ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	**GSM850/PCS1900 mobile phone**
Brand Name:	**ALCATEL**
Model Name:	**U81C FMA**
Market Name:	**OT-S211A**
FCC ID:	**RAD078**
Report No:	**ER/2008/40033-01**
Issue Date:	**Aug. 04, 2008**
FCC Rule Part:	**2 , 22H & 24E**
Prepared for:	**TCT Mobile Suzhou Limited 3/F,B2 Block,Digital Technology Yard, Gaoxin Nan Qi Road,Nan Shan District, Shenzhen,Guangdong,P.R.China**
Prepared by:	**SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan.**

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VERIFICATION OF COMPLIANCE

Applicant:	TCT Mobile Suzhou Limited 3/F,B2 Block,Digital Technology Yard, Gaoxin Nan Qi Road,Nan Shan District, Shenzhen,Guangdong,P.R.China
Equipment Under Test:	GSM850/PCS1900 mobile phone
FCC ID Number:	RAD078
Brand Name:	ALCATEL
Model No:	U81C FMA
Market name:	OT-S211A
Model Difference:	N/A
File Number:	ER/2008/40033-01
Date of test:	Apr.11, 2008 ~ Aug. 04 , 2008
Date of EUT Received:	Apr.10 , 2008

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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 03, 2008***
	Jim Chang / Supervisor		
Prepared By:		***Date***	***Jun 03, 2008***
	Bondi Liu / Engineer		
Approved By:		***Date***	***Jun 03, 2008***
	Vincent Su / Manager		

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Version

Version No.	Date	Description
1.0	Aug. 04, 2008	Testing conducted emissions upto20GHz for PCS bands.

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1 GENERAL INFORMATION

Product Description

Product Name:	GSM850/PCS1900 mobile phone	
Model Name:	U81C FMA	
Market name:	OT-S211A	
Model Difference:	N/A	
Brand Name:	ALCATEL	
Power Supply:	Two 3.7 Vdc re-chargeable battery and two 5Vdc by AC/DC power adaptors	
	Battery Model:	CAB2001010C1, Supplier: BYD; CAB2001010C2, Supplier: Coslight
	Adapter Model:	T5002684AGAB, Supplier: SCUD; T5002684AGAA, Supplier: TENPAO

GSM:

Frequency Range and Power	GSM 850: 824MHz –849MHz	33 dBm
	GSM 1900: 1850MHz –1910MHz	30 dBm
Type of Emission:	GSM 850 :246KGXW，GSM 1900 :249KGXW	
Software Version:	040	
Hardware Version:	PIO4	
IMEI:	011467-00-000215-2	

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1.21.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **RAD078** filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

1.31.2 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on FCC CFR 47 2.1046, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

1.41.3 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.

1.51.4 Special Accessories

Not available for this EUT intended for grant.

1.61.5 Equipment Modifications

Not available for this EUT intended for grant.

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2.2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 AC Power Line Conducted Emissions

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

2.3.2 Conducted Measurement at Antenna Port:

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

2.3.3 Radiated Emissions (ERP/EIRP):

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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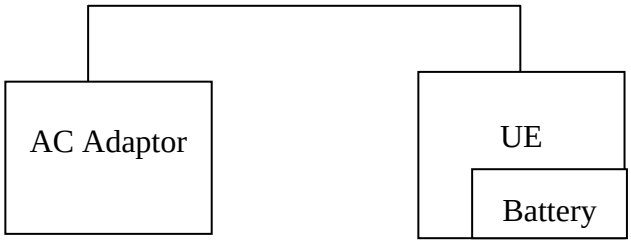
2.4 Configuration of Tested System

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



Remote side

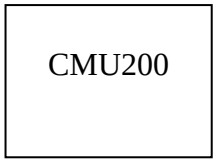


Table 2-1 Equipment Used in Tested System

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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3.3 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

4.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for GSM with all power adaptors and earphone. The worst-case E2 mode for GSM 850 band and H mode for GSM 1900 band with adaptor for channel Low, Mid and High at GSM mode was reported.

All tests were carried out for worst adaptor: T5002684AGAB

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5.5 RF POWER OUTPUT MEASUREMENT

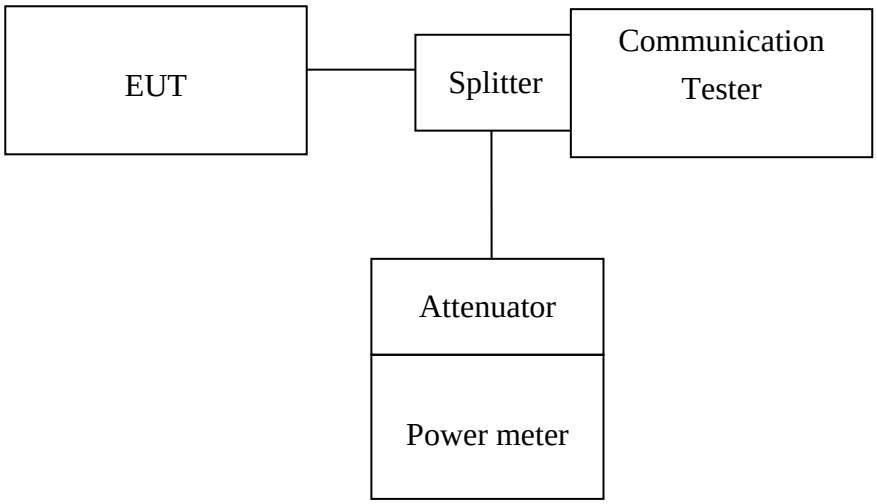
5.1 Standard Applicable

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	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2008	06/29/2009
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	CMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	06/28/2008	06/29/2009
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2008	06/29/2009
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	TOPWARD	3303A	N/A	N/A	N/A

5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Power (dBm)
GSM 850	824.20	128	13.51	17.50	31.01
	836.60	190	13.66	17.50	31.16
	848.80	251	13.95	17.50	31.45

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Power (dBm)
PCS 1900	1850.20	512	11.66	17.50	29.16
	1880.00	661	11.55	17.50	29.05
	1909.80	810	11.61	17.50	29.11

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6.6 ERP, EIRP MEASUREMENT

6.1 Standard Applicable

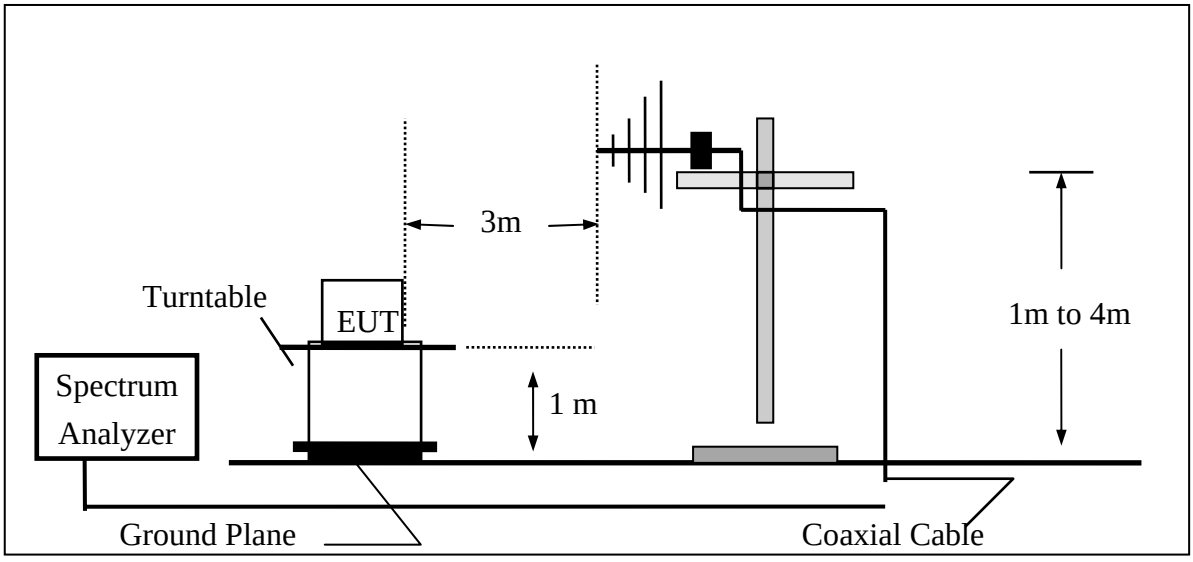
According to FCC §2.1046

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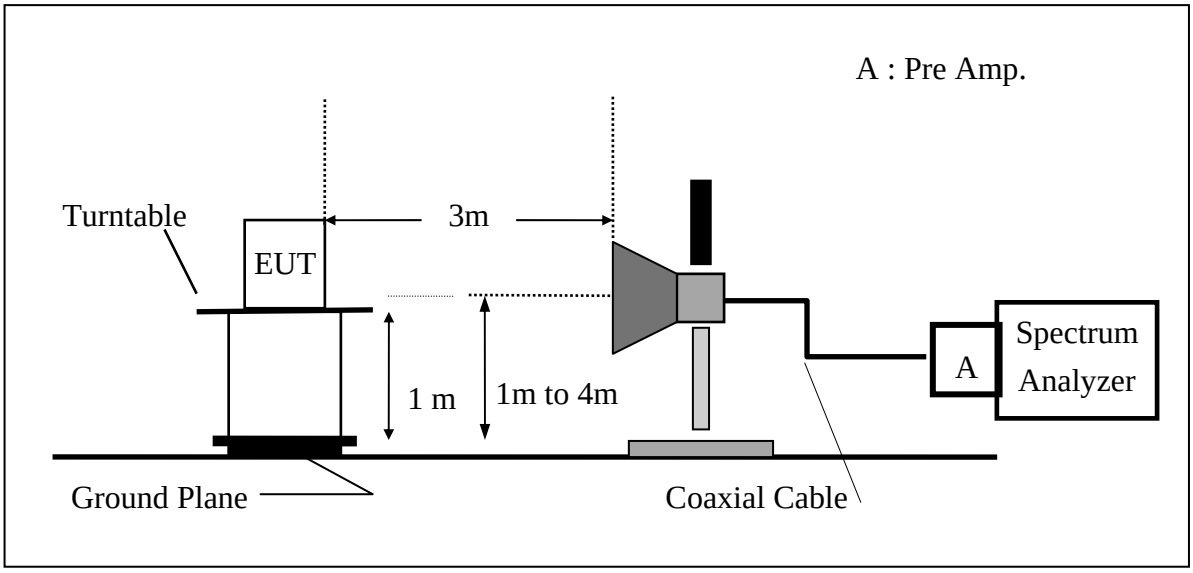
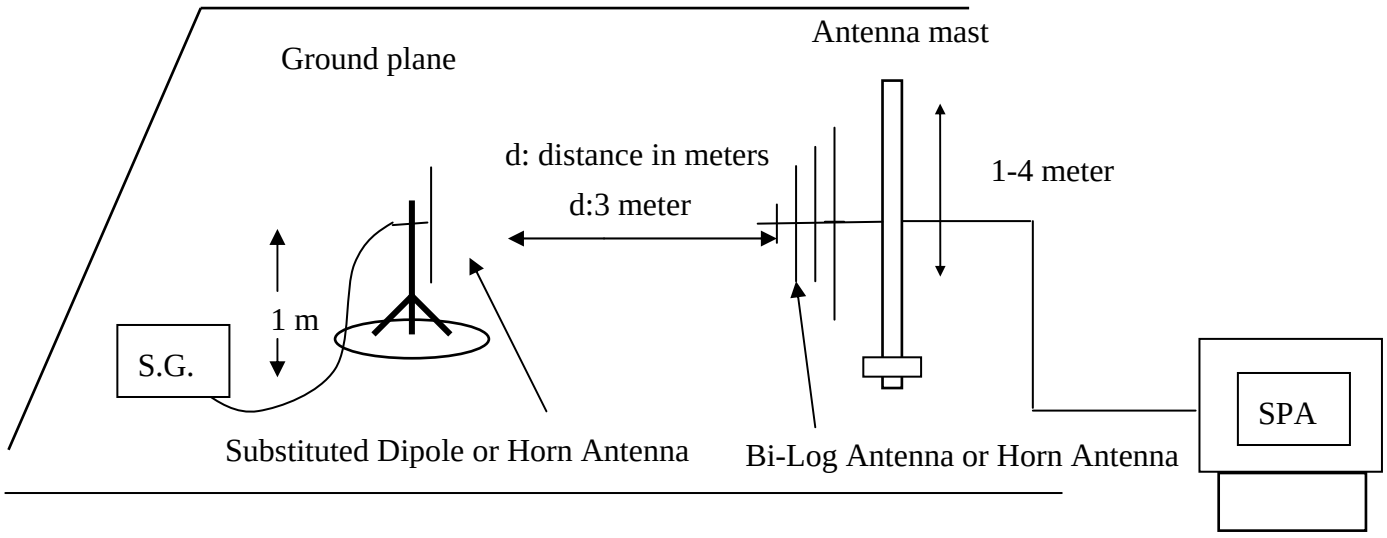
(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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6.3 Measurement Procedure

The EUT was placed on 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 –848.80.8MHz 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:

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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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	7405A	US41160416	06/28/2008	06/29/2009
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	CMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	13/11/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2008	08/15/2009
Pre-Amplifier	HP	8447D	2944A09469	07/19/2008	07/18/2009
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	06/10/2008	06/11/2009
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/10/2008	06/11/2009
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	129.59	43.20	-7.87	3.62	31.70	38.45
				H	129.67	43.40	-7.87	3.62	31.90	38.45
			E1	V	122.61	36.22	-7.87	3.62	24.72	38.45
				H	123.00	36.73	-7.87	3.62	25.23	38.45
			E2	V	120.42	34.03	-7.87	3.62	22.53	38.45
				H	130.78	44.51	-7.87	3.62	33.01	38.45
	836.60	190	H	V	130.63	44.38	-7.88	3.65	32.85	38.45
				H	130.59	44.36	-7.88	3.65	32.83	38.45
			E1	V	124.24	37.99	-7.88	3.65	26.46	38.45
				H	123.97	37.74	-7.88	3.65	26.21	38.45
			E2	V	120.99	34.74	-7.88	3.65	23.21	38.45
				H	132.03	45.80	-7.88	3.65	34.27	38.45
	848.80	251	H	V	129.46	43.34	-7.88	3.68	31.78	38.45
				H	129.55	43.36	-7.88	3.68	31.80	38.45
			E1	V	126.09	39.97	-7.88	3.68	28.41	38.45
				H	125.48	39.29	-7.88	3.68	27.73	38.45
			E2	V	122.12	36.00	-7.88	3.68	24.44	38.45
				H	131.66	45.47	-7.88	3.68	33.91	38.45

Remark：

(1) The RBW,VBW of SPA for frequency

Below 1GHz was RBW= 250KHz, 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	128.75	24.36	9.90	5.56	28.70	33.00
				H	129.37	25.19	9.90	5.56	29.53	33.00
			E1	V	130.22	25.83	9.90	5.56	30.17	33.00
				H	128.55	24.37	9.90	5.56	28.71	33.00
			E2	V	128.58	24.19	9.90	5.56	28.53	33.00
				H	130.34	26.16	9.90	5.84	30.22	33.00
	1880.00	661	H	V	127.60	23.24	9.99	5.61	27.62	33.00
				H	128.81	24.67	9.99	5.61	29.04	33.00
			E1	V	130.00	25.64	9.99	5.61	30.02	33.00
				H	128.79	24.65	9.99	5.61	29.02	33.00
			E2	V	128.72	24.36	9.99	5.61	28.74	33.00
				H	130.49	26.35	9.99	5.61	30.72	33.00
	1909.80	810	H	V	126.06	21.73	10.08	5.66	26.15	33.00
				H	128.30	24.19	10.08	5.66	28.61	33.00
			E1	V	129.63	25.30	10.08	5.66	29.72	33.00
				H	127.97	23.86	10.08	5.66	28.28	33.00
			E2	V	127.50	23.17	10.08	5.66	27.59	33.00
				H	129.29	25.18	10.08	5.66	29.60	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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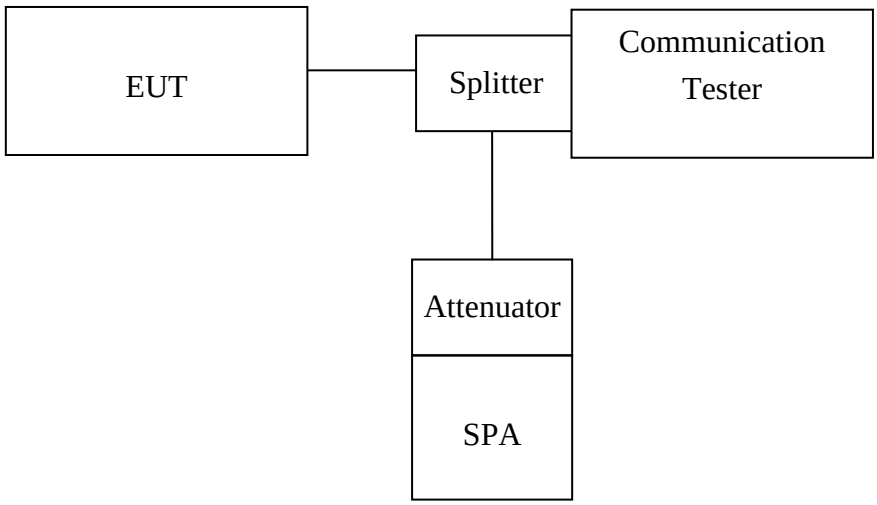
7.7 99% OCCUPIED BANDWIDTH MEASUREMENT

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	7405A	US41160416	06/28/2008	06/29/2009
Power Sensor	Anritsu	MA2490A	31431	06/28/2008	06/29/2009
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2008	06/29/2009
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Agilent	11636B	51728	09/23/20070	9/22/2008
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

7.5 Measurement Result:.

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
GSM 850	824.20	128	0.2443
	836.60	190	0.2447
	848.80	251	0.2459

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.2457
	1880.00	661	0.2489
	1909.80	810	0.2456

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Figure 7-1: GSM Channel Low

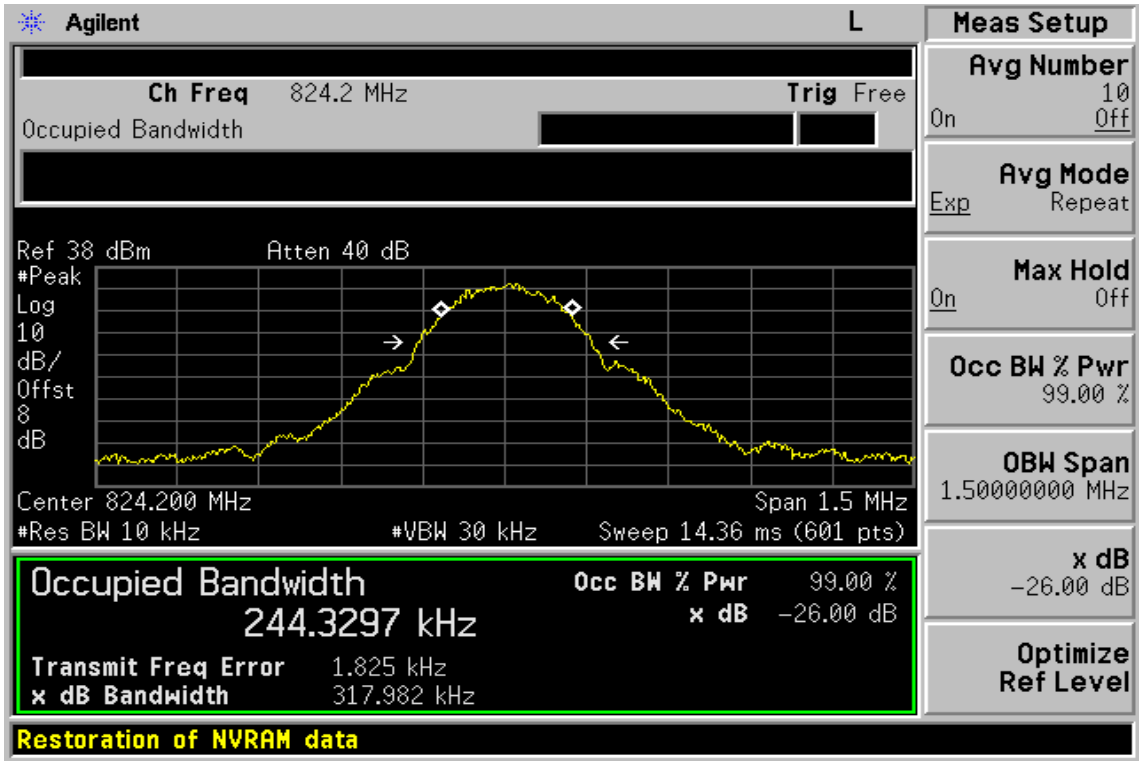

Figure 7-2 GSM Channel Mid

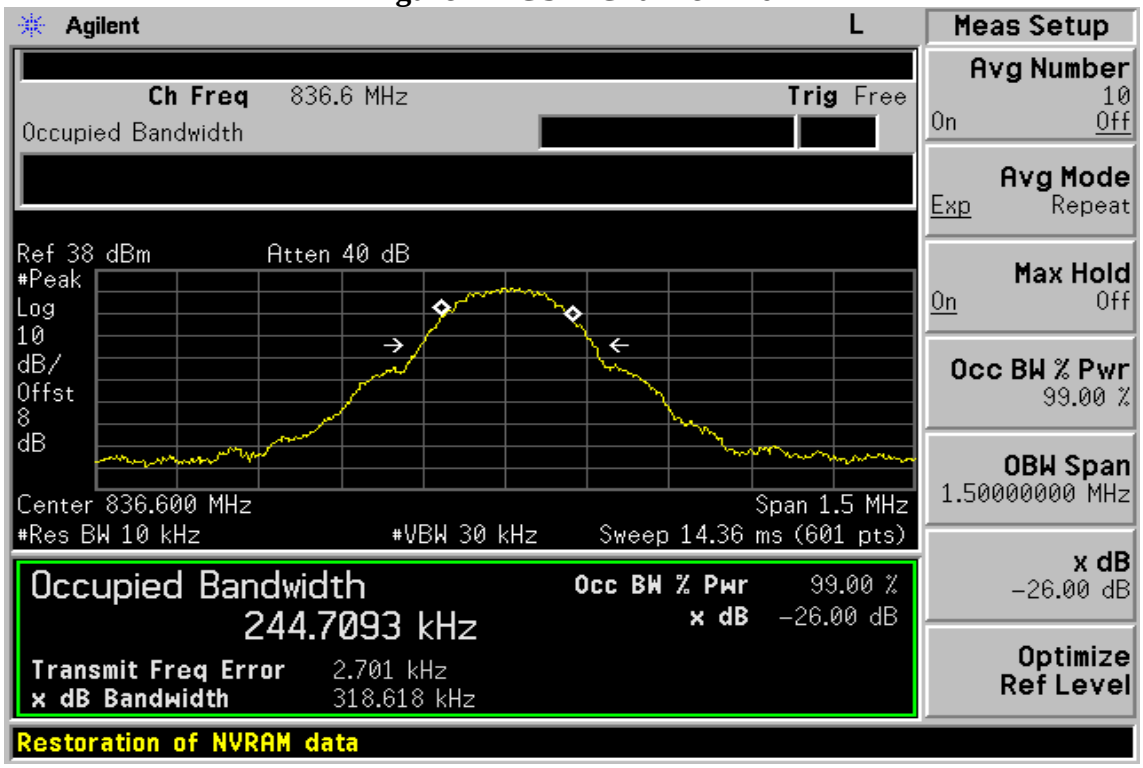

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Figure 7-3: GSM Channel High

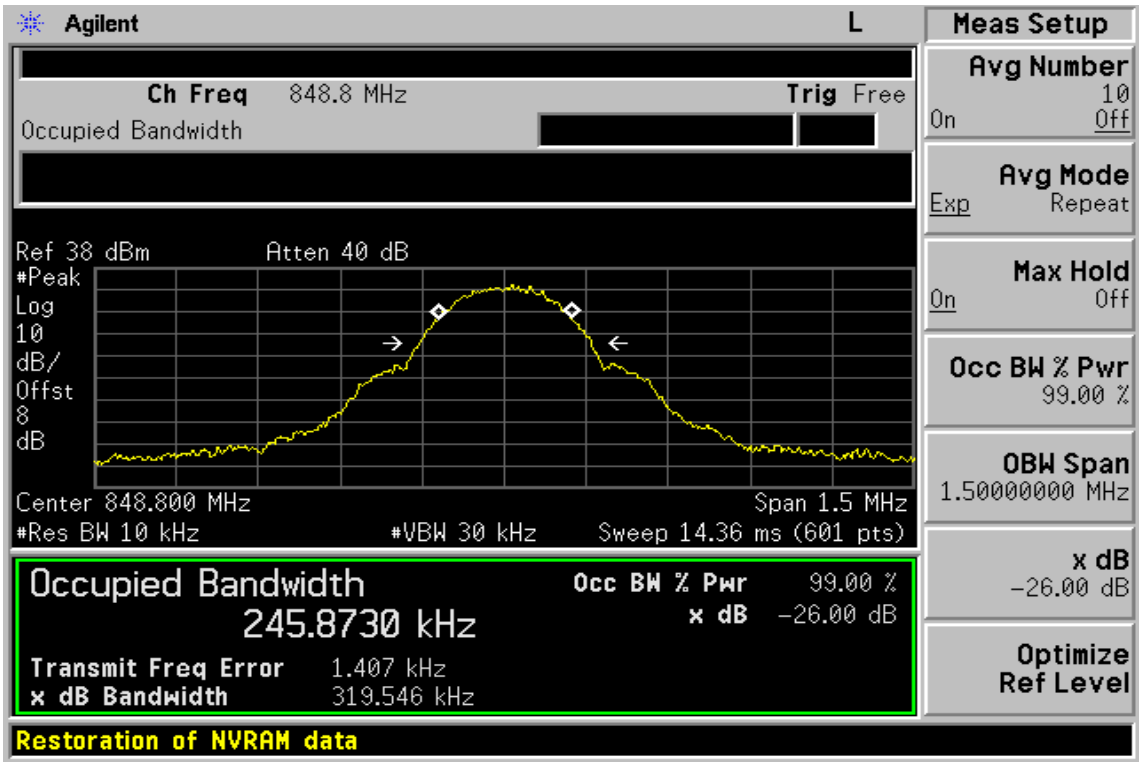

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Figure 7-4: PCS Channel Low

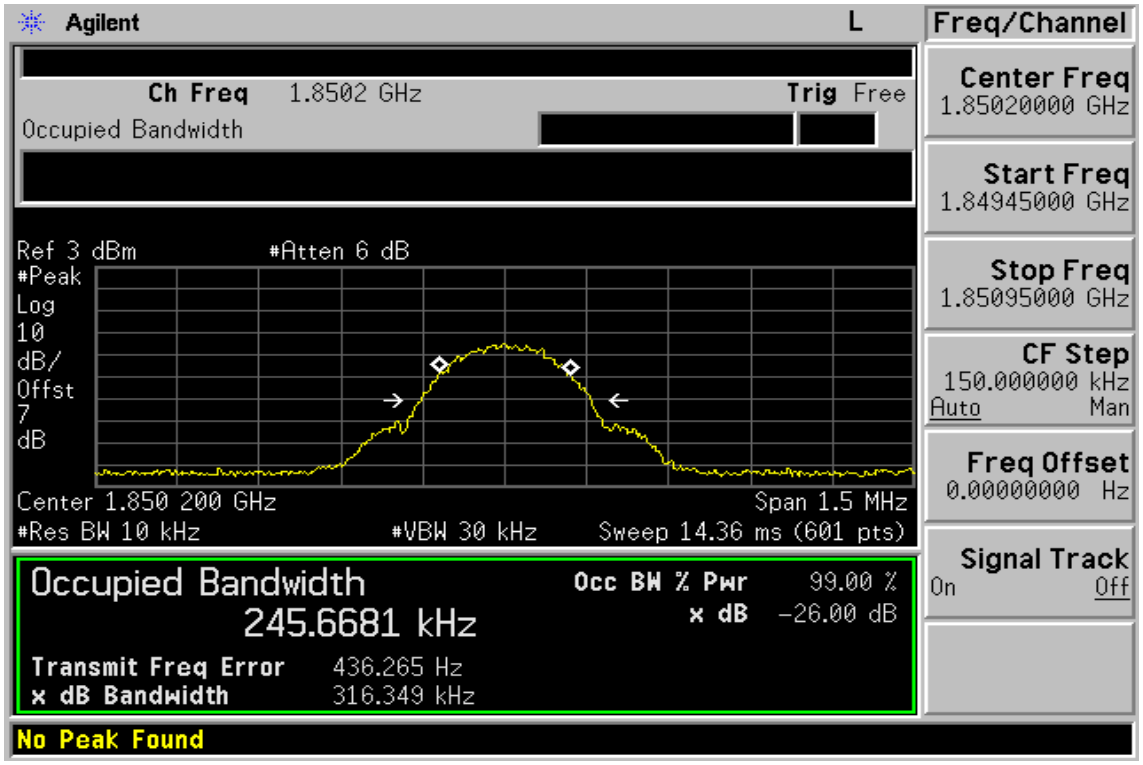

Figure 7-5 PCS Channel Mid

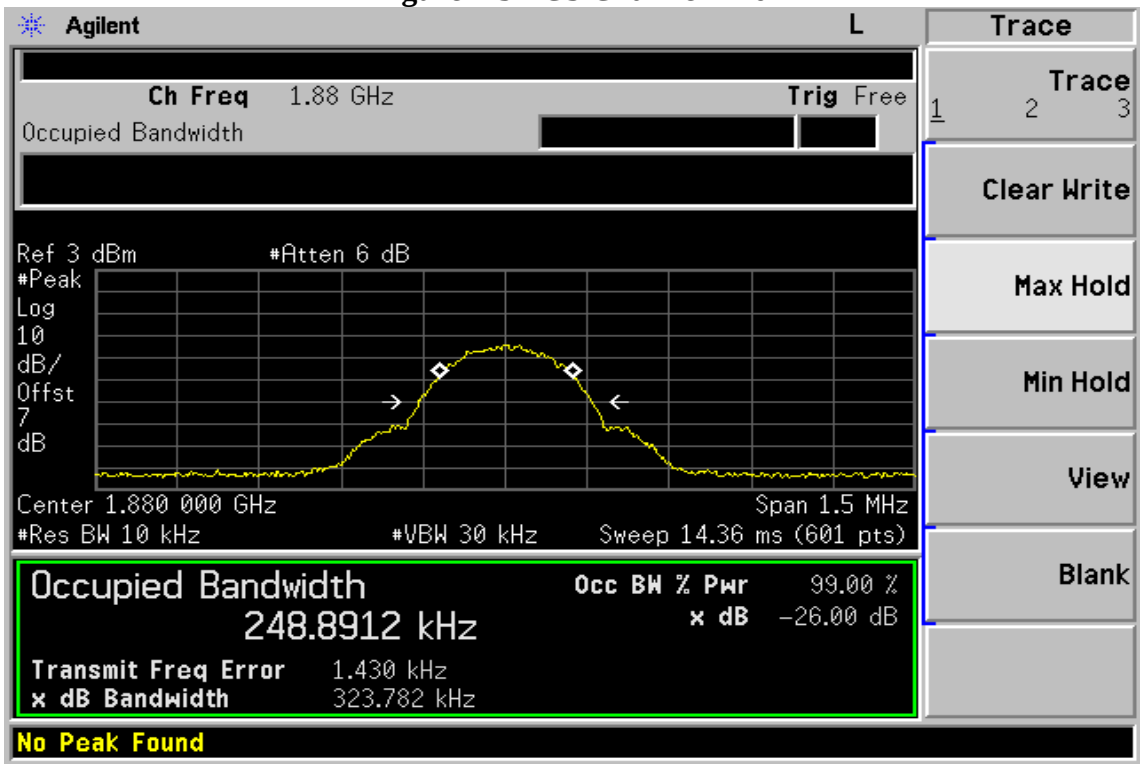

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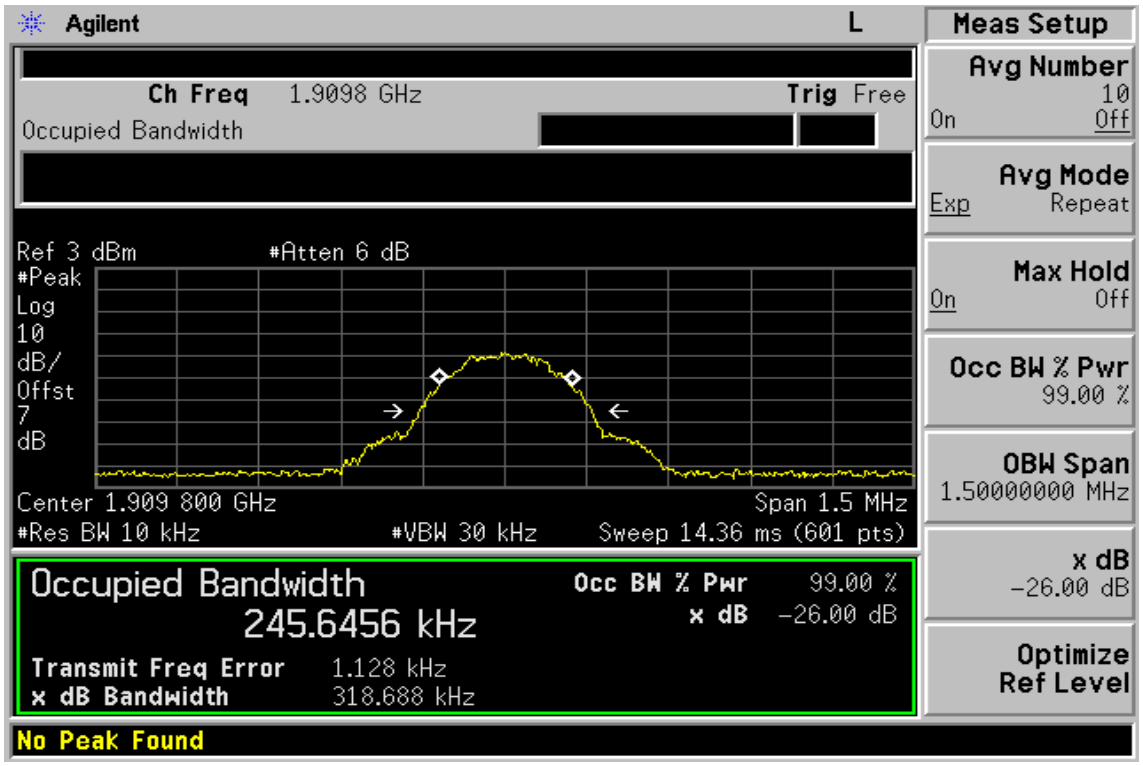
Figure 7-6: PCS Channel High



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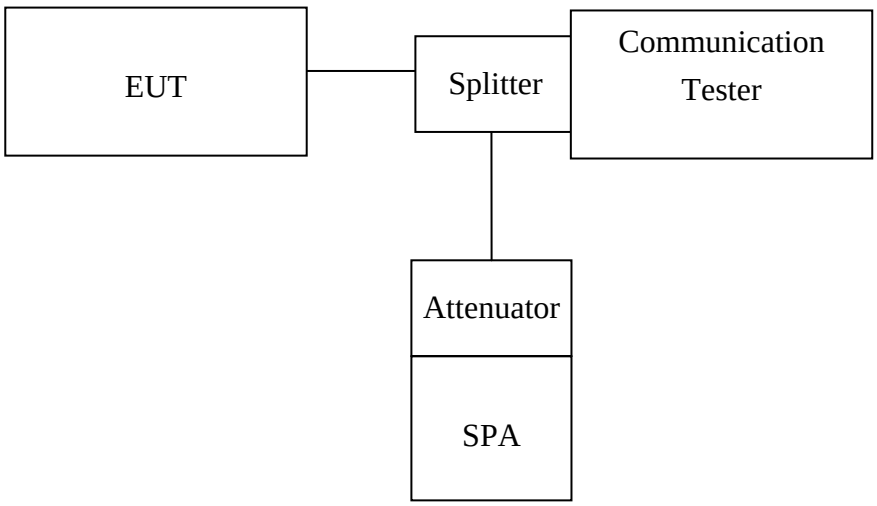
8.8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

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= 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.

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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	04/27/2008	04/26/2009
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2008	06/29/2009
Power Sensor	Anritsu	MA2490A	31431	06/28/2008	06/29/2009
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2008	06/29/2009
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Agilent	11636B	51728	09/23/20070	9/22/2008
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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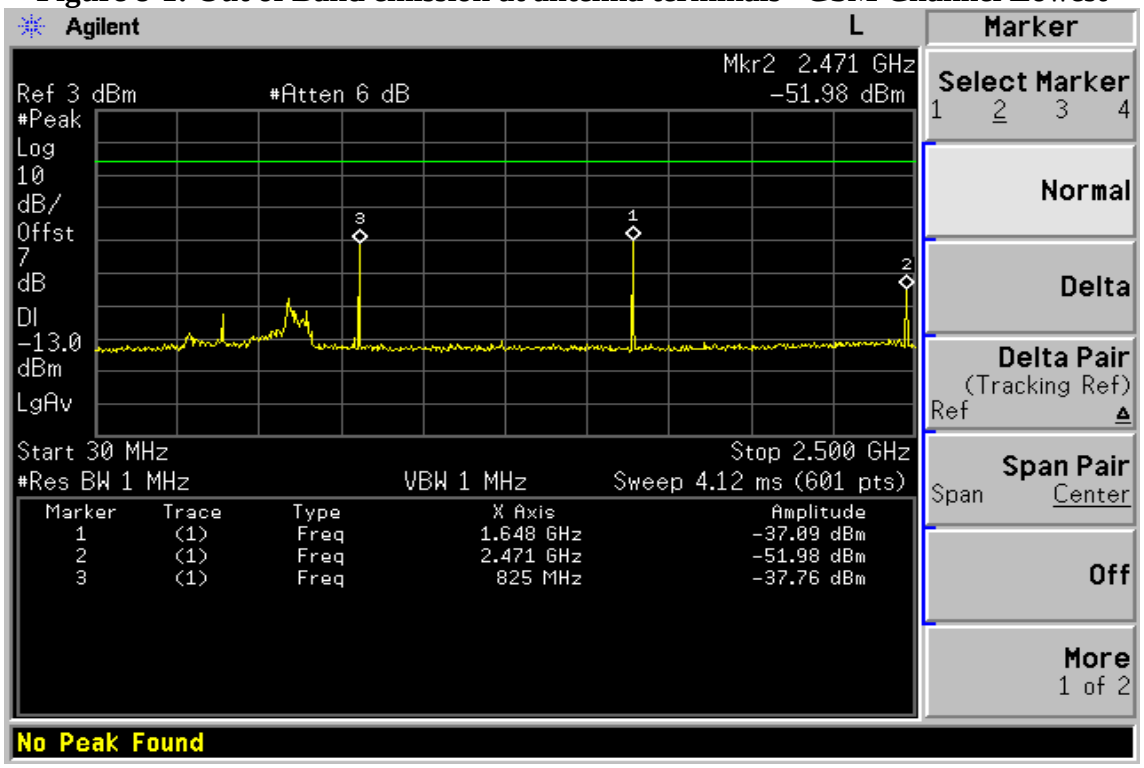
8.5 Measurement Result

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



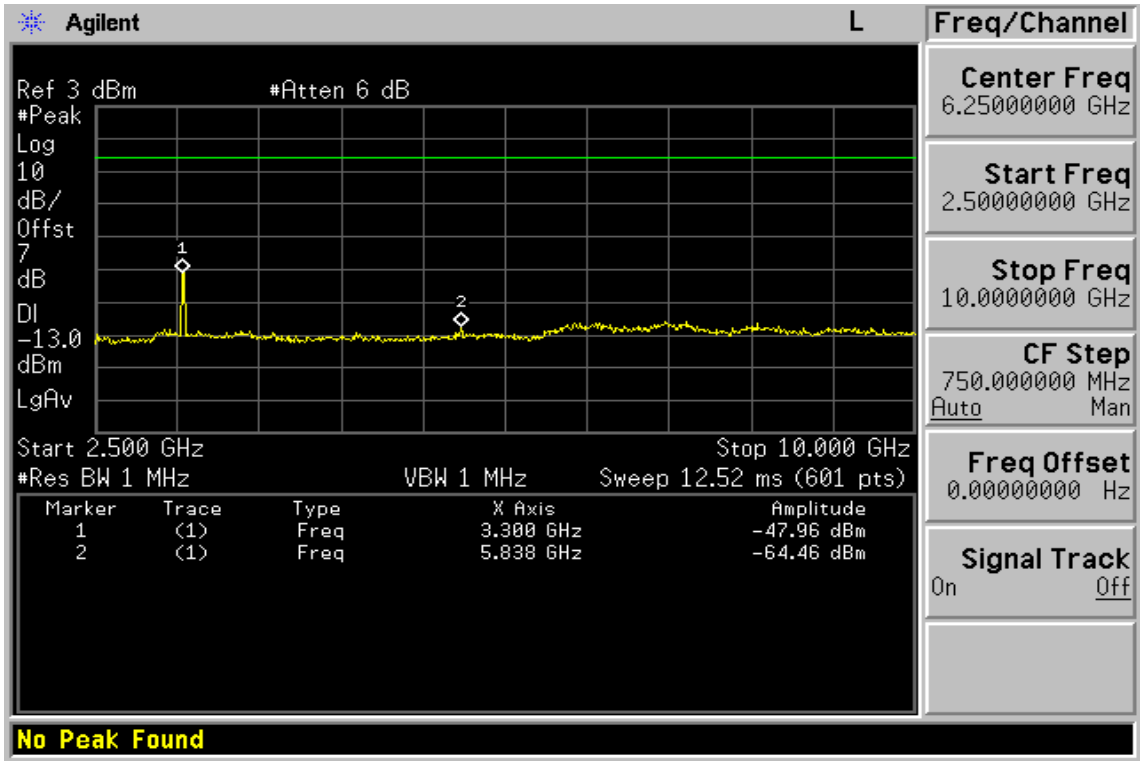


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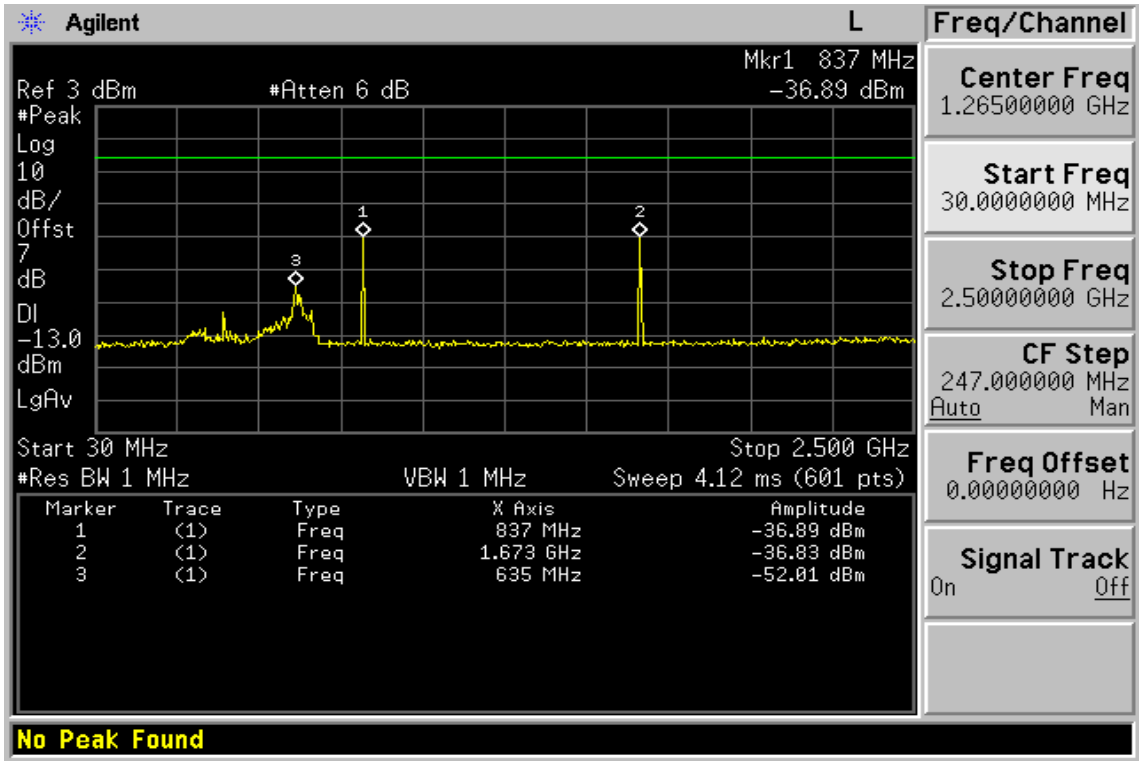
Figure 8-2: Out of Band emission at antenna terminals –GSM Channel Mid



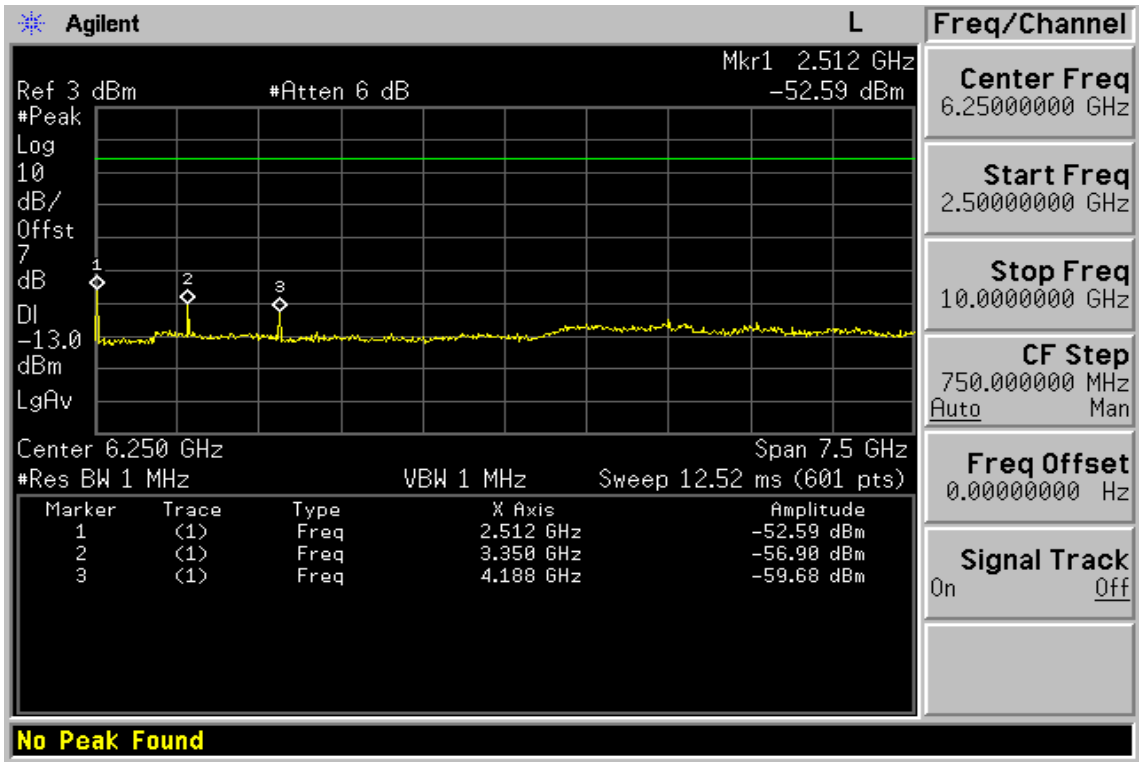


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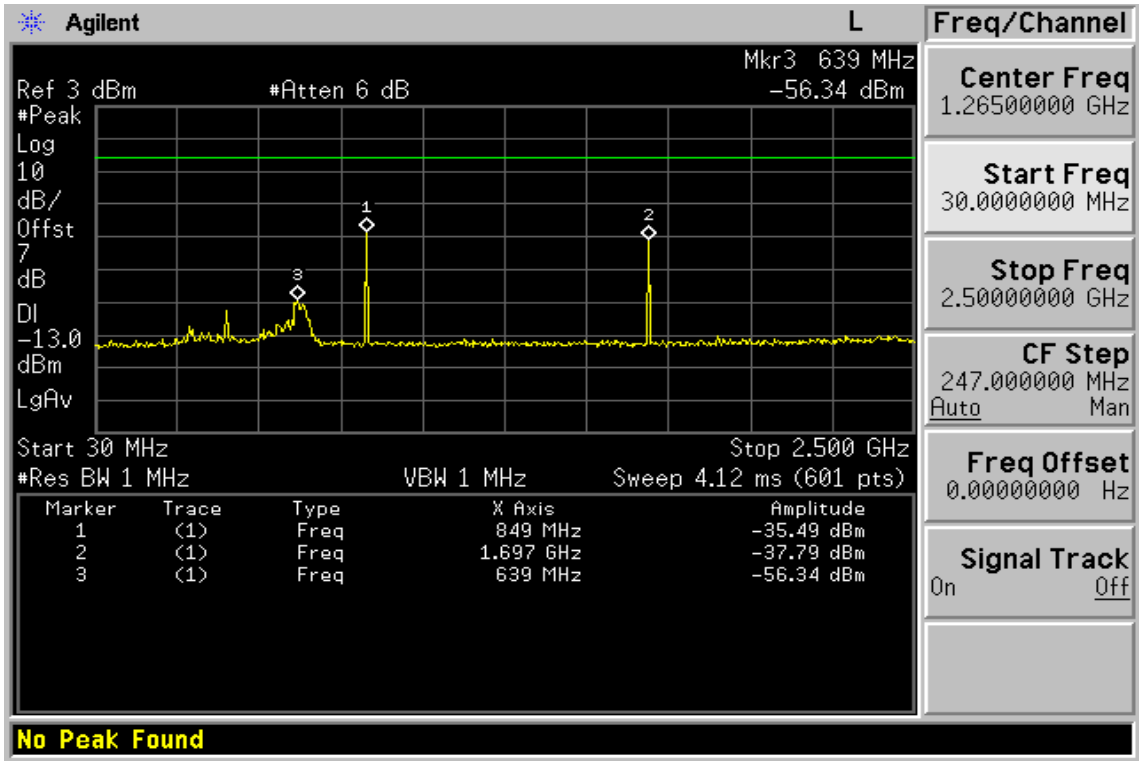
Figure 8-3: Out of Band emission at antenna terminals–GSM Channel Highest



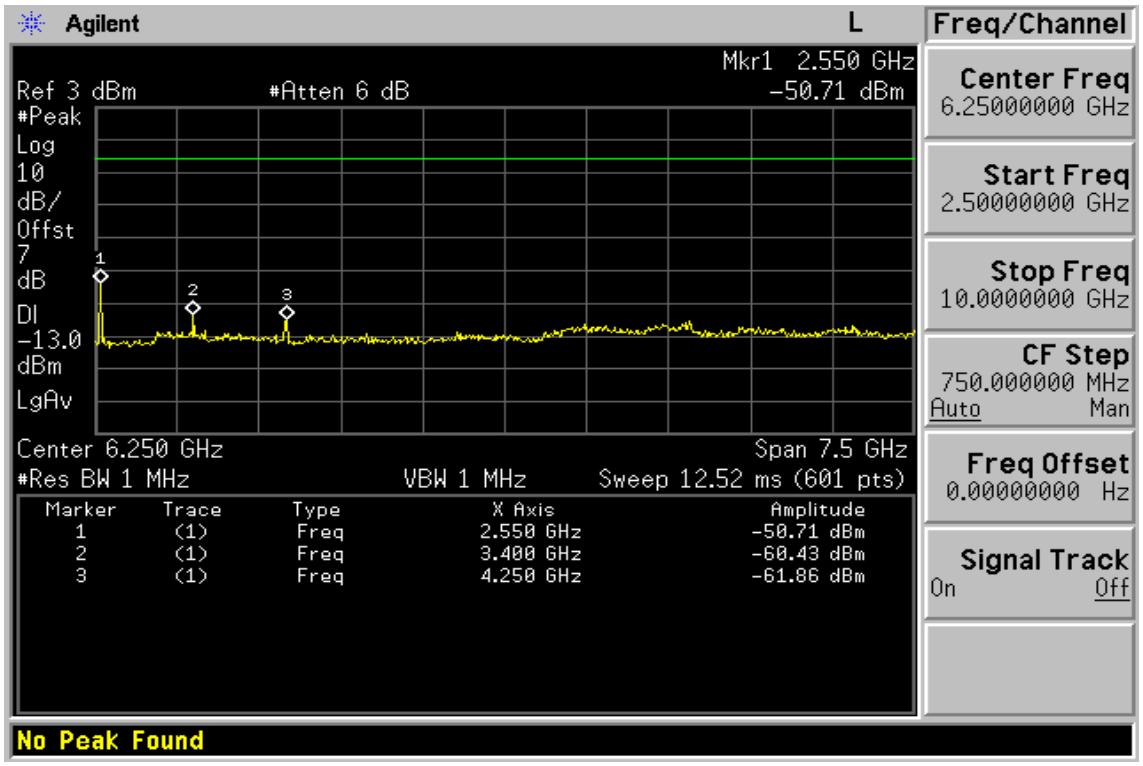


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Figure 8-4: Band edge emission at antenna terminals – GSM Channel Lowest

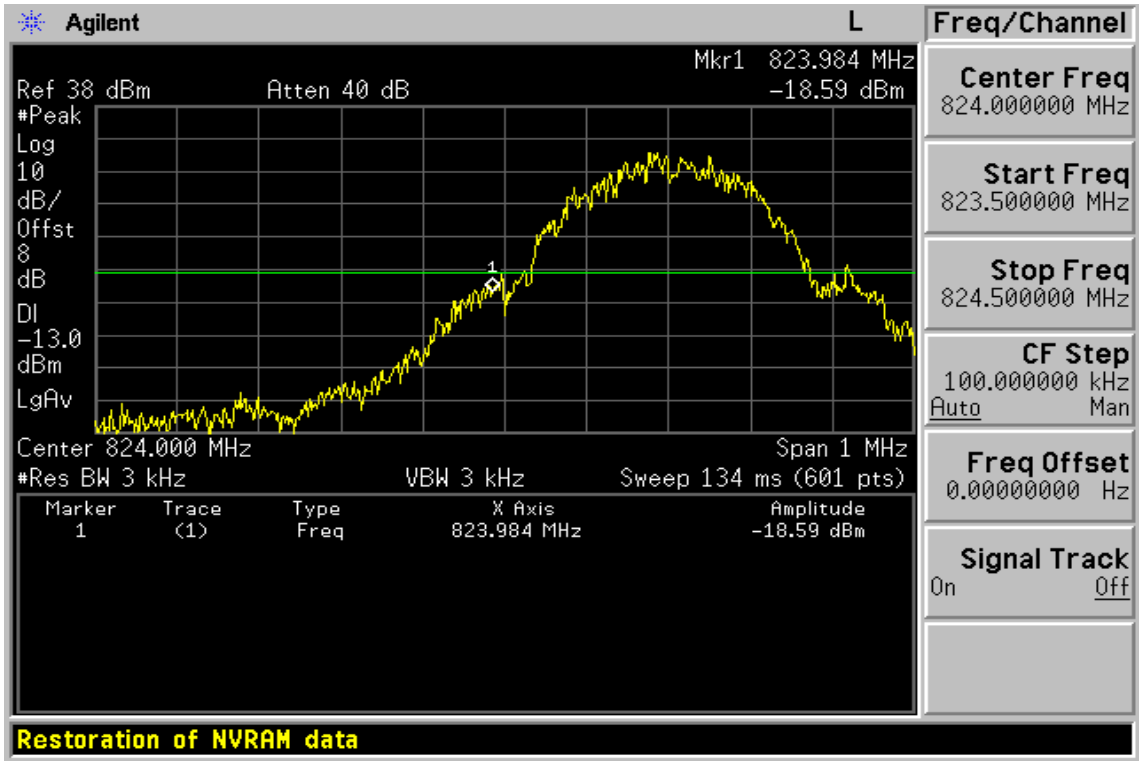

Figure 8-5: Band edge emission at antenna terminals – GSM Channel Highest

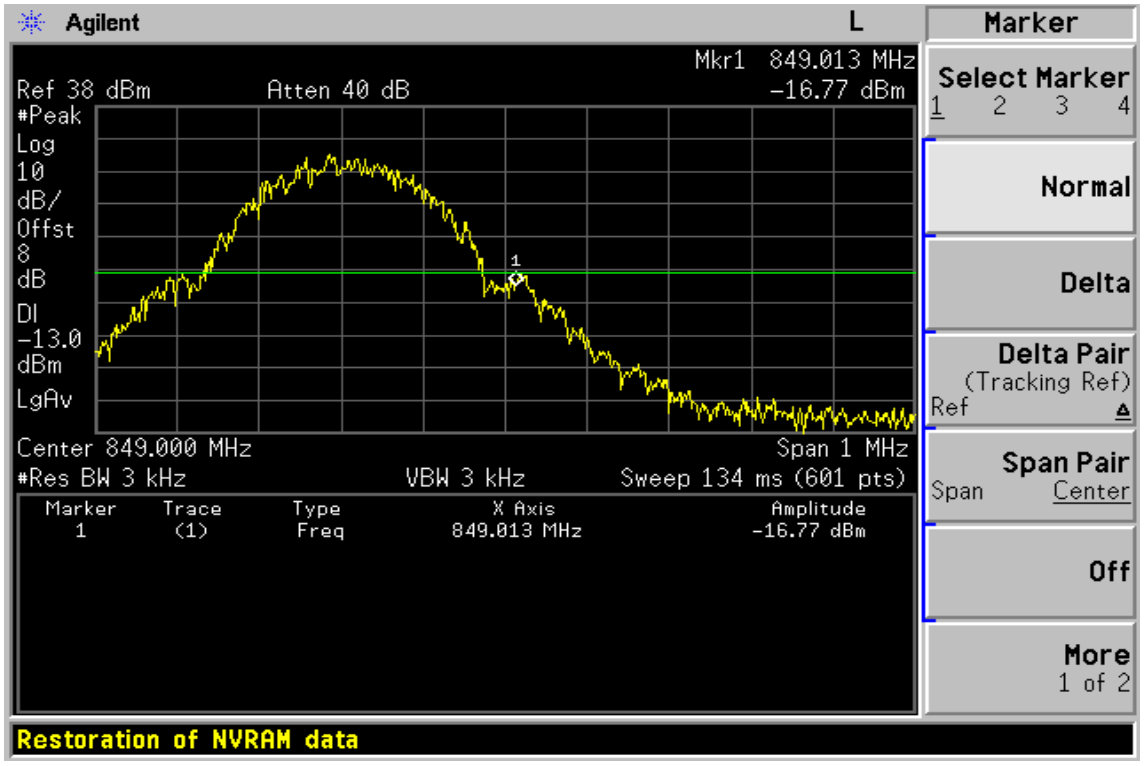

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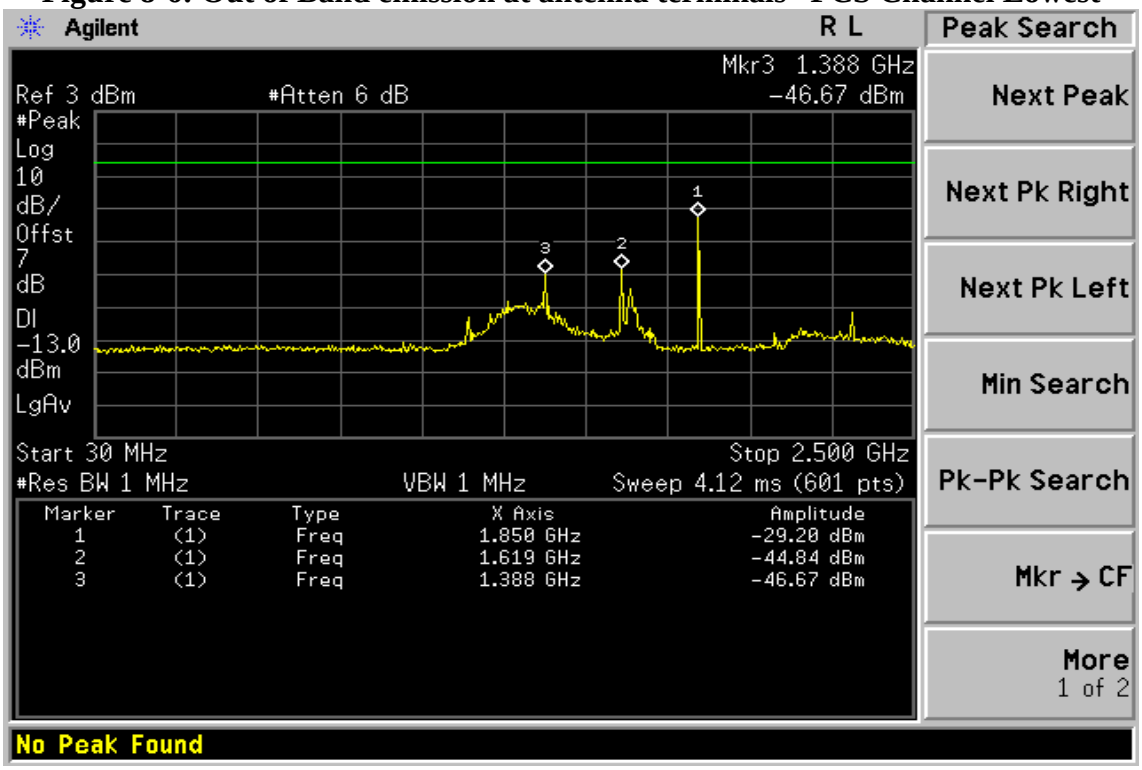
Figure 8-6: Out of Band emission at antenna terminals– PCS Channel Lowest



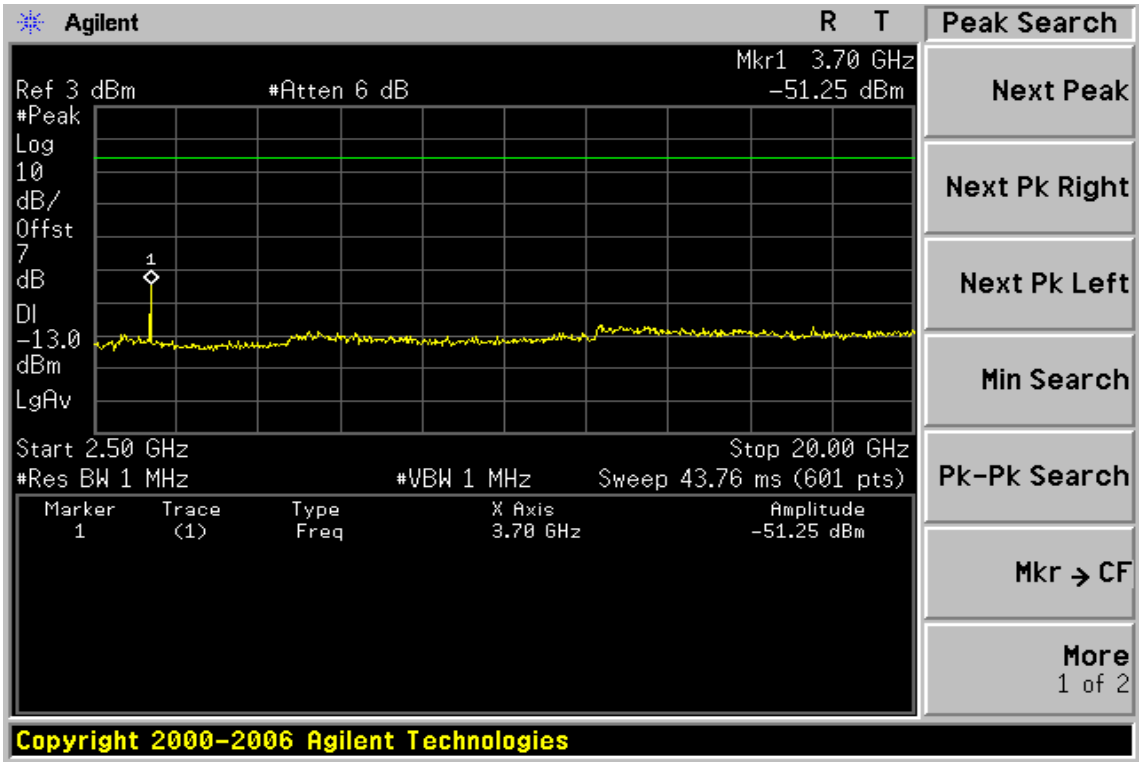


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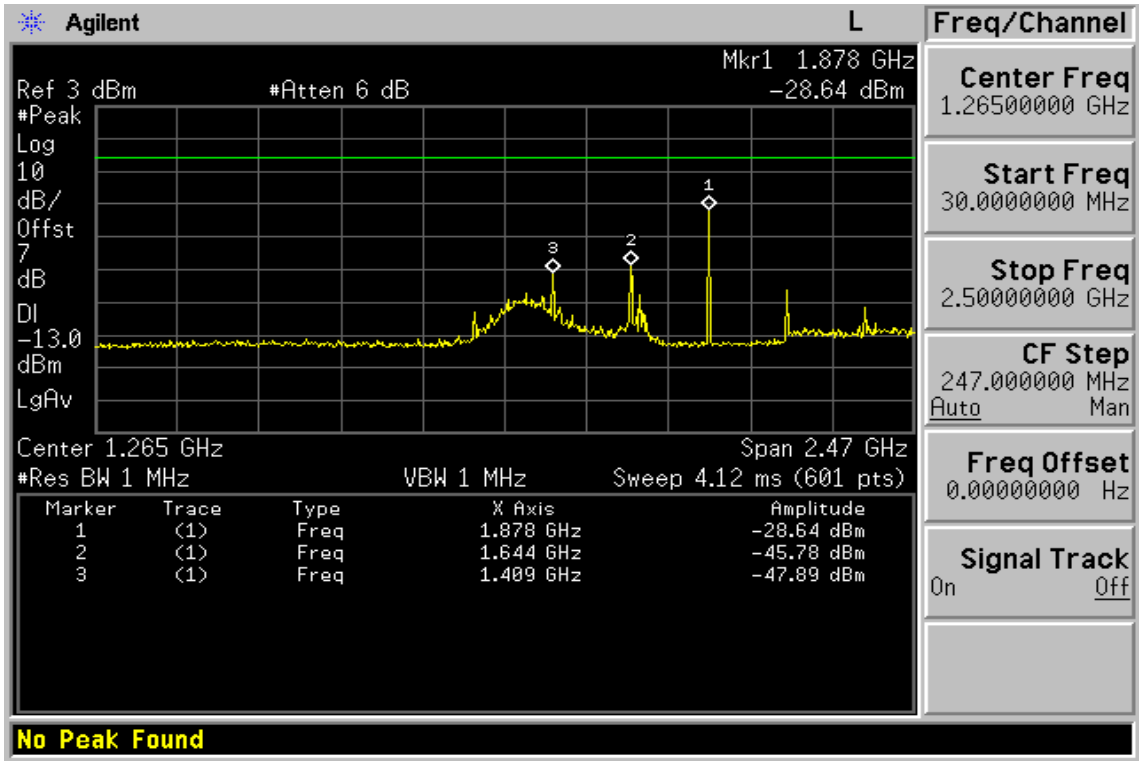
Figure 8-7: Out of Band emission at antenna terminals –PCS Channel Mid



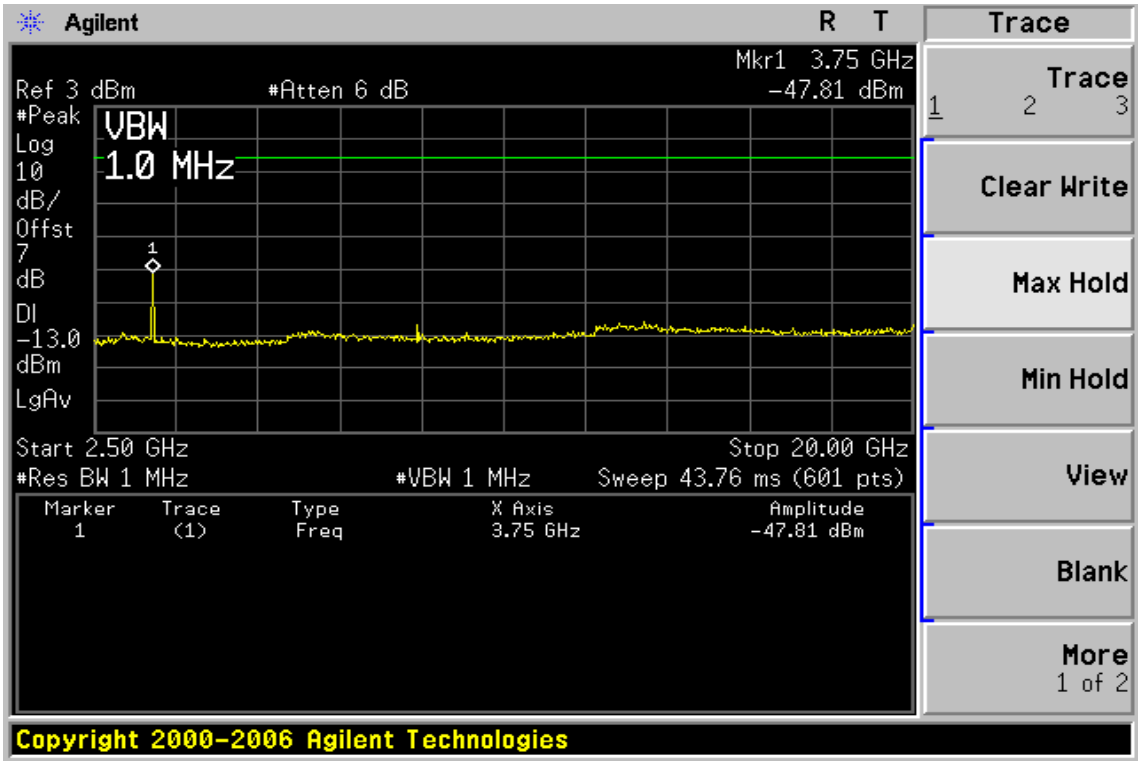


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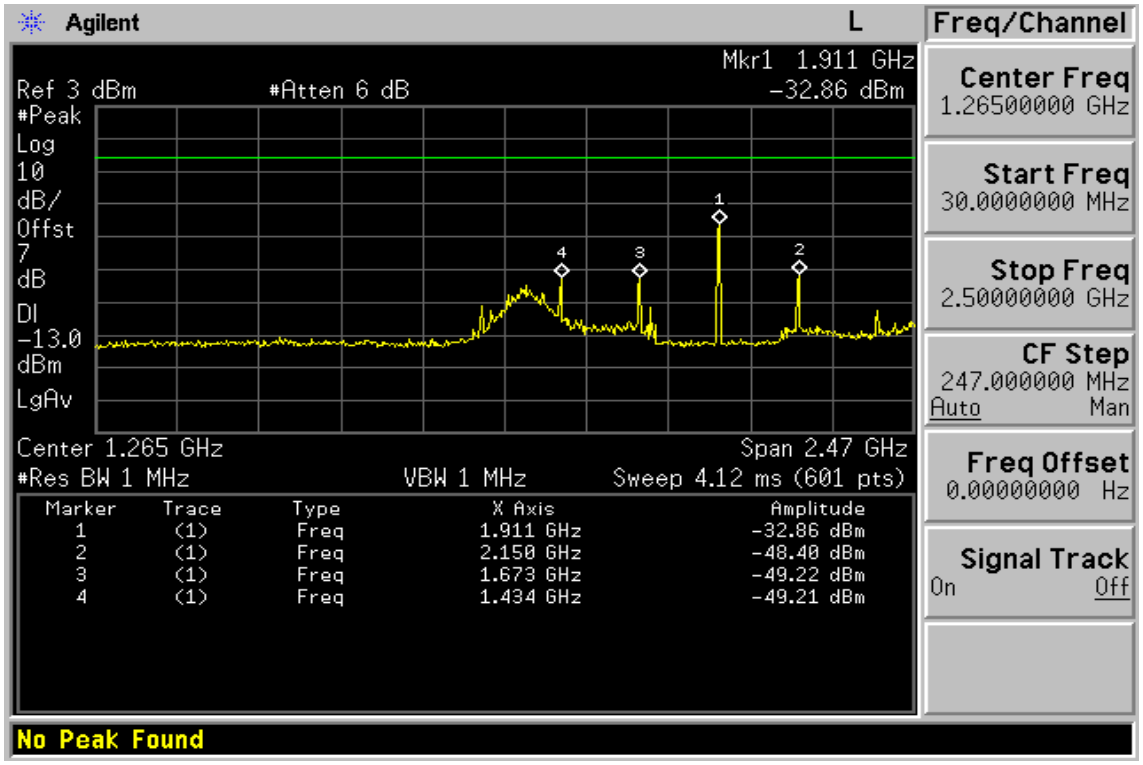
Figure 8-8: Out of Band emission at antenna terminals–PCS Channel Highest



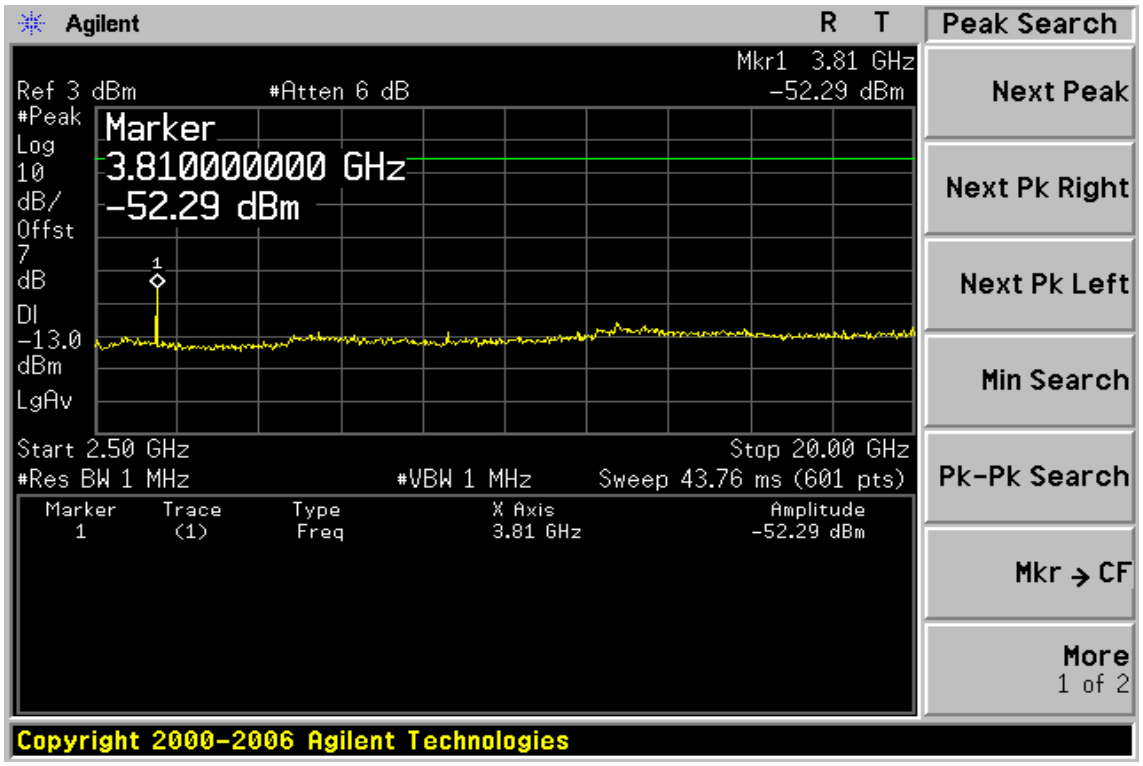


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Figure 8-9: Band edge emission at antenna terminals – PCS Channel Lowest

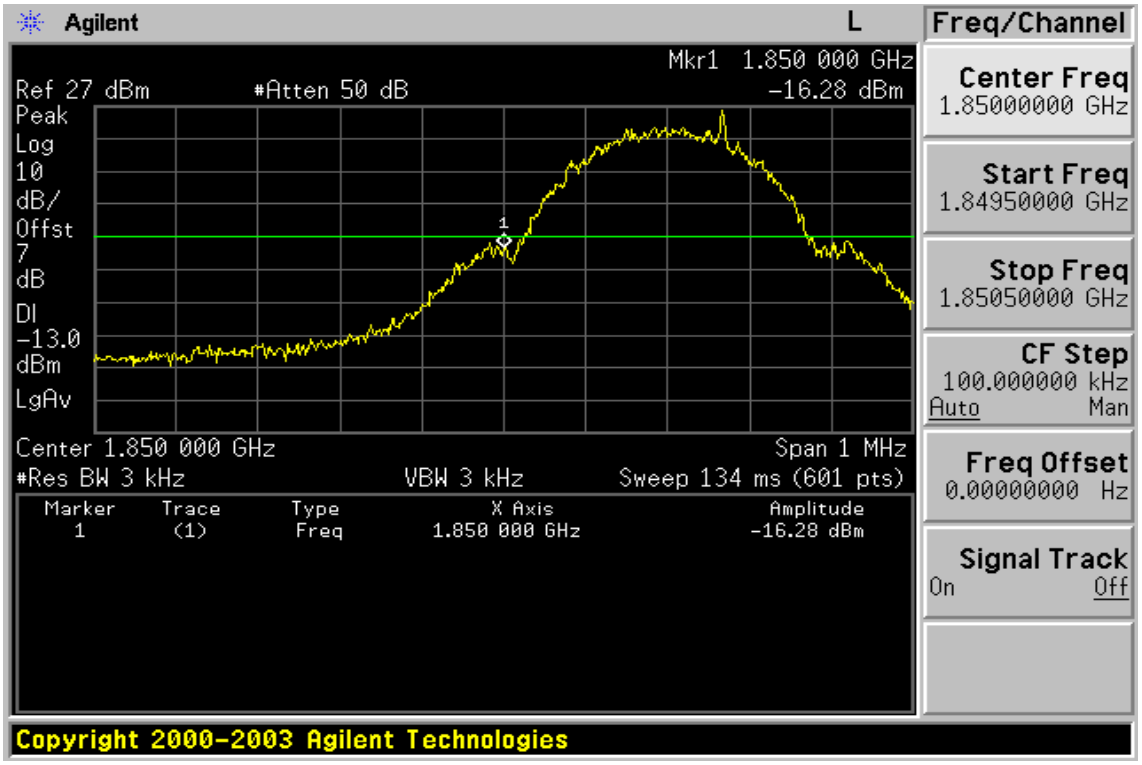
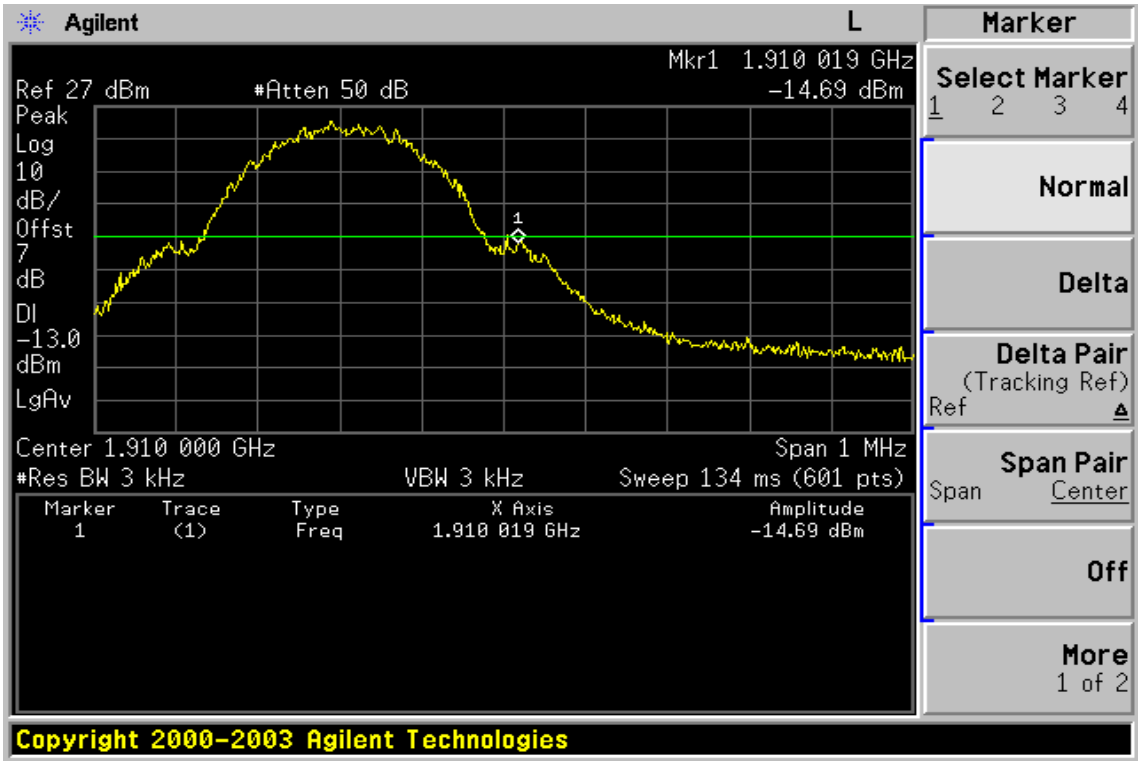


Figure 8-10: Band edge emission at antenna terminals – PCS Channel Highest



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9.9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

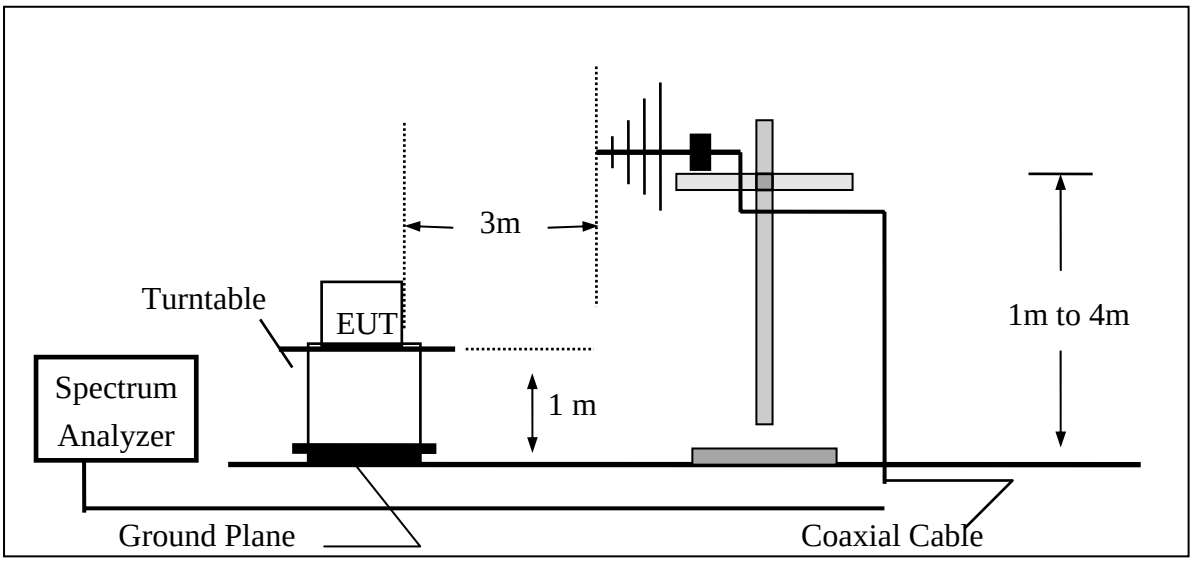
9.1 Standard Applicable

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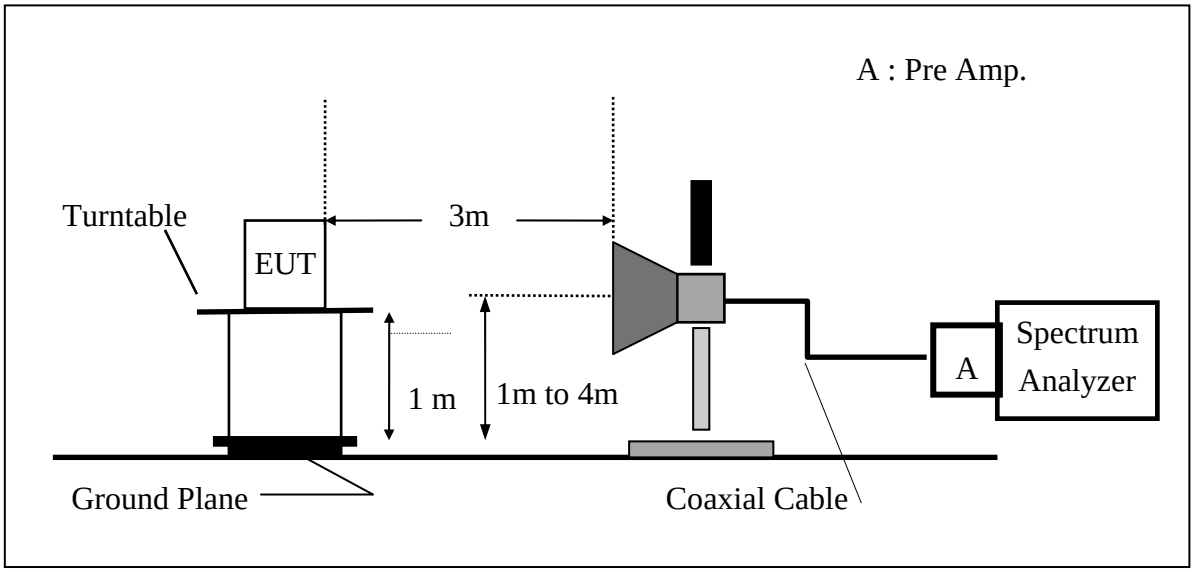
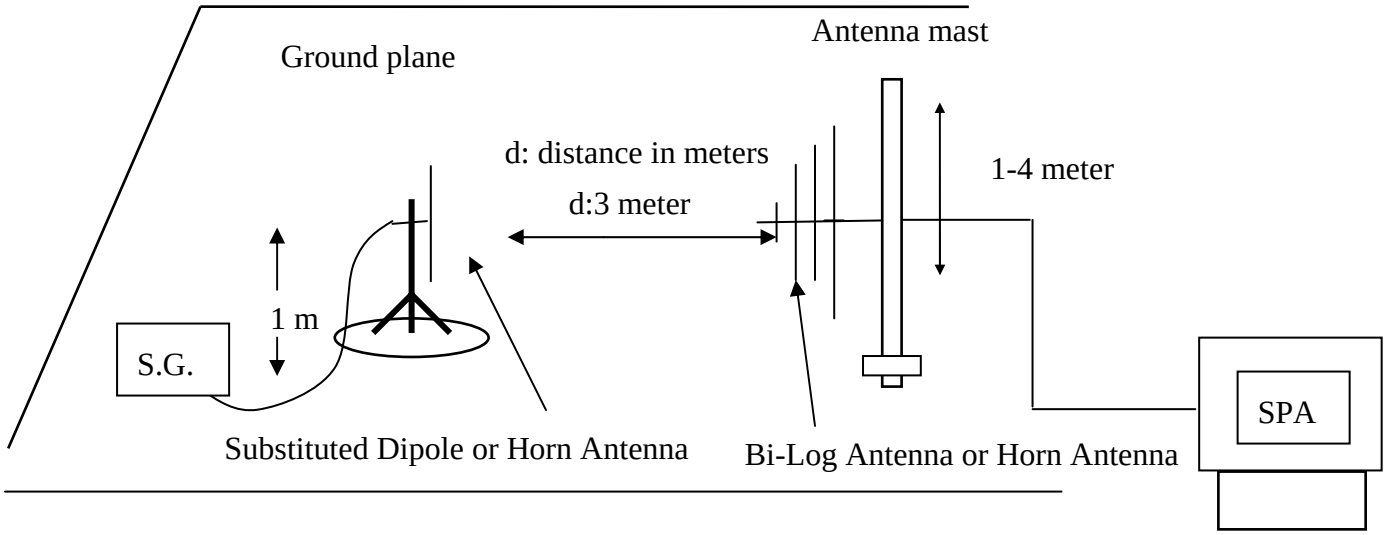
(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(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.

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. And Peak detector was used during this test.

When 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.

ERP was 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 was 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:

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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6.49.4 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	7405A	US41160416	06/28/2008	06/29/2009
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2007	11/10/2008
Communication Test	R&S	CMU200	N/A	N/A	N/A
Bi-log Antenna	SCHWAZBECK	VULB9160	3224	11/14/2007	13/11/2008
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	08/16/2008	08/15/2009
Pre-Amplifier	HP	8447D	2944A09469	07/19/2008	07/18/2009
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	06/10/2008	06/11/2009
Dipole Antenna	SCHWAZBECK	UHAP	891/892	06/10/2008	06/11/2009
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 E2 Mode	Test Date:	May.10,2008
Fundamental Frequency	: 824.20 MHz	Test By:	Duka
Temperature	: 25℃	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)
49.40	56.94	V	-49.75	-0.72	0.89	-51.37	-13.00	-38.37
93.05	48.94	V	-55.25	-7.75	1.18	-64.18	-13.00	-51.18
152.22	40.20	V	-57.61	-7.80	1.47	-66.88	-13.00	-53.88
246.31	40.67	V	-60.13	-7.89	1.95	-69.97	-13.00	-56.97
297.72	41.73	V	-57.90	-7.92	1.99	-67.80	-13.00	-54.80
824.00	76.48	V	-10.85	-7.87	3.64	-22.37	-13.00	-9.37
1648.40	---	V		9.29	5.06		-13.00	
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

Operation Mode	: TX CH Low E2 Mode	Test Date:	May.10,2008
Fundamental Frequency	: 824.20 MHz	Test By:	Duka
Temperature	: 25℃	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)
49.40	52.93	H	-53.91	-0.72	0.89	-55.53	-13.00	-42.53
93.05	49.68	H	-53.87	-7.75	1.18	-62.80	-13.00	-49.80
127.97	43.31	H	-57.31	-7.78	1.36	-66.45	-13.00	-53.45
246.31	39.20	H	-61.77	-7.89	1.95	-71.61	-13.00	-58.61
297.72	41.22	H	-58.45	-7.92	1.99	-68.35	-13.00	-55.35
824.00	82.35	H	-5.31	-7.87	3.64	-16.83	-13.00	-3.83
1648.40	52.81	H	-54.20	9.29	5.06	-49.97	-13.00	-36.97
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

Operation Mode	: TX CH Mid E2 Mode	Test Date:	May.10,2008
Fundamental Frequency	: 836.60 MHz	Test By:	Duka
Temperature	: 25℃	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)
49.40	57.33	V	-49.36	-0.72	0.89	-50.98	-13.00	-37.98
93.05	48.54	V	-55.65	-7.75	1.18	-64.58	-13.00	-51.58
152.22	40.20	V	-57.61	-7.80	1.47	-66.88	-13.00	-53.88
297.72	41.98	V	-57.65	-7.92	1.99	-67.55	-13.00	-54.55
403.45	40.41	V	-55.55	-7.66	2.42	-65.64	-13.00	-52.64
1673.20	47.80	V	-59.23	9.36	5.10	-54.97	-13.00	-41.97
2509.80	---	V		10.09	6.35		-13.00	
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 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

Operation Mode	: TX CH Mid E2 Mode	Test Date:	May.10,2008
Fundamental Frequency	: 836.60 MHz	Test By:	Duka
Temperature	: 25℃	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)
62.01	50.30	H	-61.12	-0.58	0.96	-62.66	-13.00	-49.66
102.75	47.53	H	-55.42	-7.76	1.23	-64.41	-13.00	-51.41
127.00	43.64	H	-57.07	-7.78	1.35	-66.20	-13.00	-53.20
246.31	40.72	H	-60.25	-7.89	1.95	-70.09	-13.00	-57.09
297.72	40.43	H	-59.24	-7.92	1.99	-69.14	-13.00	-56.14
1673.20	48.54	H	-58.46	9.36	5.10	-54.19	-13.00	-41.19
2509.80	---	H		10.09	6.35		-13.00	
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

Operation Mode	: TX CH High E2 Mode	Test Date:	May.10,2008
Fundamental Frequency	: 848.80 MHz	Test By:	Duka
Temperature	: 25℃	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)
49.40	56.60	V	-50.09	-0.72	0.89	-51.71	-13.00	-38.71
93.05	48.84	V	-55.35	-7.75	1.18	-64.28	-13.00	-51.28
246.31	40.23	V	-60.57	-7.89	1.95	-70.41	-13.00	-57.41
297.72	42.32	V	-57.31	-7.92	1.99	-67.21	-13.00	-54.21
351.07	40.24	V	-57.66	-7.64	2.48	-67.78	-13.00	-54.78
850.00	75.74	V	-10.97	-7.88	3.75	-22.60	-13.00	-9.60
1697.60	40.42	V	-66.60	9.44	5.14	-62.31	-13.00	-49.31
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

Operation Mode	: TX CH High E2 Mode	Test Date:	May.10,2008
Fundamental Frequency	: 848.80 MHz	Test By:	Duka
Temperature	: 25℃	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)
59.10	50.91	H	-59.92	-0.47	0.94	-61.33	-13.00	-48.33
93.05	49.04	H	-54.51	-7.75	1.18	-63.44	-13.00	-50.44
132.82	43.38	H	-56.79	-7.79	1.38	-65.96	-13.00	-52.96
246.31	40.90	H	-60.07	-7.89	1.95	-69.91	-13.00	-56.91
297.72	40.30	H	-59.37	-7.92	1.99	-69.27	-13.00	-56.27
850.00	81.61	H	-5.38	-7.88	3.75	-17.01	-13.00	-4.01
1697.60	45.02	H	-61.96	9.44	5.14	-57.67	-13.00	-44.67
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

Operation Mode	: TX CH Low E1 Mode	Test Date	May.10,2008
Fundamental Frequency	: 1850.20MHz	Test By:	Duka
Temperature	: 25℃	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)
36.79	50.32	V	-52.41	-4.16	0.75	-57.32	-13.00	-44.32
51.34	44.09	V	-63.49	-0.58	0.91	-64.97	-13.00	-51.97
145.43	47.42	V	-50.75	-7.80	1.44	-59.99	-13.00	-46.99
276.38	35.22	V	-64.89	-7.91	1.99	-74.78	-13.00	-61.78
426.73	33.34	V	-61.95	-7.68	2.49	-72.12	-13.00	-59.12
1850.00	81.96	V	-25.00	9.90	5.41	-20.51	-13.00	-7.51
3700.40	42.92	V	-58.66	12.61	7.73	-53.78	-13.00	-40.78
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

Operation Mode	: TX CH Low E1 Mode	Test Date	May.10,2008
Fundamental Frequency	: 1850.20MHz	Test By:	Duka
Temperature	: 25℃	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)
36.79	45.56	H	-58.24	-4.16	0.75	-63.14	-13.00	-50.14
51.34	41.46	H	-66.19	-0.58	0.91	-67.68	-13.00	-54.68
126.03	41.74	H	-59.05	-7.78	1.35	-68.18	-13.00	-55.18
276.38	34.62	H	-65.60	-7.91	1.99	-75.49	-13.00	-62.49
450.98	33.06	H	-62.31	-7.70	2.57	-72.58	-13.00	-59.58
1850.00	82.31	H	-24.58	9.90	5.41	-20.09	-13.00	-7.09
3700.40	43.43	H	-57.93	12.61	7.73	-53.05	-13.00	-40.05
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

Operation Mode	: TX CH Mid E1 Mode	Test Date	May.10,2008
Fundamental Frequency	: 1880MHz	Test By	Duka
Temperature	: 25℃	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)
36.79	50.48	V	-52.25	-4.16	0.75	-57.16	-13.00	-44.16
51.34	45.46	V	-62.12	-0.58	0.91	-63.60	-13.00	-50.60
101.78	38.84	V	-64.64	-7.76	1.23	-73.63	-13.00	-60.63
140.58	40.51	V	-58.25	-7.79	1.42	-67.46	-13.00	-54.46
252.13	33.85	V	-66.80	-7.89	1.99	-76.68	-13.00	-63.68
3760.00	42.47	V	-58.83	12.60	7.82	-54.05	-13.00	-41.05
5640.00	---	V		13.36	9.73		-13.00	
5634.00	---	V		13.35	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

Operation Mode	: TX CH Mid E1 Mode	Test Date	May.10,2008
Fundamental Frequency	: 1880MHz	Test By	Duka
Temperature	: 25℃	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)
36.79	47.12	H	-56.68	-4.16	0.75	-61.58	-13.00	-48.58
51.34	43.47	H	-64.18	-0.58	0.91	-65.67	-13.00	-52.67
62.98	39.72	H	-71.81	-0.64	0.96	-73.42	-13.00	-60.42
140.58	40.69	H	-58.76	-7.79	1.42	-67.97	-13.00	-54.97
426.73	32.98	H	-62.86	-7.68	2.49	-73.03	-13.00	-60.03
3760.00	45.75	H	-55.36	12.60	7.82	-50.57	-13.00	-37.57
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

Operation Mode	: TX CH High E1 Mode	Test Date	May.10,2008
Fundamental Frequency	: 1909.8 MHz	Test By	Duka
Temperature	: 25℃	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)
36.79	50.59	V	-52.14	-4.16	0.75	-57.05	-13.00	-44.05
51.34	45.61	V	-61.97	-0.58	0.91	-63.45	-13.00	-50.45
75.59	41.36	V	-70.16	-1.85	1.05	-73.07	-13.00	-60.07
138.64	40.89	V	-58.10	-7.79	1.41	-67.30	-13.00	-54.30
276.38	34.53	V	-65.58	-7.91	1.99	-75.47	-13.00	-62.47
1910.00	84.97	V	-21.97	10.08	5.51	-17.40	-13.00	-4.40
3819.60	43.21	V	-57.82	12.60	7.92	-53.13	-13.00	-40.13
5729.40	---	V		13.49	9.78		-13.00	
7639.20	---	V		11.40	11.48		-13.00	
9549.00	---	V		11.95	13.22		-13.00	
11458.80	---	V		12.17	14.79		-13.00	
13368.60	---	V		12.97	16.22		-13.00	
15278.40	---	V		15.00	17.88		-13.00	
17188.20	---	V		14.47	19.75		-13.00	
19098.00	---	V		18.66	21.36		-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 High E1 Mode	Test Date	May.10,2008
Fundamental Frequency	: 1909.8 MHz	Test By	Duka
Temperature	: 25℃	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)
36.79	48.15	H	-55.65	-4.16	0.75	-60.55	-13.00	-47.55
51.34	43.20	H	-64.45	-0.58	0.91	-65.94	-13.00	-52.94
138.64	41.50	H	-58.13	-7.79	1.41	-67.33	-13.00	-54.33
276.38	34.90	H	-65.32	-7.91	1.99	-75.21	-13.00	-62.21
327.79	33.36	H	-64.89	-7.76	2.26	-74.92	-13.00	-61.92
1910.00	81.04	H	-25.81	10.08	5.51	-21.25	-13.00	-8.25
3819.60	45.06	H	-55.80	12.60	7.92	-51.11	-13.00	-38.11
5729.40	---	H		13.49	9.78		-13.00	
7639.20	---	H		11.40	11.48		-13.00	
9549.00	---	H		11.95	13.22		-13.00	
11458.80	---	H		12.17	14.79		-13.00	
13368.60	---	H		12.97	16.22		-13.00	
15278.40	---	H		15.00	17.88		-13.00	
17188.20	---	H		14.47	19.75		-13.00	
19098.00	---	H		18.66	21.36		-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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10.10 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

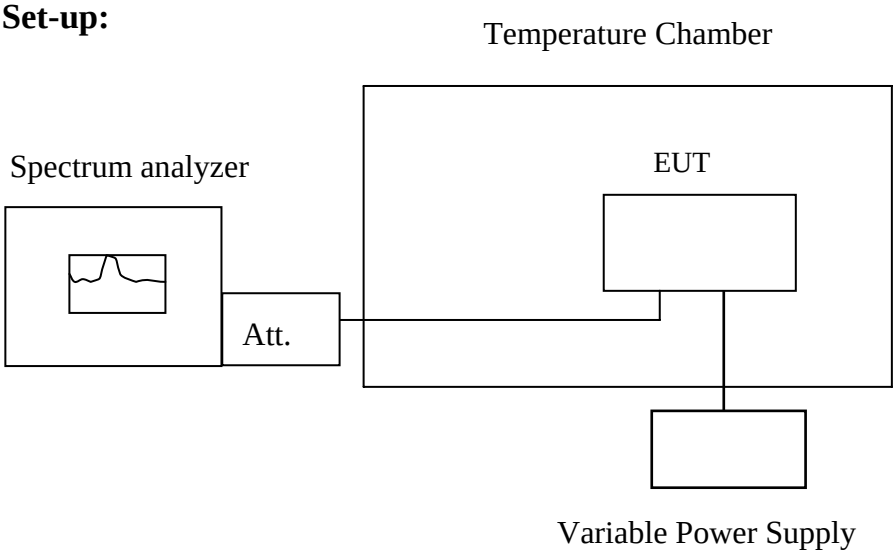
10.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: +/-0.1 ppm for 850MHz band

+/-0.04 ppm for 1900MHz band

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^{o}C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –30^{o}C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10^{o}C increased per stage until the highest temperature of +50^{o}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	7405A	US41160416	06/28/2008	06/29/2009
Power Sensor	Anritsu	MA2490A	31431	06/28/2008	06/29/2009
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2008	06/29/2009
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Agilent	11636B	51728	09/23/20070	9/22/2008
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℃				
Limit: +/- 0.1 ppm = 83.6 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	-30	836.600014	-15.00	83.6
3.7	-20	836.600009	-10.00	83.6
3.7	-10	836.600023	-24.00	83.6
3.7	0	836.599998	1.00	83.6
3.7	10	836.599974	25.00	83.6
3.7	20	836.599999	0.00	83.6
3.7	30	836.600002	-3.00	83.6
3.7	40	836.599986	13.00	83.6
3.7	50	836.600007	-8.00	83.6

Reference Frequency: PCS Mid Channel 1880 MHz @ 25℃				
Limit: +/- 0.04 ppm = 75.2 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
3.7	-30	1879.999948	35.00	75.2
3.7	-20	1879.999932	51.00	75.2
3.7	-10	1879.999956	27.00	75.2
3.7	0	1879.999919	64.00	75.2
3.7	10	1879.999951	32.00	75.2
3.7	20	1879.999983	0.00	75.2
3.7	30	1879.999914	69.00	75.2
3.7	40	1879.999911	72.00	75.2
3.7	50	1879.999994	-11.00	75.2

Note: The battery is rated 3.7V dc.

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11 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

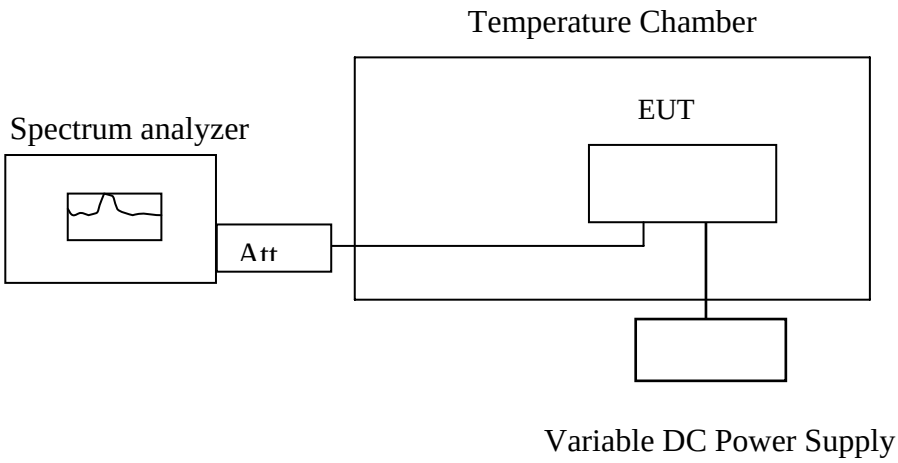
11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: +/-0.1ppm for 850MHz band

+/-0.04ppm 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℃. 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	7405A	US41160416	06/28/2008	06/29/2009
Power Sensor	Anritsu	MA2490A	31431	06/28/2008	06/29/2009
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2008	06/29/2009
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2007	11/12/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2007	10/06/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2007	10/06/2008
Splitter	Agilent	11636B	51728	09/23/20070	9/22/2008
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℃				
Limit: +/- 0.1 ppm = 83.6 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.20	25.00	836.600008	0.00	83.6
3.70	25.00	836.599989	19.00	83.6
3.10	25.00	836.600009	-1.00	83.6
2.90 (End Point)	25.00	836.599984	24.00	83.6

Reference Frequency: PCS Mid Channel 1880 MHz @ 25℃				
Limit: +/- 0.04 ppm = 75.2 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (℃)	(MHz)		
4.20	25	1879.999945	0.00	75.2
3.70	25	1879.999973	-28.00	75.2
3.10	25	1879.999931	14.00	75.2
2.90 (Endpoint)	25	1879.999904	41.00	75.2

Note: The battery is rated 3.7V dc.

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12 AC POWER LINE CONDUCTED EMISSION TEST

12.1 Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

12.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in DC power 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	06/08/2009
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	12/24/2007	12/23/2008
LISN	FCC	50/250-25-2-01	04034	01/24/2008	01/23/2009
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2007	12/23/2008

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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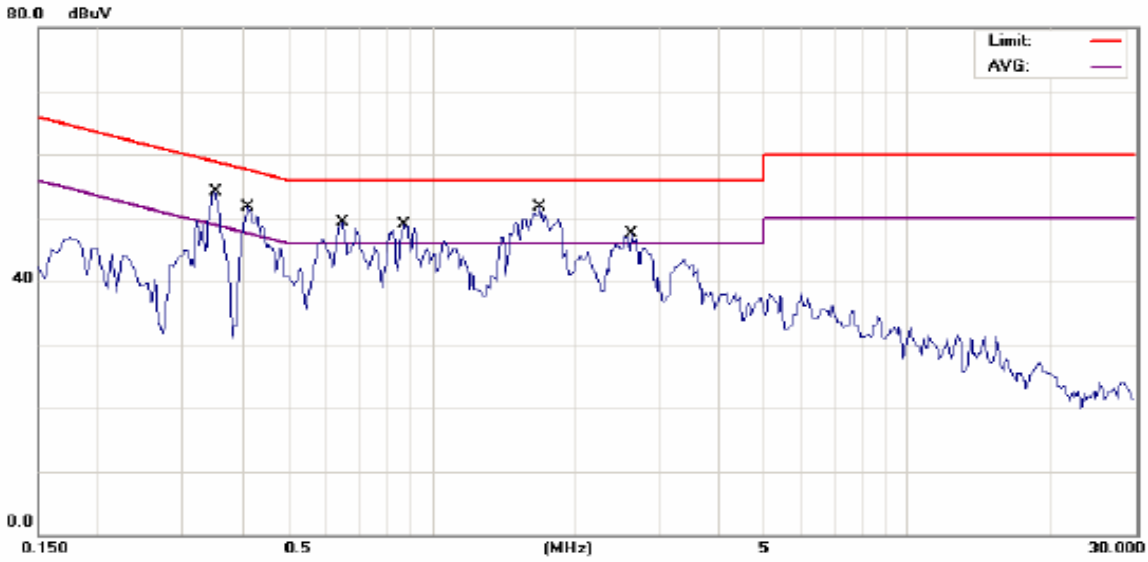
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK			Test Date:	May.14,2008
Temperature:	25 ℃	Humidity:	62%	Test By:	Duka
Adaptor:	T5002684AGAB				



Site SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: Mobile Phone
M/N: OT-S211A
Note: GSM 850 LINK

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

Temperature: 26 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.3500	51.80	0.11	51.91	58.96	-7.05	QP	
2		0.3500	41.70	0.11	41.81	48.96	-7.15	AVG	
3		0.4100	50.10	0.09	50.19	57.65	-7.46	QP	
4		0.4100	38.90	0.09	38.99	47.65	-8.66	AVG	
5		0.6500	47.30	0.05	47.35	56.00	-8.65	QP	
6		0.6500	32.90	0.05	32.95	46.00	-13.05	AVG	
7		0.8750	47.30	0.04	47.34	56.00	-8.66	QP	
8		0.8750	32.80	0.04	32.84	46.00	-13.16	AVG	
9		1.6850	46.50	0.04	46.54	56.00	-9.46	QP	
10		1.6850	30.40	0.04	30.44	46.00	-15.56	AVG	
11		2.6300	43.70	0.04	43.74	56.00	-12.26	QP	
12		2.6300	27.80	0.04	27.84	46.00	-18.16	AVG	

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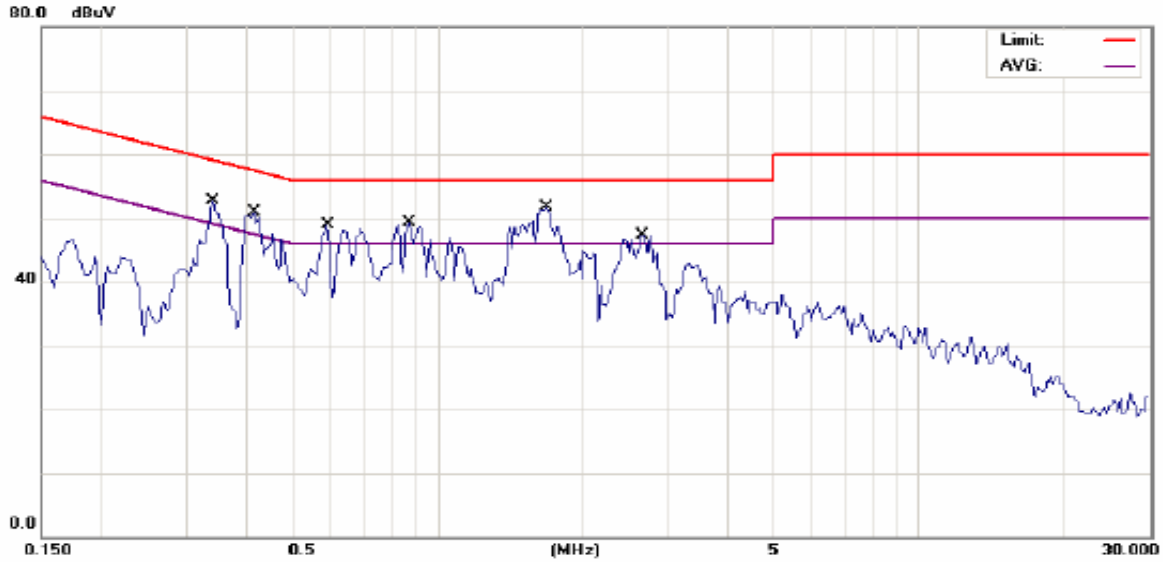

Site SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: Mobile Phone
M/N: OT-S211A
Note: GSM 850 LINK

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

Temperature: 26 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3400	48.90	0.10	49.00	59.20	-10.20	QP	
2		0.3400	36.90	0.10	37.00	49.20	-12.20	AVG	
3		0.4150	46.80	0.08	46.88	57.55	-10.67	QP	
4		0.4150	27.40	0.08	27.48	47.55	-20.07	AVG	
5		0.5900	44.30	0.05	44.35	56.00	-11.65	QP	
6		0.5900	23.40	0.05	23.45	46.00	-22.55	AVG	
7	*	0.8750	47.40	0.04	47.44	56.00	-8.56	QP	
8		0.8750	28.90	0.04	28.94	46.00	-17.06	AVG	
9		1.6850	46.90	0.03	46.93	56.00	-9.07	QP	
10		1.6850	28.40	0.03	28.43	46.00	-17.57	AVG	
11		2.6600	42.60	0.03	42.63	56.00	-13.37	QP	
12		2.6600	24.70	0.03	24.73	46.00	-21.27	AVG	

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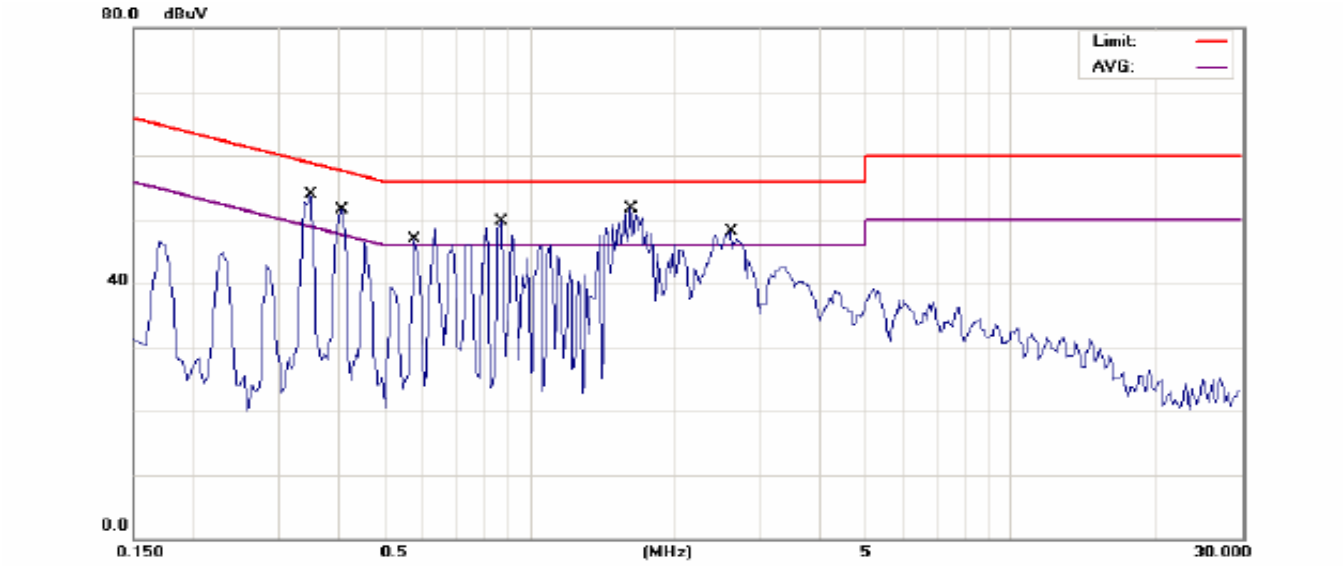
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 LINK			Test Date:	May.14,2008
Temperature:	25 ℃	Humidity:	62%	Test By:	Duka
Adaptor:	T5002684AGAB				



Site SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: Mobile Phone
M/N: OT-S211A
Note: GSM 1900 LINK

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

Temperature: 26 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3500	45.60	0.11	45.71	58.96	-13.25	QP	
2		0.3500	31.00	0.11	31.11	48.96	-17.85	AVG	
3		0.4050	43.80	0.09	43.89	57.75	-13.86	QP	
4		0.4050	29.50	0.09	29.59	47.75	-18.16	AVG	
5		0.5750	41.80	0.06	41.86	56.00	-14.14	QP	
6		0.5750	26.50	0.06	26.56	46.00	-19.44	AVG	
7	*	0.8750	47.50	0.04	47.54	56.00	-8.46	QP	
8		0.8750	32.30	0.04	32.34	46.00	-13.66	AVG	
9		1.6250	40.20	0.04	40.24	56.00	-15.76	QP	
10		1.6250	25.60	0.04	25.64	46.00	-20.36	AVG	
11		2.6150	37.50	0.04	37.54	56.00	-18.46	QP	
12		2.6150	25.50	0.04	25.54	46.00	-20.46	AVG	

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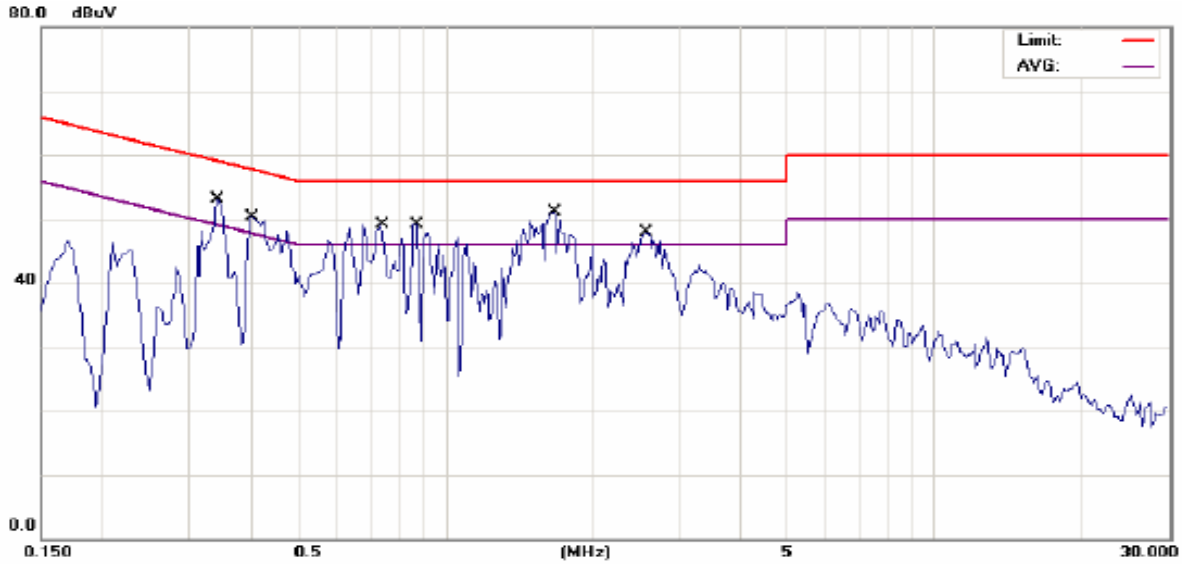

Site SGS CONDUCTED #1
Limit: CISPR22/11 Class B Conduction(QP)
EUT: Mobile Phone
M/N: OT-S211A
Note: GSM 1900 LINK

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

Temperature: 26 ℃
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3400	50.00	0.10	50.10	59.20	-9.10	QP	
2		0.3400	38.50	0.10	38.60	49.20	-10.60	AVG	
3		0.4000	47.50	0.08	47.58	57.85	-10.27	QP	
4		0.4000	32.50	0.08	32.58	47.85	-15.27	AVG	
5		0.7400	44.21	0.04	44.25	56.00	-11.75	QP	
6		0.7400	24.50	0.04	24.54	46.00	-21.46	AVG	
7		0.8750	45.50	0.04	45.54	56.00	-10.46	QP	
8		0.8750	25.40	0.04	25.44	46.00	-20.56	AVG	
9	*	1.6700	47.60	0.03	47.63	56.00	-8.37	QP	
10		1.6700	30.20	0.03	30.23	46.00	-15.77	AVG	
11		2.5700	43.20	0.03	43.23	56.00	-12.77	QP	
12		2.5700	25.50	0.03	25.53	46.00	-20.47	AVG	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 850 LINK			Test Date:	May.14,2008
Temperature:	25 ℃	Humidity:	62%	Test By:	Duka
Adaptor:	T5002684AGAA				

Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone
M/N: OT-S211A
Note: GSM 850 LINK

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

Temperature: 25 ℃
Humidity: 57 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1800	34.42	0.26	34.68	64.49	-29.81	QP	
2		0.2250	33.15	0.15	33.30	62.63	-29.33	QP	
3		0.3150	33.09	0.12	33.21	59.84	-26.63	QP	
4		0.4550	34.70	0.07	34.77	56.78	-22.01	QP	
5		1.4450	35.31	0.04	35.35	56.00	-20.65	QP	
6	*	2.9150	40.24	0.04	40.28	56.00	-15.72	QP	

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Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone
M/N: OT-S211A
Note: GSM 850 LINK

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

Temperature: 25 ℃
Humidity: 57 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1800	35.96	0.24	36.20	64.49	-28.29	QP	
2		0.2300	34.75	0.13	34.88	62.45	-27.57	QP	
3		0.4450	35.32	0.07	35.39	56.97	-21.58	QP	
4		0.6200	37.34	0.05	37.39	56.00	-18.61	QP	
5		1.5450	35.88	0.03	35.91	56.00	-20.09	QP	
6	*	2.8400	40.89	0.03	40.92	56.00	-15.08	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 LINK			Test Date:	May.14,2008
Temperature:	25 ℃	Humidity:	62%	Test By:	Duka
Adaptor:	T5002684AGAA				

Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone
M/N: OT-S211A
Note: GSM 1900 LINK

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

Temperature: 25 ℃
Humidity: 57 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1800	41.24	0.26	41.50	64.49	-22.99	QP	
2		0.2250	37.42	0.15	37.57	62.63	-25.06	QP	
3		0.3100	36.14	0.12	36.26	59.97	-23.71	QP	
4		0.6050	36.20	0.06	36.26	56.00	-19.74	QP	
5	*	2.9450	40.49	0.04	40.53	56.00	-15.47	QP	
6		10.4400	28.14	0.10	28.24	60.00	-31.76	QP	

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Site SGS CONDUCTED #1
Limit: CISPR22 Class B Conduction(QP)
EUT: Mobile Phone
M/N: OT-S211A
Note: GSM 1900 LINK

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

Temperature: 25 ℃
Humidity: 57 %
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1800	32.95	0.24	33.19	64.49	-31.30	QP	
2		0.2250	32.24	0.13	32.37	62.63	-30.26	QP	
3		0.4850	32.99	0.05	33.04	56.25	-23.21	QP	
4		1.5200	33.62	0.03	33.65	56.00	-22.35	QP	
5	*	2.5700	38.01	0.03	38.04	56.00	-17.96	QP	
6		9.0800	26.90	0.19	27.09	60.00	-32.91	QP	

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