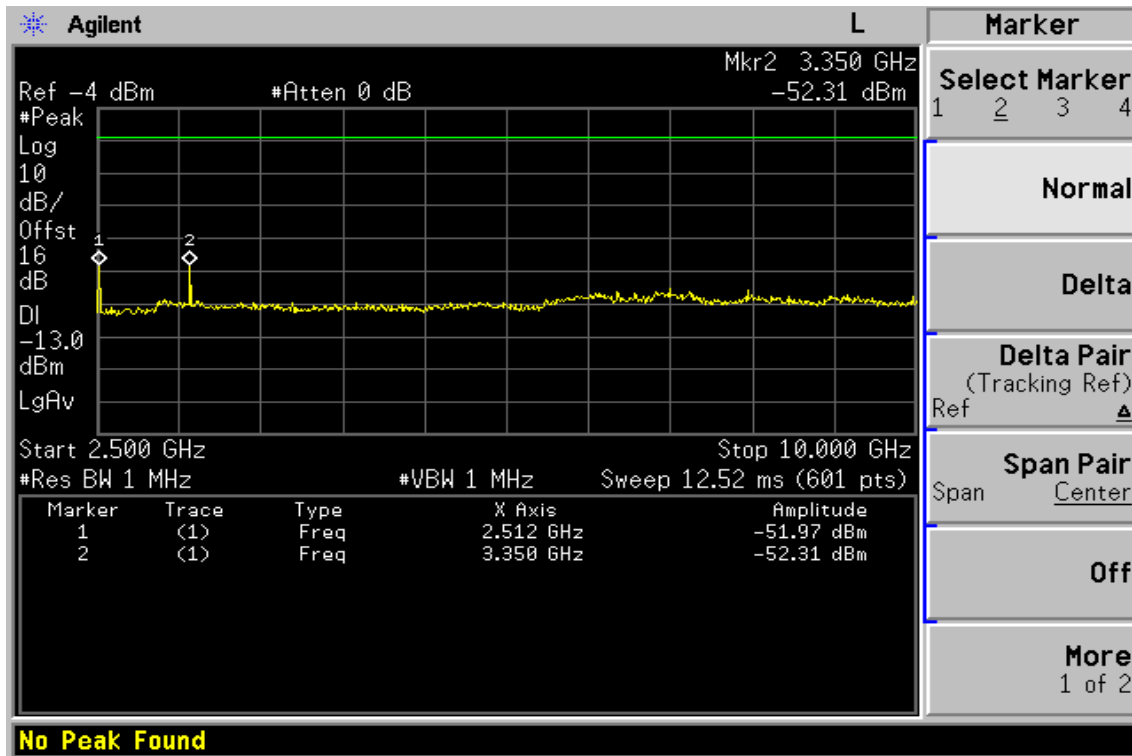
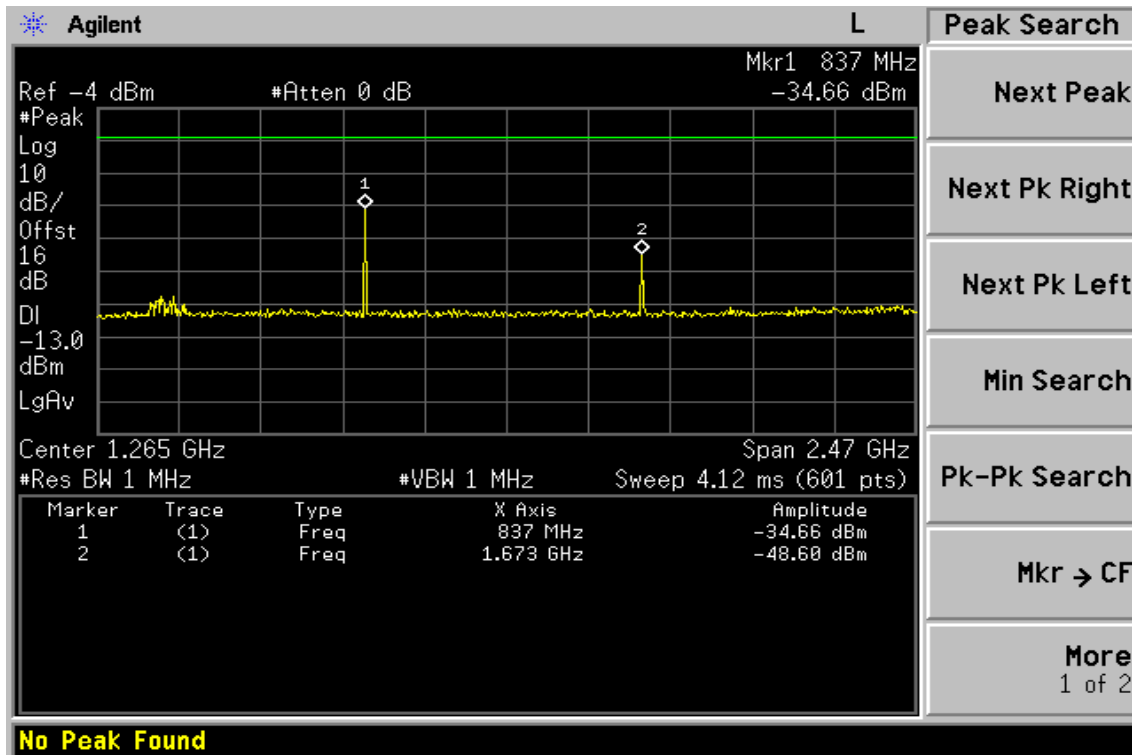
Figure 8-1: Out of Band emission at antenna terminals– GSM Channel Lowest



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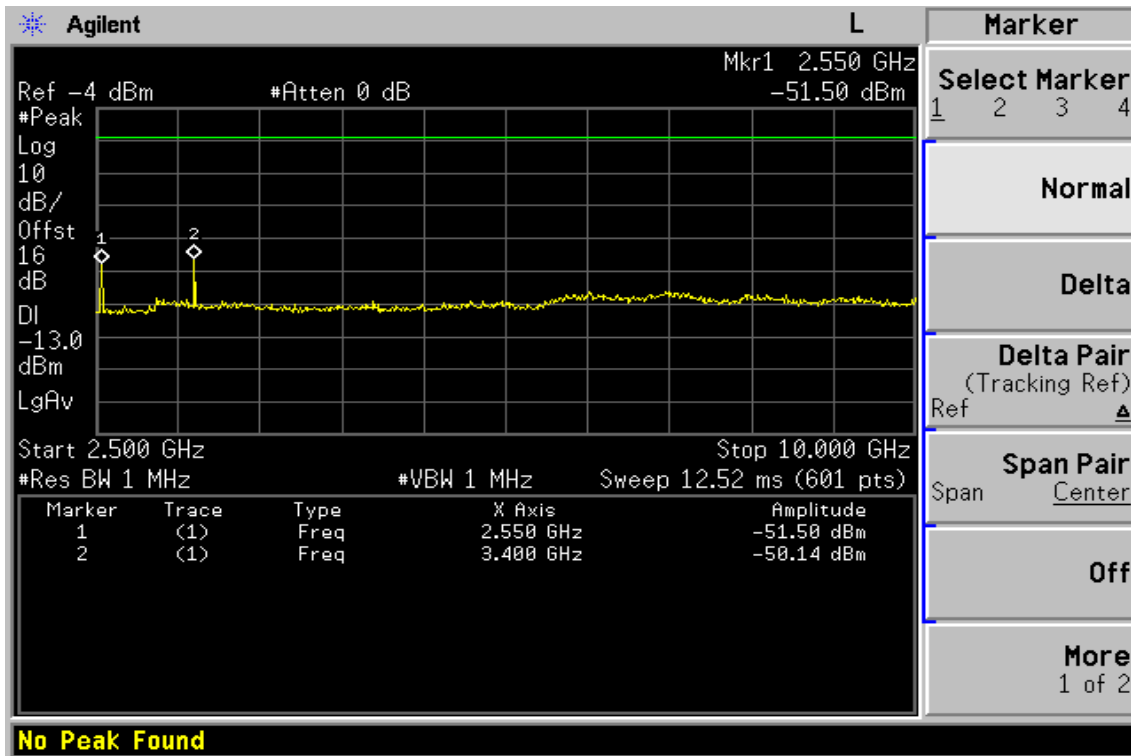
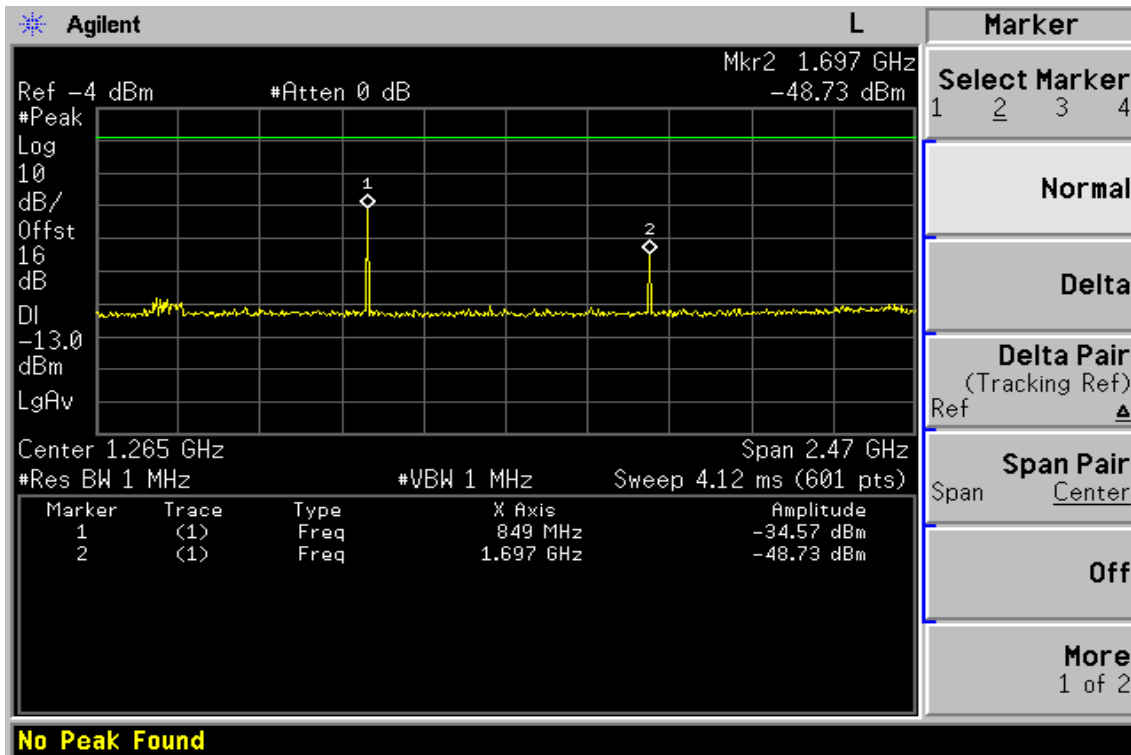
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Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid



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



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

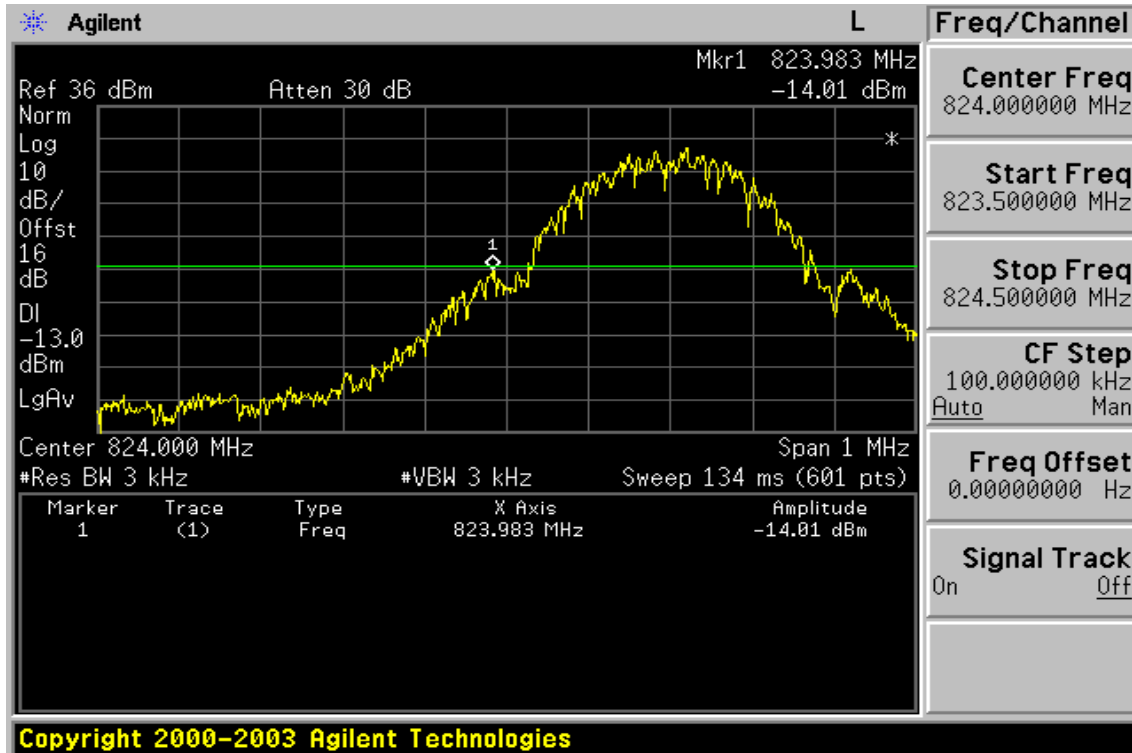
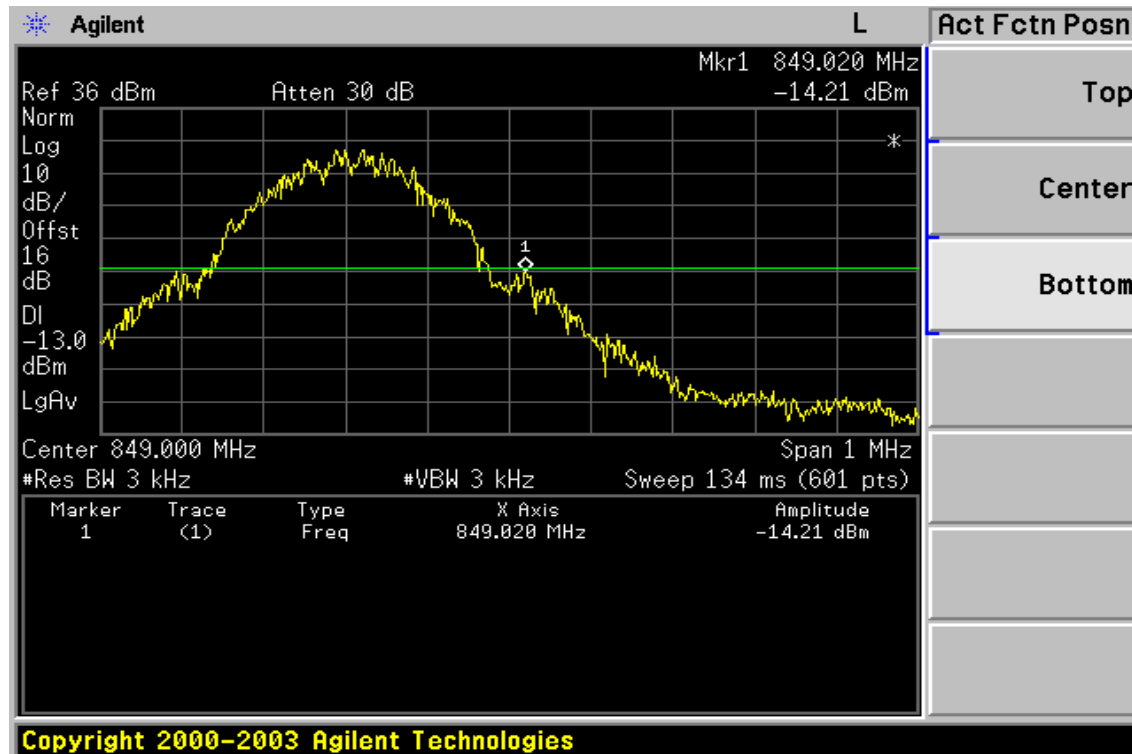


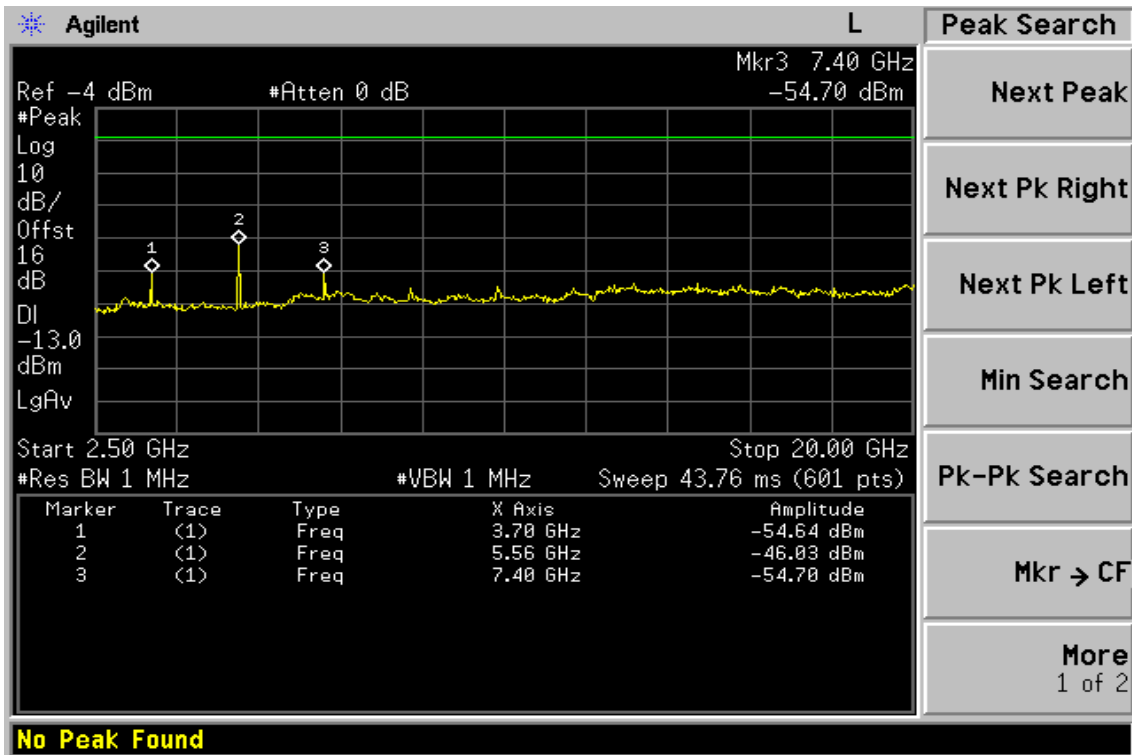
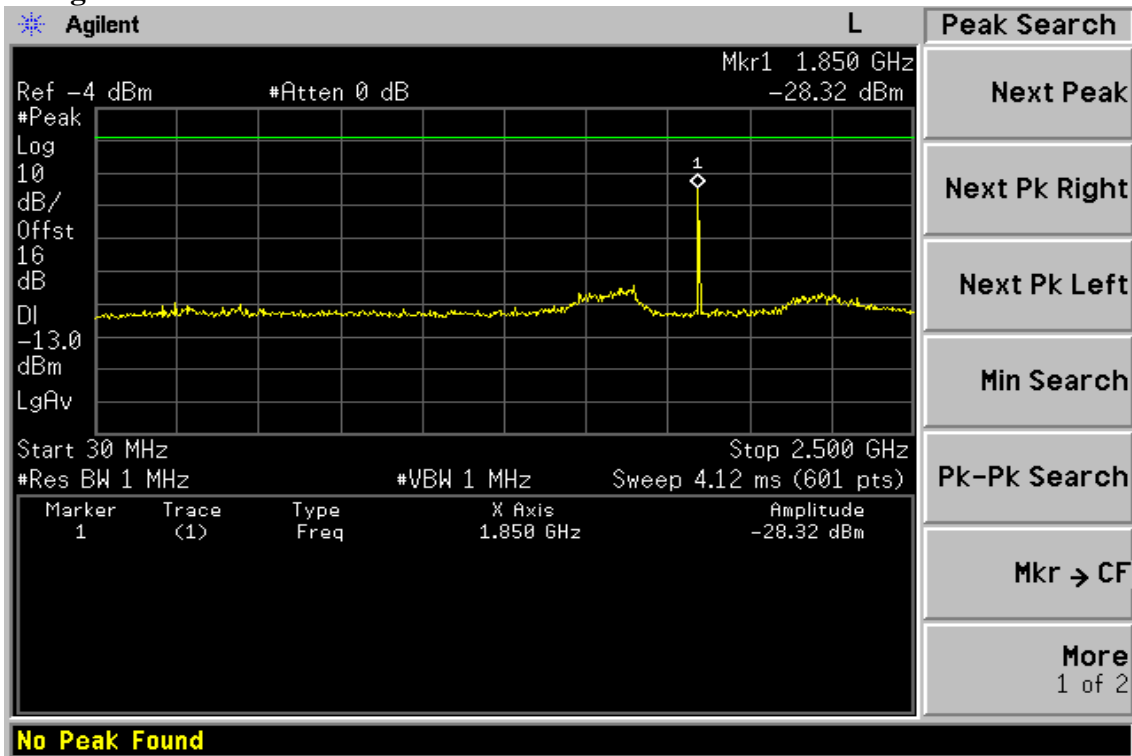
Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest



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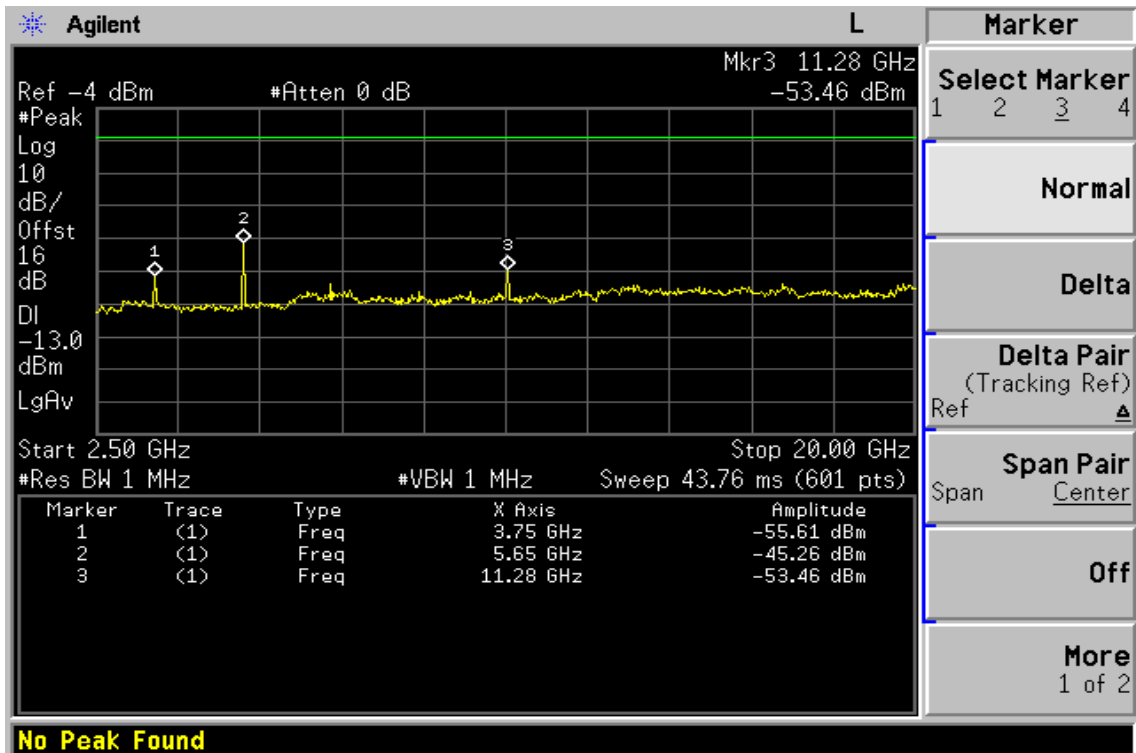
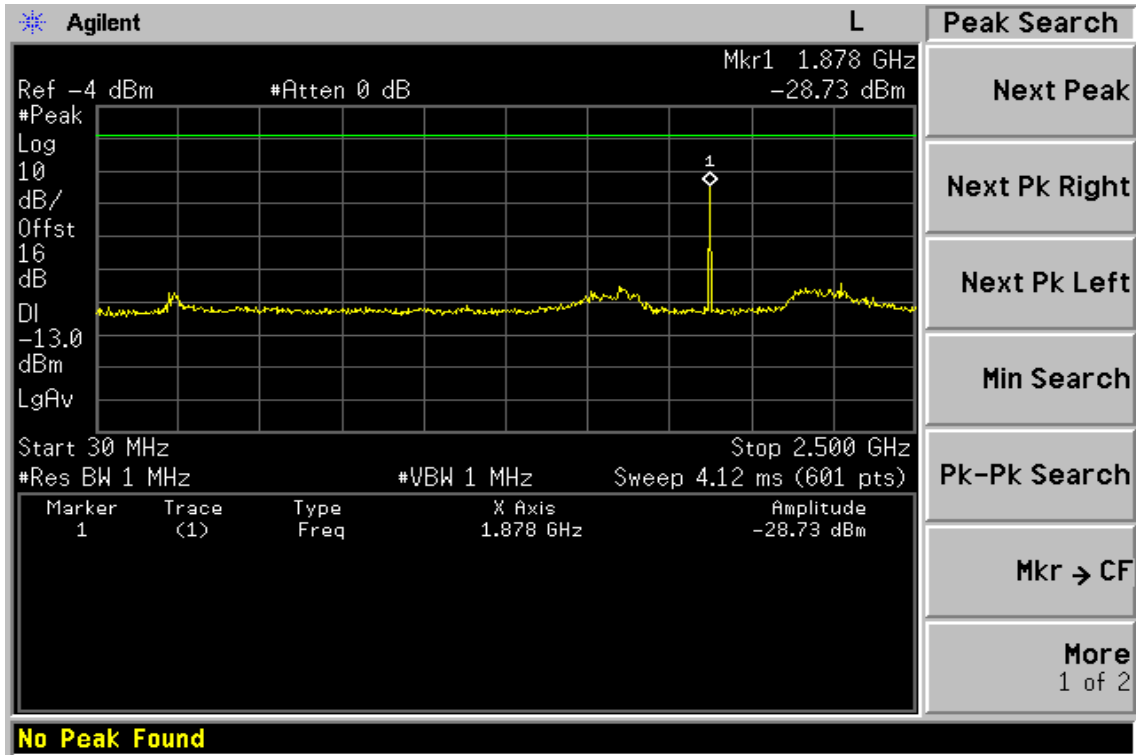
Figure 8-6: Out of Band emission at antenna terminals– PCS Channel Lowest



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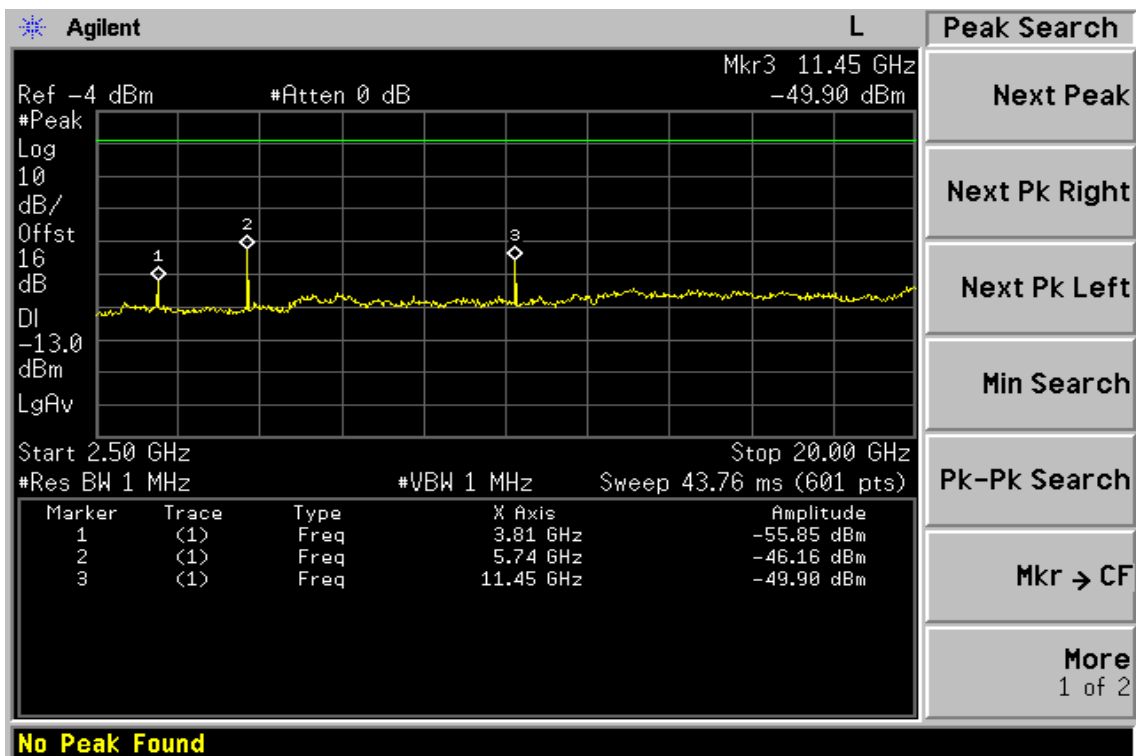
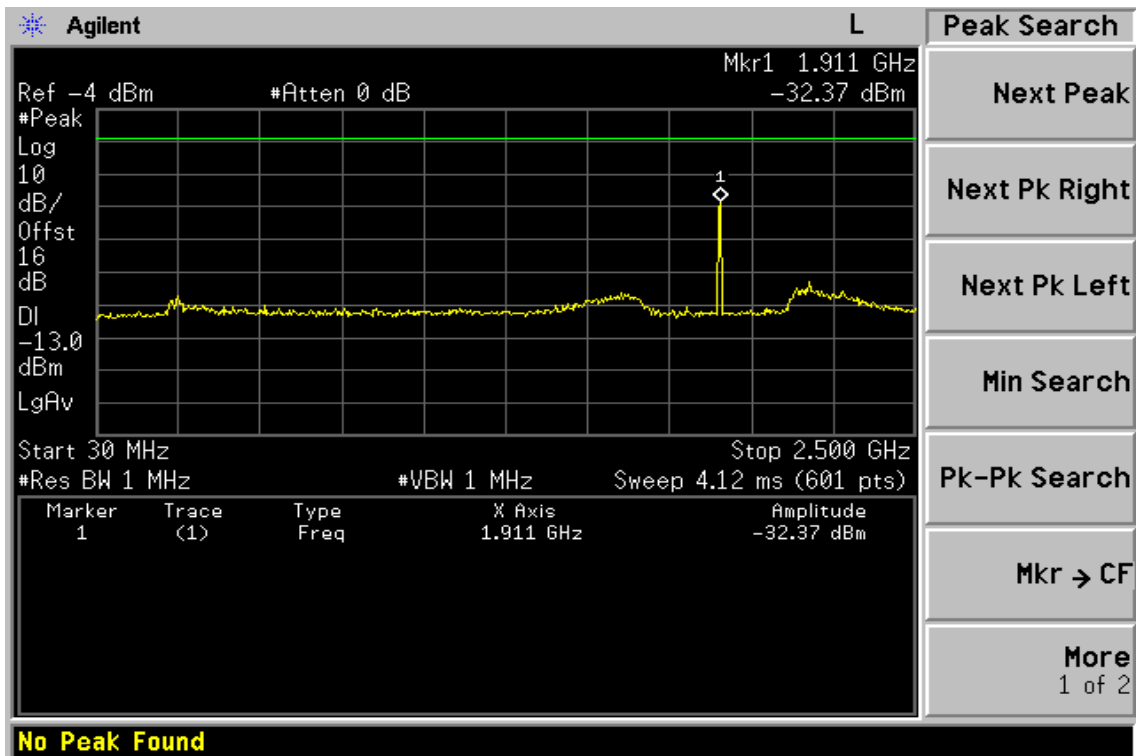
Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid



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



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

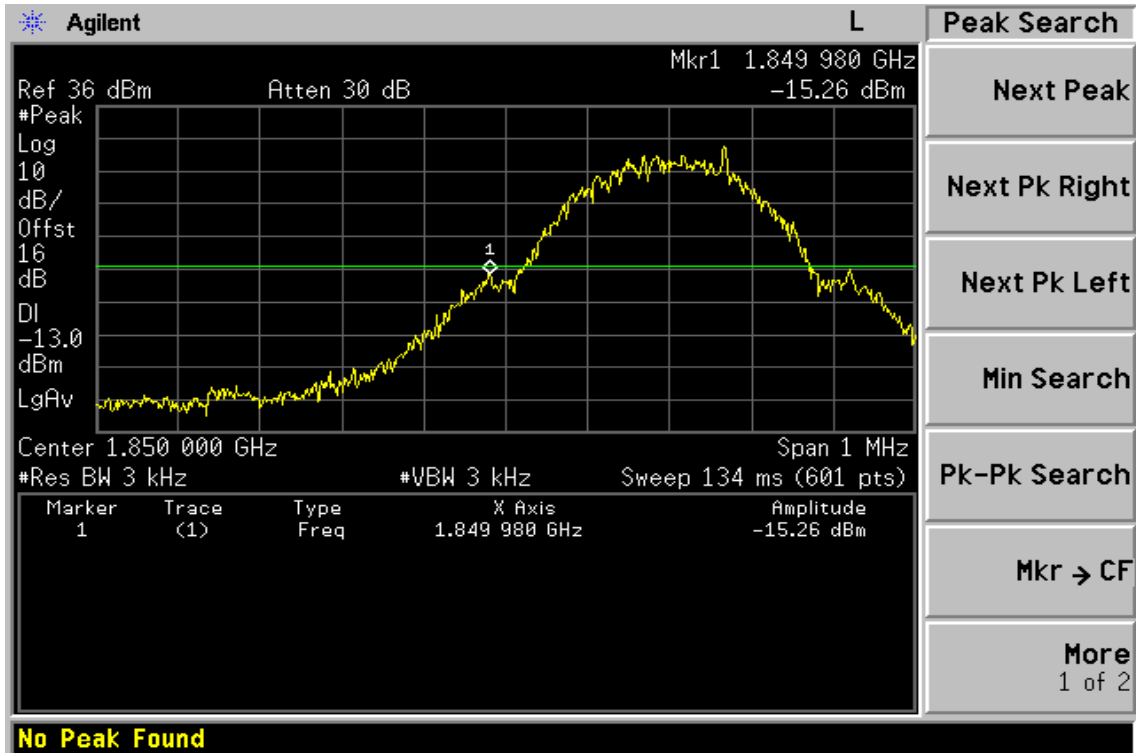
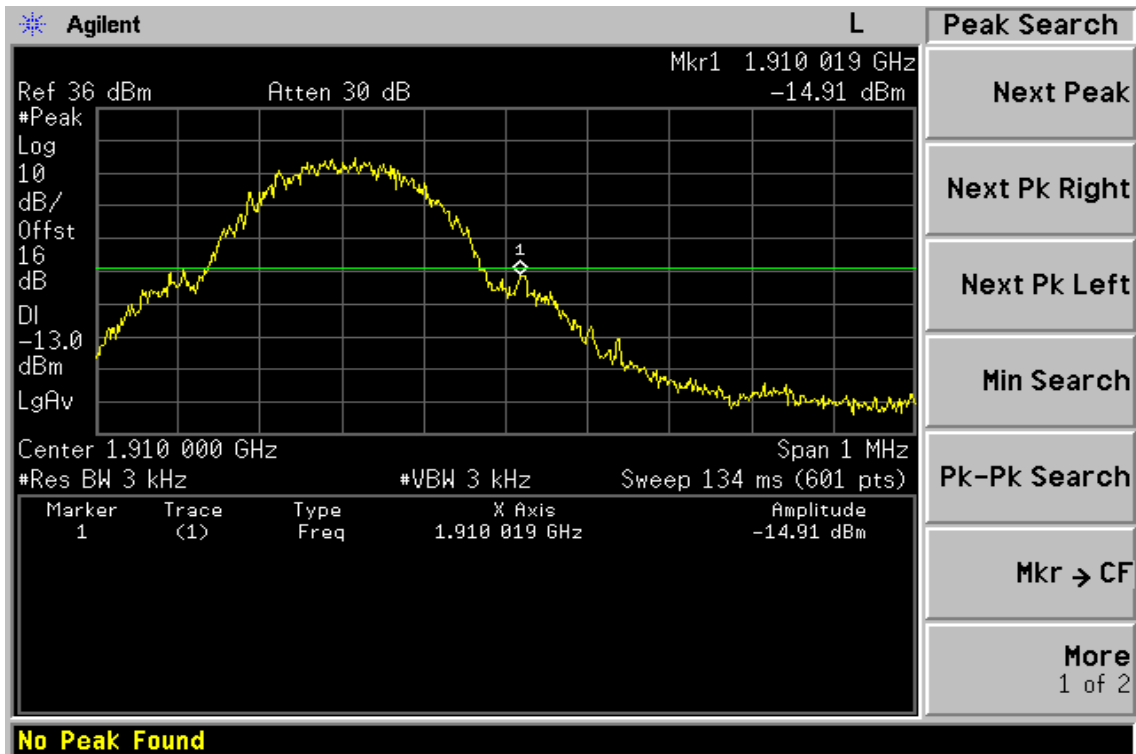


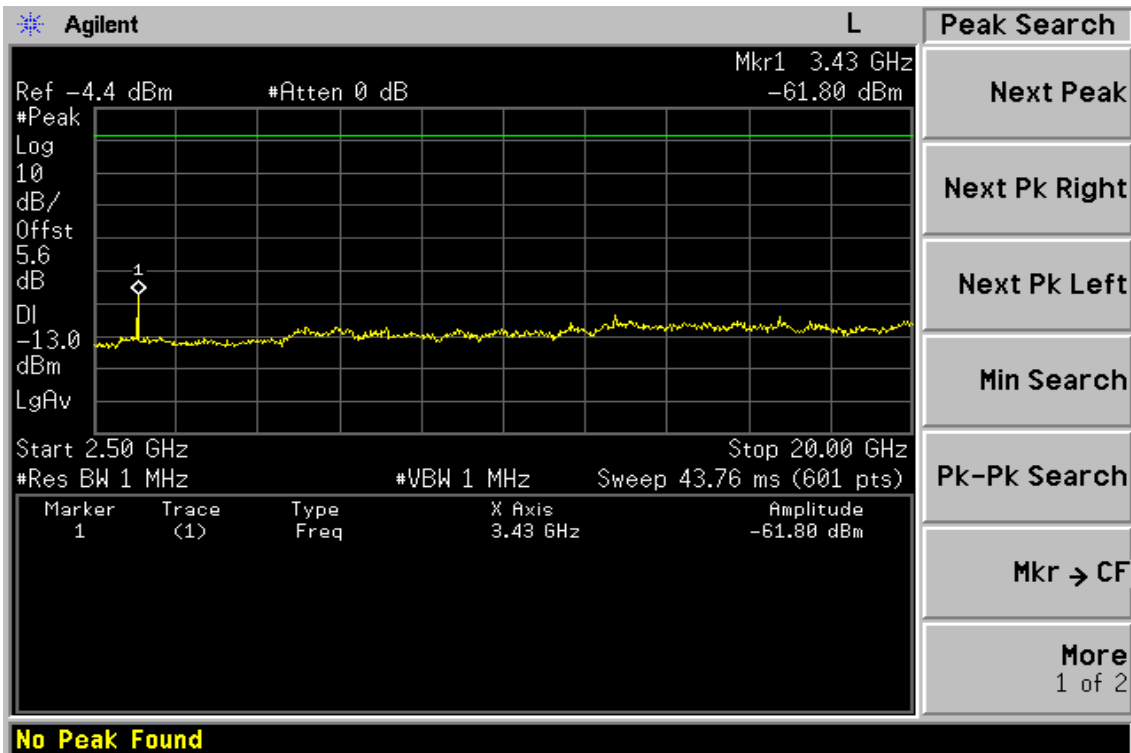
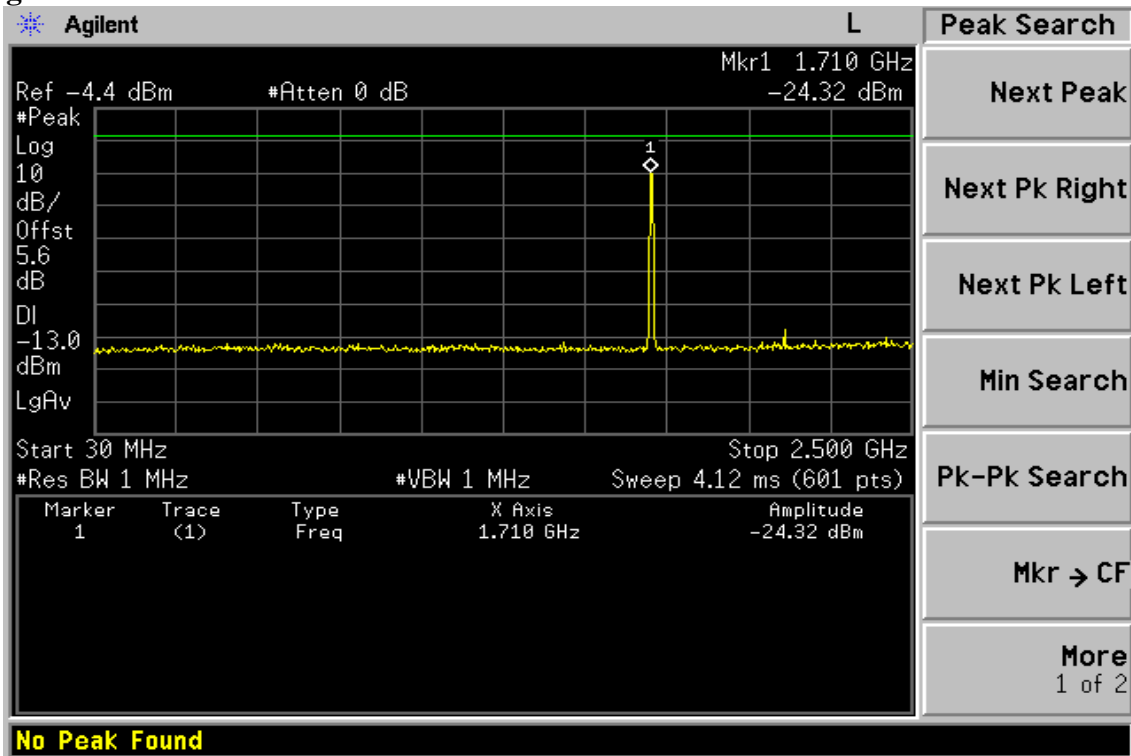
Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



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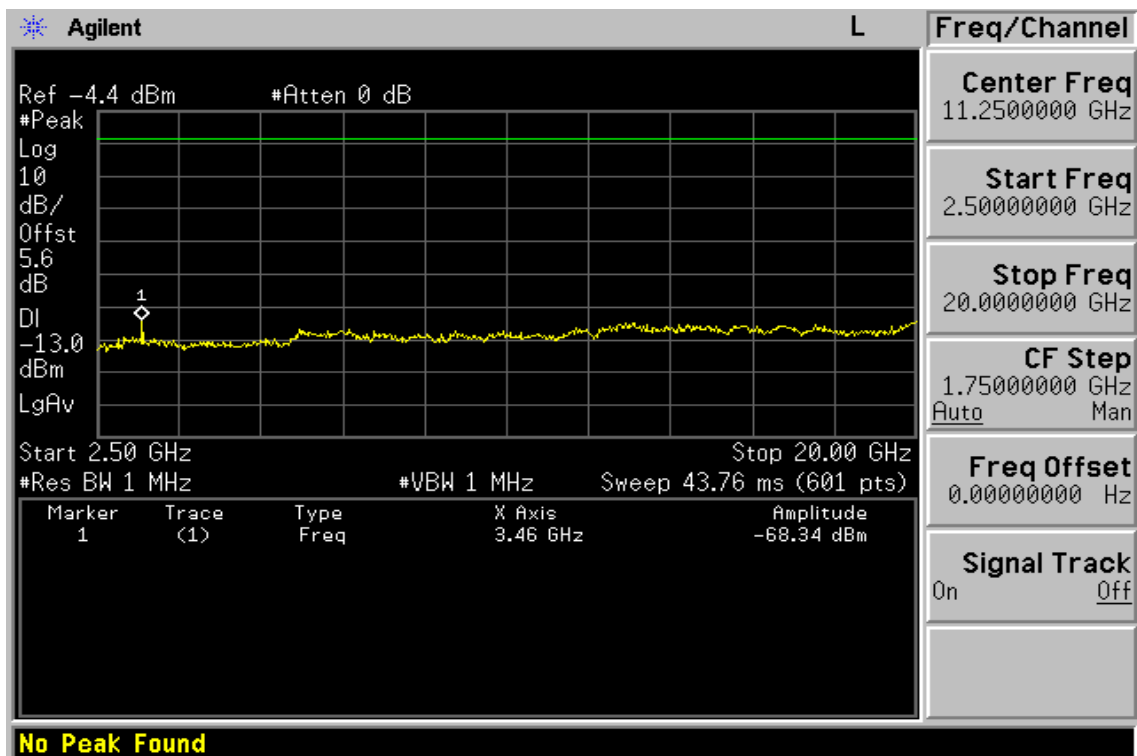
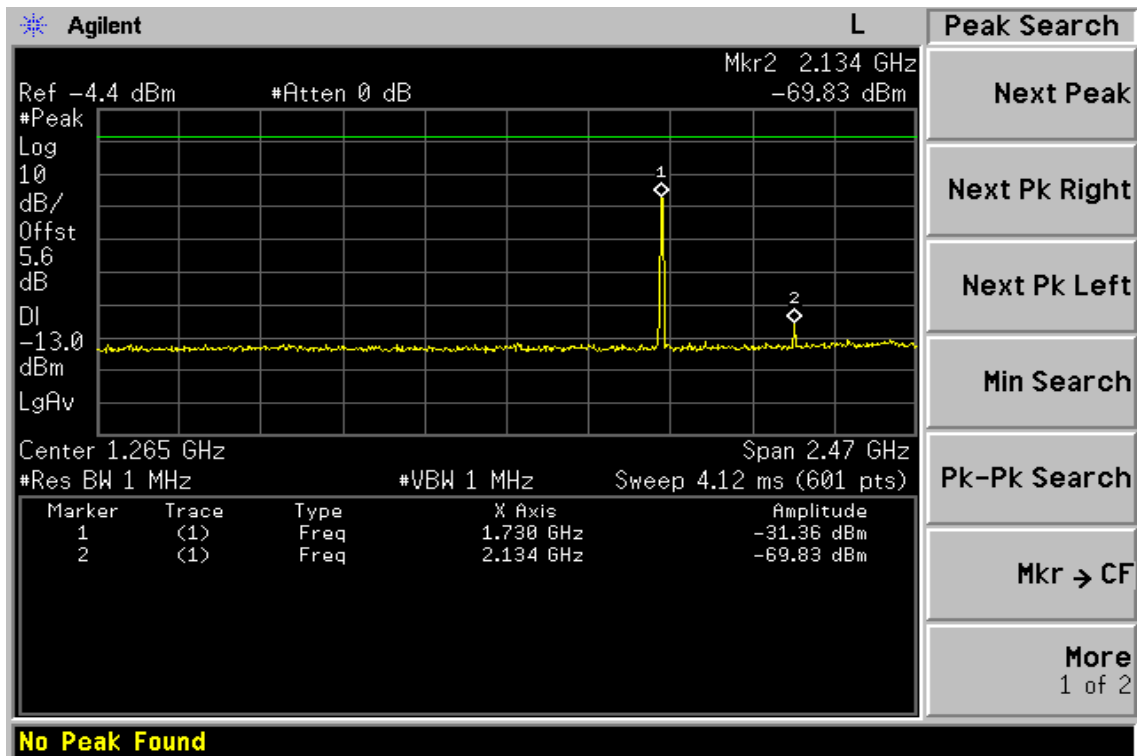
Figure 8-11: Out of Band emission at antenna terminals– WCDMA IV Channel Lowest



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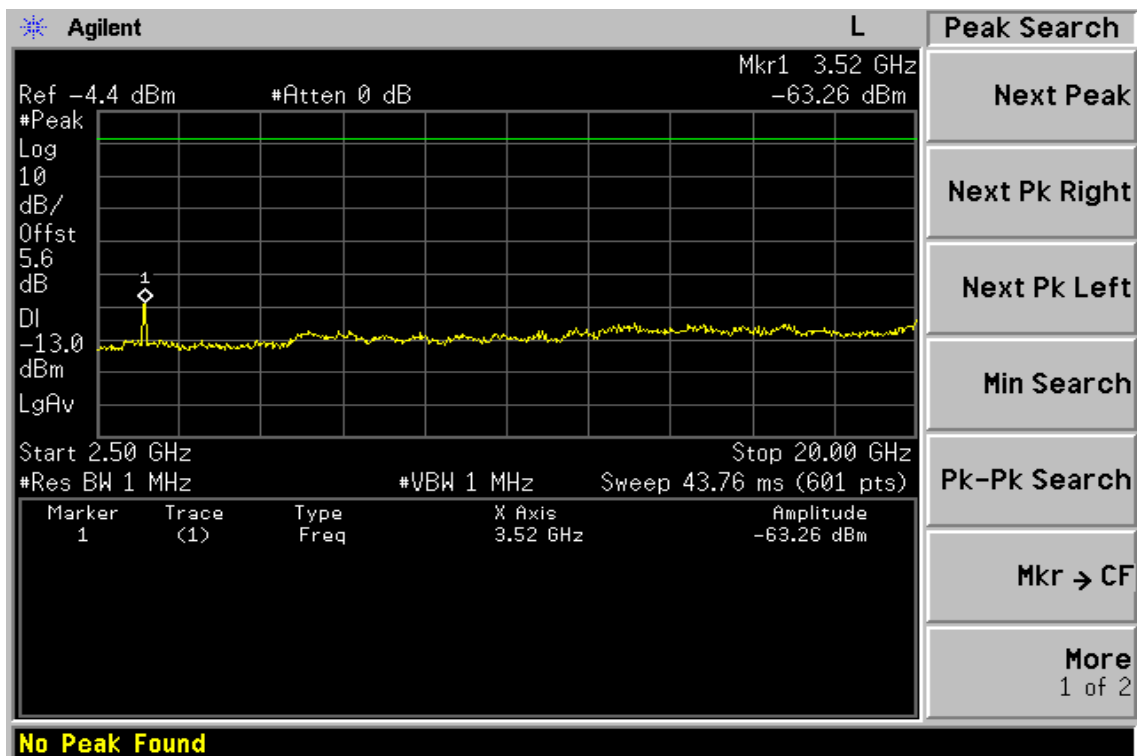
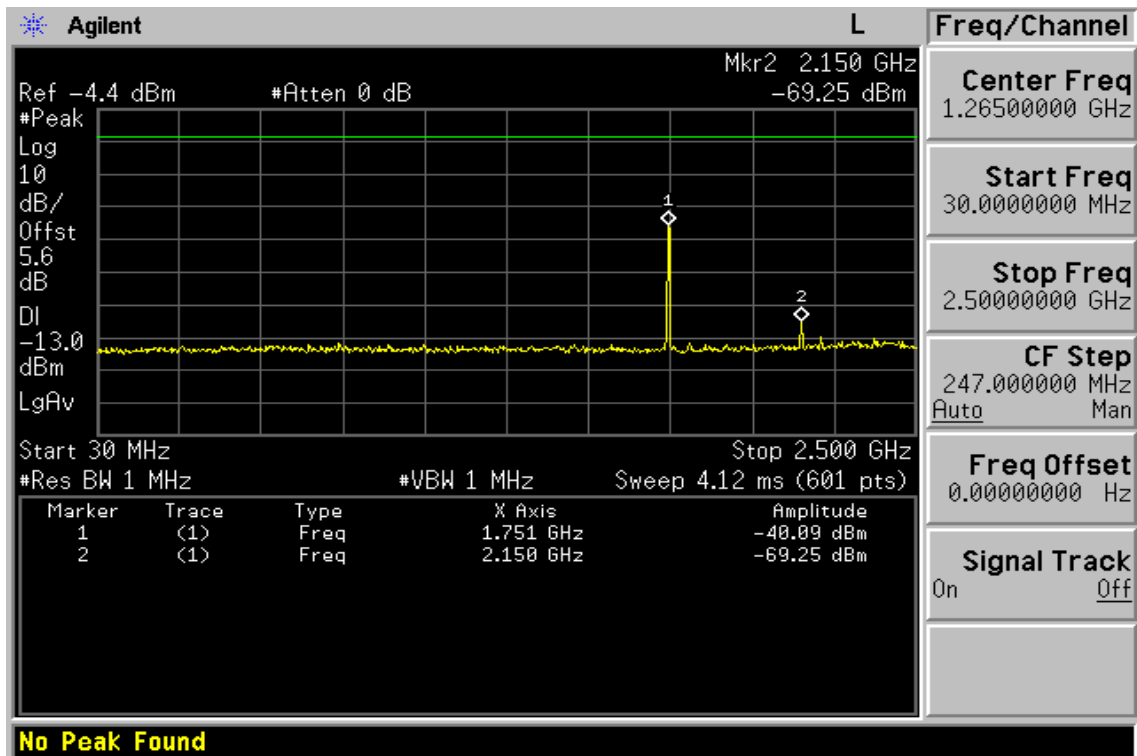
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Figure 8-12: Out of Band emission at antenna terminals –WCDMA IV Channel Mid



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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

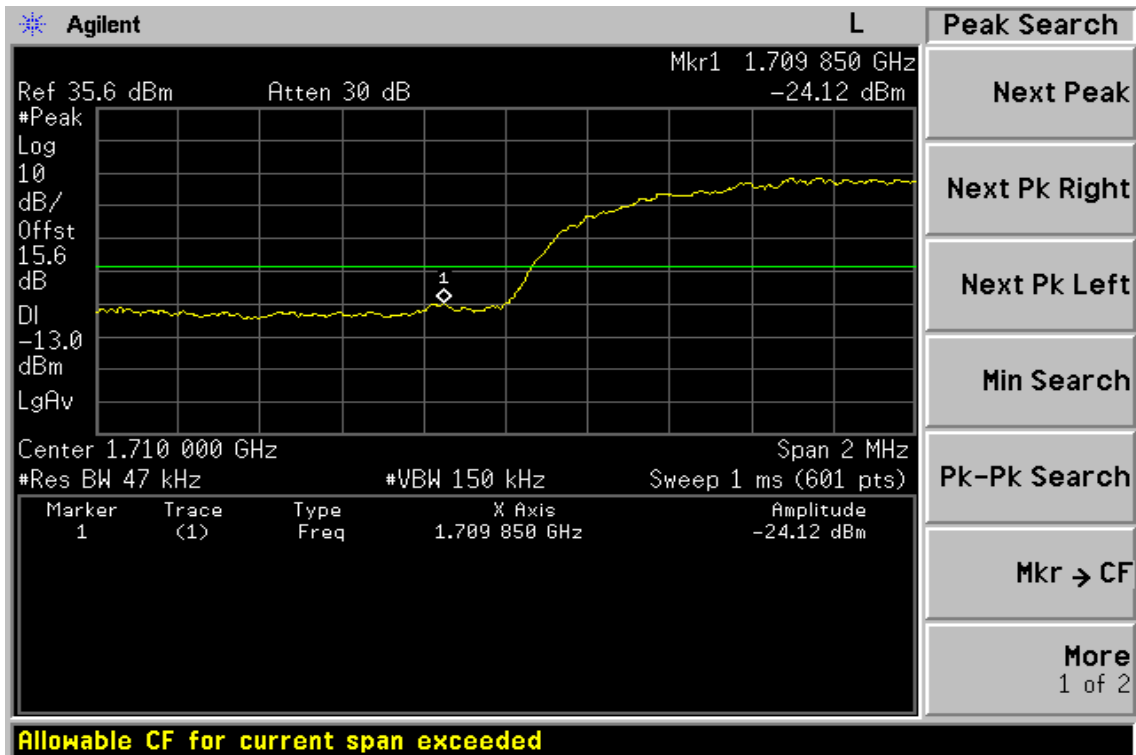
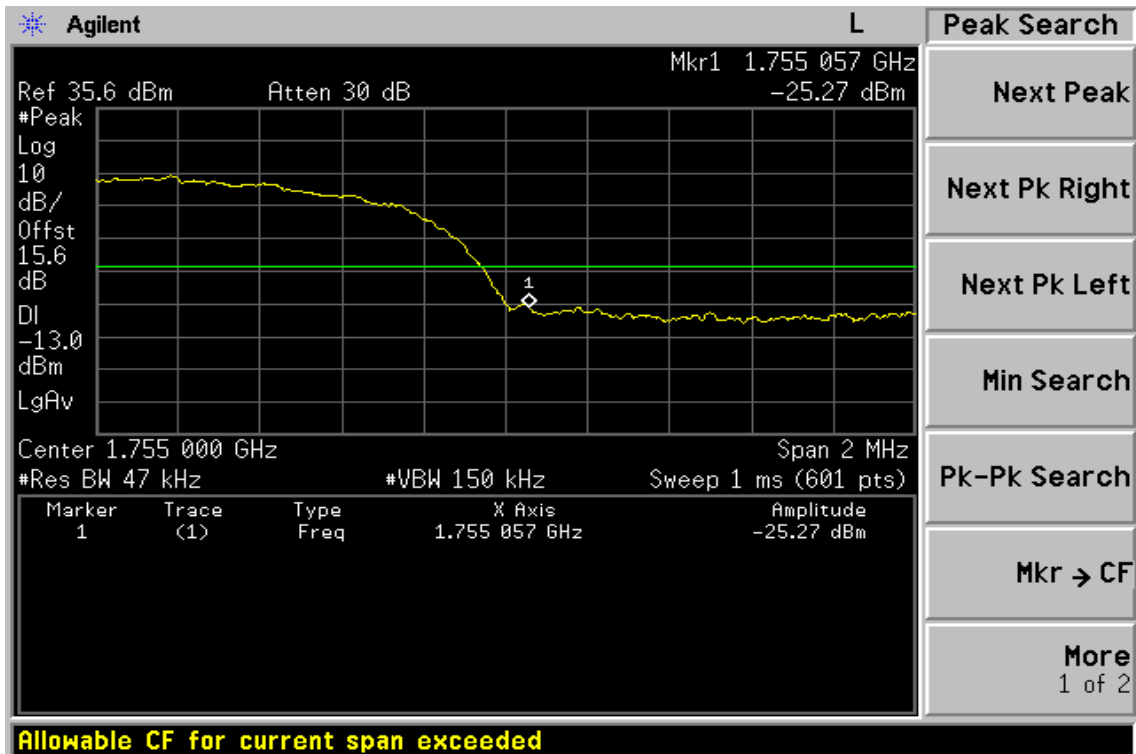


Figure 8-15: Band edge emission at antenna terminals –WCDMA IV Channel Highest



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9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

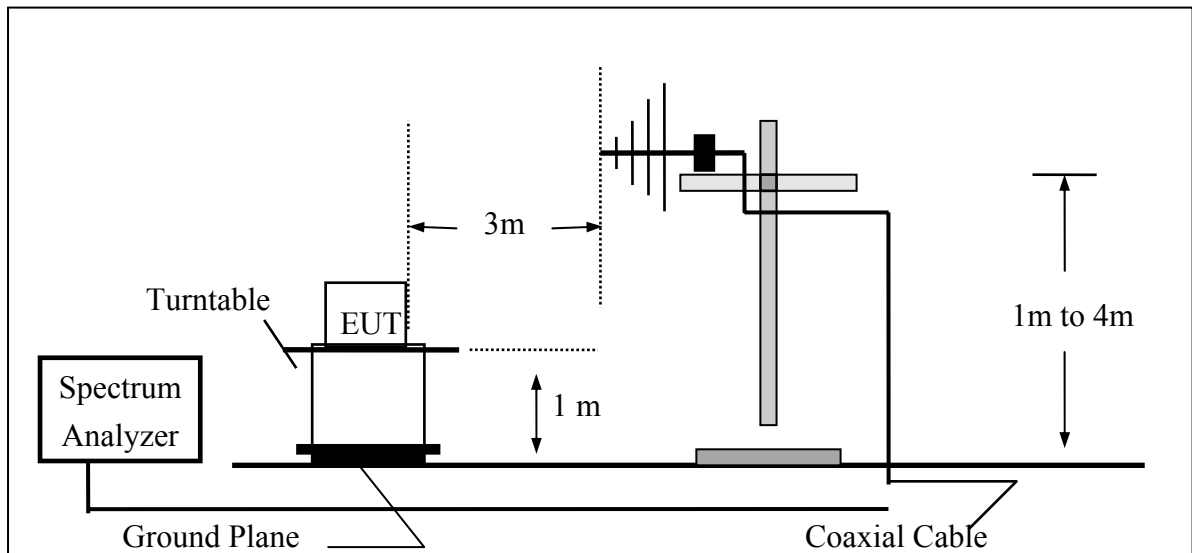
9.1 Standard Applicable

According to FCC §2.1053,

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

9.2 EUT Setup (Block Diagram of Configuration)

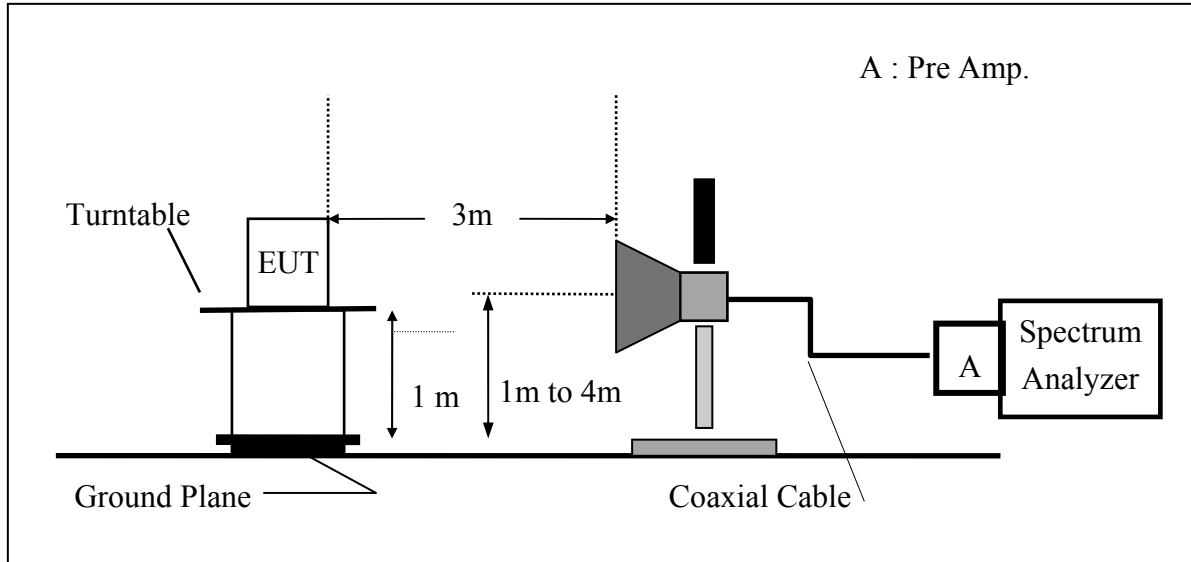
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



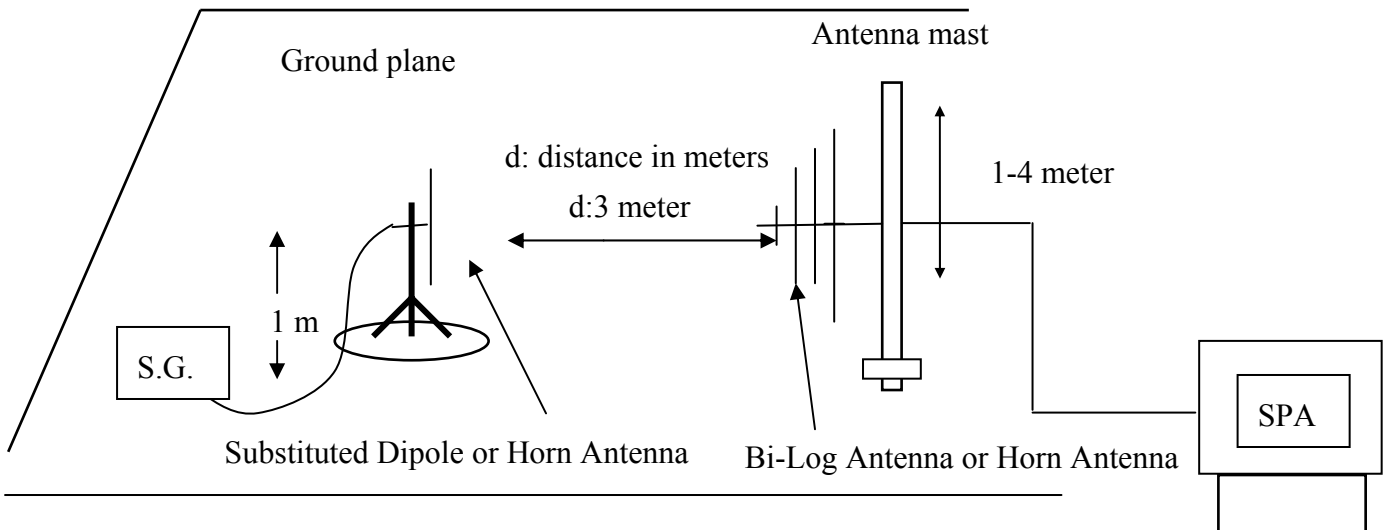
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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

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

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9.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	11/13/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2008	02/25/2009
Signal Generator	R&S	SMR40	100210	02/09/2008	02/10/2009
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	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2007	10/08/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2007	10/08/2008
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2007	06/10/2008
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2007	06/10/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	N/A	08/16/2007	08/15/2008

9.5 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 824.20 MHz	Test By:	Bondi
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	56.19	V	-66.57	-0.49	0.67	-67.73	-13.00	-54.73
85.29	57.75	V	-60.87	-7.75	0.44	-69.06	-13.00	-56.06
109.54	50.51	V	-68.41	-7.77	0.91	-77.08	-13.00	-64.08
155.13	45.70	V	-68.83	-7.80	1.05	-77.68	-13.00	-64.68
327.79	44.41	V	-67.84	-7.76	1.56	-77.17	-13.00	-64.17
824.00	84.89	V	-18.84	-7.87	2.48	-29.19	-13.00	-16.19
1648.40	63.81	V	-51.82	9.29	3.56	-46.10	-13.00	-33.10
2472.60	72.41	V	-41.16	10.08	4.42	-35.51	-13.00	-22.51
3288.00	58.66	V	-54.56	12.15	5.14	-47.55	-13.00	-34.55
3296.80	---	V		12.17	5.15		-13.00	
4121.00	---	V		12.61	5.77		-13.00	
4945.20	---	V		12.65	6.40		-13.00	
5769.40	---	V		13.55	7.12		-13.00	
6593.60	---	V		12.05	7.73		-13.00	
7417.80	---	V		11.49	8.21		-13.00	
8242.00	---	V		11.48	8.84		-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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Operation Mode	: TX CH Low H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 824.20 MHz	Test By:	Bondi
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)
155.13	46.16	H	-70.57	-7.80	1.05	-79.43	-13.00	-66.43
216.24	46.33	H	-67.27	-7.86	1.35	-76.48	-13.00	-63.48
264.74	46.19	H	-68.13	-7.90	1.43	-77.45	-13.00	-64.45
329.73	44.73	H	-68.02	-7.75	1.57	-77.35	-13.00	-64.35
611.03	43.97	H	-62.28	-7.79	2.13	-72.20	-13.00	-59.20
824.00	89.44	H	-14.03	-7.87	2.48	-24.38	-13.00	-11.38
1648.40	68.28	H	-47.19	9.29	3.56	-41.47	-13.00	-28.47
2472.60	63.24	H	-49.94	10.08	4.42	-44.29	-13.00	-31.29
3296.80	---	H		12.17	5.15		-13.00	
4121.00	---	H		12.61	5.77		-13.00	
4945.20	---	H		12.65	6.40		-13.00	
5769.40	---	H		13.55	7.12		-13.00	
6593.60	---	H		12.05	7.73		-13.00	
7417.80	---	H		11.49	8.21		-13.00	
8242.00	---	H		11.48	8.84		-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 H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 836.60 MHz	Test By:	Bondi
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)
58.13	56.69	V	-66.07	-0.49	0.67	-67.23	-13.00	-54.23
85.29	56.57	V	-62.05	-7.75	0.44	-70.24	-13.00	-57.24
133.79	47.30	V	-68.86	-7.79	0.97	-77.62	-13.00	-64.62
286.08	45.86	V	-67.39	-7.91	1.44	-76.74	-13.00	-63.74
1663.00	62.91	V	-52.73	9.33	3.58	-46.98	-13.00	-33.98
1673.20	---	V		9.36	3.59		-13.00	
2509.80	73.70	V	-39.74	10.09	4.46	-34.11	-13.00	-21.11
3333.50	59.12	V	-54.06	12.25	5.18	-46.99	-13.00	-33.99
3346.40	---	V		12.28	5.19		-13.00	
4183.00	---	V		12.62	5.82		-13.00	
5019.60	---	V		12.67	6.46		-13.00	
5856.20	---	V		13.68	7.21		-13.00	
6692.80	---	V		11.95	7.80		-13.00	
7529.40	---	V		11.45	8.27		-13.00	
8366.00	---	V		11.59	8.93		-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 H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 836.60 MHz	Test By:	Bondi
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)
58.13	48.18	H	-74.52	-0.49	0.67	-75.68	-13.00	-62.68
155.13	46.33	H	-70.40	-7.80	1.05	-79.26	-13.00	-66.26
264.74	48.67	H	-65.65	-7.90	1.43	-74.97	-13.00	-61.97
507.25	50.49	H	-60.03	-7.73	1.88	-69.64	-13.00	-56.64
1663.00	66.17	H	-49.31	9.33	3.58	-43.55	-13.00	-30.55
1673.20	---	H		9.36	3.59		-13.00	
2509.80	63.49	H	-49.55	10.09	4.46	-43.92	-13.00	-30.92
3333.50	57.88	H	-55.30	12.25	5.18	-48.23	-13.00	-35.23
3346.40	---	H		12.28	5.19		-13.00	
4183.00	---	H		12.62	5.82		-13.00	
5019.60	---	H		12.67	6.46		-13.00	
5856.20	---	H		13.68	7.21		-13.00	
6692.80	---	H		11.95	7.80		-13.00	
7529.40	---	H		11.45	8.27		-13.00	
8366.00	---	H		11.59	8.93		-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 H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 848.80 MHz	Test By:	Bondi
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)
58.13	57.12	V	-65.64	-0.49	0.67	-66.80	-13.00	-53.80
85.29	56.55	V	-62.07	-7.75	0.44	-70.26	-13.00	-57.26
150.28	45.14	V	-69.19	-7.80	1.02	-78.01	-13.00	-65.01
286.08	45.45	V	-67.80	-7.91	1.44	-77.15	-13.00	-64.15
475.23	58.57	V	-51.58	-7.71	1.82	-61.11	-13.00	-48.11
850.00	89.74	V	-14.00	-7.88	2.54	-24.42	-13.00	-11.42
1697.60	63.27	V	-52.40	9.44	3.61	-46.57	-13.00	-33.57
2546.40	73.94	V	-39.50	10.20	4.49	-33.80	-13.00	-20.80
3385.50	59.10	V	-54.04	12.36	5.22	-46.90	-13.00	-33.90
3395.20	---	V		12.38	5.23		-13.00	
4244.00	---	V		12.63	5.87		-13.00	
5092.80	---	V		12.74	6.51		-13.00	
5941.60	---	V		13.81	7.31		-13.00	
6790.40	---	V		11.86	7.87		-13.00	
7639.20	---	V		11.40	8.36		-13.00	
8488.00	---	V		11.70	9.02		-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 H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 848.80 MHz	Test By:	Bondi
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	50.42	H	-73.14	-1.45	0.74	-75.33	-13.00	-62.33
167.74	46.03	H	-69.75	-7.81	1.13	-78.69	-13.00	-65.69
216.24	48.06	H	-65.54	-7.86	1.35	-74.75	-13.00	-61.75
463.59	59.00	H	-51.29	-7.71	1.81	-60.81	-13.00	-47.81
633.34	44.93	H	-62.14	-7.80	2.20	-72.14	-13.00	-59.14
850.00	93.27	H	-10.47	-7.88	2.54	-20.89	-13.00	-7.89
1697.60	66.71	H	-48.78	9.44	3.61	-42.96	-13.00	-29.96
2546.40	64.45	H	-48.61	10.20	4.49	-42.91	-13.00	-29.91
3385.50	57.22	H	-55.95	12.36	5.22	-48.81	-13.00	-35.81
3395.20	---	H		12.38	5.23		-13.00	
4244.00	---	H		12.63	5.87		-13.00	
5092.80	---	H		12.74	6.51		-13.00	
5941.60	---	H		13.81	7.31		-13.00	
6790.40	---	H		11.86	7.87		-13.00	
7639.20	---	H		11.40	8.36		-13.00	
8488.00	---	H		11.70	9.02		-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 H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1850.20MHz	Test By:	Bondi
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)
58.13	56.45	V	-66.31	-0.49	0.67	-67.47	-13.00	-54.47
85.29	57.44	V	-61.18	-7.75	0.44	-69.37	-13.00	-56.37
109.54	50.46	V	-68.46	-7.77	0.91	-77.13	-13.00	-64.13
158.04	45.44	V	-69.20	-7.81	1.07	-78.08	-13.00	-65.08
293.84	45.52	V	-67.00	-7.92	1.45	-76.36	-13.00	-63.36
1850.00	94.58	V	-21.21	9.90	3.77	-15.08	-13.00	-2.08
3691.00	65.50	V	-47.05	12.61	5.45	-39.90	-13.00	-26.90
3700.40	---	V		12.61	5.46		-13.00	
5543.50	59.74	V	-48.04	13.22	6.88	-41.70	-13.00	-28.70
5550.60	---	V		13.23	6.88		-13.00	
7400.80	---	V		11.50	8.20		-13.00	
9251.00	---	V		11.92	9.53		-13.00	
11101.20	---	V		11.66	10.53		-13.00	
12951.40	---	V		13.63	11.38		-13.00	
14801.60	---	V		12.76	12.26		-13.00	
16651.80	---	V		15.92	13.03		-13.00	
18502.00	---	V		18.75	7.03		-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 Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Low H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1850.20MHz	Test By:	Bondi
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)
58.13	48.04	H	-74.66	-0.49	0.67	-75.82	-13.00	-62.82
143.49	45.89	H	-71.42	-7.79	1.00	-80.22	-13.00	-67.22
324.88	45.01	H	-68.07	-7.78	1.55	-77.40	-13.00	-64.40
441.28	56.70	H	-53.78	-7.69	1.79	-63.26	-13.00	-50.26
674.08	45.12	H	-62.50	-7.83	2.30	-72.63	-13.00	-59.63
1850.00	92.03	H	-23.52	9.90	3.77	-17.39	-13.00	-4.39
3691.00	65.34	H	-47.23	12.61	5.45	-40.08	-13.00	-27.08
3700.40	---	H		12.61	5.46		-13.00	
5543.50	59.70	H	-47.89	13.22	6.88	-41.55	-13.00	-28.55
5550.60	---	H		13.23	6.88		-13.00	
7400.80	---	H		11.50	8.20		-13.00	
9251.00	---	H		11.92	9.53		-13.00	
11101.20	---	H		11.66	10.53		-13.00	
12951.40	---	H		13.63	11.38		-13.00	
14801.60	---	H		12.76	12.26		-13.00	
16651.80	---	H		15.92	13.03		-13.00	
18502.00	---	H		18.75	7.03		-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 Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode	: TX CH Mid H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1880MHz	Test By:	Bondi
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)
58.13	56.44	V	-66.32	-0.49	0.67	-67.48	-13.00	-54.48
85.29	56.56	V	-62.06	-7.75	0.44	-70.25	-13.00	-57.25
99.84	51.47	V	-68.52	-7.76	0.88	-77.16	-13.00	-64.16
150.28	45.39	V	-68.94	-7.80	1.02	-77.76	-13.00	-64.76
3756.00	62.97	V	-49.41	12.60	5.50	-42.31	-13.00	-29.31
3760.00	---	V		12.60	5.50		-13.00	
5640.00	58.07	V	-49.35	13.36	6.98	-42.98	-13.00	-29.98
7520.00	---	V		11.45	8.26		-13.00	
9400.00	---	V		11.93	9.61		-13.00	
11280.00	---	V		11.92	10.57		-13.00	
13160.00	---	V		13.33	11.53		-13.00	
15040.00	---	V		13.76	12.32		-13.00	
16920.00	---	V		15.27	13.14		-13.00	
18800.00	---	V		18.68	11.20		-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 H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1880MHz	Test By:	Bondi
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)
75.59	49.61	H	-74.30	-1.85	0.75	-76.90	-13.00	-63.90
158.04	45.74	H	-70.77	-7.81	1.07	-79.65	-13.00	-66.65
349.13	45.77	H	-65.69	-7.64	1.65	-74.98	-13.00	-61.98
434.49	55.95	H	-54.82	-7.69	1.78	-64.28	-13.00	-51.28
633.34	45.71	H	-61.36	-7.80	2.20	-71.36	-13.00	-58.36
3760.00	62.68	H	-49.69	12.60	5.50	-42.59	-13.00	-29.59
5640.00	58.13	H	-49.12	13.36	6.98	-42.74	-13.00	-29.74
7520.00	---	H		11.45	8.26		-13.00	
9400.00	---	H		11.93	9.61		-13.00	
11280.00	---	H		11.92	10.57		-13.00	
13160.00	---	H		13.33	11.53		-13.00	
15040.00	---	H		13.76	12.32		-13.00	
16920.00	---	H		15.27	13.14		-13.00	
18800.00	---	H		18.68	11.20		-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 H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1909.8 MHz	Test By:	Bondi
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	56.21	V	-66.55	-0.49	0.67	-67.71	-13.00	-54.71
85.29	57.57	V	-61.05	-7.75	0.44	-69.24	-13.00	-56.24
109.54	51.31	V	-67.61	-7.77	0.91	-76.28	-13.00	-63.28
133.79	46.71	V	-69.45	-7.79	0.97	-78.21	-13.00	-65.21
436.43	55.64	V	-54.85	-7.69	1.78	-64.31	-13.00	-51.31
1910.00	92.03	V	-23.80	10.08	3.83	-17.55	-13.00	-4.55
3821.00	61.28	V	-50.94	12.60	5.55	-43.88	-13.00	-30.88
3981.60	---	V		12.60	5.67		-13.00	
5725.50	58.30	V	-48.81	13.49	7.07	-42.40	-13.00	-29.40
5972.40	---	V		13.86	7.34		-13.00	
7963.20	---	V		11.27	8.64		-13.00	
9954.00	---	V		12.08	9.85		-13.00	
11944.80	---	V		13.08	10.94		-13.00	
13935.60	---	V		11.82	11.94		-13.00	
15926.40	---	V		17.08	12.51		-13.00	
17917.20	---	V		9.63	13.58		-13.00	
19908.00	---	V		18.88	14.32		-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 H Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1909.8 MHz	Test By:	Bondi
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)
43.58	49.56	H	-69.85	-1.92	0.63	-72.40	-13.00	-59.40
75.59	50.02	H	-73.89	-1.85	0.75	-76.49	-13.00	-63.49
158.04	45.74	H	-70.77	-7.81	1.07	-79.65	-13.00	-66.65
3603.54	44.98	H	-67.85	12.61	5.39	-60.63	-13.00	-47.63
424.79	56.24	H	-54.95	-7.68	1.76	-64.39	-13.00	-51.39
1910.00	92.03	H	-23.54	10.08	3.83	-17.29	-13.00	-4.29
3821.00	60.26	H	-51.93	12.60	5.55	-44.87	-13.00	-31.87
3981.60	---	H		12.60	5.67		-13.00	
5725.50	57.47	H	-49.49	13.49	7.07	-43.07	-13.00	-30.07
5972.40	---	H		13.86	7.34		-13.00	
7963.20	---	H		11.27	8.64		-13.00	
9954.00	---	H		12.08	9.85		-13.00	
11944.80	---	H		13.08	10.94		-13.00	
13935.60	---	H		11.82	11.94		-13.00	
15926.40	---	H		17.08	12.51		-13.00	
17917.20	---	H		9.63	13.58		-13.00	
19908.00	---	H		18.88	14.32		-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 E2 Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1712.4MHz	Test By:	Bondi
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)
138.64	38.61	V	-60.38	-7.79	1.41	-69.58	-13.00	-56.58
177.44	36.22	V	-63.85	-7.82	1.52	-73.20	-13.00	-60.20
252.13	34.56	V	-66.09	-7.89	1.99	-75.97	-13.00	-62.97
426.73	33.14	V	-62.15	-7.68	2.49	-72.32	-13.00	-59.32
706.08	33.64	V	-56.15	-7.86	3.34	-67.34	-13.00	-54.34
1709.85	85.12	V	-21.90	9.47	5.16	-17.58	-13.00	-4.58
3424.80	47.59	V	-54.94	12.45	7.35	-49.85	-13.00	-36.85
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 E2 Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1712.4MHz	Test By:	Bondi
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)
150.28	38.34	H	-60.26	-7.80	1.47	-69.53	-13.00	-56.53
216.24	45.30	H	-56.21	-7.86	1.70	-65.76	-13.00	-52.76
264.74	36.84	H	-63.68	-7.90	1.99	-73.56	-13.00	-60.56
426.73	32.65	H	-63.19	-7.68	2.49	-73.36	-13.00	-60.36
706.09	33.51	H	-56.05	-7.86	3.34	-67.25	-13.00	-54.25
1709.85	76.33	H	-30.64	9.47	5.16	-26.33	-13.00	-13.33
3424.80	55.17	H	-47.09	12.45	7.35	-42.00	-13.00	-29.00
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 Setting(dBm) + Antenna Gain (dB/dBi) – Cable loss (dB)

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Radiated Spurious Emission Measurement Result: WCDMA IV Mode

Operation Mode	: TX CH Mid E2 Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1732.6MHz	Test By:	Bondi
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)
140.58	38.16	V	-60.60	-7.79	1.42	-69.81	-13.00	-56.81
177.44	36.42	V	-63.65	-7.82	1.52	-73.00	-13.00	-60.00
276.38	34.46	V	-65.65	-7.91	1.99	-75.54	-13.00	-62.54
327.79	33.84	V	-64.83	-7.76	2.26	-74.85	-13.00	-61.85
706.09	33.01	V	-56.78	-7.86	3.34	-67.97	-13.00	-54.97
3465.20	---	V		12.53	7.38		-13.00	
3849.00	35.60	V	-65.29	12.60	7.96	-60.65	-13.00	-47.65
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	

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 E2 Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1732.6MHz	Test By:	Bondi
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)
150.28	37.66	H	-60.94	-7.80	1.47	-70.21	-13.00	-57.21
216.24	47.06	H	-54.45	-7.86	1.70	-64.00	-13.00	-51.00
264.74	40.52	H	-60.00	-7.90	1.99	-69.88	-13.00	-56.88
313.24	42.73	H	-56.23	-7.85	2.12	-66.20	-13.00	-53.20
647.89	32.54	H	-57.85	-7.81	3.00	-68.65	-13.00	-55.65
3465.20	36.58	H	-65.65	12.53	7.38	-60.50	-13.00	-47.50
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 E2 Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1752.6 MHz	Test By:	Bondi
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)
67.83	40.15	V	-71.54	-0.95	1.00	-73.48	-13.00	-60.48
138.64	38.57	V	-60.42	-7.79	1.41	-69.62	-13.00	-56.62
216.24	39.12	V	-62.53	-7.86	1.70	-72.08	-13.00	-59.08
313.24	38.12	V	-61.03	-7.85	2.12	-70.99	-13.00	-57.99
706.09	33.12	V	-56.67	-7.86	3.34	-67.86	-13.00	-54.86
1755.06	79.45	V	-27.55	9.61	5.24	-23.18	-13.00	-10.18
3505.20	50.05	V	-52.43	12.61	7.42	-47.23	-13.00	-34.23
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 E2 Mode	Test Date:	May. 28, 2008
Fundamental Frequency	: 1752.6 MHz	Test By:	Bondi
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)
150.28	37.45	H	-61.15	-7.80	1.47	-70.42	-13.00	-57.42
216.24	40.49	H	-61.02	-7.86	1.70	-70.57	-13.00	-57.57
264.74	35.45	H	-65.07	-7.90	1.99	-74.95	-13.00	-61.95
426.73	32.42	H	-63.42	-7.68	2.49	-73.59	-13.00	-60.59
706.09	32.75	H	-56.81	-7.86	3.34	-68.01	-13.00	-55.01
1755.06	79.45	H	-27.50	9.61	5.24	-23.13	-13.00	-10.13
3505.20	53.82	H	-48.36	12.61	7.42	-43.17	-13.00	-30.17
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

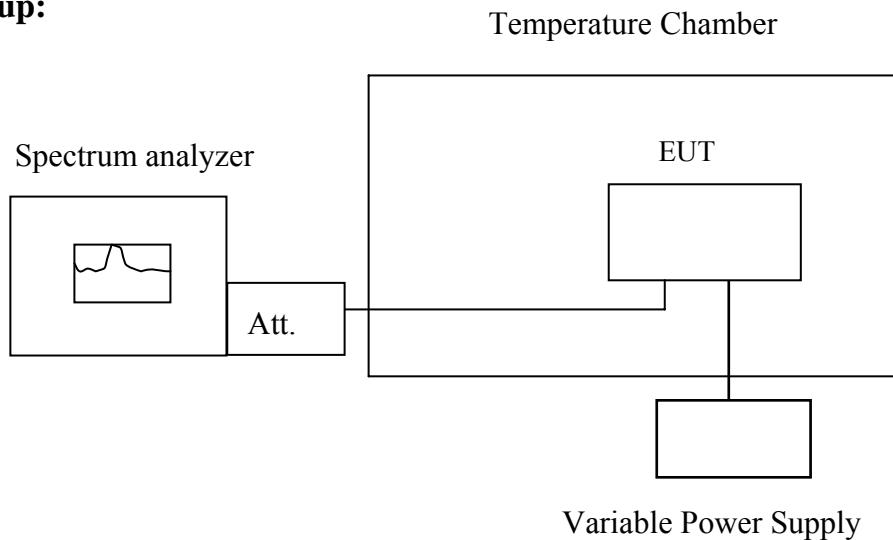
10.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: +/- 2.5

§ 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 re-recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

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10.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2008	04/25/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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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	836.599999	-14.00	2091
3.7	-20	836.600016	-31.00	2091
3.7	-10	836.600002	-17.00	2091
3.7	0	836.599994	-9.00	2091
3.7	10	836.59999	-5.00	2091
3.7	20	836.599985	0.00	2091
3.7	30	836.599983	2.00	2091
3.7	40	836.599988	-3.00	2091
3.7	50	836.599984	1.00	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	1879.999964	18.00	4700
3.7	-20	1879.999966	16.00	4700
3.7	-10	1879.999956	26.00	4700
3.7	0	1879.999980	2.00	4700
3.7	10	1879.999989	-7.00	4700
3.7	20	1879.999982	0.00	4700
3.7	30	1879.999969	13.00	4700
3.7	40	1879.999962	20.00	4700
3.7	50	1879.999956	26.00	4700

Note: The battery is rated 3.7V dc.

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Reference Frequency: WCDMA II Mid Channel 1732.6(ARFCN1413) MHz @ 25°C				
Limit: +/- 2.5 ppm = 4332 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1732.600003	-5.00	4332
3.7	-20	1732.600004	-6.00	4332
3.7	-10	1732.599996	2.00	4332
3.7	0	1732.600008	-10.00	4332
3.7	10	1732.600001	-3.00	4332
3.7	20	1732.599998	0.00	4332
3.7	30	1732.599992	6.00	4332
3.7	40	1732.599988	10.00	4332
3.7	50	1732.599983	15.00	4332

Note: The battery is rated 3.7V dc.

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11 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

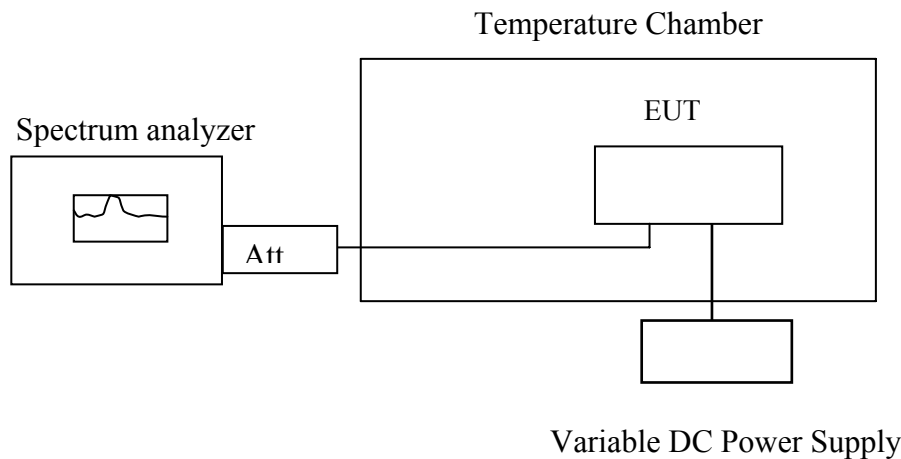
11.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: +/- 2.5

§ 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:



Note: Measurement setup for testing on Antenna connector

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.

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11.4 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Temperature Chamber	TERCHY	MHG-120LF	911009	04/26/2007	04/25/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	07/05/2007	07/04/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2007	07/04/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
Signal Generator	R&S	SMR40	100210	11/09/2007	11/10/2008
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2008	01/05/2009

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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)		
4.20	25.00	836.599973	0.00	2091
3.70	25.00	836.599983	-10.00	2091
3.53	25.00	836.599970	3.00	2091
2.9 (End Point)	25.00	836.599254	719.00	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)		
4.2	25	1879.999959	0.00	4700
3.7	25	1879.999982	-23.00	4700
3.53	25	1879.999976	-17.00	4700
2.9 (Endpoint)	25	1879.99827	1692.00	4700

Reference Frequency: WCDMA IV Mid Channel 1732.6 MHz(ARFCN1413) @ 25°C				
Limit: +/- 2.5 ppm = 4332Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
4.2	25	1732.599996	0.00	4332
3.7	25	1732.599998	-2.00	4332
3.53	25	1732.599997	-1.00	4332
2.9 (Endpoint)	25	1732.600012	-16.00	4332

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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 110Vac/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:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/02/2007	09/03/2008
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2007	06/10/2008
Transient Limiter	HP	11947A	3107A02062	09/02/2007	09/03/2008
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2007	12/30/2008
LISN	Rolf-Heine	NNB-2/16Z	99013	01/10/2008	01/09/2009
Coaxial Cables	N/A	No. 3, 4	N/A	01/11/2008	01/10/2009

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:	Jun. 02, 2008
Temperature:	26 °C	Humidity:	58 %
		Test By:	Bondi

Conducted Emission Measurement

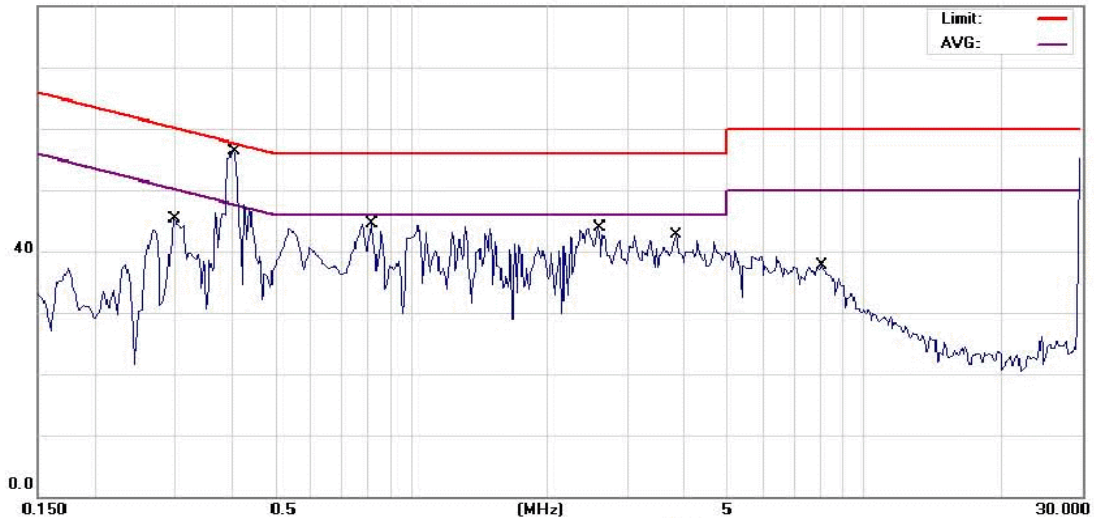
File :EH-2008-50014~18

Data :#8

Date: 2008/6/2

Time: 下午 02:15:56

80.0 dB μ V



Site SGS CONDUCTED #1

Phase: **L1**

Temperature: 26 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Dream

Distance:

Air Pressure: hpa

M/N: DREA 100

Note: GSM850 Link + Charger mode

No.	Mk.	Reading		Factor	Measure- ment	Limit	Over	Detector	Comment
		Freq.	Level						
		MHz	dB μ V	dB	dB μ V	dB μ V	dB		
1		0.3000	45.11	0.11	45.22	60.24	-15.02	QP	
2	*	0.4050	56.19	0.08	56.27	57.75	-1.48	QP	
3		0.4050	45.00	0.08	45.08	47.75	-2.67	AVG	
4		0.8200	44.45	0.04	44.49	56.00	-11.51	QP	
5		0.8200	37.00	0.04	37.04	46.00	-8.96	AVG	
6		2.6000	43.79	0.03	43.82	56.00	-12.18	QP	
7		2.6000	20.00	0.03	20.03	46.00	-25.97	AVG	
8		3.8600	42.67	0.04	42.71	56.00	-13.29	QP	
9		8.0800	37.52	0.18	37.70	60.00	-22.30	QP	

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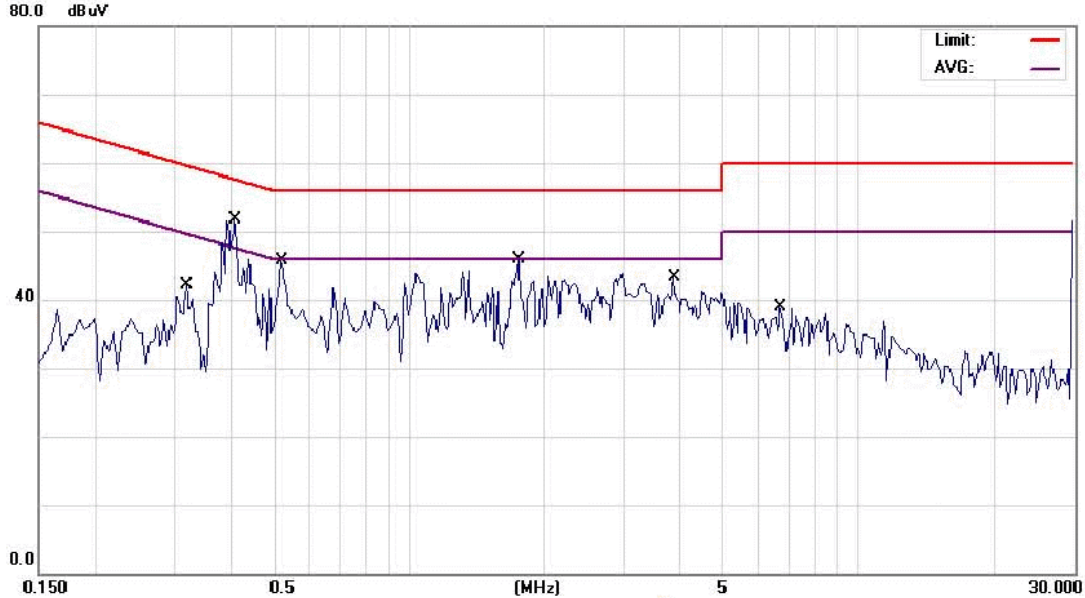
Conducted Emission Measurement

File :EH-2008-50014~18

Data :#9

Date: 2008/6/2

Time: 下午 02:21:38



Site SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: Dream
 M/N: DREA 100
 Note: GSM850 Link + Charger mode

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

Temperature: 26 °C
 Humidity: 58 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3200	41.93	0.10	42.03	59.71	-17.68	QP	
2	*	0.4100	51.64	0.08	51.72	57.65	-5.93	QP	
3		0.4100	36.00	0.08	36.08	47.65	-11.57	AVG	
4		0.5200	45.64	0.05	45.69	56.00	-10.31	QP	
5		0.5200	32.00	0.05	32.05	46.00	-13.95	AVG	
6		1.7600	45.82	0.03	45.85	56.00	-10.15	QP	
7		1.7600	35.00	0.03	35.03	46.00	-10.97	AVG	
8		3.9000	43.27	0.04	43.31	56.00	-12.69	QP	
9		3.9000	28.00	0.04	28.04	46.00	-17.96	AVG	
10		6.7200	38.87	0.13	39.00	60.00	-21.00	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 Link	Test Date:	Jun. 02, 2008
Temperature:	26 °C	Humidity:	58 %
		Test By:	Bondi

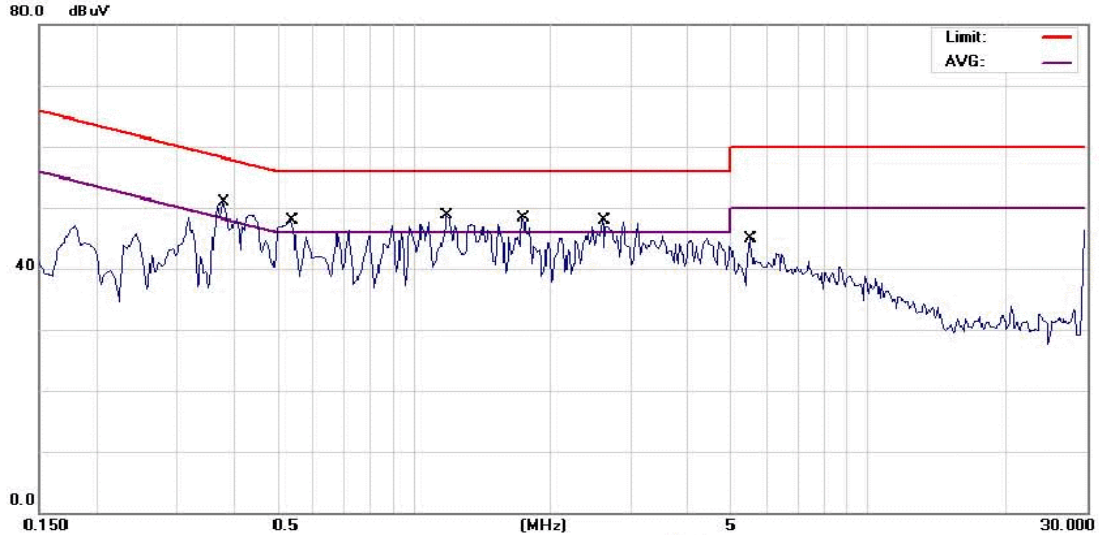
Conducted Emission Measurement

File :EH-2008-50014~18

Data :#17

Date: 2008/6/2

Time: 下午 02:38:37



Site SGS CONDUCTED #1

Limit: CISPR22 Class B Conduction(QP)

EUT: Dream

MN: DREA100

Note: GSM1900 Link + Charger mode

Phase: **L1**

Power: AC 120V/60Hz

Distance:

Temperature: 26 °C

Humidity: 58 %

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3800	50.83	0.09	50.92	58.28	-7.36	QP	
2		0.3800	43.00	0.09	43.09	48.28	-5.19	AVG	
3		0.5400	47.87	0.05	47.92	56.00	-8.08	QP	
4	*	0.5400	41.00	0.05	41.05	46.00	-4.95	AVG	
5		1.1800	48.60	0.03	48.63	56.00	-7.37	QP	
6		1.1800	39.00	0.03	39.03	46.00	-6.97	AVG	
7		1.7400	48.26	0.03	48.29	56.00	-7.71	QP	
8		1.7400	37.00	0.03	37.03	46.00	-8.97	AVG	
9		2.6200	47.91	0.03	47.94	56.00	-8.06	QP	
10		2.6200	38.00	0.03	38.03	46.00	-7.97	AVG	
11		5.5200	44.89	0.08	44.97	60.00	-15.03	QP	

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Conducted Emission Measurement

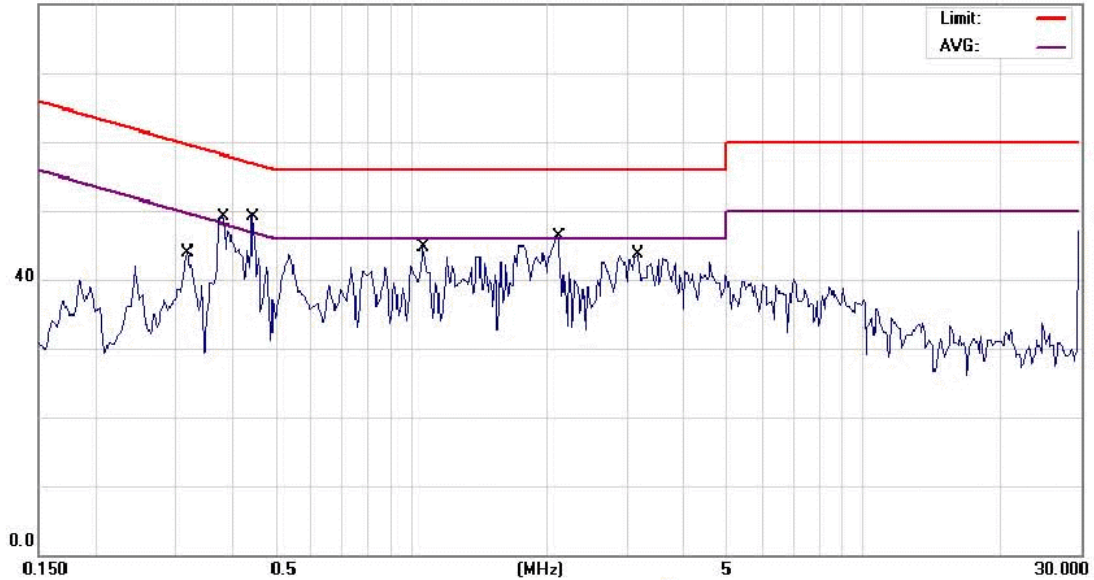
File :EH-2008-50014~18

Data :#10

Date: 2008/6/2

Time: 下午 02:30:47

80.0 dBuV



Site SGS CONDUCTED #1
 Limit: CISPR22 Class B Conduction(QP)
 EUT: Dream
 MN: DREA 100
 Note: GSM1900 Link + Charger mode

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

Temperature: 26 °C
 Humidity: 58 %
 Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3200	43.79	0.10	43.89	59.71	-15.82	QP	
2		0.3850	49.09	0.08	49.17	58.17	-9.00	QP	
3	*	0.3850	42.00	0.08	42.08	48.17	-6.09	AVG	
4		0.4450	49.07	0.07	49.14	56.97	-7.83	QP	
5		0.4450	39.00	0.07	39.07	46.97	-7.90	AVG	
6		1.0600	44.72	0.03	44.75	56.00	-11.25	QP	
7		1.0600	35.00	0.03	35.03	46.00	-10.97	AVG	
8		2.1200	46.20	0.03	46.23	56.00	-9.77	QP	
9		2.1200	33.00	0.03	33.03	46.00	-12.97	AVG	
10		3.1800	43.73	0.04	43.77	56.00	-12.23	QP	
11		3.1800	32.00	0.04	32.04	46.00	-13.96	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	WCDMA IV Link	Test Date:	Jun. 06, 2008
Temperature:	26 °C	Humidity:	58 %
		Test By:	Bondi

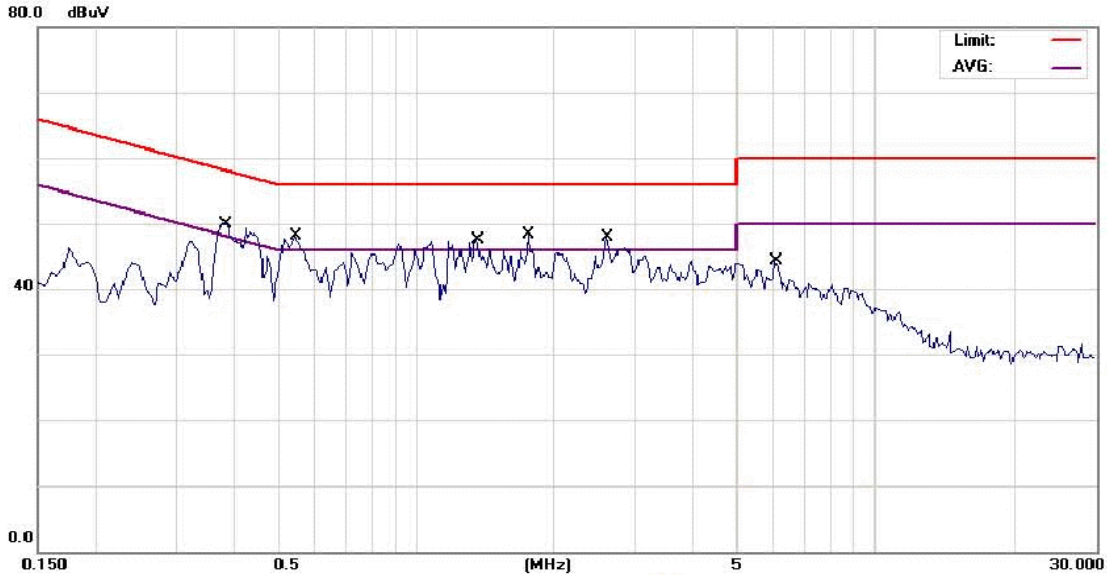
Conducted Emission Measurement

File :EH-2008-50014~18

Data :#19

Date: 2008/06/06

Time: 下午 10:51:35



Site: SGS CONDUCTED #1 Limit: CISPR22 Class B Conduction(QP) EUT: Dream M/N: DREA100 Note: WCDMA B4 LINK + Charger mode	Phase: L1 Power: AC 120V/60Hz Distance:	Temperature: 26 °C Humidity: 58 % Air Pressure: hpa
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No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure-ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.3850	49.88	0.10	49.98	58.17	-8.19	QP	
2		0.3850	33.00	0.10	33.10	48.17	-15.07	AVG	
3		0.5450	48.02	0.06	48.08	56.00	-7.92	QP	
4		0.5450	32.00	0.06	32.06	46.00	-13.94	AVG	
5		1.3550	47.39	0.04	47.43	56.00	-8.57	QP	
6		1.3550	27.00	0.04	27.04	46.00	-18.96	AVG	
7	*	1.7600	48.30	0.04	48.34	56.00	-7.66	QP	
8		1.7600	27.00	0.04	27.04	46.00	-18.96	AVG	
9		2.6000	47.82	0.04	47.86	56.00	-8.14	QP	
10		2.6000	29.00	0.04	29.04	46.00	-16.96	AVG	
11		6.0600	44.28	0.08	44.36	60.00	-15.64	QP	

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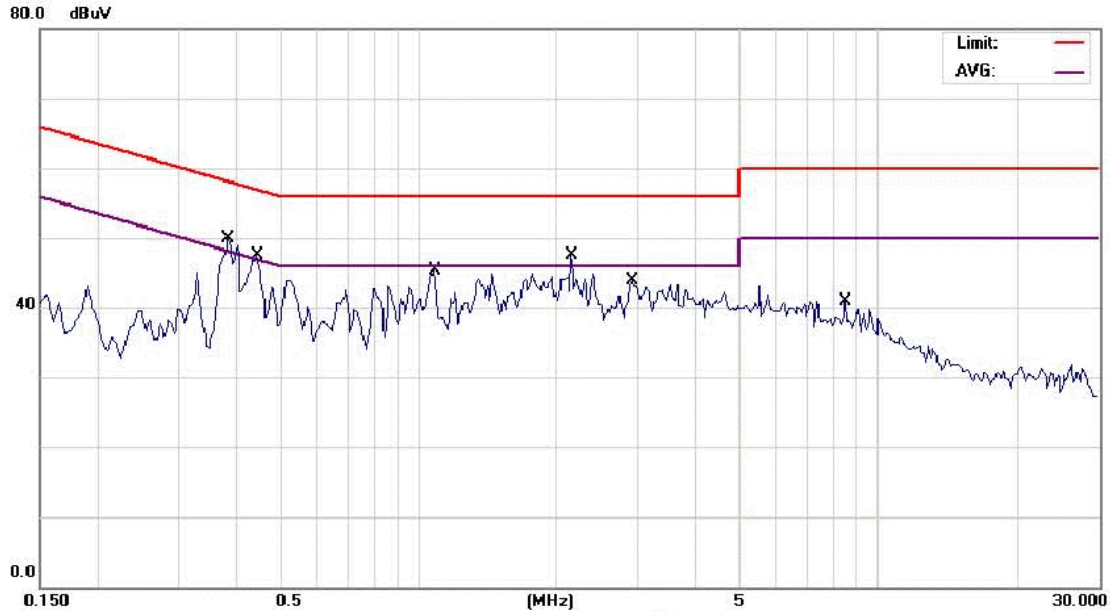
Conducted Emission Measurement

File :EH-2008-50014~18

Data :#18

Date: 2008/06/06

Time: 下午 10:47:12



Site SGS CONDUCTED #1 Phase: **N** Temperature: 26 °C
 Limit: CISPR22 Class B Conduction(QP) Power: AC120V/60Hz Humidity: 58 %
 EUT: Dream Distance: Air Pressure: hpa
 M/N: DREA100
 Note: WCDMA B4 LINK + Charger mode

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.3850	49.80	0.08	49.88	58.17	-8.29	QP	
2		0.3850	38.00	0.08	38.08	48.17	-10.09	AVG	
3		0.4450	47.44	0.07	47.51	56.97	-9.46	QP	
4		0.4450	36.00	0.07	36.07	46.97	-10.90	AVG	
5		1.0850	45.33	0.03	45.36	56.00	-10.64	QP	
6		1.0850	30.00	0.03	30.03	46.00	-15.97	AVG	
7		2.1500	47.46	0.03	47.49	56.00	-8.51	QP	
8		2.1500	30.00	0.03	30.03	46.00	-15.97	AVG	
9		2.9300	43.86	0.03	43.89	56.00	-12.11	QP	
10		2.9300	29.00	0.03	29.03	46.00	-16.97	AVG	
11		8.5000	40.78	0.18	40.96	60.00	-19.04	QP	

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