

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	4/8 Ports Mobile VOIP
Brand Name:	PORTech (for model: MV-374, MV-378), SunComm (for model: SC-495, SC-895)
Model Name:	MV-374, MV-378, SC-495, SC-895
Model Different:	MV-374/SC-495 includes 4 GSM modules and 1 external antenna ports while MV-378/SC-895 includes 8 modules and 2 ex- ternal antenna ports.
FCC ID:	WDBMV374MV378
Report No.:	ER/2008/60007
Issue Date:	Jun. 18, 2008
FCC Rule Part:	2 , 22H & 24E
Prepared for:	PORTech Communications Inc. 150 Shiang Shung North Road Tai Chung Taiwan 403
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.

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VERIFICATION OF COMPLIANCE

Applicant: PORTech Communications Inc.
150 Shiang Shung North Road Tai Chung Taiwan 403

Product Name: 4/8 Ports Mobile VOIP

Brand Name: PORTech (for model: MV-374, MV-378), SunComm (for model: SC-495, SC-895)

FCC ID: WDBMV374MV378

Model No.: MV-374, MV-378, SC-495, SC-895

Model Difference: MV-374/SC-495 includes 4 GSM modules and 1 external antenna ports while MV-378/SC-895 includes 8 modules and 2 external antenna ports.

File Number: ER/2008/60007

Date of test: Jun. 09, 2008 ~ Jun. 18, 2008

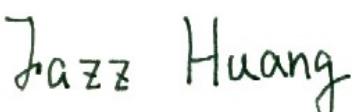
Date of EUT Received: Jun. 09, 2008

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-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 and FCC PART 24 subpart E.

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

Test By:



Date

Jun. 18, 2008

Jazz Huang / Engineer

Prepared By:



Date

Jun. 18, 2008

Elisa Chen / Asst. Supervisor

Approved By



Date

Jun. 18, 2008

Vincent Su / Manager

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Version

Version No.	Date
00	Jun. 18, 2008

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Brand Name:	PORTech (for model: MV-374, MV-378), SunComm (for model: SC-495, SC-895)
Model Name:	MV-374, MV-378, SC-495, SC-895
Model Difference:	MV-374/SC-495 has 4 GSM modules and 4 GSM ports while MV-378/SC-895 with 8 modules and ports
Data Cable (USB):	N/A
Power Supply	12 Vdc from AC/DC Adapter, model: SW60-120B, STD-12090

GSM:

Cellular Phone Standards Frequency Range and Power	GSM/GPRS 850 Class 10	824 MHz– 849MHz	33 dBm
	GSM/GPRS 900 Class 10	880 MHz– 915MHz	33 dBm
	GSM/GPRS 1800 Class 10	1710MHz-1785MHz	30 dBm
	GSM/GPRS 1900 Class 10	1850MHz – 1910MHz	30 dBm
Type of Emission	248KGXW		
IMEI	352024020151760		

This test report applies for GSM 850, PCS 1900

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1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **WDBMV374MV378** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

1.2 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4 (2003) and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

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.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 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

According to measurement procured TIA/EIA 603C. The EUT is placed on a turn table which is 1.0 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 according to the requirements.

A standard antenna was used to replace the EUT and connect to the SG. Adjust the SG output level to reach the max emission level which were measured above.

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2.4 Configuration of Tested System

Fig. 2-1 AC Power Line Conducted Emission and Radiated Emission Configuration

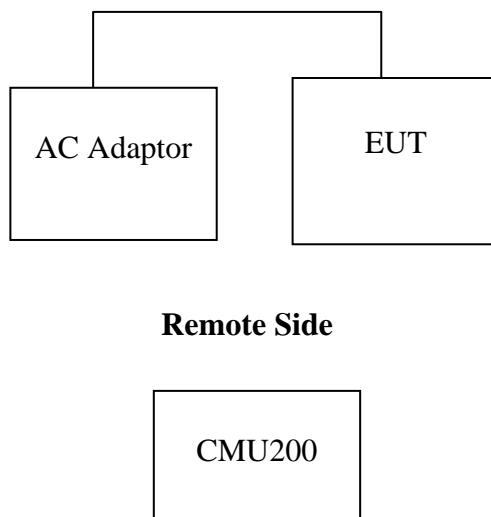


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
2.	Adapter	DVE	DSA-0131F-06 EU 12	N/A	N/A	Un-shielded
3.						

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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)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1)(b)	Frequency Stability vs. Temperature	Compliant
§2.1055(d)(1)(2)	Frequency Stability vs. Voltage	Compliant
§15.107;§15.207	AC Power Line Conducted Emission	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT lie down and Antenna 1 + Antenna 2 stand-up position (H mode) for GSM with power adaptor.

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5. RF POWER OUTPUT MEASUREMENT

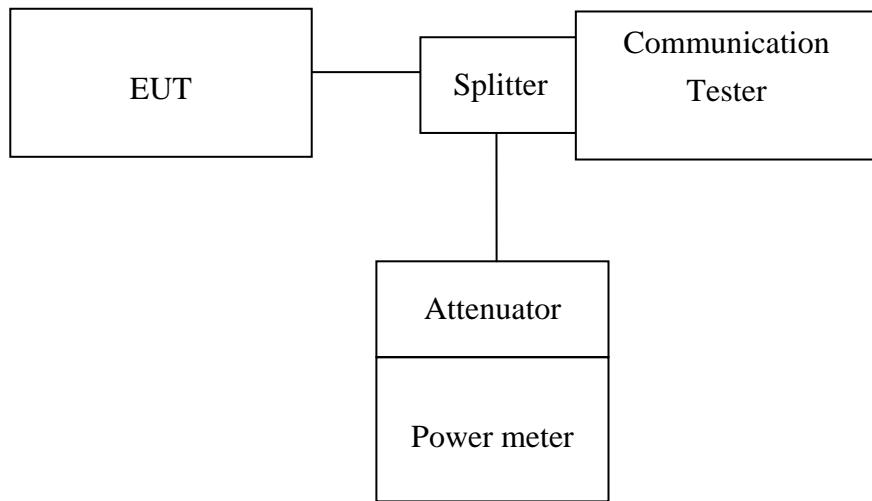
5.1 Standard Applicable

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.

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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	04/19/2008	04/18/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
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	04/14/2008	04/13/2010
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	07/05/2007	07/04/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008

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5.5 Measurement Result

Antenna 1

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Power (dBm)
GSM 850	824.20	128	23.88	0.00	23.88
	836.60	190	23.80	0.00	23.80
	848.80	251	23.88	0.00	23.88

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Power (dBm)
PCS 1900	1850.20	512	22.56	0.00	22.56
	1880.00	661	22.53	0.00	22.53
	1909.80	810	22.41	0.00	22.41

Antenna 2

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Power (dBm)
GSM 850	824.20	128	24.09	0.00	24.09
	836.60	190	23.89	0.00	23.89
	848.80	251	23.94	0.00	23.94

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Power (dBm)
PCS 1900	1850.20	512	22.40	0.00	22.40
	1880.00	661	22.30	0.00	22.30
	1909.80	810	22.23	0.00	22.23

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6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

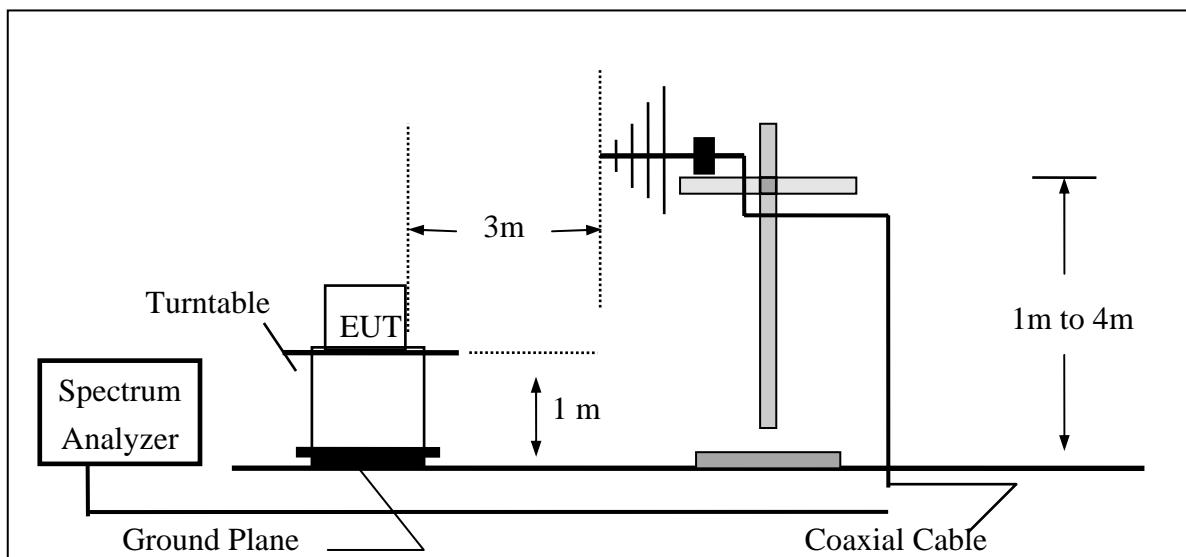
According to FCC §2.1046

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

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

6.2 Test SET-UP (Block Diagram of Configuration)

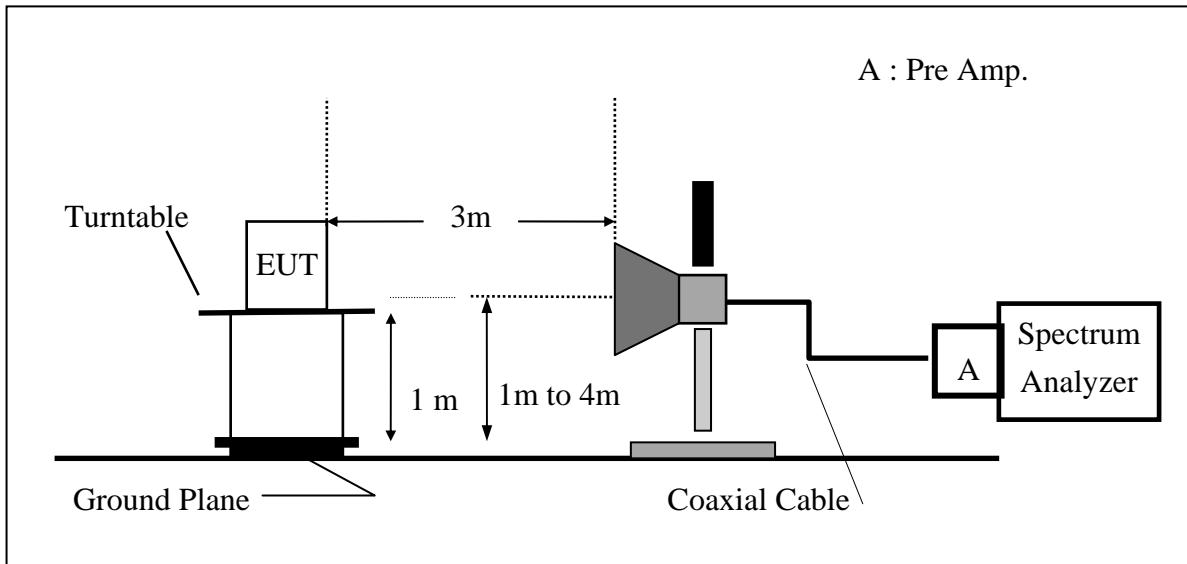
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



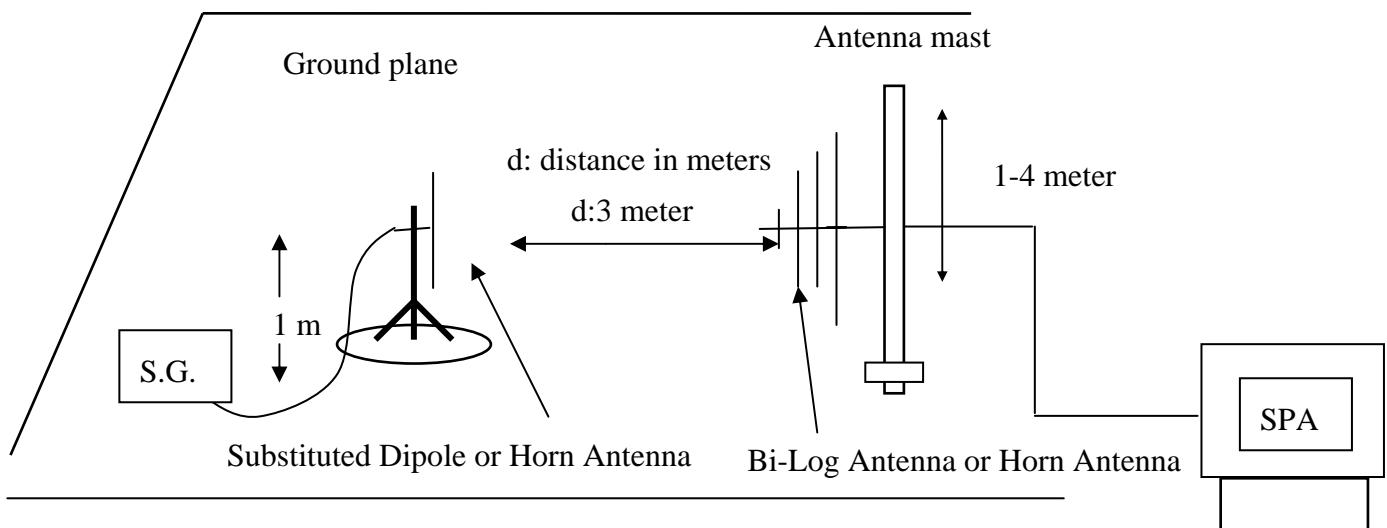
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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 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 –848.8MHz 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:

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

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

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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	04/19/2008	04/18/2009
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	11/17/2007	11/16/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	04/11/2007	04/10/2009
Pre-Amplifier	HP	8447F	3113A06892	01/04/2008	01/03/2009
Pre-Amplifier	HP	8494B	3008A00578	01/04/2008	01/03/2009
Signal Generator	R&S	SMR40	100210	01/22/2008	01/21/2009
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	02/13/2008	02/12/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	02/13/2008	02/12/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	02/13/2008	02/12/2009
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	06/10/2009
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2007	06/10/2009

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6.5 Measurement Result

Antenna 1 + Antenna 2 mode

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	113.35	26.03	-7.87	3.64	14.51	38.45
				H	113.48	25.82	-7.87	3.64	14.31	38.45
	836.60	190	H	V	112.19	25.16	-7.88	3.70	13.59	38.45
				H	112.34	25.00	-7.88	3.70	13.43	38.45
	848.80	251	H	V	117.53	30.79	-7.88	3.75	19.16	38.45
				H	117.34	30.32	-7.88	3.75	18.69	38.45

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	116.77	9.81	9.90	5.41	14.30	33.00
				H	117.16	10.27	9.90	5.41	14.76	33.00
	1880.00	661	H	V	117.35	10.40	9.99	5.46	14.93	33.00
				H	115.31	8.44	9.99	5.46	12.97	33.00
	1909.80	810	H	V	116.99	10.05	10.08	5.51	14.62	33.00
				H	116.28	9.43	10.08	5.51	13.99	33.00

Remark :

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW=300 KHz, VBW=300KHz,

Above 1GHz was RBW= 1MHz , VBW= 3MHz

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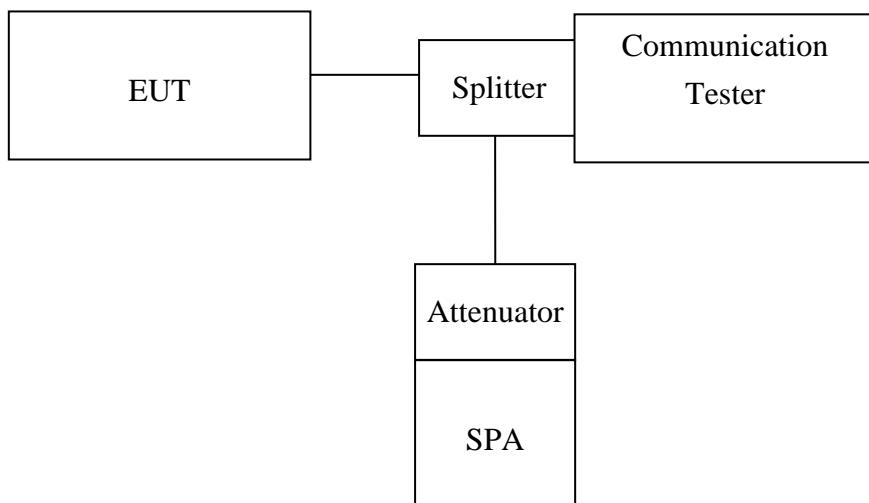
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7. 99% OCCUPIED BANDWIDTH MEASUREMENT

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	04/19/2008	04/18/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
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	04/14/2008	04/13/2010
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	07/05/2007	07/04/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008

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7.5 Measurement Result:.

Antenna 1

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2406
	836.60	190	0.2471
	848.80	251	0.2479

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2416
	1880.00	661	0.2468
	1909.80	810	0.2427

Antenna 2

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2408
	836.60	190	0.2443
	848.80	251	0.2420

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2448
	1880.00	661	0.2392
	1909.80	810	0.2427

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Figure 7-1: GSM 850 Channel Low (Antenna 1)

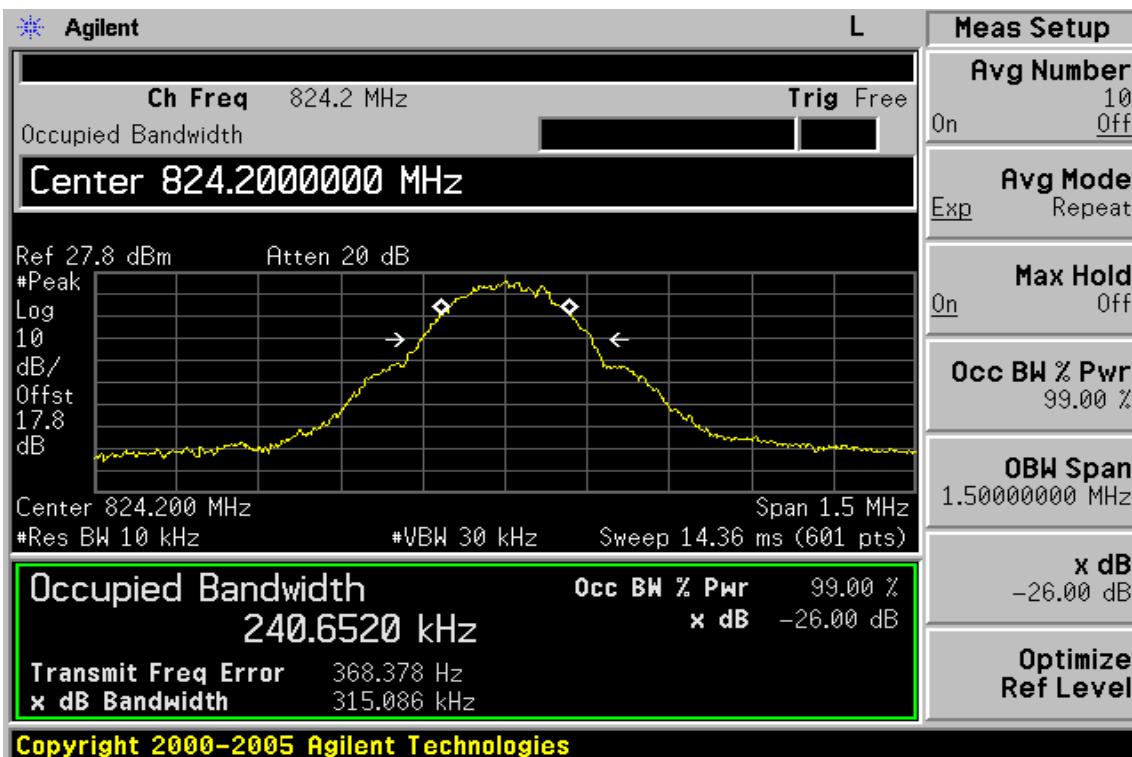
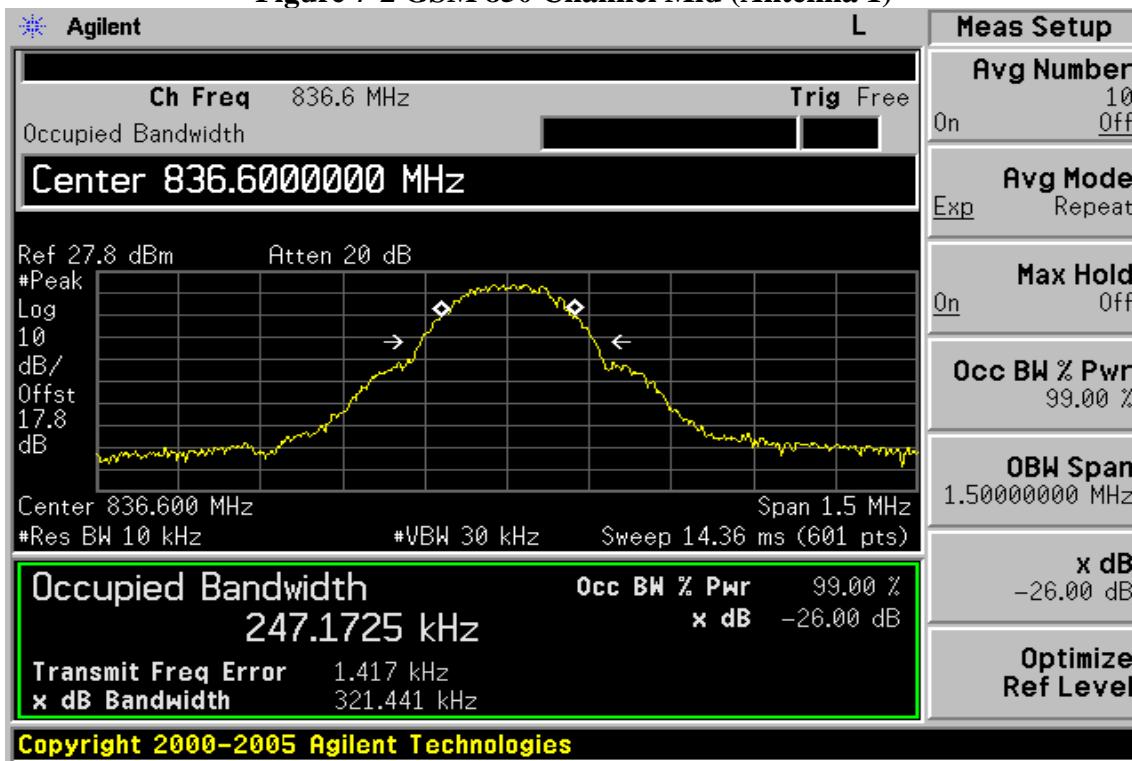


Figure 7-2 GSM 850 Channel Mid (Antenna 1)



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Figure 7-3: GSM 850 Channel High (Antenna 1)

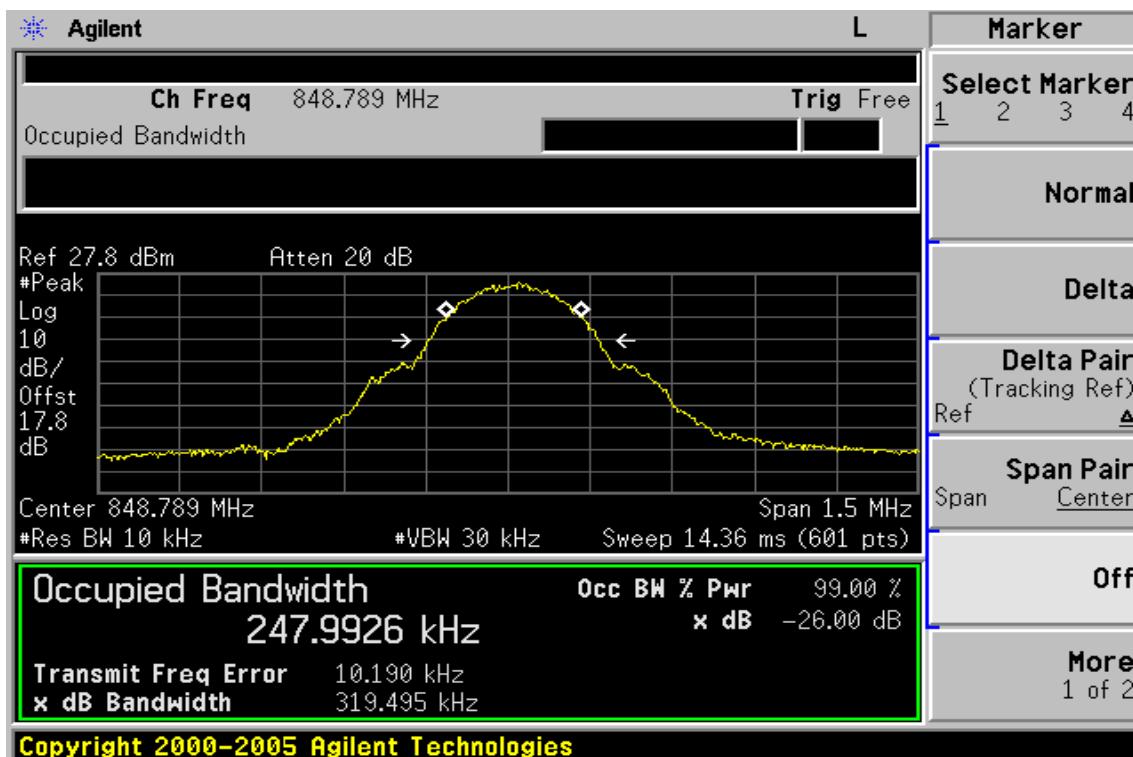
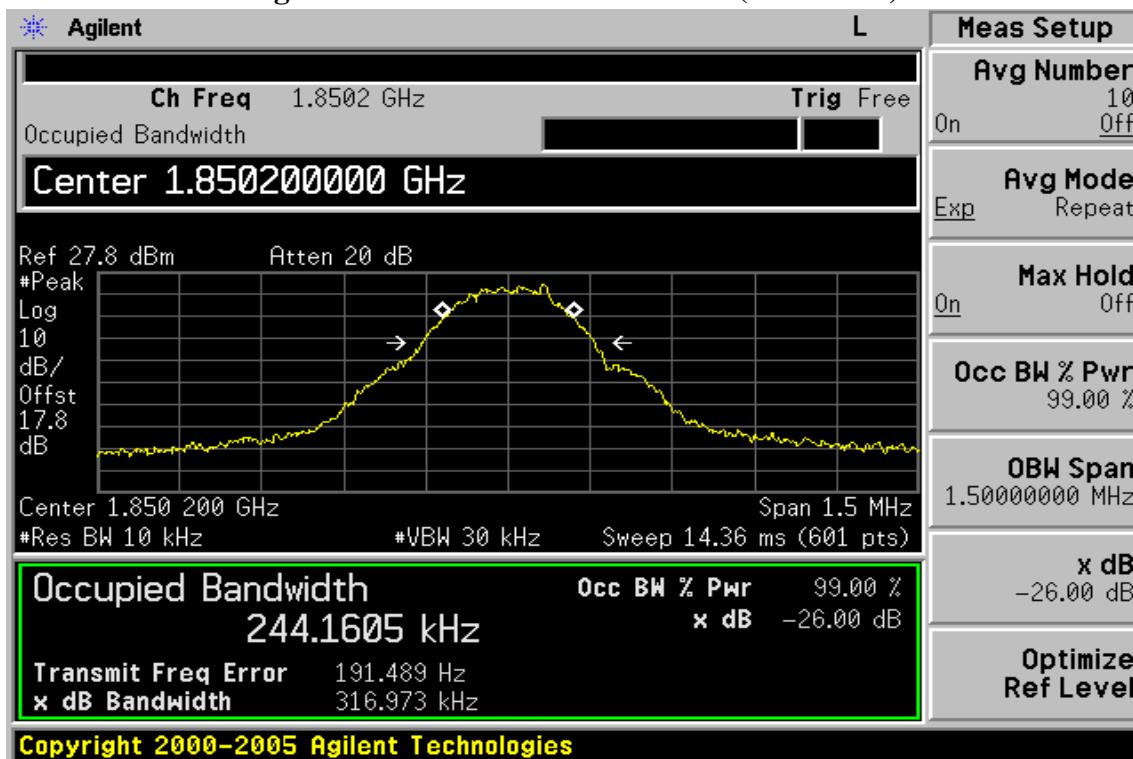


Figure 7-4: PCS 1900 Channel Low (Antenna 1)



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Figure 7-5 PCS 1900 Channel Mid (Antenna 1)

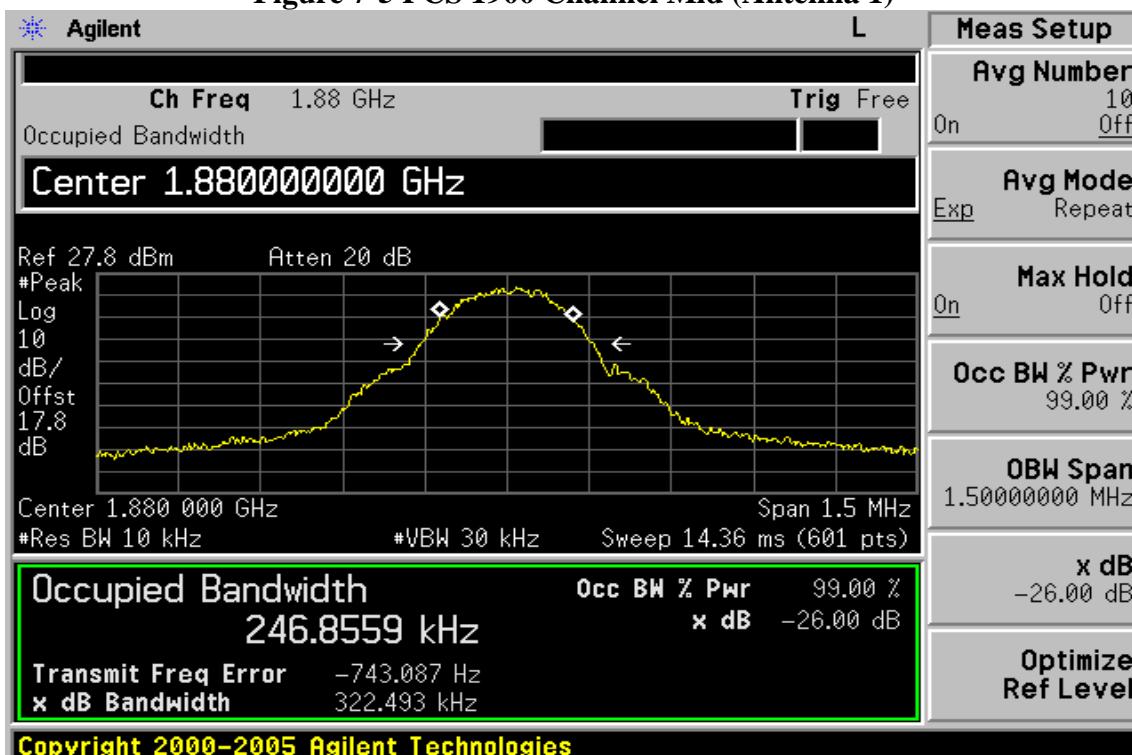
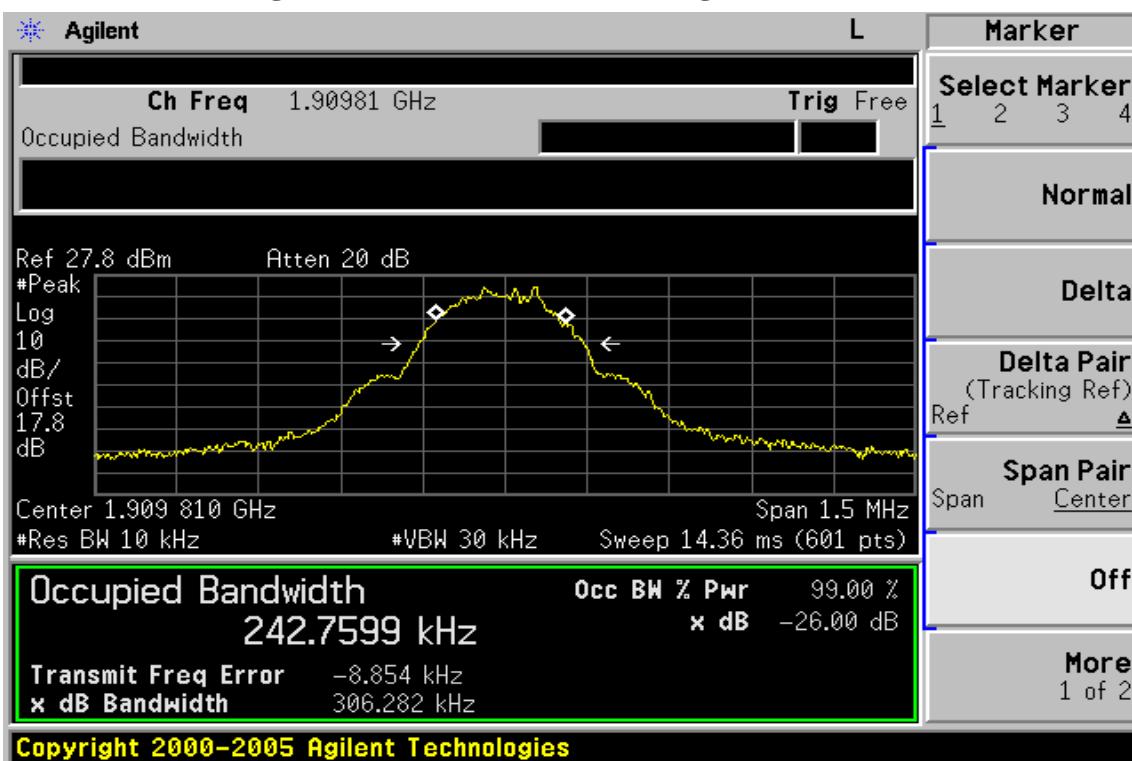


Figure 7-6: PCS 1900 Channel High (Antenna 1)



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Figure 7-1: GSM 850 Channel Low (Antenna 2)

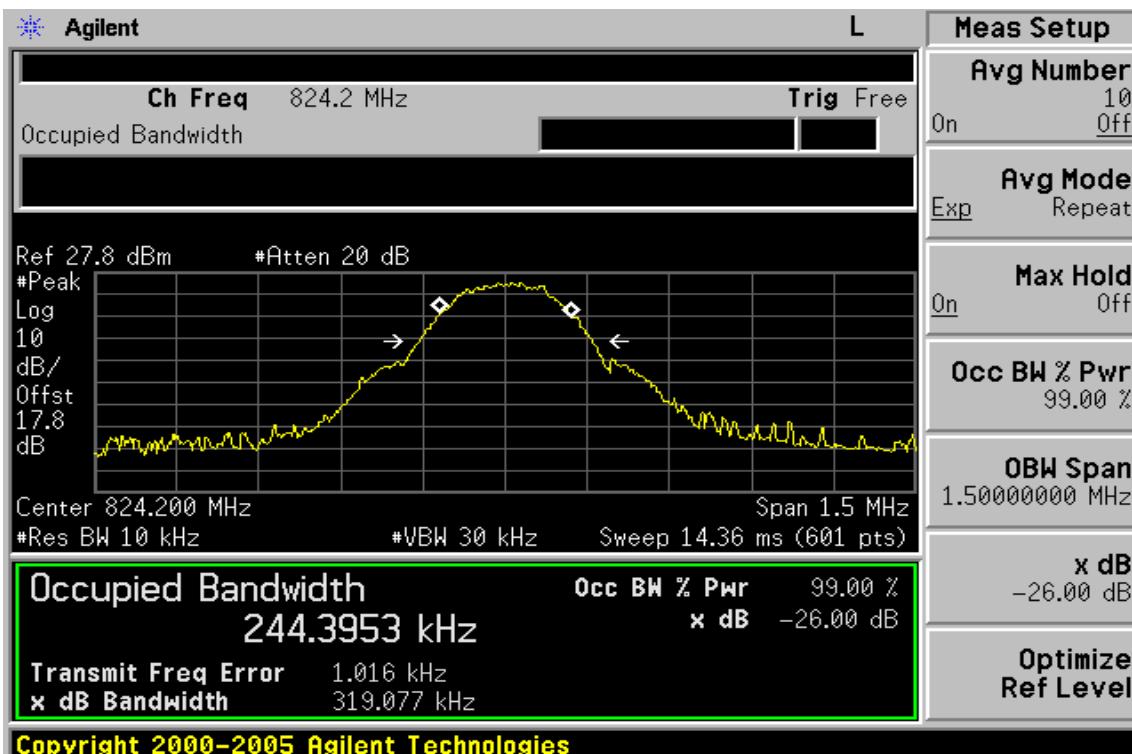
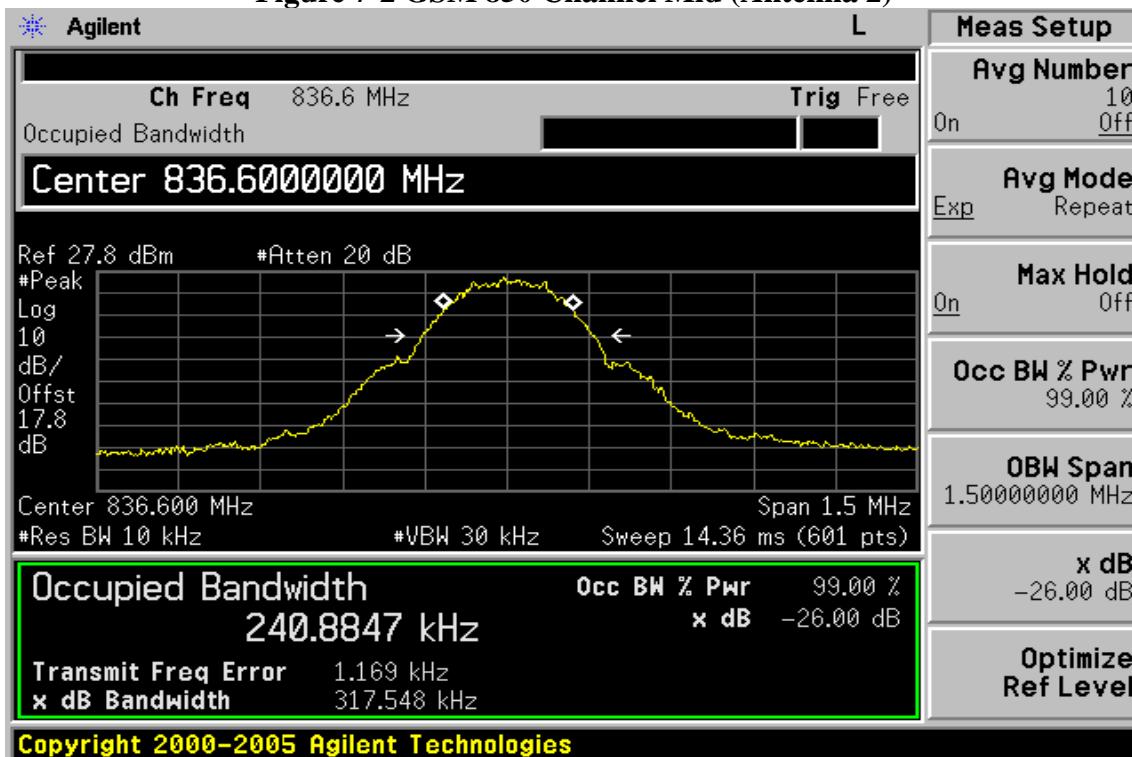


Figure 7-2 GSM 850 Channel Mid (Antenna 2)



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Figure 7-3: GSM 850 Channel High (Antenna 2)

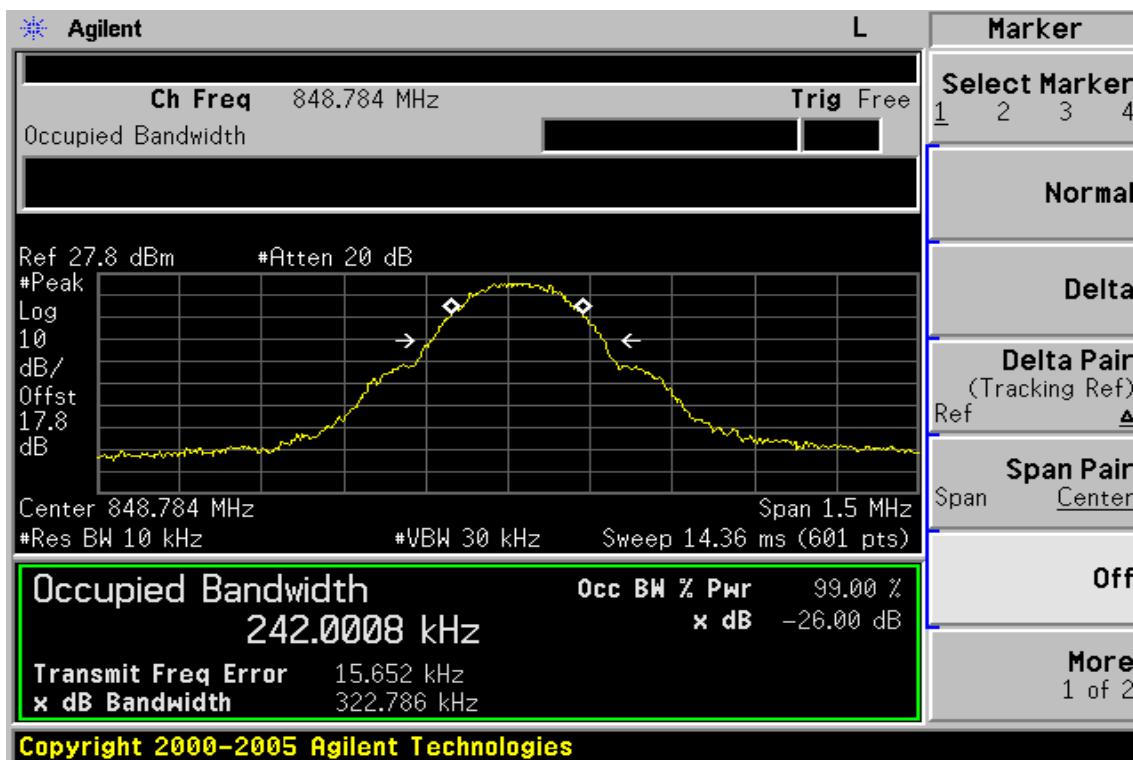
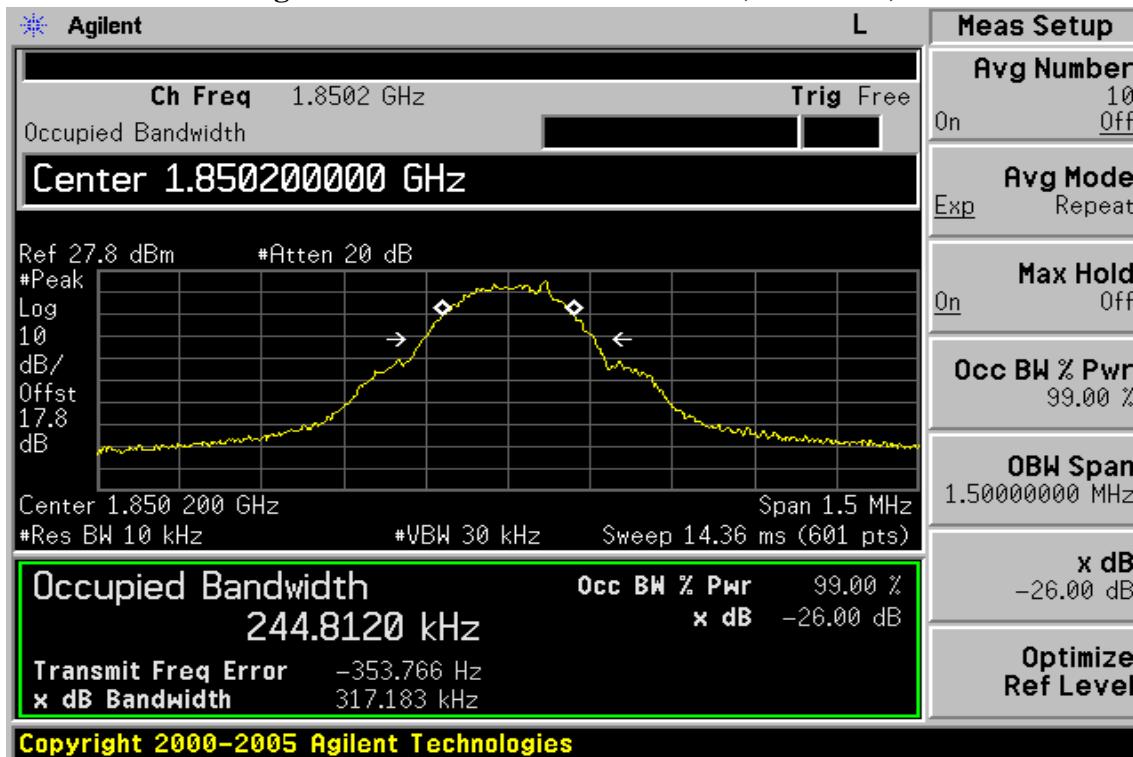


Figure 7-4: PCS 1900 Channel Low (Antenna 2)



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Figure 7-5 PCS 1900 Channel Mid (Antenna 2)

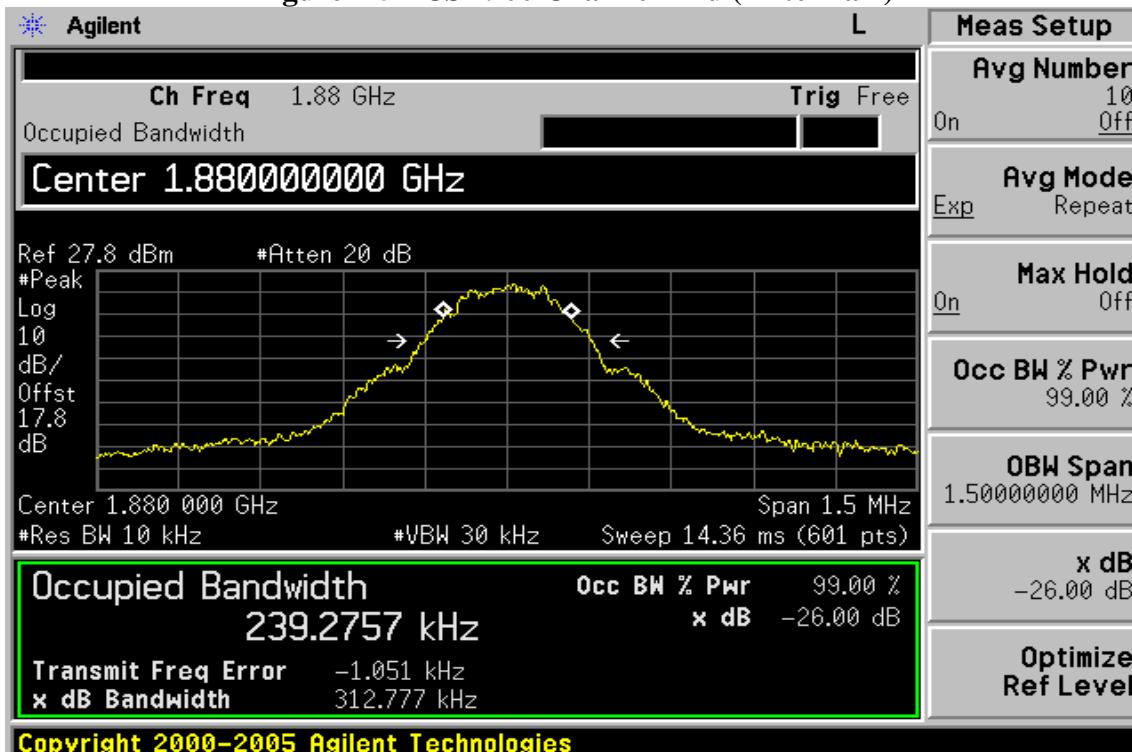
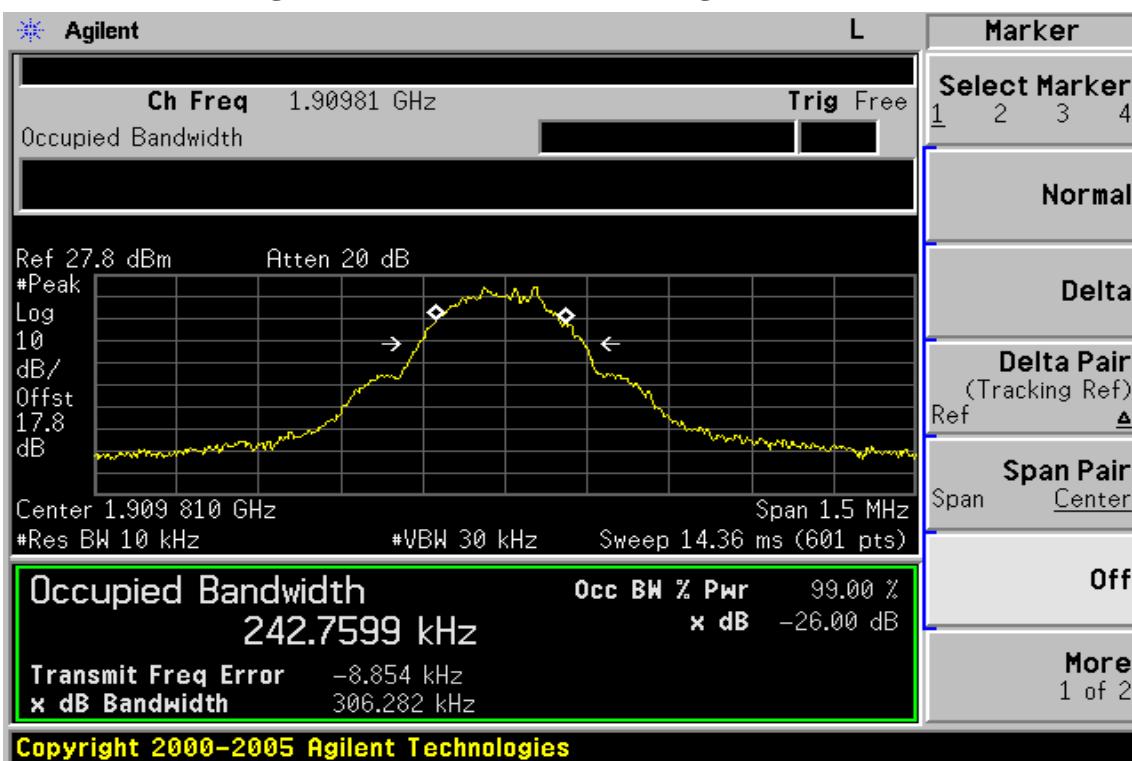


Figure 7-6: PCS 1900 Channel High (Antenna 2)



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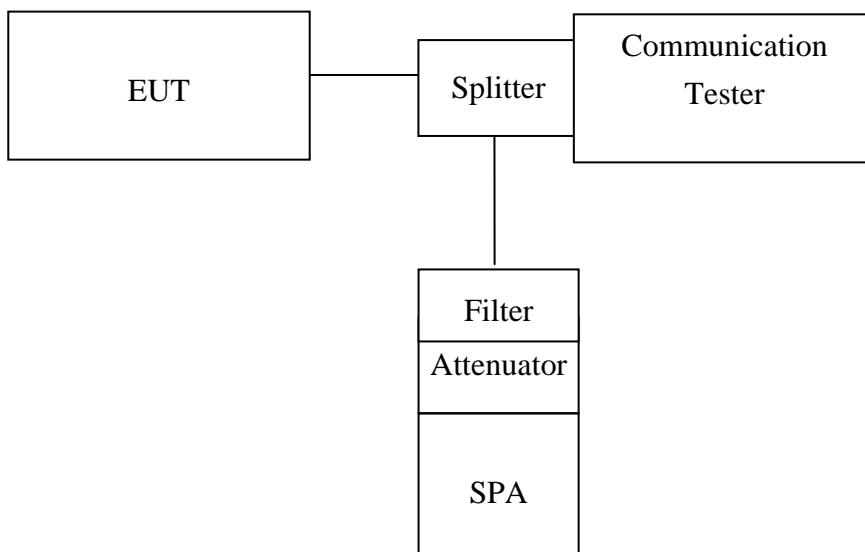
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

According to FCC §2.1051.

FCC §22.917(a), §24.238(a), 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= 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.

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8.4 Measurement Equipment Used:

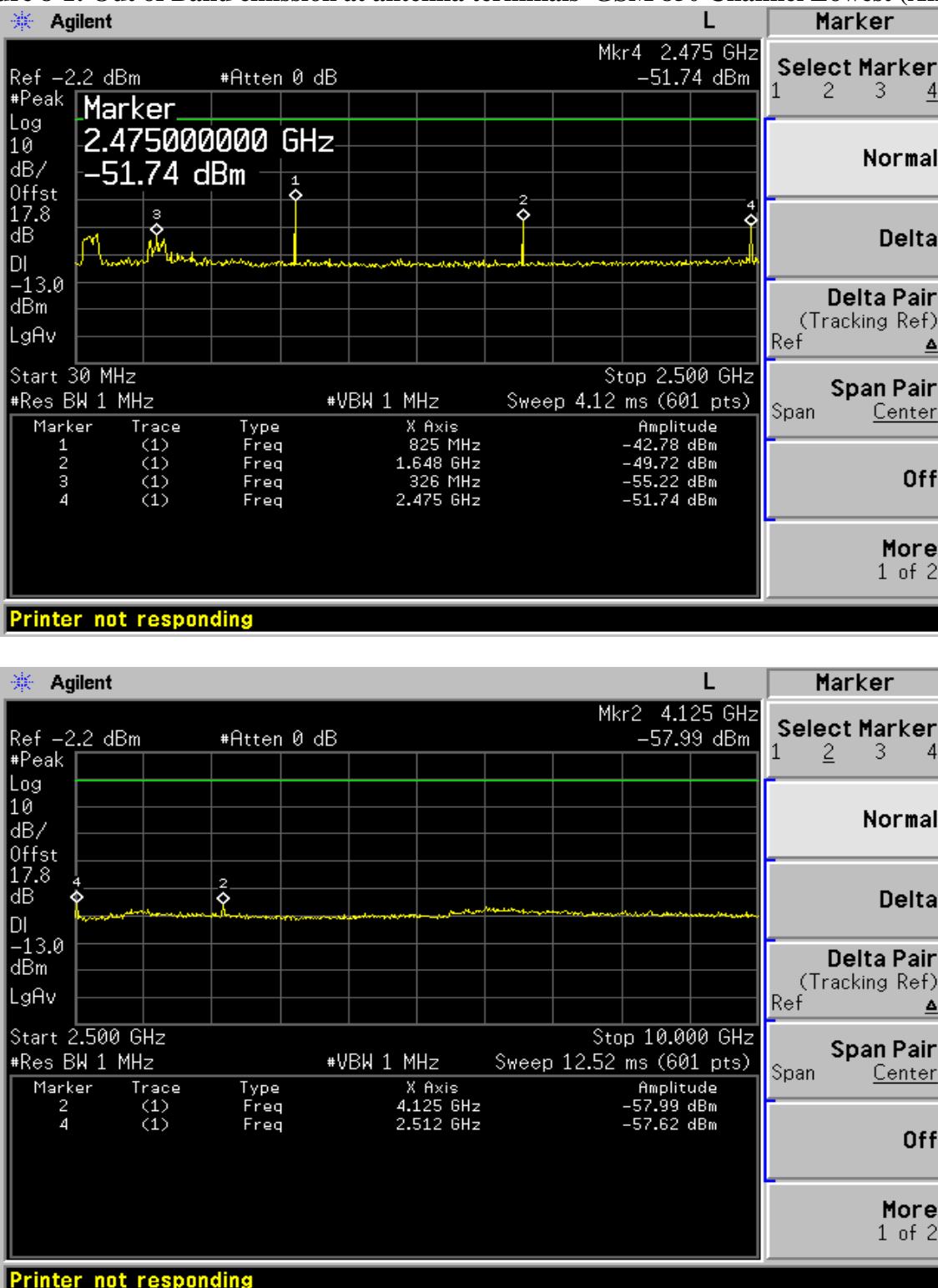
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	07/07/2007	07/06/2008
Power Meter	Anritsu	ML2487A	6K00002070	07/07/2007	07/06/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	04/14/2008	04/13/2010
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	07/05/2007	07/04/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008

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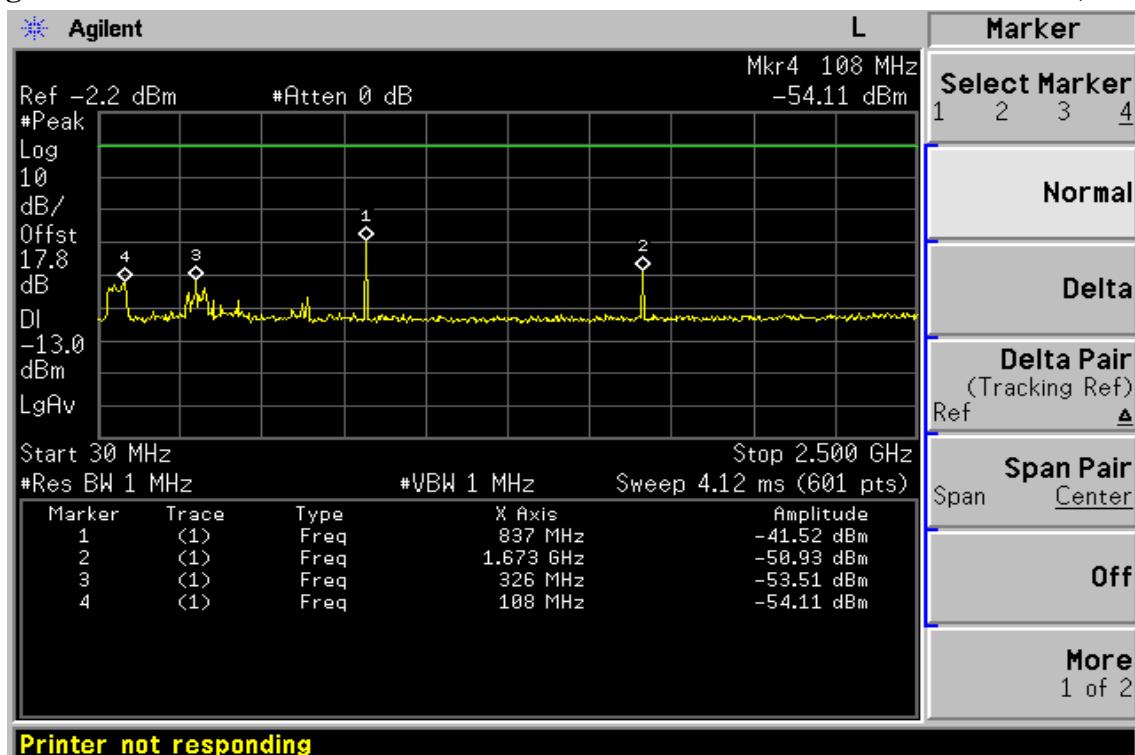
8.5 Measurement Result

Figure 8-1: Out of Band emission at antenna terminals—GSM 850 Channel Lowest (Ant. 1)



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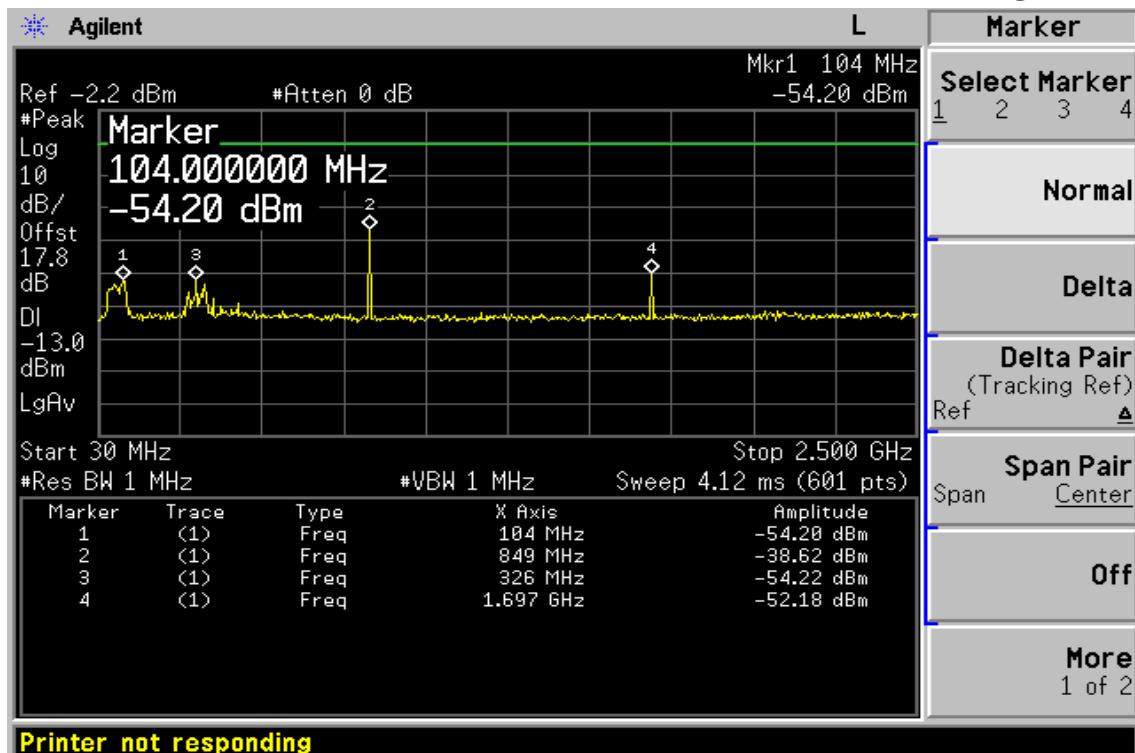
Figure 8-2: Out of Band emission at antenna terminals –GSM 850 Channel Mid (Ant. 1)



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Figure 8-3: Out of Band emission at antenna terminals—GSM 850 Channel Highest (Ant. 1)



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Figure 8-4: Band edge emission at antenna terminals –GSM 850 Channel Lowest (Ant. 1)

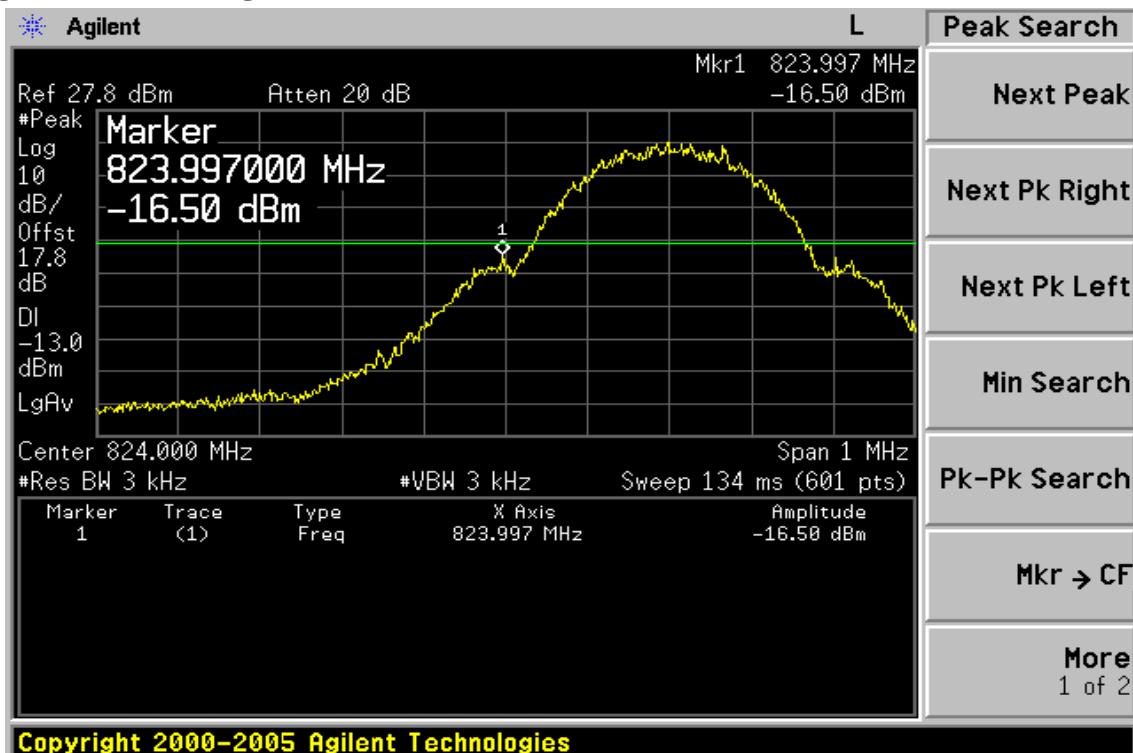
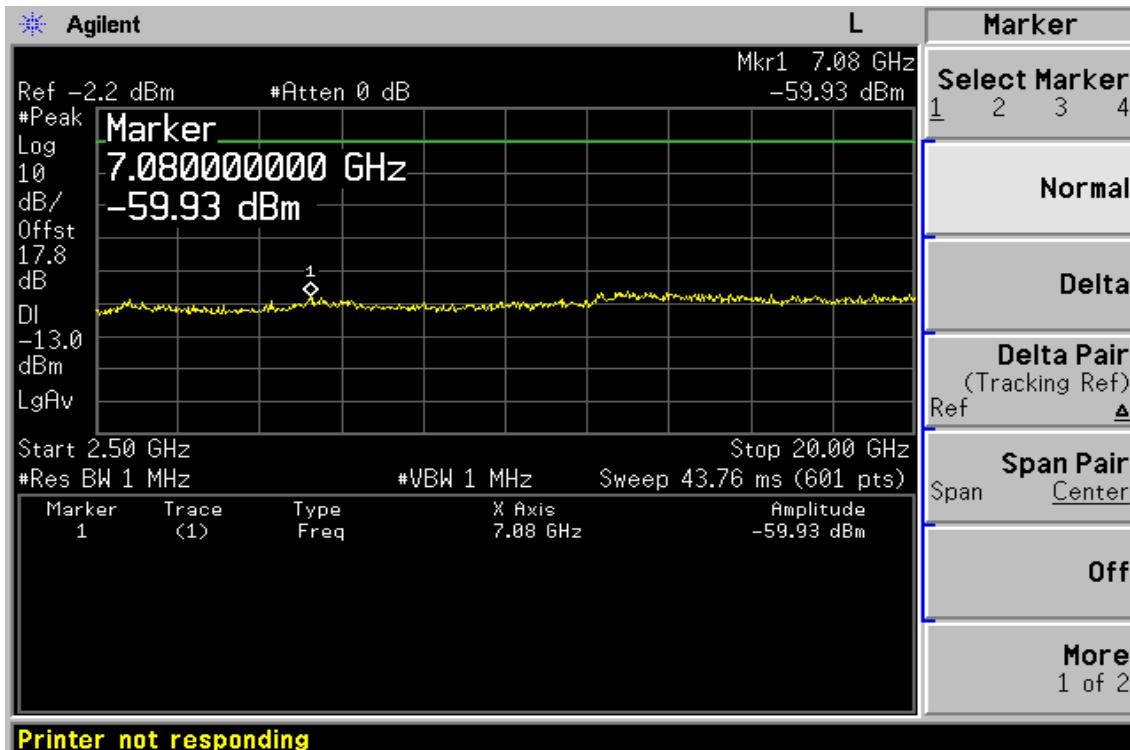
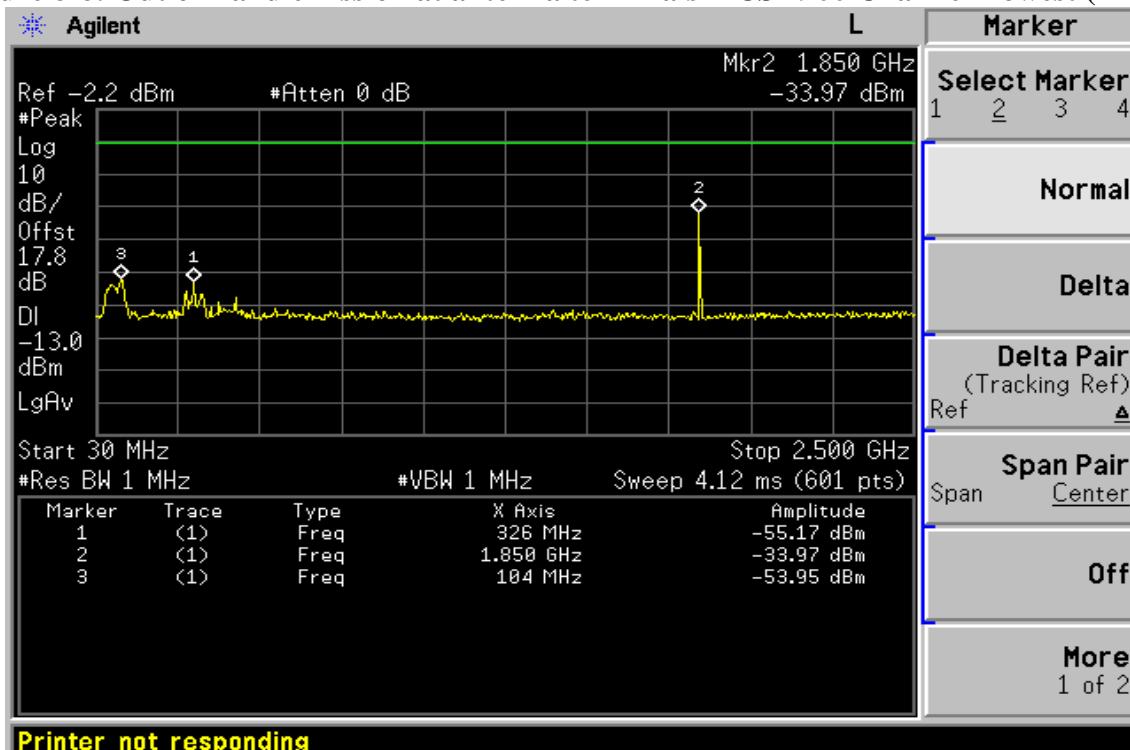


Figure 8-5: Band edge emission at antenna terminals –GSM 850 Channel Highest (Ant. 1)



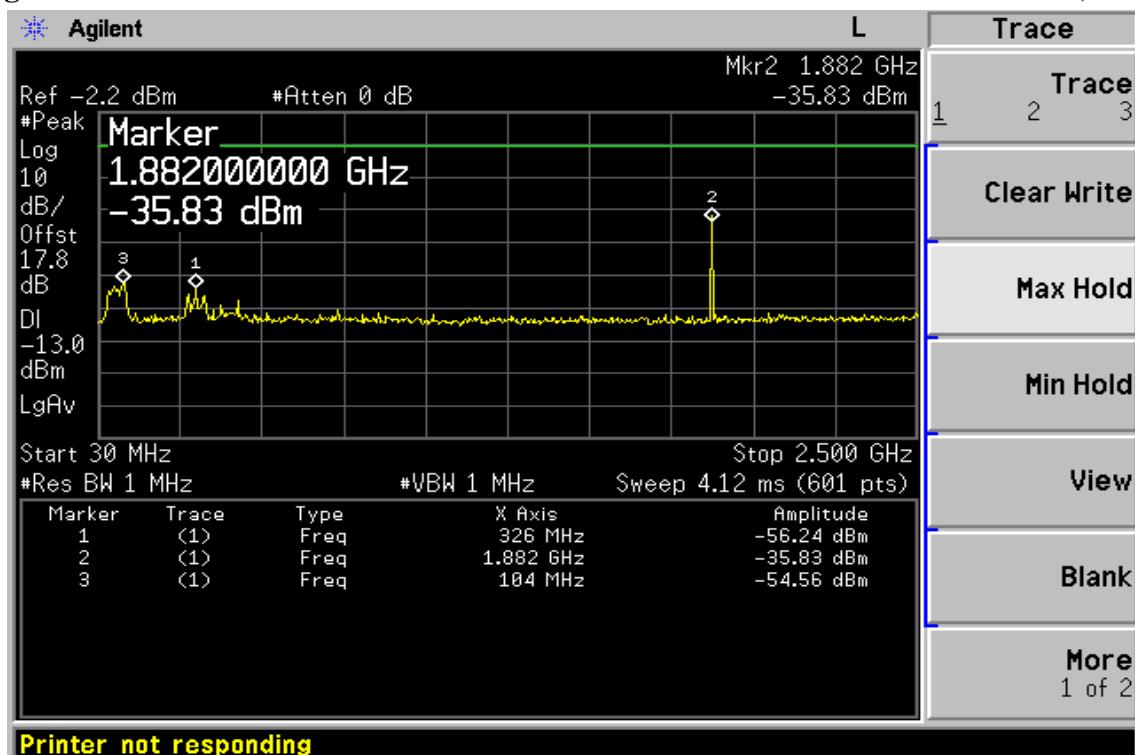
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Figure 8-6: Out of Band emission at antenna terminals—PCS 1900 Channel Lowest (Ant. 1)



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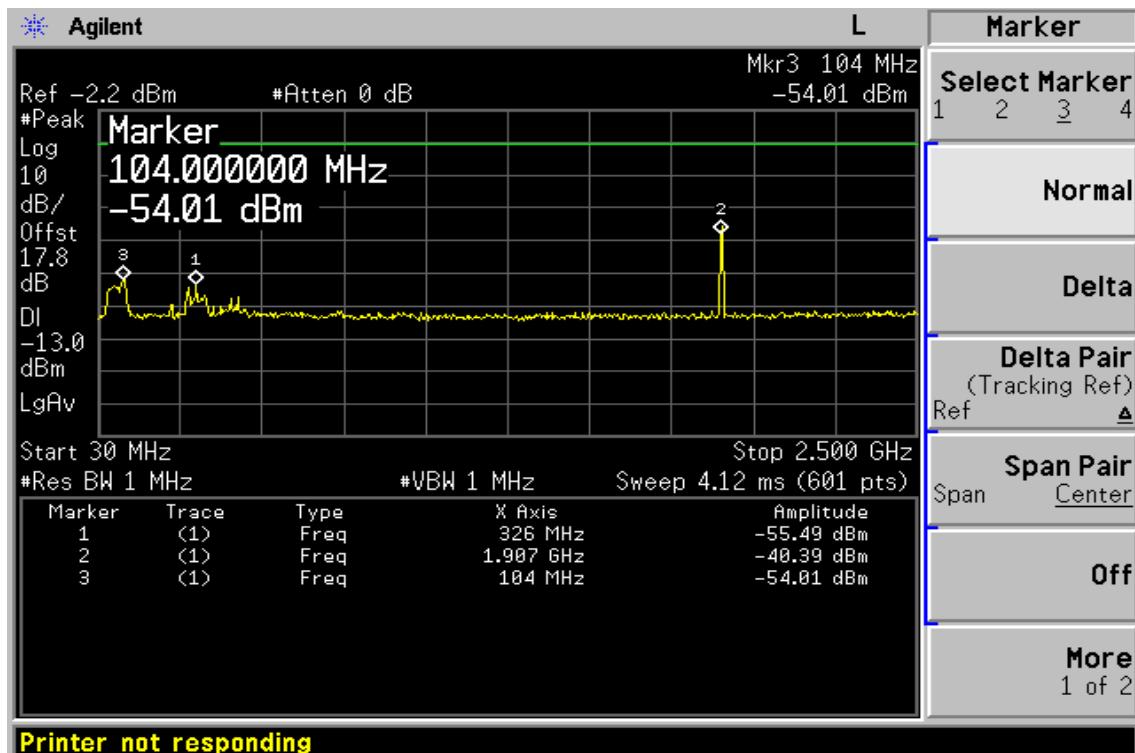
Figure 8-7: Out of Band emission at antenna terminals –PCS 1900 Channel Mid (Ant. 1)



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Figure 8-8: Out of Band emission at antenna terminals—PCS 1900 Channel Highest (Ant. 1)



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Figure 8-9: Bad edge emission at antenna terminals –PCS 1900 Channel Lowest (Ant. 1)

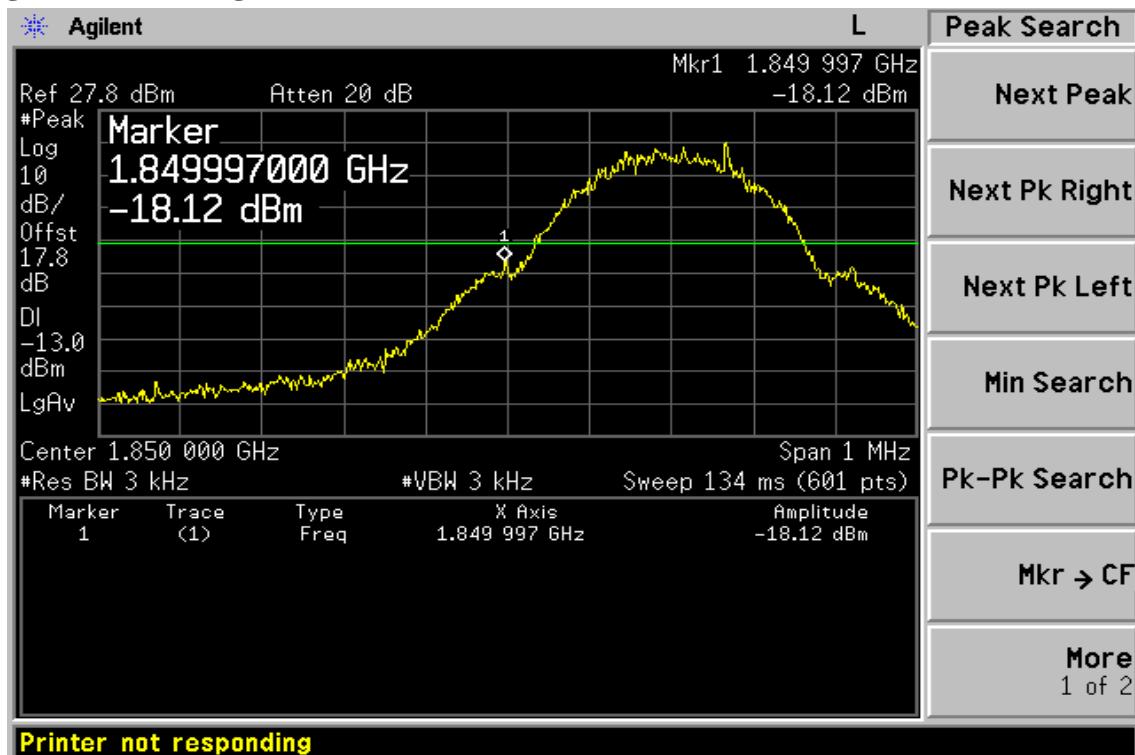
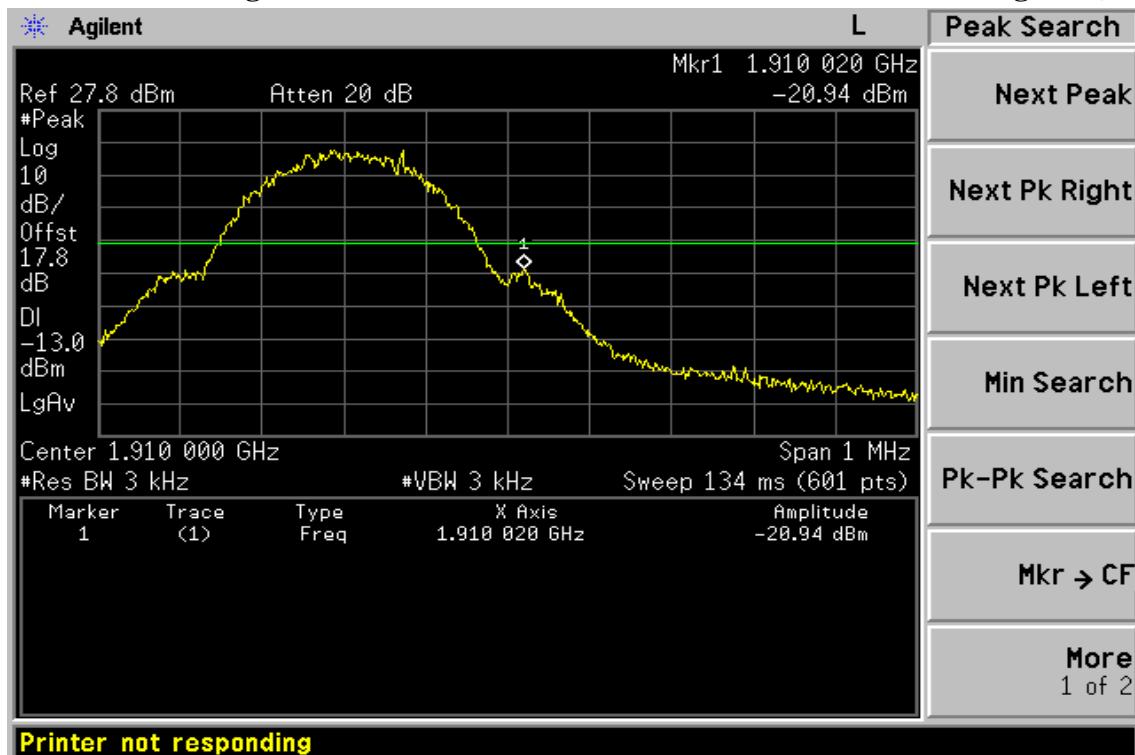


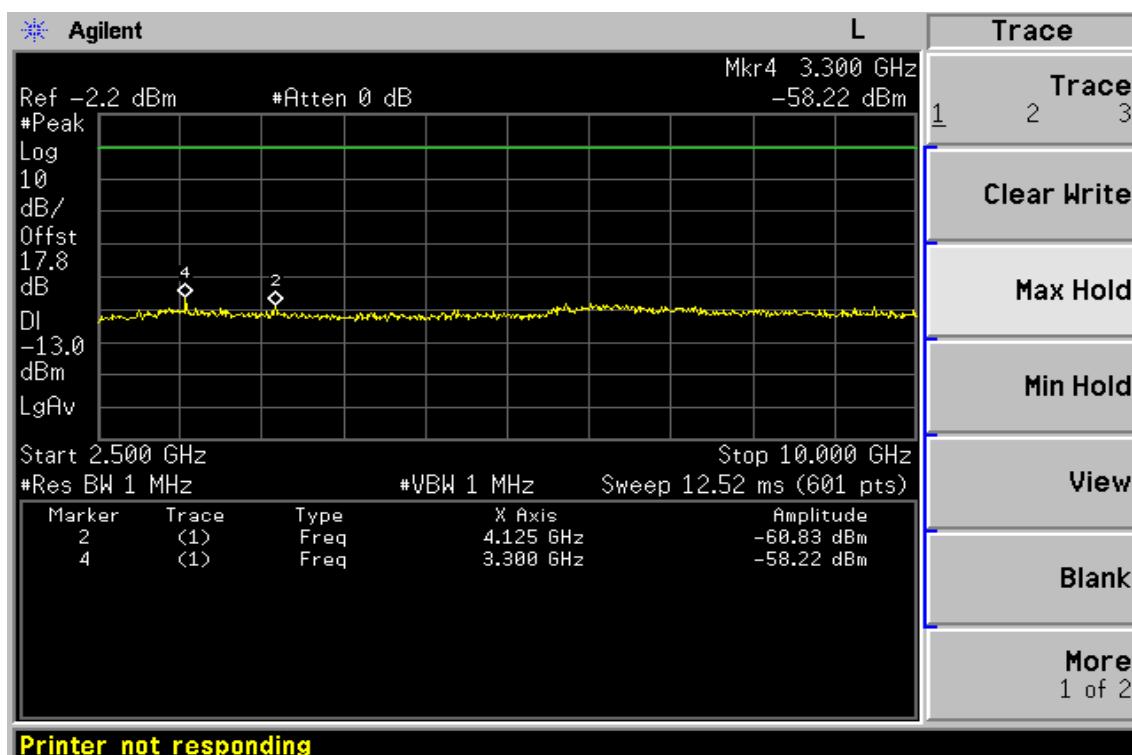
Figure 8-10: Band edge emission at antenna terminals –PCS 1900 Channel Highest (Ant. 1)



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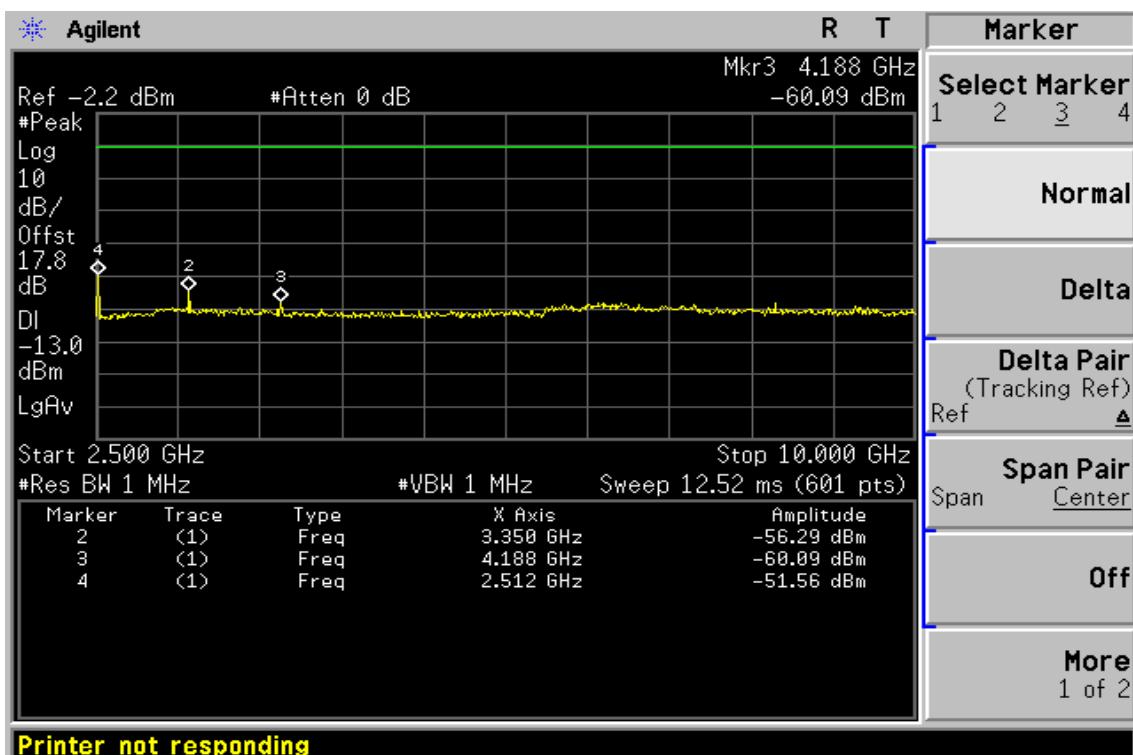
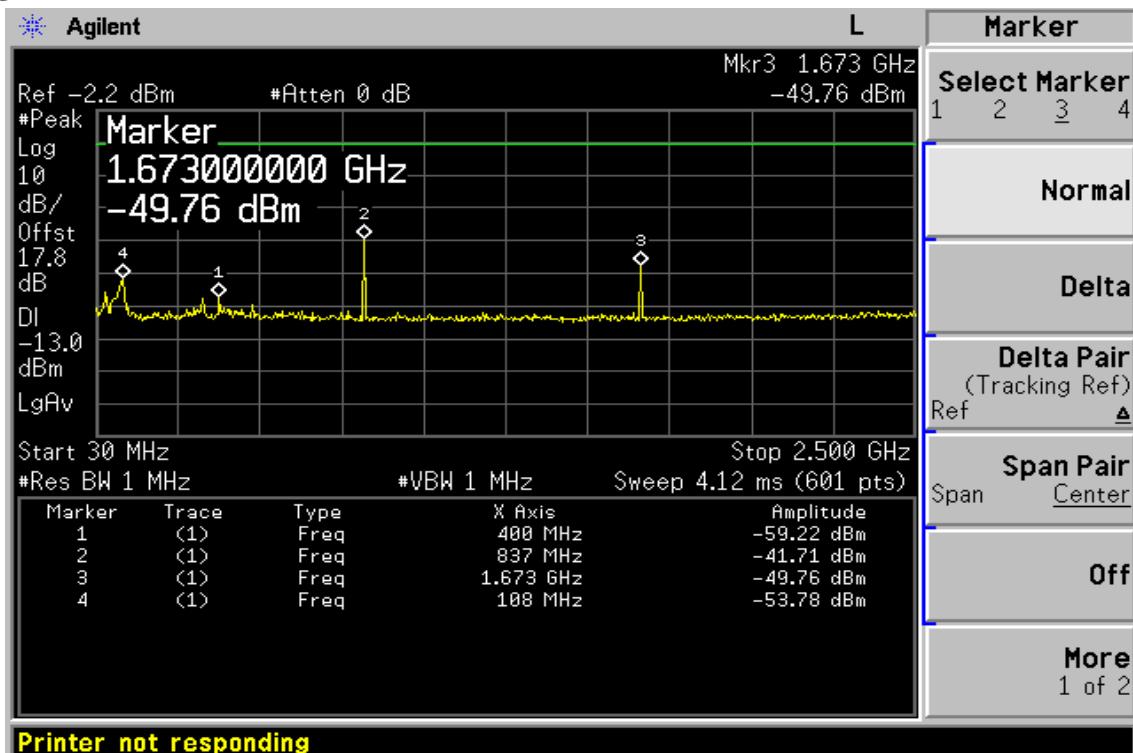
Figure 8-11: Out of Band emission at antenna terminals—GSM 850 Channel Lowest (Ant. 2)



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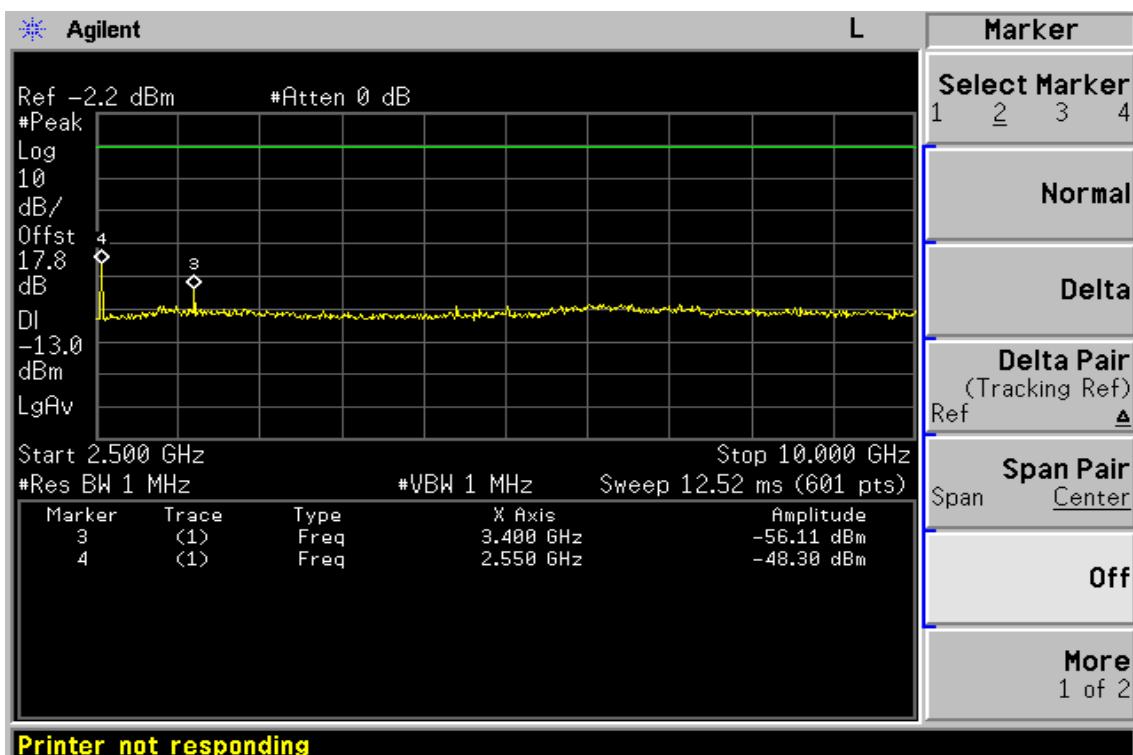
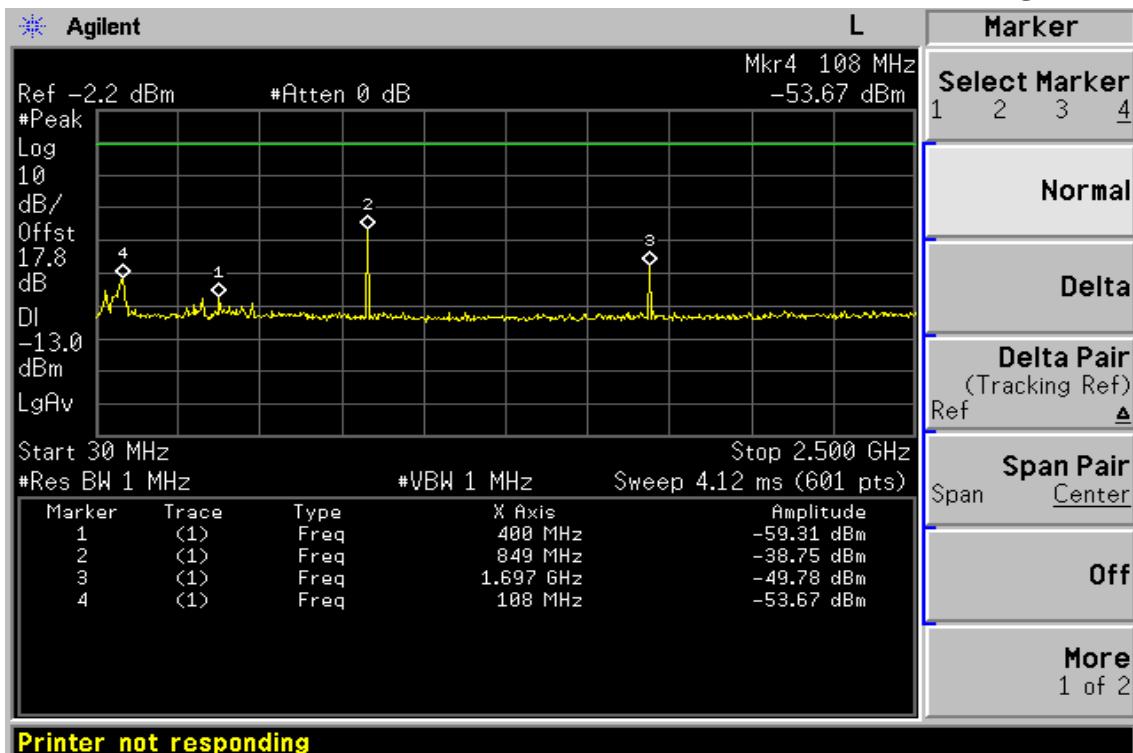
Figure 8-12: Out of Band emission at antenna terminals –GSM 850 Channel Mid (Ant. 2)



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Figure 8-13: Out of Band emission at antenna terminals—GSM 850 Channel Highest (Ant. 2)



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Figure 8-14: Band edge emission at antenna terminals –GSM 850 Channel Lowest (Ant. 2)

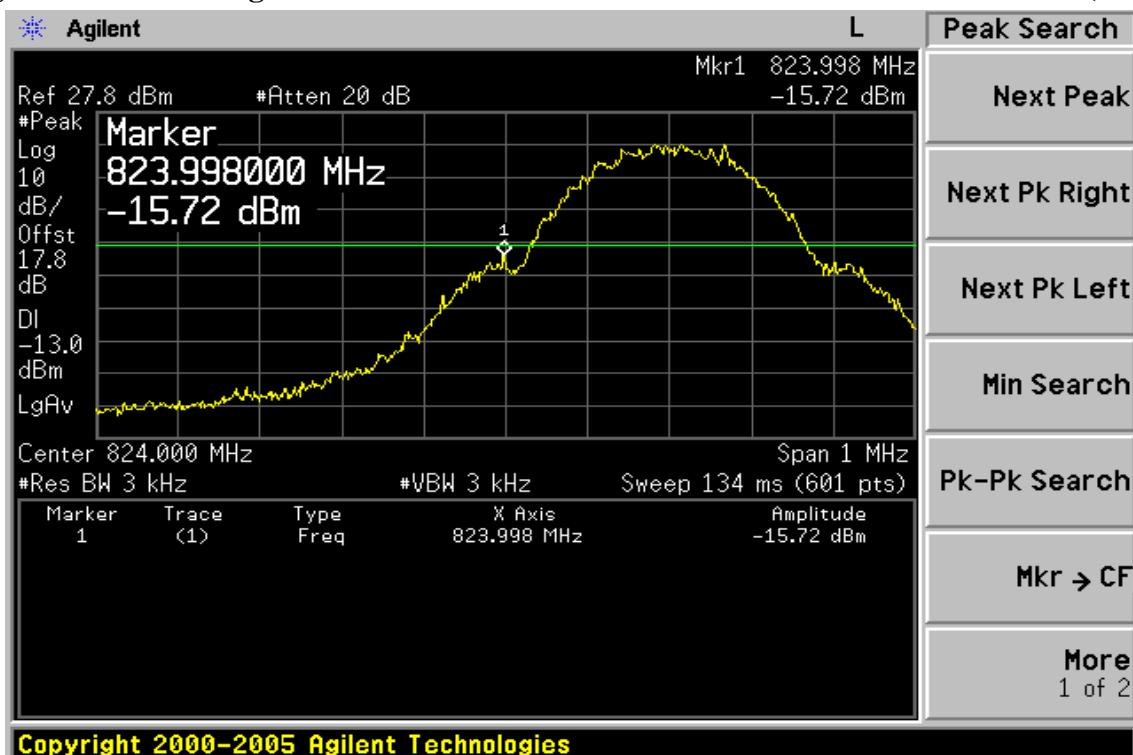
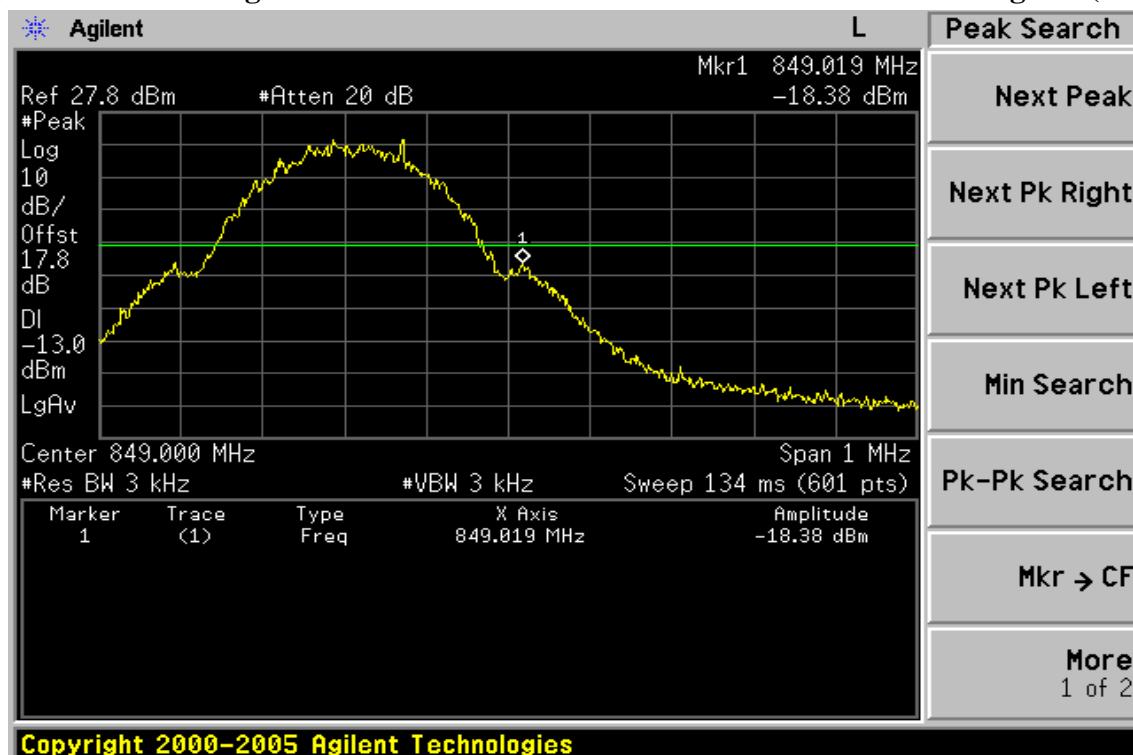


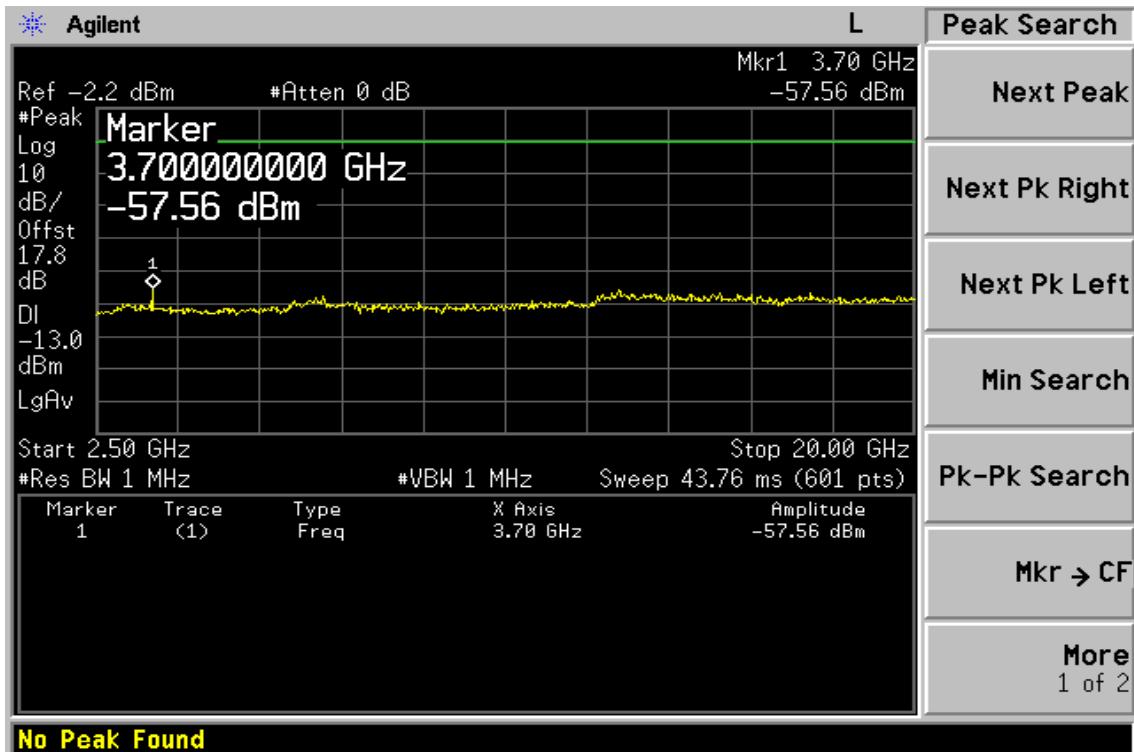
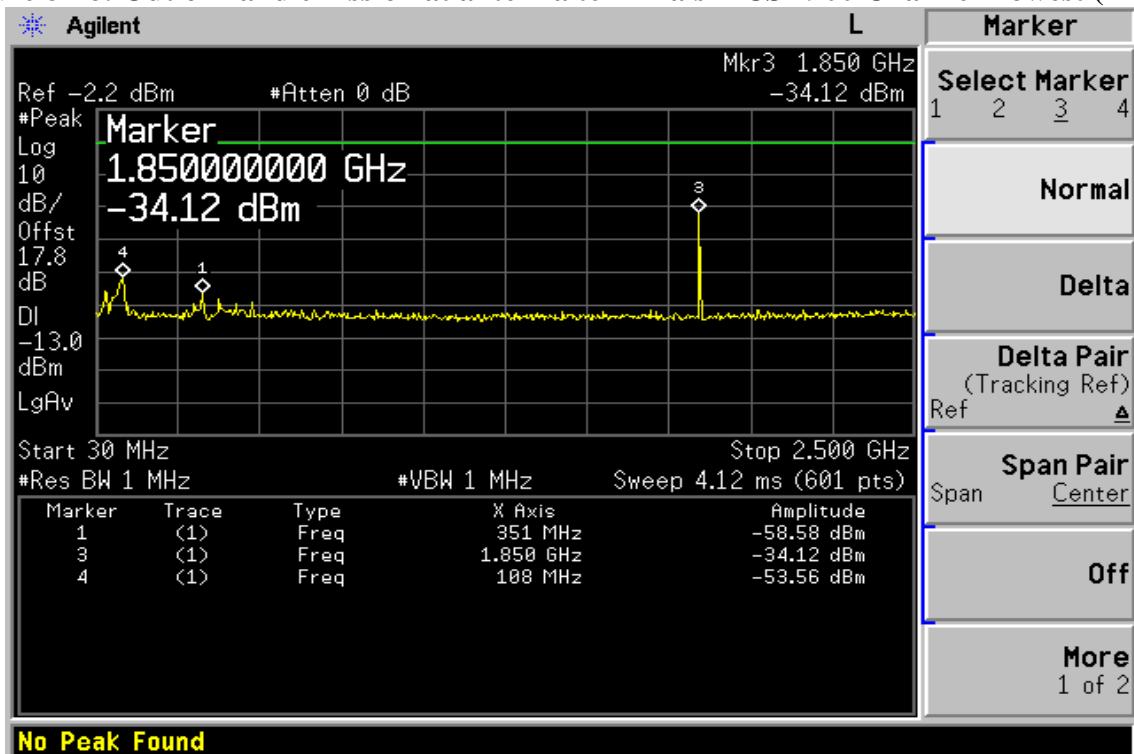
Figure 8-15: Band edge emission at antenna terminals –GSM 850 Channel Highest (Ant. 2)



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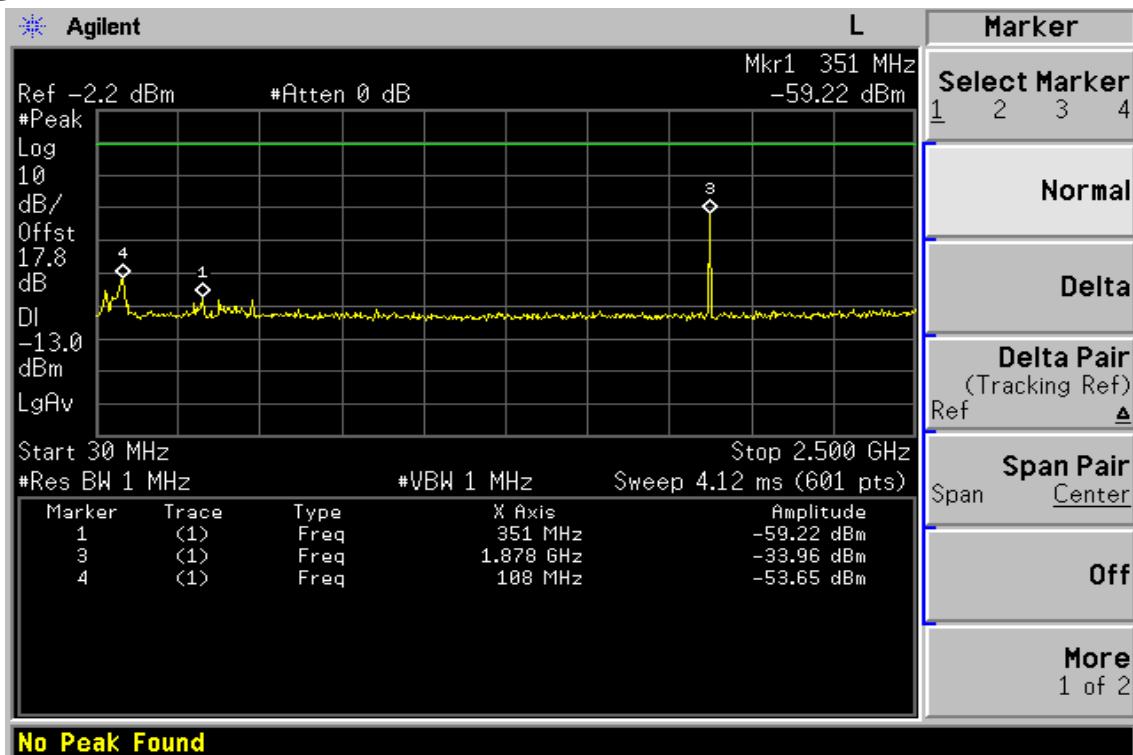
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Figure 8-16: Out of Band emission at antenna terminals—PCS 1900 Channel Lowest (Ant. 2)



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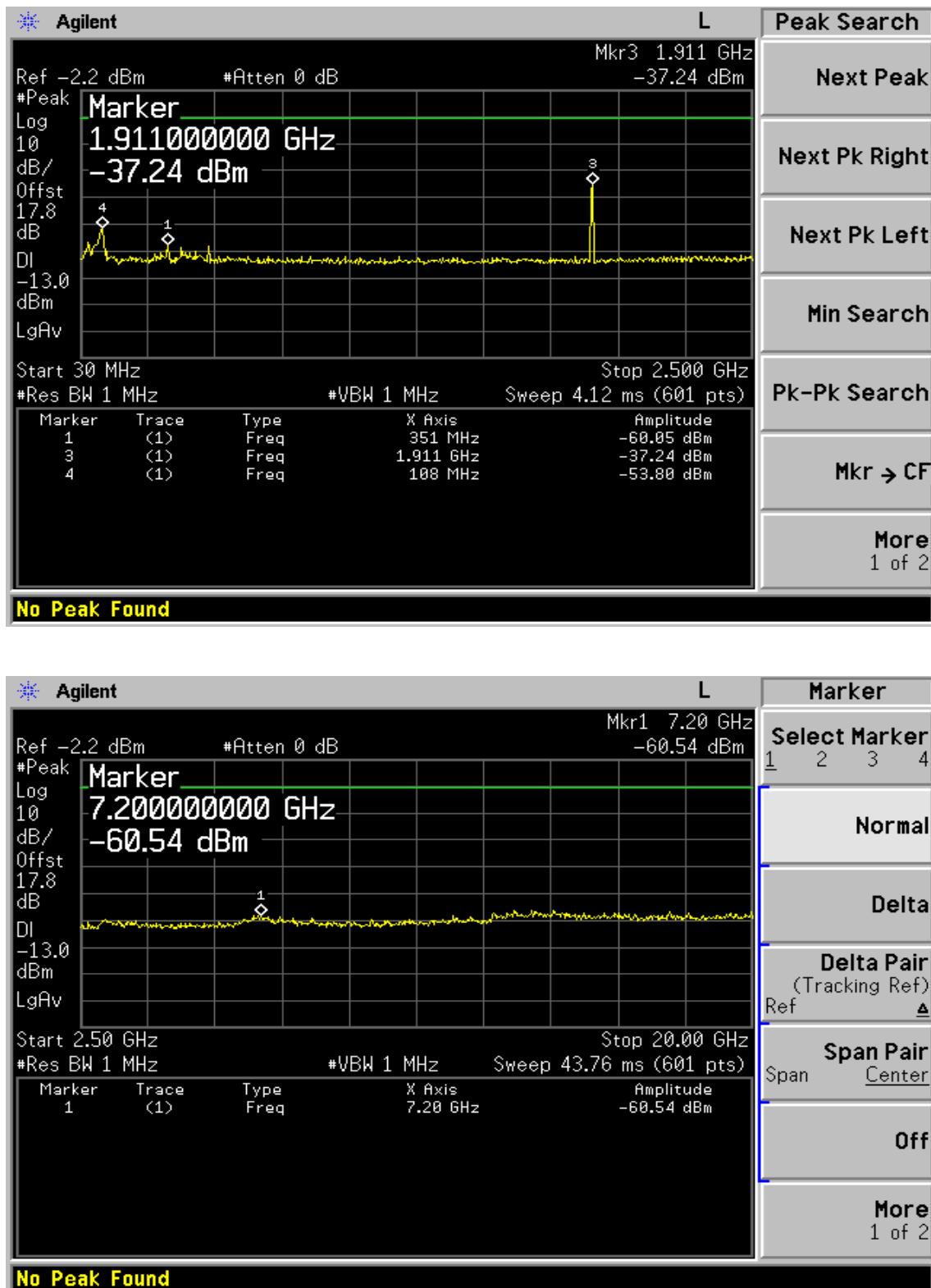
Figure 8-17: Out of Band emission at antenna terminals –PCS 1900 Channel Mid (Ant. 2)



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Figure 8-18: Out of Band emission at antenna terminals—PCS 1900 Channel Highest (Ant. 2)



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Figure 8-19: Bad edge emission at antenna terminals –PCS 1900 Channel Lowest (Ant. 2)

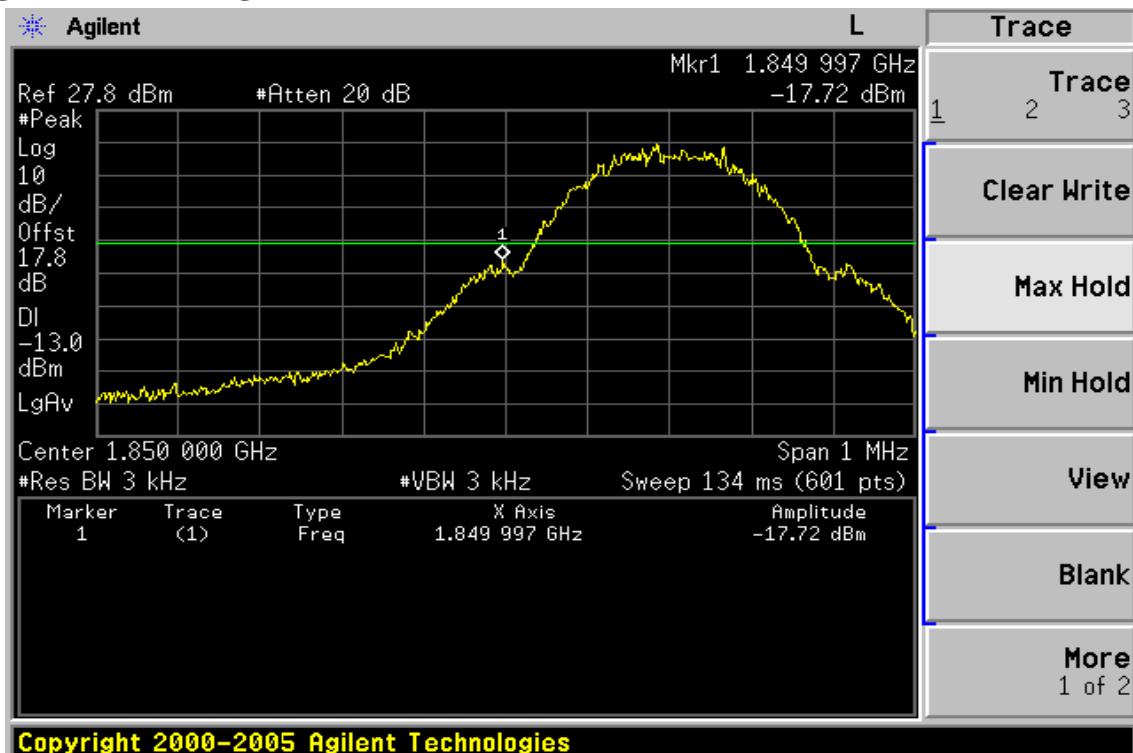


Figure 8-20: Band edge emission at antenna terminals –PCS 1900 Channel Highest (Ant. 2)



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

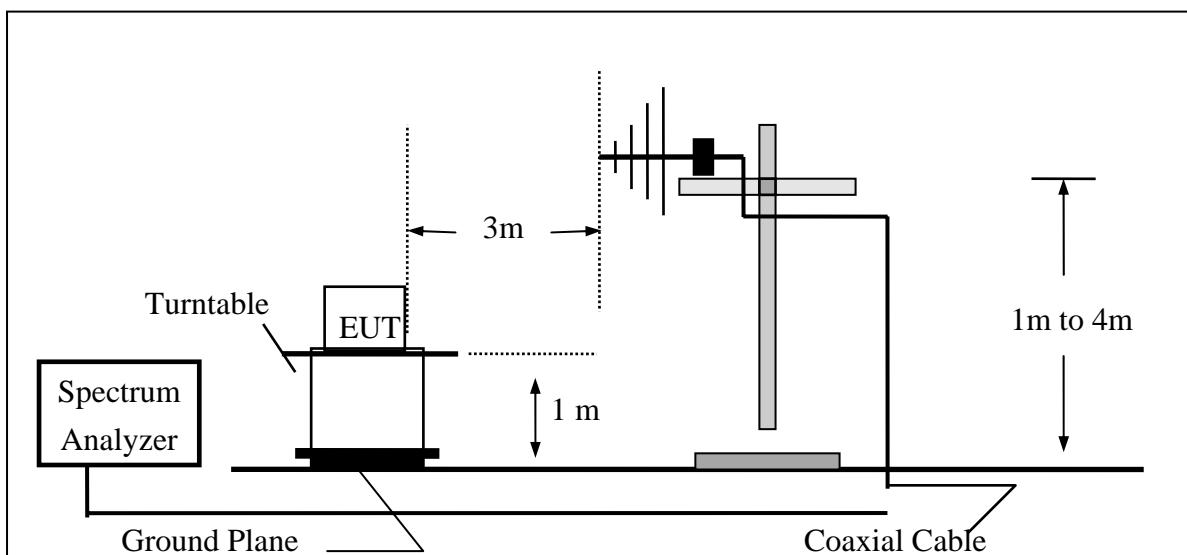
9.1 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), 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)

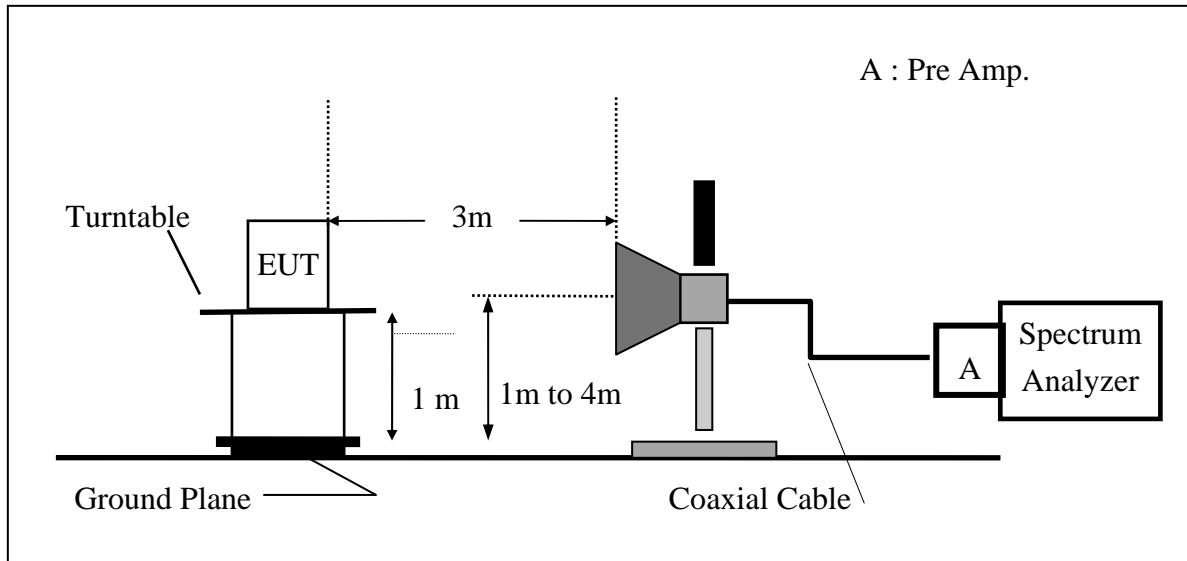
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



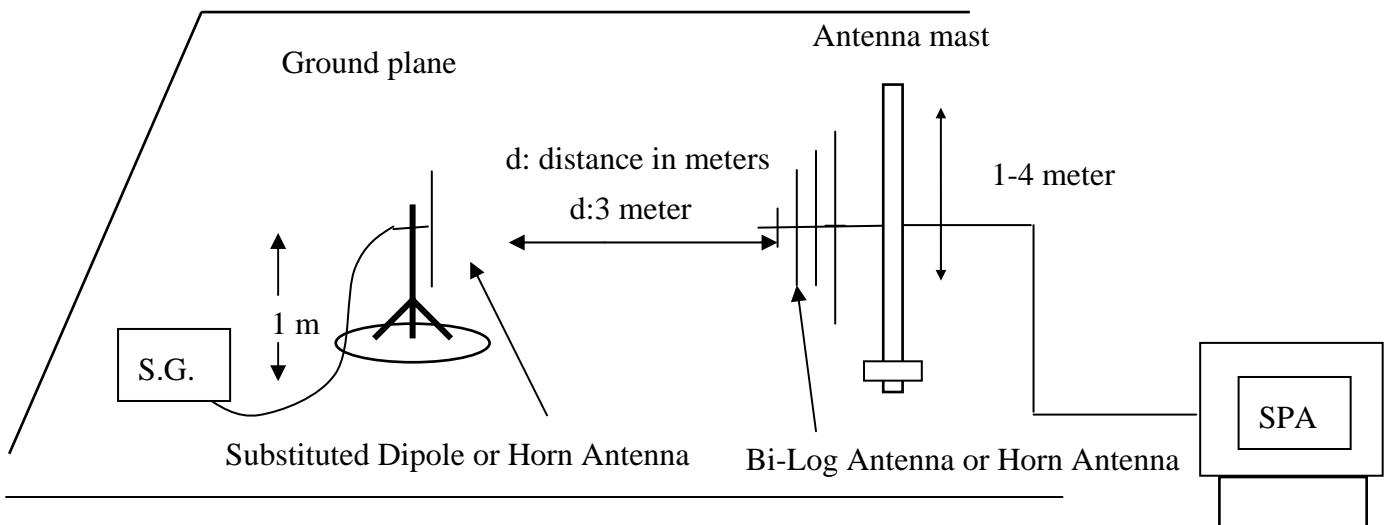
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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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.

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

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

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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	04/19/2008	04/18/2009
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	11/17/2007	11/16/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	04/11/2007	04/10/2009
Pre-Amplifier	HP	8447F	3113A06892	01/04/2008	01/03/2009
Pre-Amplifier	HP	8494B	3008A00578	01/04/2008	01/03/2009
Signal Generator	R&S	SMR40	100210	01/22/2008	01/21/2009
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	02/13/2008	02/12/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	02/13/2008	02/12/2009
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	02/13/2008	02/12/2009
Site NSA	SGS	966 chamber	N/A	11/17/2007	11/16/2008
Attenuator	Mini-Circult	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	SCHWAZBECK	VHAP	908/909	06/09/2007	06/10/2009
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/09/2007	06/10/2009

9.5 Measurement Result

Refer to attach tabular data sheets.

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Radiated Spurious Emission Measurement Result: GSM 850 Mode, Antenna 1 + Antenna 2

Operation Mode	: TX CH Low H Mode	Test Date:	Jun. 12, 2008
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 Out-put (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
58.13	59.58	V	-50.92	-0.49	0.94	-52.34	-13.00	-39.34
499.48	53.59	V	-41.02	-7.72	2.73	-51.47	-13.00	-38.47
824.00	64.75	V	-22.58	-7.87	3.64	-34.10	-13.00	-21.10
1648.40	36.00	V	-71.04	9.29	5.06	-66.81	-13.00	-53.81
2472.60	---	V		10.08	6.30		-13.00	
3296.80	---	V		12.17	7.26		-13.00	
4121.00	---	V		12.61	8.33		-13.00	
4945.20	---	V		12.65	9.19		-13.00	
5769.40	---	V		13.55	9.80		-13.00	
6593.60	---	V		12.05	10.61		-13.00	
7417.80	---	V		11.49	11.28		-13.00	
8242.00	---	V		11.48	12.26		-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: GSM 850 Mode, Antenna 1 + Antenna 2

Operation Mode	: TX CH Low H Mode	Test Date:	Jun. 12, 2008
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)
58.13	64.01	H	-46.42	-0.49	0.94	-47.85	-13.00	-34.85
499.48	58.40	H	-35.51	-7.72	2.73	-45.95	-13.00	-32.95
824.00	71.71	H	-15.95	-7.87	3.64	-27.47	-13.00	-14.47
1648.40	38.35	H	-68.66	9.29	5.06	-64.43	-13.00	-51.43
2472.60	---	H		10.08	6.30		-13.00	
3296.80	---	H		12.17	7.26		-13.00	
4121.00	---	H		12.61	8.33		-13.00	
4945.20	---	H		12.65	9.19		-13.00	
5769.40	---	H		13.55	9.80		-13.00	
6593.60	---	H		12.05	10.61		-13.00	
7417.80	---	H		11.49	11.28		-13.00	
8242.00	---	H		11.48	12.26		-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: GSM 850 Mode, Antenna 1 + Antenna 2

Operation Mode : TX CH Mid H Mode Test Date: Jun. 12, 2008
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)
58.13	60.02	V	-50.48	-0.49	0.94	-51.90	-13.00	-38.90
499.48	55.39	V	-39.22	-7.72	2.73	-49.67	-13.00	-36.67
625.58	43.05	V	-47.41	-7.80	2.97	-58.18	-13.00	-45.18
1673.20	36.54	V	-70.49	9.36	5.10	-66.23	-13.00	-53.23
2509.80	36.84	V	-67.04	10.09	6.35	-63.30	-13.00	-50.30
3346.40	---	V		12.28	7.29		-13.00	
4183.00	---	V		12.62	8.40		-13.00	
5019.60	---	V		12.67	9.26		-13.00	
5856.20	---	V		13.68	9.85		-13.00	
6692.80	---	V		11.95	10.74		-13.00	
7529.40	---	V		11.45	11.35		-13.00	
8366.00	---	V		11.59	12.43		-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 $ERP/EIRP (dBm) = SG\ Setting(dBm) + Antenna\ Gain\ (dB/dBi) - Cable\ loss\ (dB)$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode, Antenna 1 + Antenna 2

Operation Mode : TX CH Mid H Mode Test Date: Jun. 12, 2008
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)
58.13	63.27	H	-47.16	-0.49	0.94	-48.59	-13.00	-35.59
300.63	55.06	H	-44.52	-7.92	1.99	-54.43	-13.00	-41.43
499.48	57.73	H	-36.18	-7.72	2.73	-46.62	-13.00	-33.62
1673.20	46.51	H	-60.49	9.36	5.10	-56.22	-13.00	-43.22
2509.80	45.26	H	-58.61	10.09	6.35	-54.87	-13.00	-41.87
3346.40	---	H		12.28	7.29		-13.00	
4183.00	---	H		12.62	8.40		-13.00	
5019.60	---	H		12.67	9.26		-13.00	
5856.20	---	H		13.68	9.85		-13.00	
6692.80	---	H		11.95	10.74		-13.00	
7529.40	---	H		11.45	11.35		-13.00	
8366.00	---	H		11.59	12.43		-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: GSM 850 Mode, Antenna 1 + Antenna 2

Operation Mode : TX CH High H Mode

Test Date: Jun. 12, 2008

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)
61.04	60.23	V	-51.12	-0.52	0.95	-52.60	-13.00	-39.60
499.48	54.88	V	-39.73	-7.72	2.73	-50.18	-13.00	-37.18
850.00	65.47	V	-21.24	-7.88	3.75	-32.87	-13.00	-19.87
1697.60	35.80	V	-71.22	9.44	5.14	-66.93	-13.00	-53.93
2546.40	---	V		10.20	6.40		-13.00	
3395.20	---	V		12.38	7.33		-13.00	
4244.00	---	V		12.63	8.46		-13.00	
5092.80	---	V		12.74	9.32		-13.00	
5941.60	---	V		13.81	9.89		-13.00	
6790.40	---	V		11.86	10.87		-13.00	
7639.20	---	V		11.40	11.48		-13.00	
8488.00	---	V		11.70	12.59		-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: GSM 850 Mode, Antenna 1 + Antenna 2

Operation Mode : TX CH High H Mode Test Date: Jun. 12, 2008
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)
58.13	64.32	H	-46.11	-0.49	0.94	-47.54	-13.00	-34.54
499.48	58.05	H	-35.86	-7.72	2.73	-46.30	-13.00	-33.30
850.00	73.29	H	-13.70	-7.88	3.75	-25.33	-13.00	-12.33
1697.60	36.29	H	-70.69	9.44	5.14	-66.40	-13.00	-53.40
2546.40	---	H		10.20	6.40		-13.00	
3395.20	---	H		12.38	7.33		-13.00	
4244.00	---	H		12.63	8.46		-13.00	
5092.80	---	H		12.74	9.32		-13.00	
5941.60	---	H		13.81	9.89		-13.00	
6790.40	---	H		11.86	10.87		-13.00	
7639.20	---	H		11.40	11.48		-13.00	
8488.00	---	H		11.70	12.59		-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, Antenna 1 + Antenna 2

Operation Mode : TX CH Low H Mode Test Date: Jun. 12, 2008
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 Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
61.04	61.19	V	-50.16	-0.52	0.95	-51.64	-13.00	-38.64
499.48	56.13	V	-38.48	-7.72	2.73	-48.93	-13.00	-35.93
1850.00	72.74	V	-34.22	9.90	5.41	-29.73	-13.00	-16.73
3700.40	35.85	V	-65.73	12.61	7.73	-60.85	-13.00	-47.85
5550.60	---	V		13.23	9.68		-13.00	
7400.80	---	V		11.50	11.28		-13.00	
9251.00	---	V		11.92	13.10		-13.00	
11101.20	---	V		11.66	14.33		-13.00	
12951.40	---	V		13.63	15.98		-13.00	
14801.60	---	V		12.76	17.27		-13.00	
16651.80	---	V		15.92	19.04		-13.00	
18502.00	---	V		18.75	21.21		-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, Antenna 1 + Antenna 2

Operation Mode : TX CH Low H Mode Test Date: Jun. 12, 2008
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 Output (dBm)	Antenna Gain (dB/dBi)	Cable Loss (dB)	ERP/ EIRP (dBm)	Limit (dBm)	Safe Margin (dBm)
58.13	63.24	H	-47.19	-0.49	0.94	-48.62	-13.00	-35.62
499.48	56.67	H	-37.24	-7.72	2.73	-47.68	-13.00	-34.68
1850.00	64.76	H	-42.13	9.90	5.41	-37.64	-13.00	-24.64
3700.40	34.66	H	-66.70	12.61	7.73	-61.82	-13.00	-48.82
5550.60	---	H		13.23	9.68		-13.00	
7400.80	---	H		11.50	11.28		-13.00	
9251.00	---	H		11.92	13.10		-13.00	
11101.20	---	H		11.66	14.33		-13.00	
12951.40	---	H		13.63	15.98		-13.00	
14801.60	---	H		12.76	17.27		-13.00	
16651.80	---	H		15.92	19.04		-13.00	
18502.00	---	H		18.75	21.21		-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, Antenna 1 + Antenna 2

Operation Mode : TX CH Mid H Mode Test Date: Jun. 12, 2008
Fundamental Frequency : 1880MHz 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)
58.13	61.93	V	-48.57	-0.49	0.94	-49.99	-13.00	-36.99
499.48	57.02	V	-37.59	-7.72	2.73	-48.04	-13.00	-35.04
3760.00	36.59	V	-64.71	12.60	7.82	-59.93	-13.00	-46.93
5640.00	---	V		13.36	9.73		-13.00	
7520.00	---	V		11.45	11.33		-13.00	
9400.00	---	V		11.93	13.15		-13.00	
11280.00	---	V		11.92	14.56		-13.00	
13160.00	---	V		13.33	16.11		-13.00	
15040.00	---	V		13.76	17.57		-13.00	
16920.00	---	V		15.27	19.66		-13.00	
18800.00	---	V		18.68	21.34		-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, Antenna 1 + Antenna 2

Operation Mode : TX CH Mid H Mode Test Date: Jun. 12, 2008
Fundamental Frequency : 1880MHz 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)
58.13	64.12	H	-46.31	-0.49	0.94	-47.74	-13.00	-34.74
499.48	57.23	H	-36.68	-7.72	2.73	-47.12	-13.00	-34.12
625.58	48.03	H	-42.94	-7.80	2.97	-53.71	-13.00	-40.71
3760.00	35.88	H	-65.23	12.60	7.82	-60.44	-13.00	-47.44
5640.00	---	H		13.36	9.73		-13.00	
7520.00	---	H		11.45	11.33		-13.00	
9400.00	---	H		11.93	13.15		-13.00	
11280.00	---	H		11.92	14.56		-13.00	
13160.00	---	H		13.33	16.11		-13.00	
15040.00	---	H		13.76	17.57		-13.00	
16920.00	---	H		15.27	19.66		-13.00	
18800.00	---	H		18.68	21.34		-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, Antenna 1 + Antenna 2

Operation Mode : TX CH High H Mode Test Date: Jun. 12, 2008
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)
58.13	60.73	V	-49.77	-0.49	0.94	-51.19	-13.00	-38.19
499.48	56.52	V	-38.09	-7.72	2.73	-48.54	-13.00	-35.54
1910.00	68.58	V	-38.36	10.08	5.51	-33.79	-13.00	-20.79
3981.60	40.21	V	-60.07	12.60	8.17	-55.65	-13.00	-42.65
5972.40	---	V		13.86	9.91		-13.00	
7963.20	---	V		11.27	11.88		-13.00	
9954.00	---	V		12.08	13.43		-13.00	
11944.80	---	V		13.08	15.21		-13.00	
13935.60	---	V		11.82	16.86		-13.00	
15926.40	---	V		17.08	18.33		-13.00	
17917.20	---	V		9.63	20.12		-13.00	
19908.00	---	V		18.88	20.85		-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, Antenna 1 + Antenna 2

Operation Mode : TX CH High H Mode Test Date: Jun. 12, 2008
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)
58.13	64.09	H	-46.34	-0.49	0.94	-47.77	-13.00	-34.77
499.48	56.62	H	-37.29	-7.72	2.73	-47.73	-13.00	-34.73
1910.00	69.23	H	-37.62	10.08	5.51	-33.06	-13.00	-20.06
3981.60	35.22	H	-64.96	12.60	8.17	-60.53	-13.00	-47.53
5972.40	---	H		13.86	9.91		-13.00	
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	
17917.20	---	H		9.63	20.12		-13.00	
19908.00	---	H		18.88	20.85		-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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10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

10.1 Standard Applicable

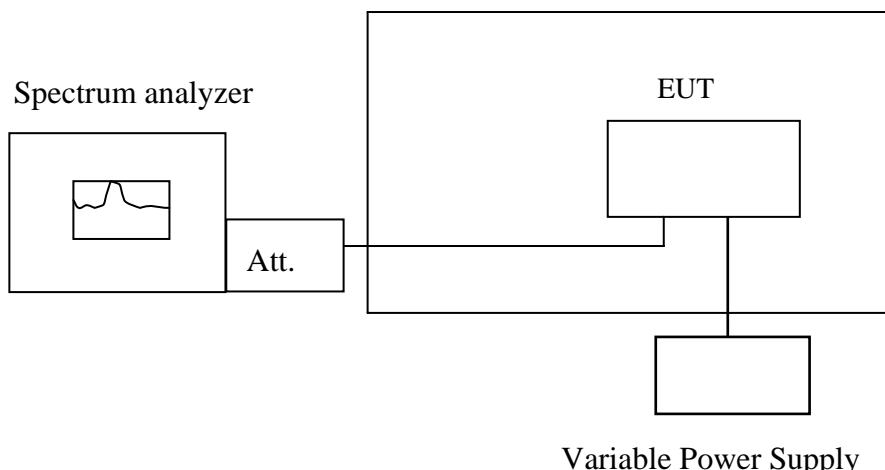
According to FCC §2.1055(d)(1)(2)

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

+/-2.5 ppm for 1900MHz band

10.2 Test Set-up:

Temperature Chamber



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.

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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	04/19/2008	04/18/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
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	04/14/2008	04/13/2010
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	07/05/2007	07/04/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008

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10.5 Measurement Result

Antenna 1

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)		
12	-30	836.600010	-5.00	2091.00
12	-20	836.600004	1.00	2091.00
12	-10	836.600002	3.00	2091.00
12	0	836.600003	2.00	2091.00
12	10	836.600007	-2.00	2091.00
12	20	836.600005	0.00	2091.00
12	30	836.600003	2.00	2091.00
12	40	836.600004	1.00	2091.00
12	50	836.600001	4.00	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)		
12	-30	1880.000009	-3.00	4700.00
12	-20	1880.000010	-4.00	4700.00
12	-10	1880.000012	-6.00	4700.00
12	0	1880.000009	-3.00	4700.00
12	10	1880.000001	5.00	4700.00
12	20	1880.000006	0.00	4700.00
12	30	1879.999998	8.00	4700.00
12	40	1879.999996	10.00	4700.00
12	50	1879.999997	9.00	4700.00

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Antenna 2

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)		
12	-30	836.600003	7.00	2091.00
12	-20	836.600004	6.00	2091.00
12	-10	836.600005	5.00	2091.00
12	0	836.600003	7.00	2091.00
12	10	836.600001	9.00	2091.00
12	20	836.600010	0.00	2091.00
12	30	836.599998	12.00	2091.00
12	40	836.599997	13.00	2091.00
12	50	836.599995	15.00	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)		
12	-30	1880.000012	-10.00	4700.00
12	-20	1880.000011	-9.00	4700.00
12	-10	1880.000003	-1.00	4700.00
12	0	1880.000007	-5.00	4700.00
12	10	1880.000001	1.00	4700.00
12	20	1880.000002	0.00	4700.00
12	30	1879.999998	4.00	4700.00
12	40	1879.999998	4.00	4700.00
12	50	1879.999996	6.00	4700.00

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11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

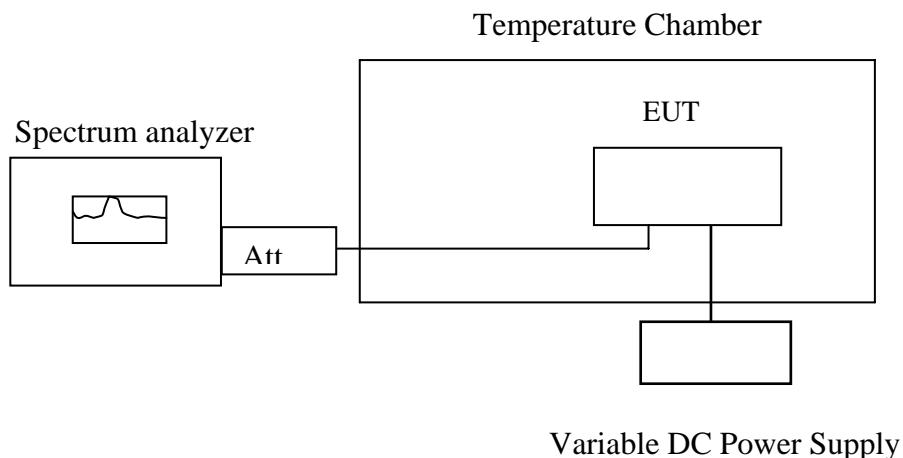
11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

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

+/-2.5 ppm for 1900MHz band

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	04/19/2008	04/18/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2007	07/03/2008
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	04/14/2008	04/13/2010
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	07/05/2007	07/04/2008
DC Power Supply	Agilent	6038A	2929A-07548	06/27/2007	06/26/2008

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11.5 Measurement Result

Antenna 1

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)		
13.80	25.00	836.600011	-2.00	2091.00
12.00	25.00	836.600009	0.00	2091.00
10.20	25.00	836.600003	6.00	2091.00
9.00 (End Point)	25.00	836.600008	1.00	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)		
13.80	25	1880.000010	-11.00	4700.00
12.00	25	1879.999999	0.00	4700.00
10.20	25	1880.000007	-8.00	4700.00
9.0 (Endpoint)	25	1880.000011	-12.00	4700.00

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Antenna 2

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)		
13.80	25.00	836.600010	-8.00	2091.00
12.00	25.00	836.600002	0.00	2091.00
10.20	25.00	836.599999	3.00	2091.00
9.00 (End Point)	25.00	836.599998	4.00	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)		
13.80	25	1880.000010	-11.00	4700.00
12.00	25	1879.999999	0.00	4700.00
10.20	25	1879.999991	8.00	4700.00
9.0 (Endpoint)	25	1879.999989	10.00	4700.00

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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 C63.4-2003.
2. The EUT was plug-in DC power adaptort 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.

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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	06/09/2008	06/10/2009
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
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	01/11/2008	01/10/2009
Coaxial Cables	N/A	N/A	CE01	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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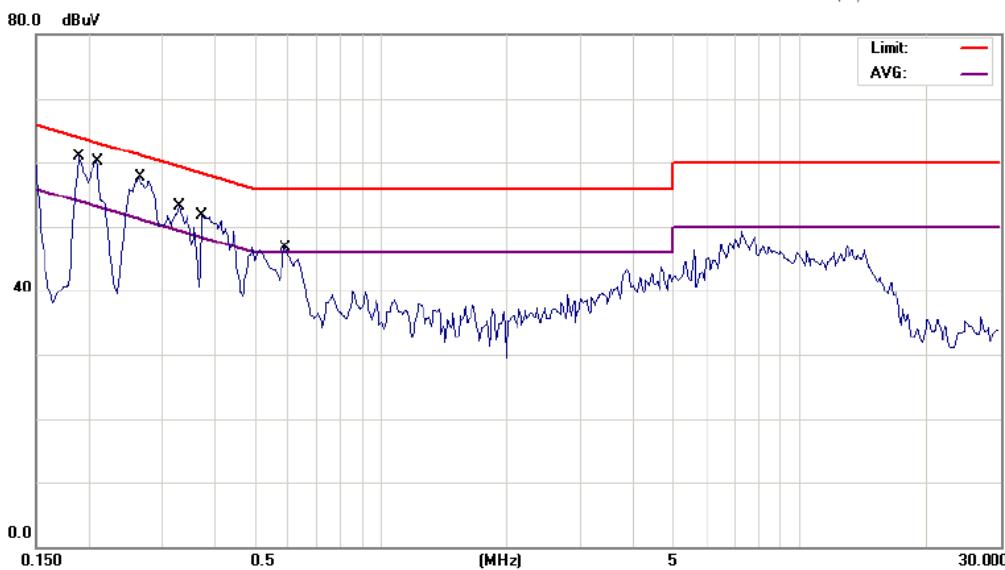
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK (Antenna 1 + Antenna 2)		Test Date:	Jun. 13, 2008
Temperature:	26 °C	Humidity:	58 %	Test By: Jazz

Conducted Emission Measurement

File:ER-2008-60007-08 Data #4 Date: 2008/06/13 Time: 下午 02:02:44



Site SGS CONDUCTED #1 Phase: **L1** Temperature: 26 °C
Limit: CISPR22/11 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 58 %
EUT: 1/2/4/8 ports Mobile VoIP Distance: Air Pressure: hpa
M/N: MV-374,MV378
Note: GSM 850 LINK MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.1900	54.50	0.21	54.71	64.04	-9.33	QP
2		0.1900	42.90	0.21	43.11	54.04	-10.93	AVG
3		0.2100	54.00	0.16	54.16	63.21	-9.05	QP
4		0.2100	40.90	0.16	41.06	53.21	-12.15	AVG
5	*	0.2650	52.50	0.14	52.64	61.27	-8.63	QP
6		0.2650	39.50	0.14	39.64	51.27	-11.63	AVG
7		0.3300	49.60	0.11	49.71	59.45	-9.74	QP
8		0.3300	38.50	0.11	38.61	49.45	-10.84	AVG
9		0.3771	48.40	0.10	48.50	58.34	-9.84	QP
10		0.3771	38.50	0.10	38.60	48.34	-9.74	AVG
11		0.5900	43.00	0.06	43.06	56.00	-12.94	QP
12		0.5900	30.50	0.06	30.56	46.00	-15.44	AVG

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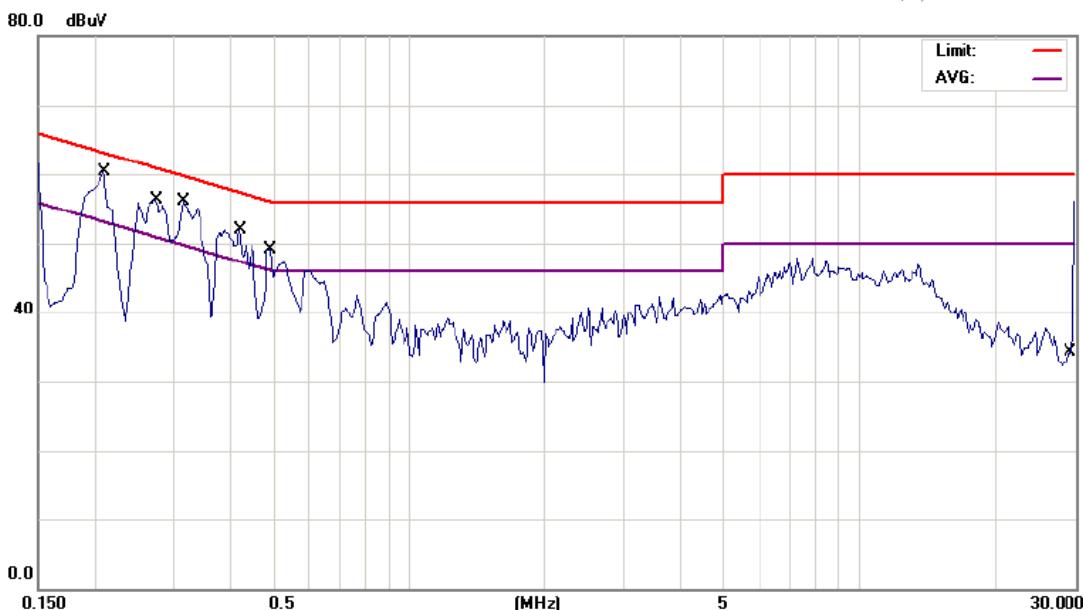
Conducted Emission Measurement

File:ER-2008-60007-08

Data:#3

Date: 2008/06/13

Time: 下午 01:57:55



Site SGS CONDUCTED #1

Phase: **N**

Temperature: 26 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 58 %

EUT: 1/2/4/8 ports Mobile VoIP

Distance:

Air Pressure: hpa

M/N: MV-374,MV378

Note: GSM 850 LINK MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over	
							dB	Detector
1	*	0.2100	55.60	0.14	55.74	63.21	-7.47	QP
2		0.2100	44.70	0.14	44.84	53.21	-8.37	AVG
3		0.2750	52.70	0.12	52.82	60.97	-8.15	QP
4		0.2750	42.10	0.12	42.22	50.97	-8.75	AVG
5		0.3150	49.00	0.11	49.11	59.84	-10.73	QP
6		0.3150	35.60	0.11	35.71	49.84	-14.13	AVG
7		0.4200	45.60	0.07	45.67	57.45	-11.78	QP
8		0.4200	35.60	0.07	35.67	47.45	-11.78	AVG
9		0.4900	43.30	0.05	43.35	56.17	-12.82	QP
10		0.4900	32.50	0.05	32.55	46.17	-13.62	AVG
11		30.0000	40.20	0.24	40.44	60.00	-19.56	QP
12		30.0000	33.80	0.24	34.04	50.00	-15.96	AVG

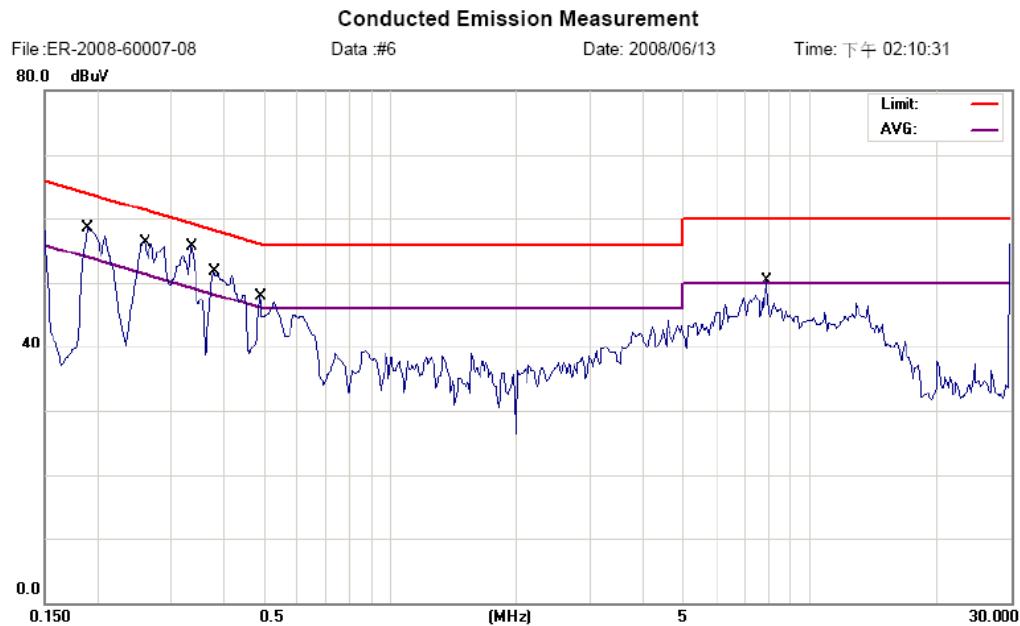
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	PCS 1900 Link (Antenna 1 + Antenna 2)	Test Date:	Jun. 13, 2008
Temperature:	26 °C	Humidity:	58 %



Site SGS CONDUCTED #1 Phase: **L1** Temperature: 26 °C
 Limit: CISPR22/11 Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 58 %
 EUT: 1/2/4/8 ports Mobile VoIP Distance: Air Pressure: hpa
 M/N: MV-374,MV378
 Note: GSM 1900 LINK MODE

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over	
							Detector	Comment
MHz		dBuV		dB	dBuV	dB		
1		0.1900	53.60	0.21	53.81	64.04	-10.23	QP
2		0.1900	43.70	0.21	43.91	54.04	-10.13	AVG
3		0.2600	45.00	0.14	45.14	61.43	-16.29	QP
4		0.2600	31.40	0.14	31.54	51.43	-19.89	AVG
5		0.3350	47.50	0.11	47.61	59.33	-11.72	QP
6		0.3350	33.50	0.11	33.61	49.33	-15.72	AVG
7		0.3800	41.50	0.10	41.60	58.28	-16.68	QP
8		0.3800	35.00	0.10	35.10	48.28	-13.18	AVG
9		0.4900	42.80	0.06	42.86	56.17	-13.31	QP
10		0.4900	29.60	0.06	29.66	46.17	-16.51	AVG
11		7.9200	46.50	0.12	46.62	60.00	-13.38	QP
12	*	7.9200	42.60	0.12	42.72	50.00	-7.28	AVG

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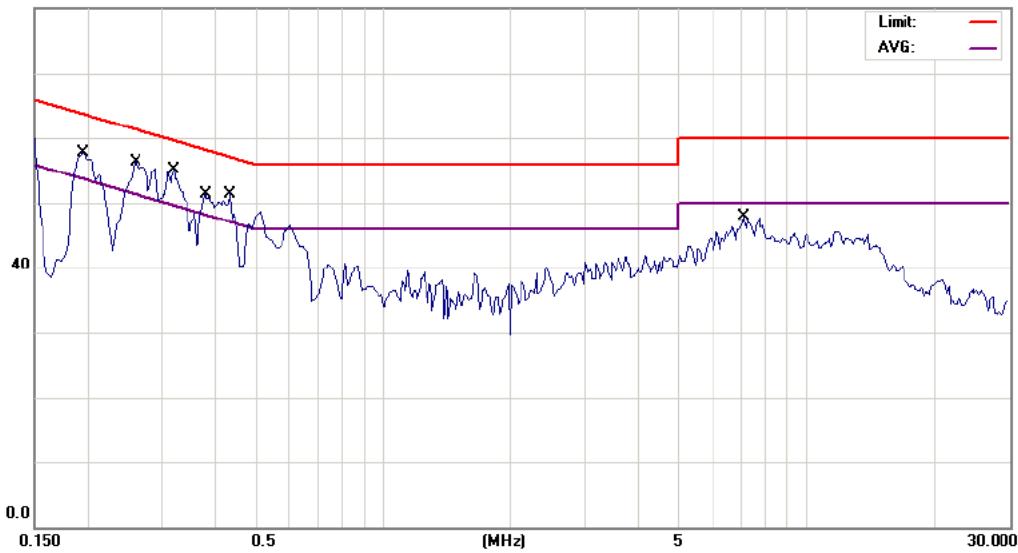
Conducted Emission Measurement

File:ER-2008-60007-08

Data #:7

Date: 2008/06/13

Time: 下午 02:14:21

80.0 dB_uV

Site SGS CONDUCTED #1

Phase: **N**

Temperature: 26 °C

Limit: CISPR22/11 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 58 %

EUT: 1/2/4/8 ports Mobile VoIP

Distance:

Air Pressure: hpa

M/N: MV-374,MV378

Note: GSM 1900 LINK MODE

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over	Detector	Comment
			Level		ment				
1		0.1950	54.20	0.17	54.37	63.82	-9.45	QP	
2		0.1950	43.90	0.17	44.07	53.82	-9.75	AVG	
3		0.2600	51.20	0.12	51.32	61.43	-10.11	QP	
4		0.2600	39.50	0.12	39.62	51.43	-11.81	AVG	
5	*	0.3200	51.30	0.10	51.40	59.71	-8.31	QP	
6		0.3200	39.90	0.10	40.00	49.71	-9.71	AVG	
7		0.3800	48.70	0.09	48.79	58.28	-9.49	QP	
8		0.3800	36.70	0.09	36.79	48.28	-11.49	AVG	
9		0.4350	45.40	0.07	45.47	57.16	-11.69	QP	
10		0.4350	34.50	0.07	34.57	47.16	-12.59	AVG	
11		7.1000	41.60	0.14	41.74	60.00	-18.26	QP	
12		7.1000	33.80	0.14	33.94	50.00	-16.06	AVG	

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