

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 24 SUBPART E REQUIREMENT

OF

**Product Name:** Arima 2717

**Brand Name:** Arima

**Model Name:** 2717

**FCC ID:** PJO-KMP6J1CR

**Report No.:** EH/2006/40004

**Issue Date:** May 19, 2006

**FCC Rule Part:** 2 & 24E

**Prepared for** ARIMA COMMUNICATIONS CORP.

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## VERIFICATION OF COMPLIANCE

**Applicant:** ARIMA COMMUNICATIONS CORP.  
No.16, Lane 658, Ying Tao Road, Yingko, Taipei Hsien, Taiwan, R.O.C.

**Equipment Under Test:** Arima 2717

**FCC ID Number:** PJO-KMP6J1CR

**Brand Name:** Arima

**Model No.:** 2717

**Model Difference:** N/A

**File Number:** EH/2006/40004

**Date of test:** Apr. 21, 2006 ~ May 17, 2006

**Date of EUT Received:** Apr. 19, 2006

**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-603-1-1998 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 24 subpart E.

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

**Test By:**

Alex Hsieh

**Date**

May 19, 2006

Alex Hsieh

**Prepared By:**

Eva Kao

**Date**

May 19, 2006

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**Approved By**

Vincent Su

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May 19, 2006

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## Version

Version No.	Date
00	May 19, 2006

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## 1. GENERAL INFORMATION

### 1.1 Product Description

Product	Arima 2717	
Model Name	2717	
Model Difference:	N/A	
Trade Name	Arima 2717	
Power Supply	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter	
	Model:	P925BW05050AB1J, Supplier: PI

#### GSM:

Frequency Range and Power	GSM 1900: 1850MHz –1910MHz	30 dBm
Type of Emission	300KGXW	
Software Version	NAP1L	
Hardware Version	P1G	
IMEI	351578 01577095-6-07	

#### Bluetooth:

Frequency Range	2402 – 2480MHz
Channel number	79 channels
Rated Power	2.09 dBm
Modulation type	Frequency Hopping Spread Spectrum (FHSS)
Antenna Designation	Chip Antenna, 4 dBi

The EUT is compliance with Bluetooth Standard.

## 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **PJO-KMP6J1CR** filing to comply with Section Part 24 subpart E of the FCC CFR 47 Rules.

## 1.3 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 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

## 1.4 Test Facility

The open area test site and conducted measurement facility used to collect the radiated data is located on the address of SGS Taiwan Ltd. No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 and CISPR 22/EN 55022 requirements. Site No. 1(3 & 10 meters) Registration Number: 94644, Both OATS and Anechoic chamber (3 meters) was accredited by CNLA (0513).

## 1.5 Special Accessories

Not available for this EUT intended for grant.

## 1.6 Equipment Modifications

Not available for this EUT intended for grant.

## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

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

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 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 in Section 8 and 13 of ANSI C63.4-2003.



## 2.4 Configuration of Tested System

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

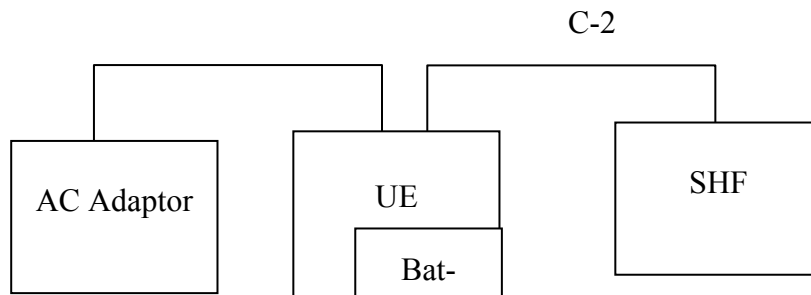
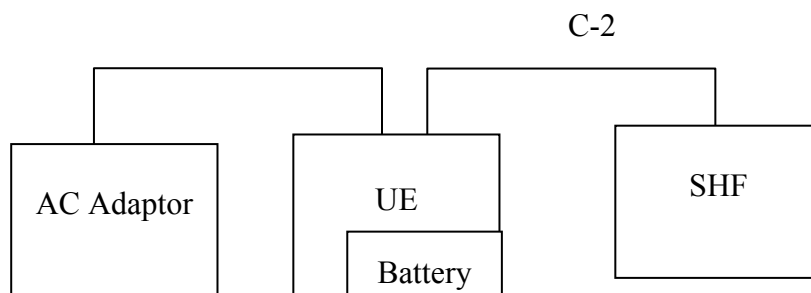


Fig. 2-2 Configuration of Tested System (AC Power Line Emission)



### Remote Side



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	UE	Arima	2717	N/A	N/A	N/A
2	AC Adaptor	PI	P925BW05050AB1J	N/A	N/A	Un-shielded
3	Battery	Sanyo	1UF463450F-ARCC-2	N/A	N/A	N/A
4	Earphone	Viking Design Tech	EE-610-51EN	N/A	N/A	Un-shielded
5	Universal Radio Communication Tester	R&S	CMU200	102189	shielded	Un-shielded
6	BT Earphone	BlueExpert	BES102	N/A	N/A	N/A

### 3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a) §24.232(a)	RF Power Output	Compliant
§2.1046(a) §24.232(a)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% Occupied Bandwidth	Compliant
§2.1051 §24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §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 stand-up position (H mode) and lie down position (E1, E2 mode) for both GSM and GPRS with all power adaptors, earphone and Data cable. The worst-case E2 mode for GSM 1900 band with earphone mode for channel Low, Mid and High at GSM mode was reported.

The field strength of co-located spurious radiation emission was measured as worst case of EUT at E2 position at 1900 channel low and High with BT at channel Mid mode was reported.

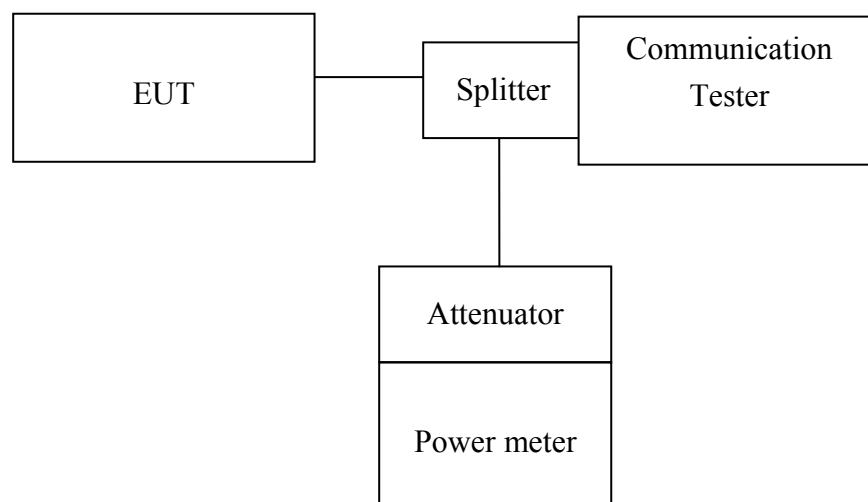
## 5. RF POWER OUTPUT MEASUREMENT

### 5.1 Standard Applicable

According to FCC §2.1046.

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.

## 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	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2005	11/12/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2005	10/06/2006
Signal Generator	R&S	SMR40	100210	11/09/2005	11/10/2006
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007

## 5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	CMU200 Reading (dBm)	Offset (dB)	Average Power (dBm)
PCS 1900	1850.20	512	11.92	17.00	28.92
	1880.00	661	12.26	17.00	29.26
	1909.80	810	11.84	17.00	28.84

## 6. ERP, EIRP MEASUREMENT

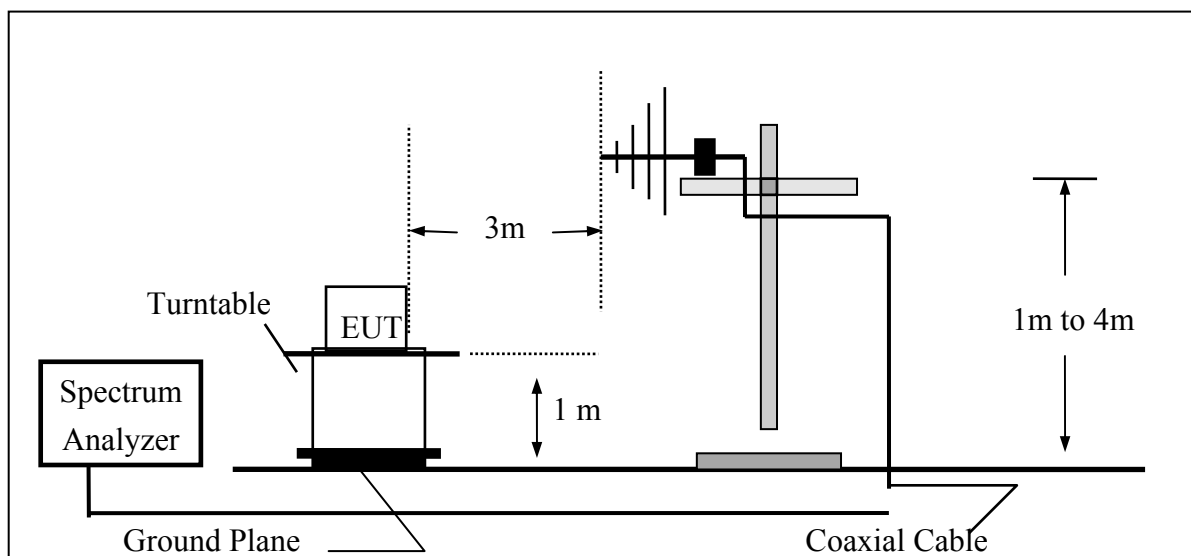
### 6.1 Standard Applicable

According to FCC §2.1046

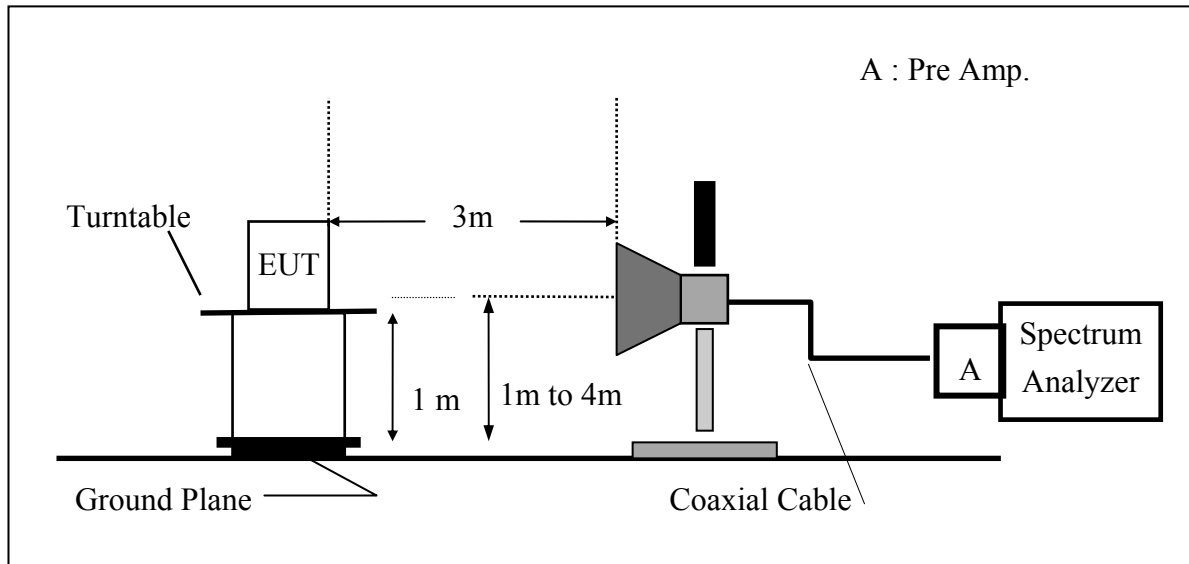
FCC 24.232(b) Mobile station are limited to 2W EIRP.

### 6.2 Test SET-UP (Block Diagram of Configuration)

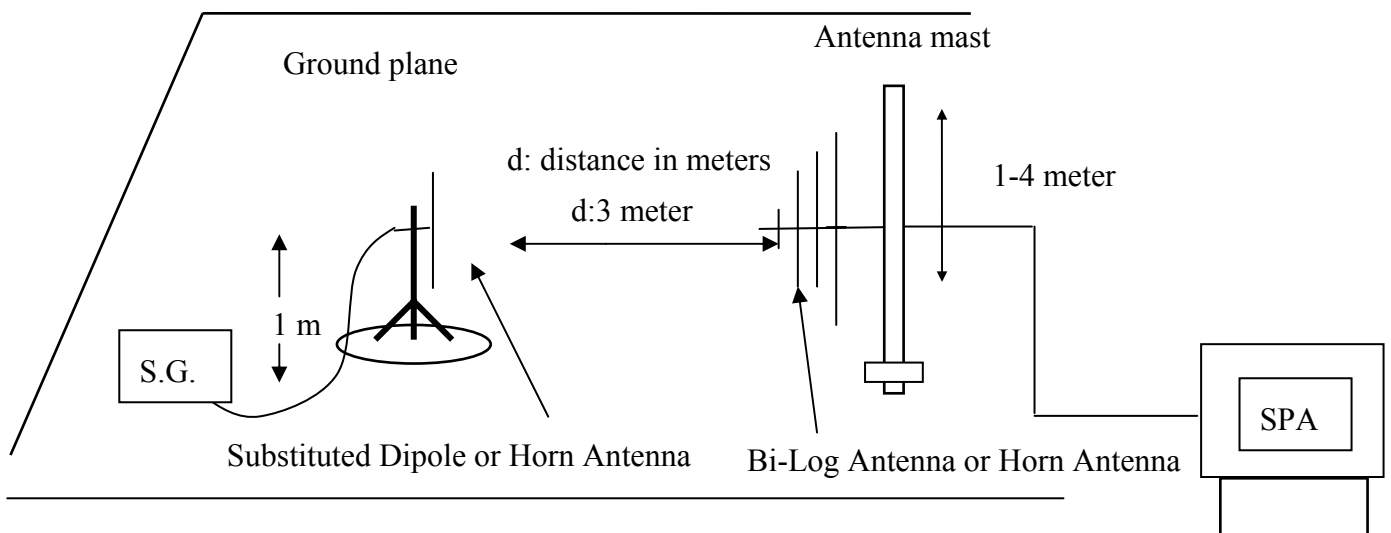
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



## (C) Substituted Method Test Set-UP



### 6.3 Measurement Procedure

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

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

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

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



#### 6.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2005	08/26/2006
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2005	06/02/2006
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2005	08/15/2006
Pre-Amplifier	HP	8447D	2944A09469	07/19/2005	07/18/2006
Pre-Amplifier	HP	8449B	3008A00578	02/26/2006	02/25/2007
Signal Generator	R&S	SMR40	100210	02/09/2006	02/10/2007
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	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2005	10/08/2006
Site NSA	SGS	966 chamber	N/A	11/17/2005	11/16/2006
Site NSA	SGS	10m Open-Site	N/A	10/02/2005	10/01/2006
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2005	10/13/2006
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2005	06/11/2006
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2005	06/11/2006
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2005	08/15/2006

## 6.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	EUT Pol.	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	H	V	127.23	20.27	9.90	5.41	24.76	33.00
				H	129.55	22.66	9.90	5.41	27.15	33.00
			E1	V	127.26	20.30	9.90	5.41	24.79	33.00
				H	128.93	22.04	9.90	5.41	26.53	33.00
			E2	V	131.94	24.98	9.90	5.41	29.47	33.00
				H	127.15	26.77	9.90	5.84	30.83	33.00
	1880.00	661	H	V	127.04	20.09	9.99	5.46	24.62	33.00
				H	129.06	22.19	9.99	5.46	26.72	33.00
			E1	V	128.10	21.15	9.99	5.46	25.68	33.00
				H	127.84	20.97	9.99	5.46	25.50	33.00
			E2	V	128.31	21.36	9.99	5.46	25.89	33.00
				H	132.37	25.50	9.99	5.46	30.03	33.00
	1909.80	810	H	V	128.02	21.08	10.08	5.51	25.65	33.00
				H	129.88	23.03	10.08	5.51	27.59	33.00
			E1	V	127.77	20.83	10.08	5.51	25.40	33.00
				H	126.53	19.68	10.08	5.51	24.24	33.00
			E2	V	128.07	21.13	10.08	5.51	25.70	33.00
				H	131.73	24.88	10.08	5.51	29.44	33.00

### Remark :

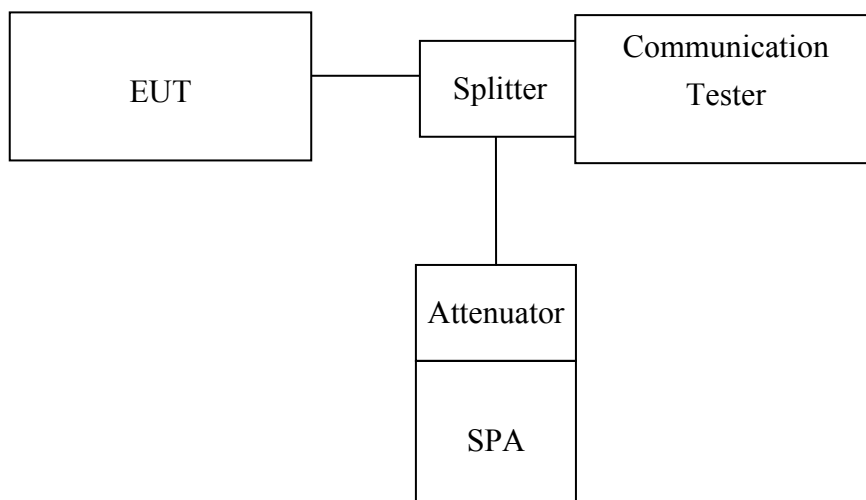
- The RBW,VBW of SPA for frequency  
Below 1GHz was RBW=100 KHz, VBW=300KHz,  
Above 1GHz was RBW= 1MHz , VBW= 3MHz

## 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.

#### 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	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2005	11/12/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2005	10/06/2006
Signal Generator	R&S	SMR40	100210	11/09/2005	11/10/2006
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007

#### 7.5 Measurement Result:.

EUT Mode	Frequency (MHz)	CH	99% Bandwidth (MHz)
PCS 1900	1850.20	512	0.235539
	1880.00	661	0.239756
	1909.80	810	0.237115

Figure 7-1: PCS Channel Low

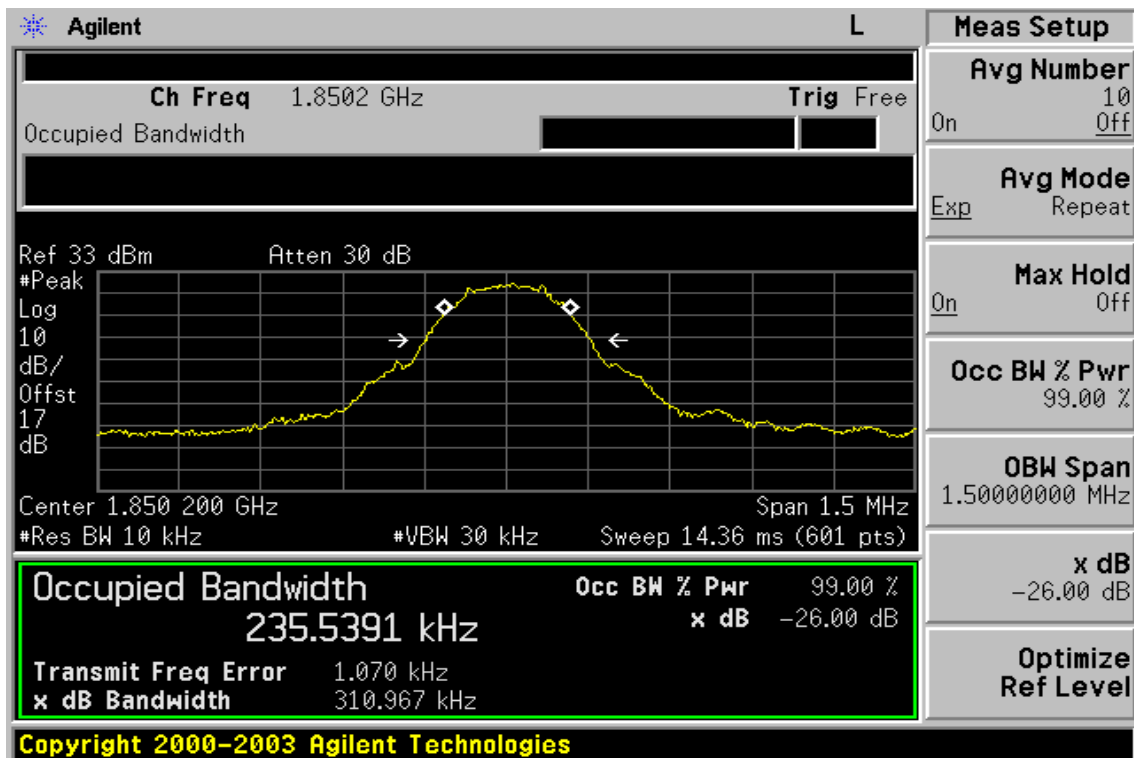


Figure 7-2 PCS Channel Mid

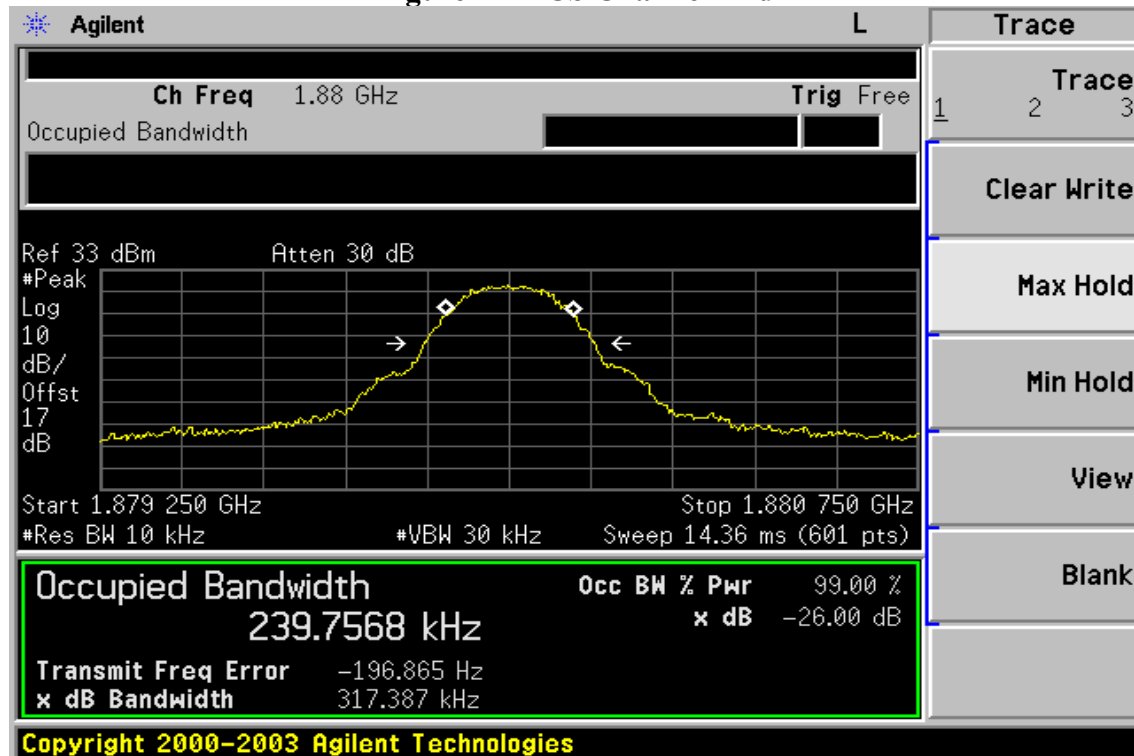
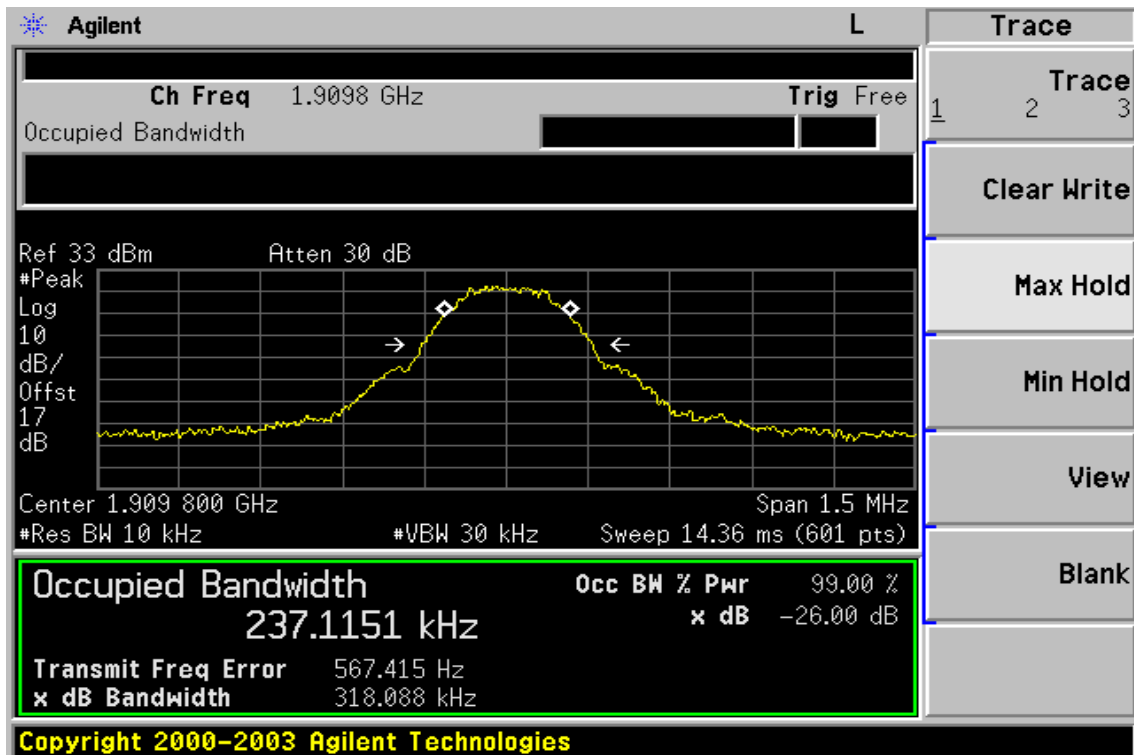


Figure 7-3: PCS Channel High



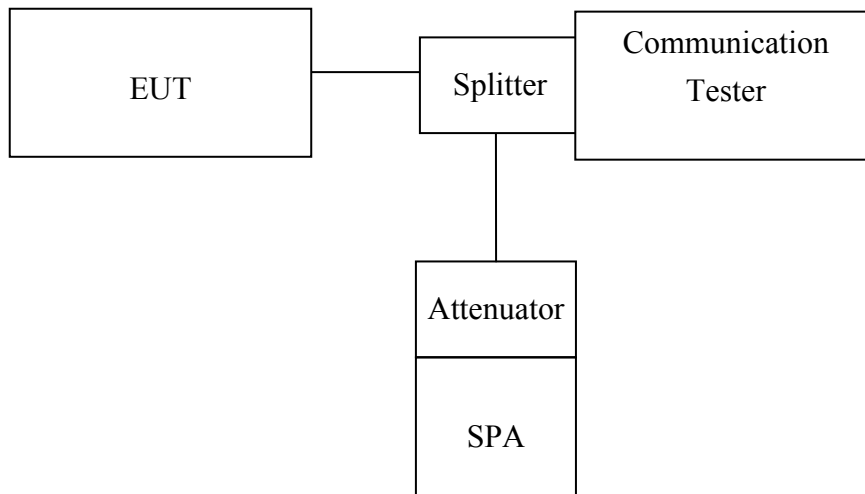
## 8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 8.1 Standard Applicable

According to FCC §2.1051.

FCC §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.

#### 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	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2005	11/12/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2005	10/06/2006
Signal Generator	R&S	SMR40	100210	11/09/2005	11/10/2006
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007



## 8.5 Measurement Result

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

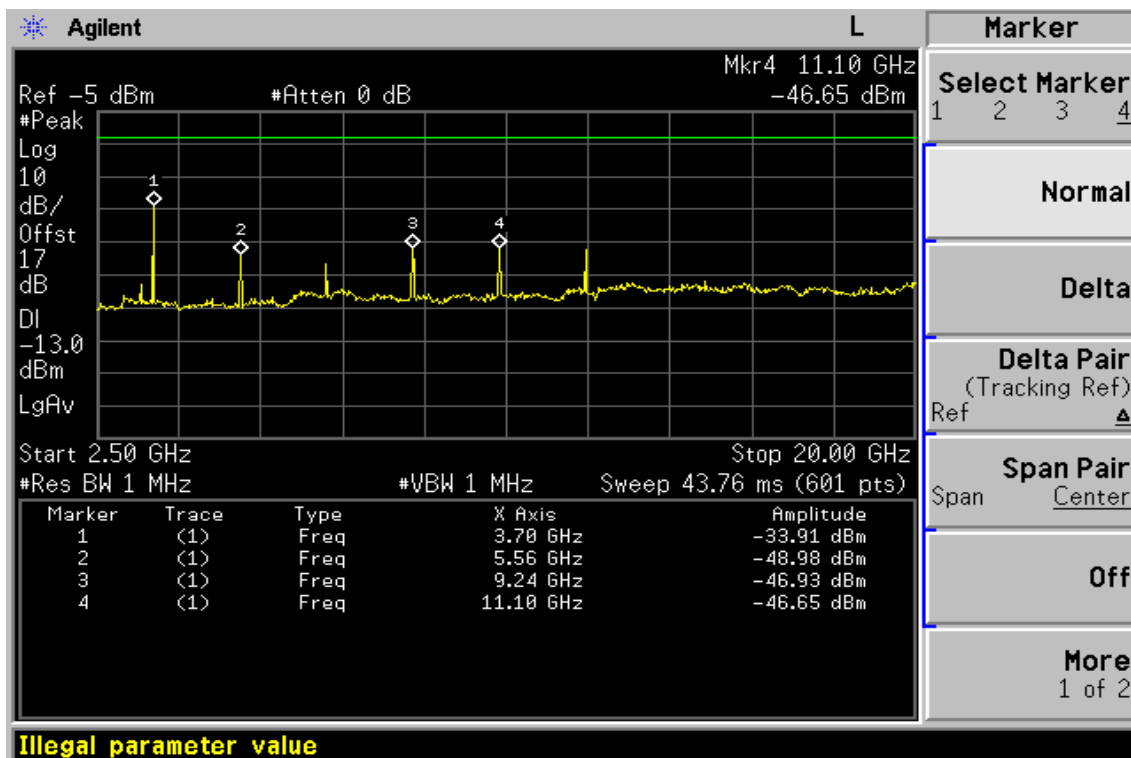
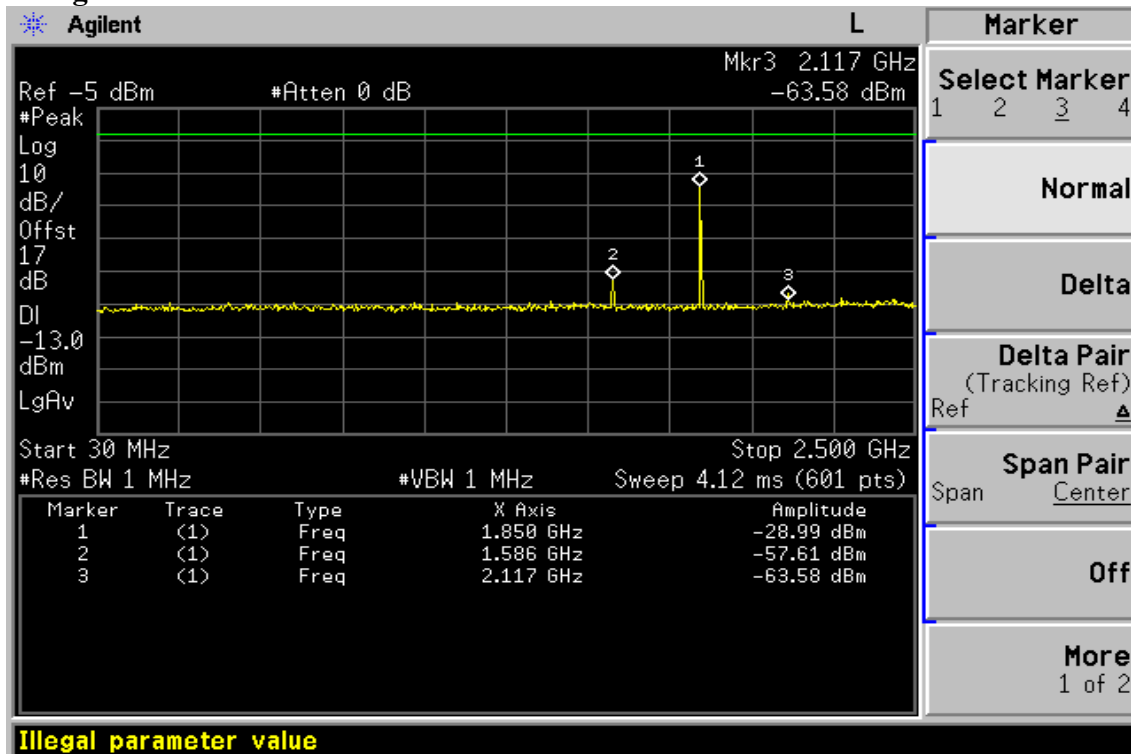


Figure 8-2: Out of Band emission at antenna terminals –PCS Channel Mid

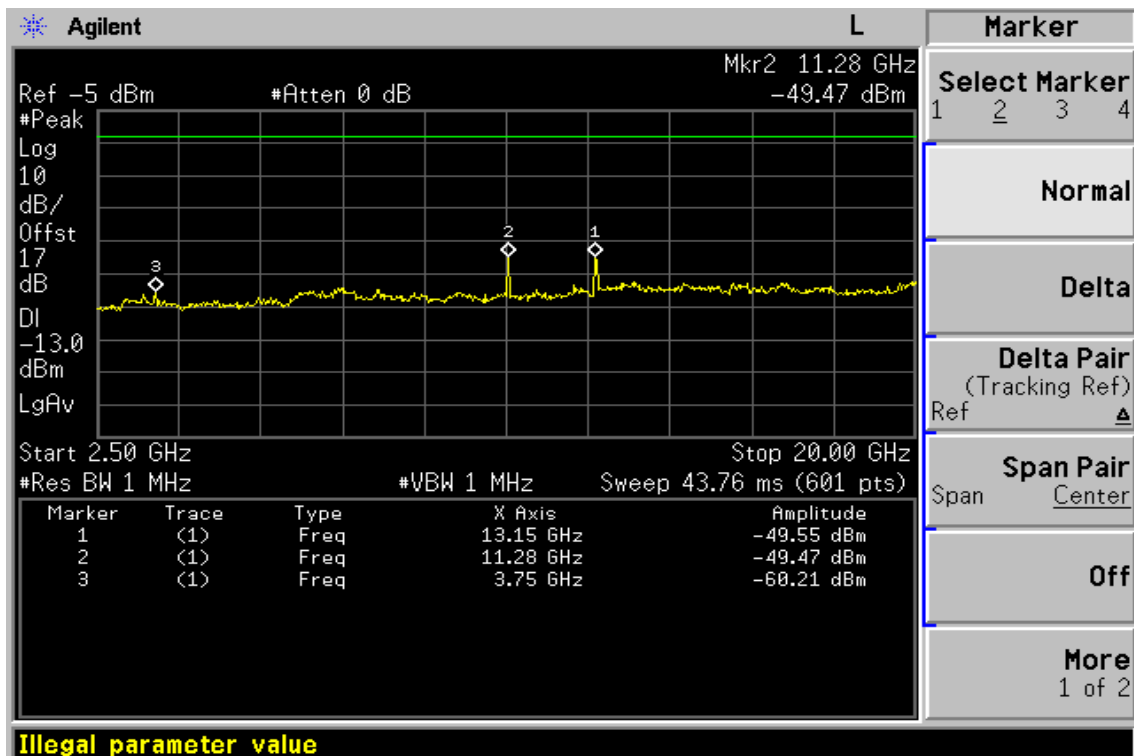
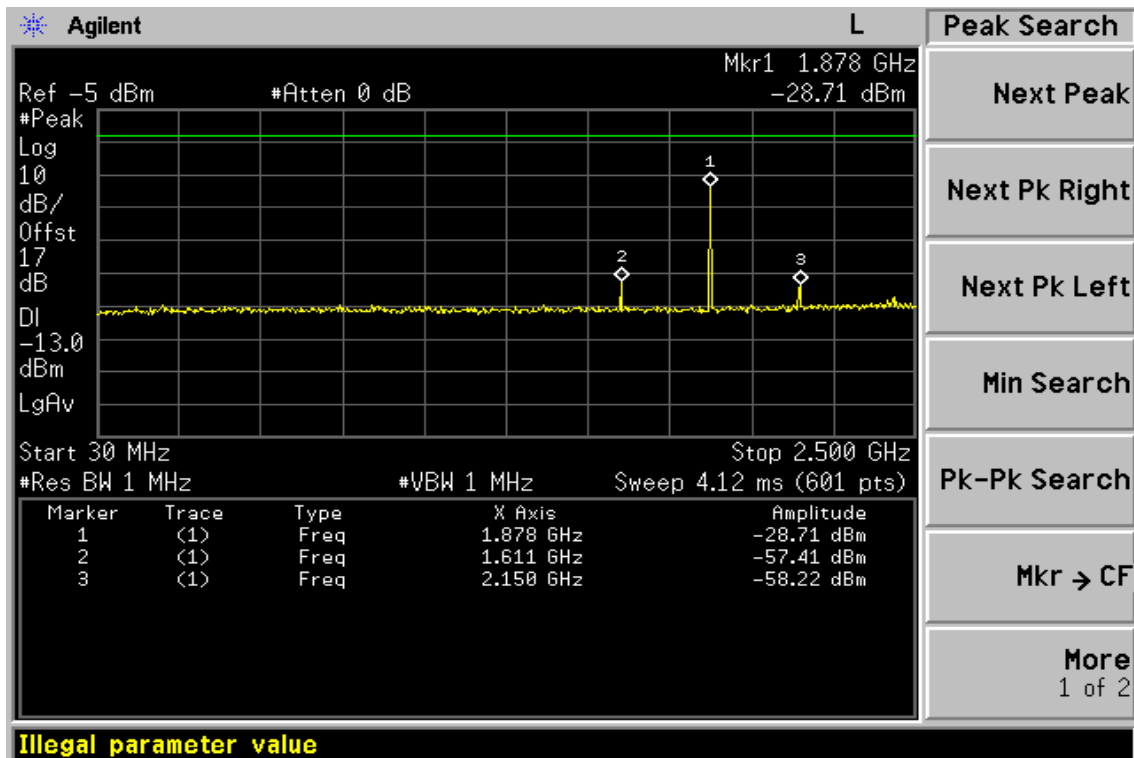


Figure 8-3: Out of Band emission at antenna terminals–PCS Channel Highest

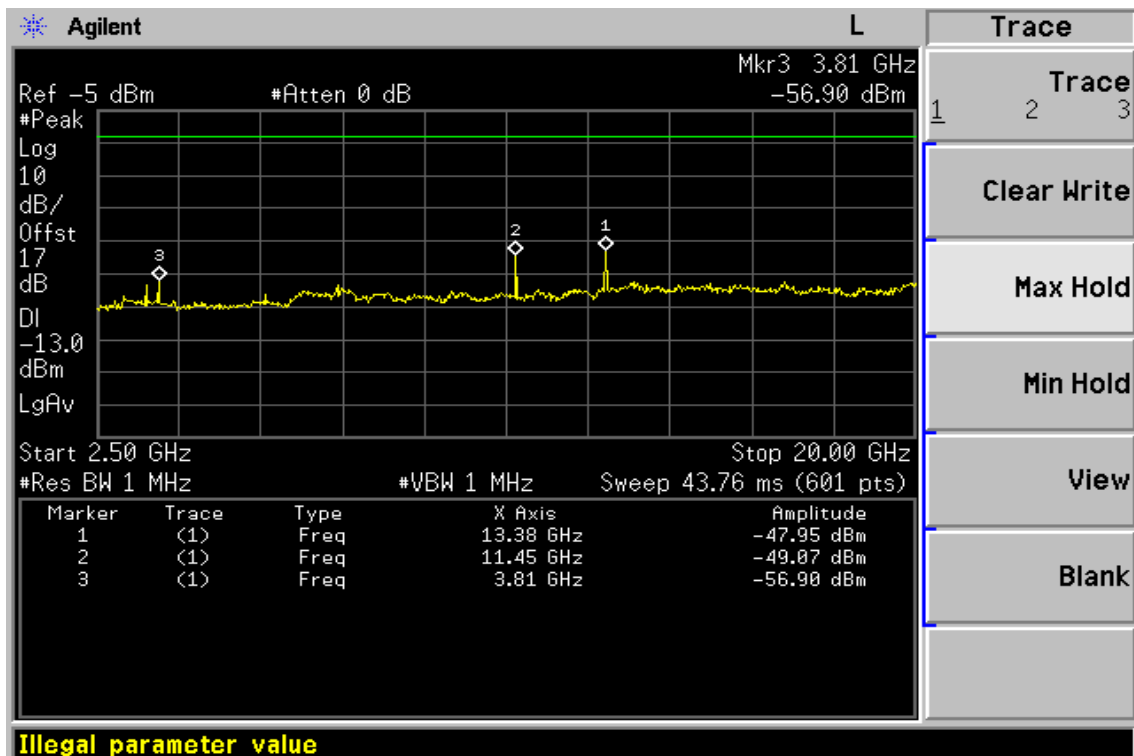
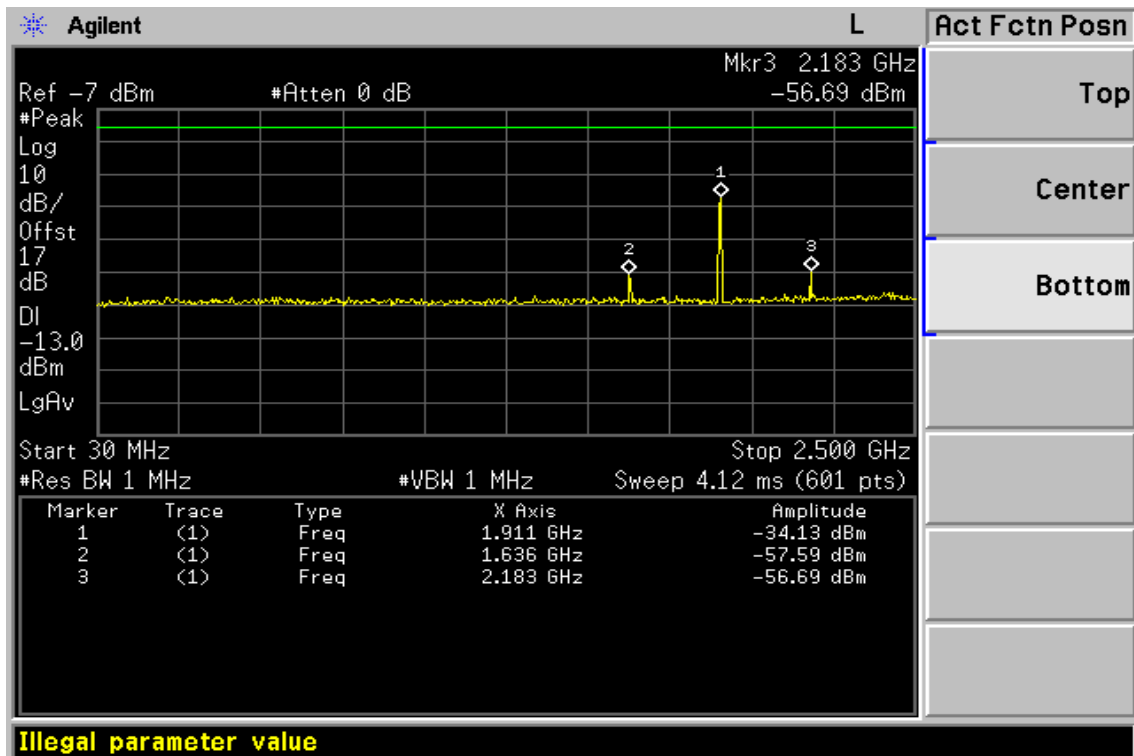


Figure 8-4: Band edge emission at antenna terminals – PCS Channel Lowest

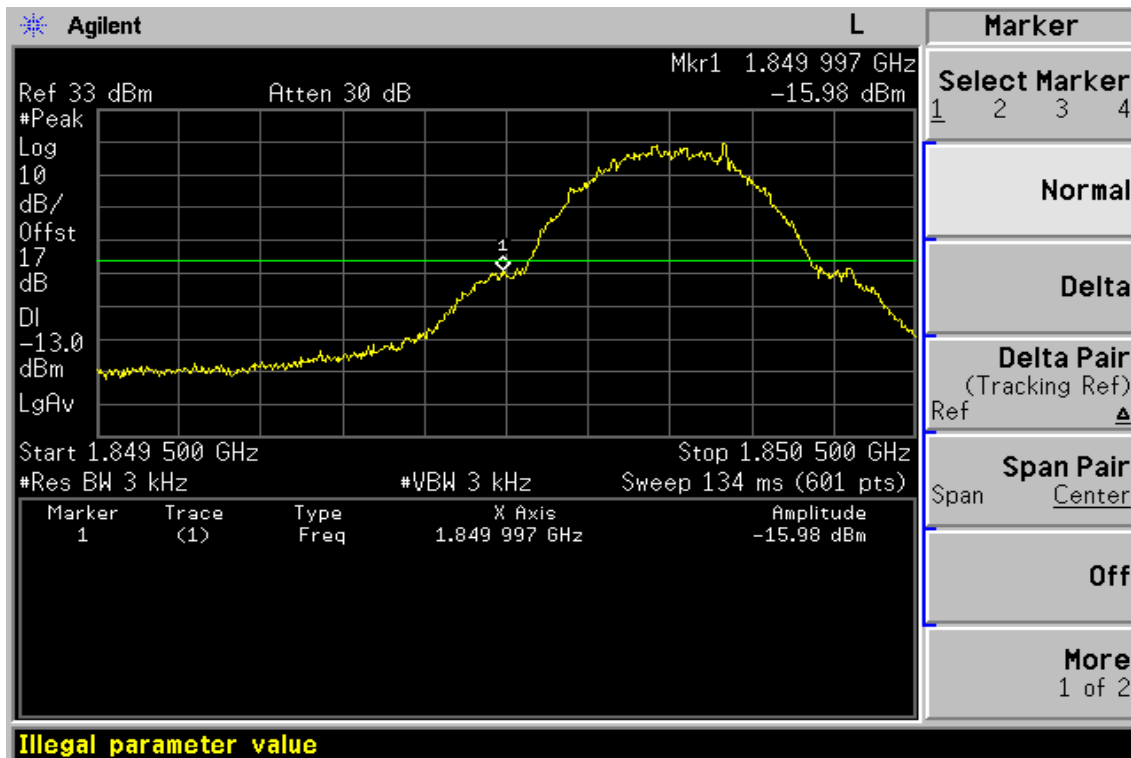
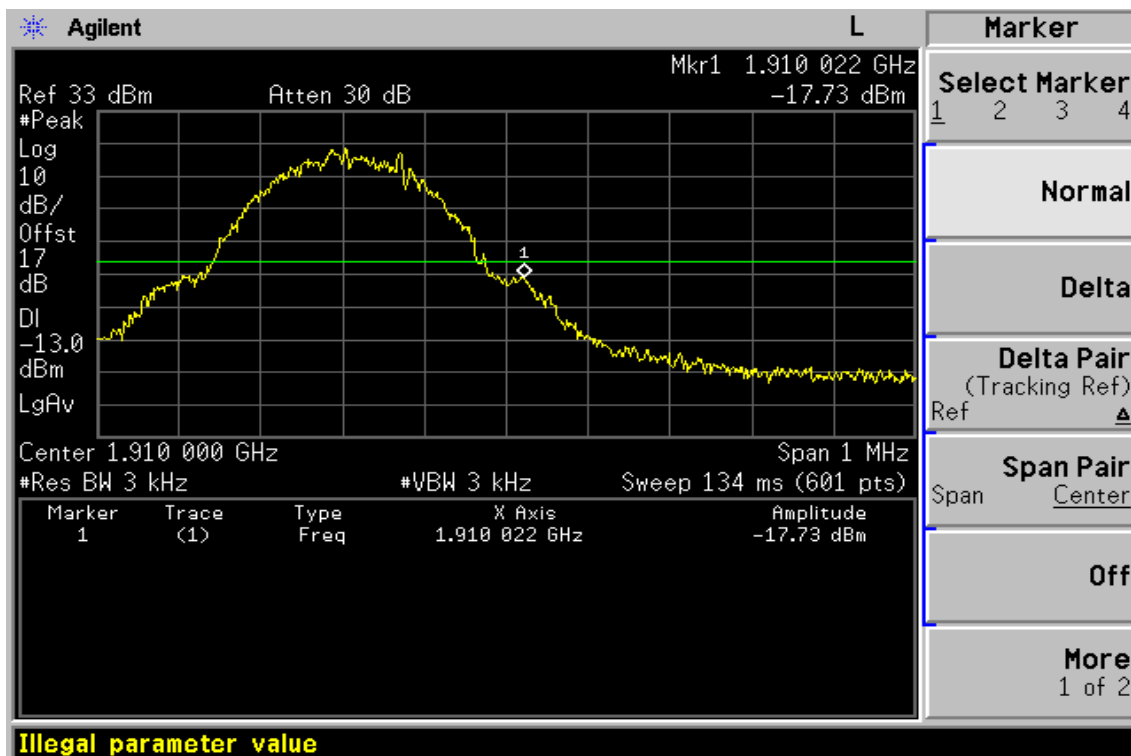


Figure 8-5: Band edge emission at antenna terminals – PCS Channel Highest



## 9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

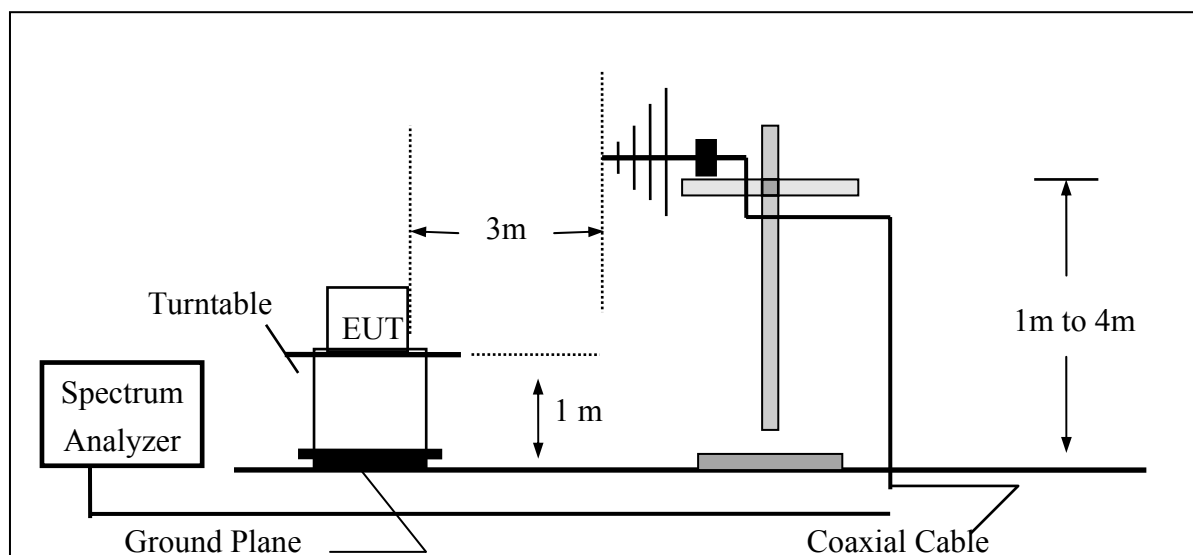
### 9.1 Standard Applicable

According to FCC §2.1053,

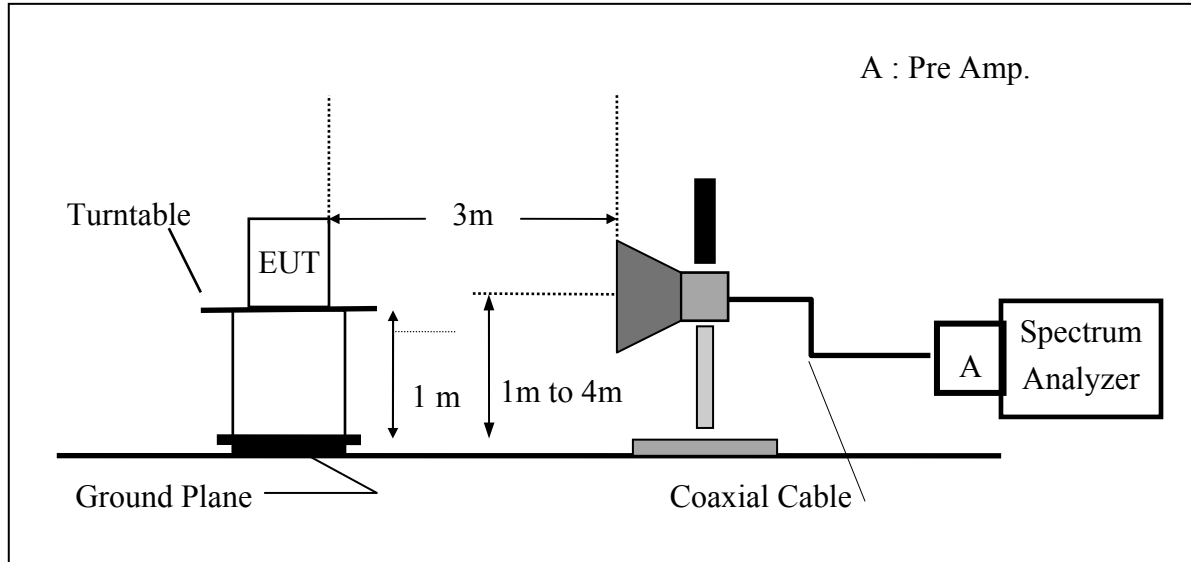
FCC §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output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

### 9.2 EUT Setup (Block Diagram of Configuration)

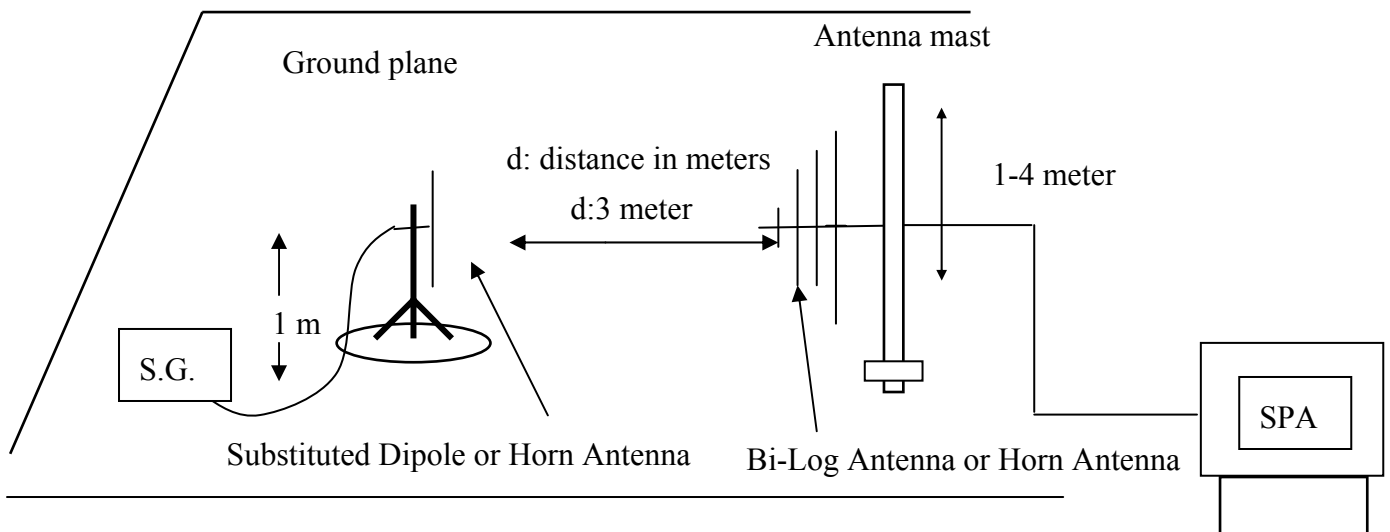
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



## (C) Substituted Method Test Set-UP



### 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.

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

## 9.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	E7405A	US41160416	08/27/2005	08/26/2006
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2005	06/02/2006
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2005	08/15/2006
Pre-Amplifier	HP	8447D	2944A09469	07/19/2005	07/18/2006
Pre-Amplifier	HP	8494B	3008A00578	02/26/2006	02/25/2007
Signal Generator	R&S	SMR40	100210	02/09/2006	02/10/2007
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	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	10/09/2005	10/08/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-0.5M	0.5m	10/09/2005	10/08/2006
Site NSA	SGS	966 chamber	N/A	11/17/2005	11/16/2006
Site NSA	SGS	10m Open-Site	N/A	10/02/2005	10/01/2006
Attenuator	Mini-Circult	BW-S10W5	N/A	10/07/2005	10/06/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2005	10/13/2006
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2005	06/11/2006
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2005	06/11/2006
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2005	08/15/2006

## 9.5 Measurement Result

Refer to attach tabular data sheets.



**Radiated Spurious Emission Measurement Result: PCS 1900 Mode**

Operation Mode : TX CH Low E2 Mode

Test Date : May 15, 2006

Fundamental Frequency : 1850.20MHz

Test By: Alex

Temperature : 25°C

Pol: Ver / Hor

Humidity : 65%

Freq.	SPA. Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/ EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
1850.00	79.84	V	-27.12	9.90	5.41	-22.63	-13.00	-9.63
3700.40	52.98	V	-48.60	12.61	7.73	-43.72	-13.00	-30.72
5550.60	51.31	V	-43.90	13.23	9.68	-40.36	-13.00	-27.36
7400.80	---	V	---	---	---	---	-13.00	---
9251.00	38.97	V	-43.86	11.92	13.10	-45.04	-13.00	-32.04
11101.20	41.73	V	-35.72	11.66	14.33	-38.38	-13.00	-25.38
12951.40	---	V	---	---	---	---	-13.00	---
14801.60	---	V	---	---	---	---	-13.00	---
16651.80	---	V	---	---	---	---	-13.00	---
1850.00	83.47	H	-23.42	9.90	5.41	-18.93	-13.00	-5.93
3700.40	50.76	H	-50.60	12.61	7.73	-45.72	-13.00	-32.72
5550.60	41.01	H	-54.12	13.23	9.68	-50.57	-13.00	-37.57
7400.80	---	H	---	---	---	---	-13.00	---
9251.00	44.97	H	-37.67	11.92	13.10	-38.85	-13.00	-25.85
11101.20	50.02	H	-27.29	11.66	14.33	-29.96	-13.00	-16.96
12951.40	---	H	---	---	---	---	-13.00	---
14801.60	---	H	---	---	---	---	-13.00	---
16651.80	---	H	---	---	---	---	-13.00	---

**Remark :**

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

**Radiated Spurious Emission Measurement Result: PCS 1900 Mode**

Operation Mode : TX CH Mid E2 Mode

Test Date May 15, 2006

Fundamental Frequency : 1880MHz

Test By Alex

Temperature : 25°C

Pol Ver / Hor

Humidity : 65%

Freq.	SPA. Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/ EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
3760.00	51.78	V	-49.52	12.60	7.82	-44.74	-13.00	-31.74
5640.00	---	V	---	---	---	---	-13.00	---
7520.00	---	V	---	---	---	---	-13.00	---
9400.00	40.13	V	-42.39	11.93	13.15	-43.61	-13.00	-30.61
11280.00	48.88	V	-28.55	11.92	14.56	-31.19	-13.00	-18.19
13160.00	---	V	---	---	---	---	-13.00	---
15040.00	---	V	---	---	---	---	-13.00	---
16920.00	---	V	---	---	---	---	-13.00	---
3760.00	54.36	H	-46.75	12.60	7.82	-41.96	-13.00	-28.96
5640.00	---	H	---	---	---	---	-13.00	---
7520.00	---	H	---	---	---	---	-13.00	---
9400.00	42.06	H	-40.20	11.93	13.15	-41.43	-13.00	-28.43
11280.00	55.40	H	-21.93	11.92	14.56	-24.57	-13.00	-11.57
13160.00	---	H	---	---	---	---	-13.00	---
15040.00	---	H	---	---	---	---	-13.00	---
16920.00	---	H	---	---	---	---	-13.00	---

**Remark :**

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

**Radiated Spurious Emission Measurement Result: PCS 1900 Mode**

Operation Mode	: TX CH High E2 Mode	Test Date	May 15, 2006
Fundamental Frequency	: 1909.8 MHz	Test By	Alex
Temperature	: 25°C	Pol	Ver / Hor
Humidity	: 65%		

Freq.	SPA. Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/ EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
1910.00	77.36	V	-29.58	10.08	5.51	-25.01	-13.00	-12.01
3819.60	48.27	V	-52.76	12.60	7.92	-48.07	-13.00	-35.07
5729.40	---	V	---	---	---	---	-13.00	---
7639.20	---	V	---	---	---	---	-13.00	---
9549.00	37.71	V	-44.46	11.95	13.22	-45.72	-13.00	-32.72
11458.80	42.31	V	-35.09	12.17	14.79	-37.71	-13.00	-24.71
13368.60	---	V	---	---	---	---	-13.00	---
15278.40	---	V	---	---	---	---	-13.00	---
17188.20	---	V	---	---	---	---	-13.00	---
1910.00	83.31	H	-23.54	10.08	5.51	-18.98	-13.00	-5.98
3819.60	52.43	H	-48.43	12.60	7.92	-43.74	-13.00	-30.74
5729.40	---	H	---	---	---	---	-13.00	---
7639.20	---	H	---	---	---	---	-13.00	---
9549.00	43.28	H	-38.61	11.95	13.22	-39.87	-13.00	-26.87
11458.80	49.56	H	-27.79	12.17	14.79	-30.40	-13.00	-17.40
13368.60	---	H	---	---	---	---	-13.00	---
15278.40	---	H	---	---	---	---	-13.00	---
17188.20	---	H	---	---	---	---	-13.00	---

**Remark :**

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

### Radiated Spurious Emission Measurement Result: Co-Location Mode

Operation Mode	: GSM1900 TX Ch Low E2 / BT Ch Mid	Test Date:	May 15, 2006
Fundamental Frequency	: 1850.20 MHz / 2441MHz	Test By:	Alex
Temperature	: 25°C	Pol:	Ver
Humidity	: 65%		

Freq.	SPA. Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/ EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
53.28	44.54	V	-63.87	-0.55	0.92	-65.34	-13.00	-52.34
94.02	52.81	V	-51.31	-7.75	1.18	-60.25	-13.00	-47.25
179.38	46.72	V	-53.53	-7.82	1.52	-62.87	-13.00	-49.87
252.13	48.68	V	-51.97	-7.89	1.99	-61.85	-13.00	-48.85
1850.00	78.20	V	-28.76	9.90	5.41	-24.27	-13.00	-11.27
3700.40	55.54	V	-46.04	12.61	7.73	-41.16	-13.00	-28.16
3983.50	46.48	V	-53.80	12.60	8.17	-49.37	-13.00	-36.37
4861.00	44.54	V	-52.39	12.65	9.10	-48.84	-13.00	-35.84
5550.60	54.45	V	-40.76	13.23	9.68	-37.22	-13.00	-24.22
7400.80	52.51	V	-33.49	11.50	11.28	-33.26	-13.00	-20.26
9251.00	45.38	V	-37.45	11.92	13.10	-38.63	-13.00	-25.63
11101.20	48.25	V	-29.20	11.66	14.33	-31.86	-13.00	-18.86
12951.40	---	V	---	---	---	---	-13.00	---
14801.60	---	V	---	---	---	---	-13.00	---
16651.80	---	V	---	---	---	---	-13.00	---
18502.00	---	V	---	---	---	---	-13.00	---
4882.00	---	V	---	---	---	---	-13.00	---
7323.00	---	V	---	---	---	---	-13.00	---
9764.00	---	V	---	---	---	---	-13.00	---
12205.00	---	V	---	---	---	---	-13.00	---

#### Remark :

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

### Radiated Spurious Emission Measurement Result: Co-Location Mode

Operation Mode : GSM1900 TX Ch Low E2 / BT Ch Mid Test Date: May 15, 2006  
 Fundamental Frequency : 1850.20 MHz / 2441MHz Test By: Alex  
 Temperature : 25°C Pol: Her.  
 Humidity : 65%

Freq.	SPA. Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/ EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
53.28	45.20	H	-63.24	-0.55	0.92	-64.71	-13.00	-51.71
93.05	50.40	H	-53.15	-7.75	1.18	-62.08	-13.00	-49.08
109.54	43.23	H	-59.09	-7.77	1.27	-68.12	-13.00	-55.12
1850.00	82.77	H	-24.12	9.90	5.41	-19.63	-13.00	-6.63
3528.50	46.31	H	-55.77	12.61	7.46	-50.62	-13.00	-37.62
3700.40	61.64	H	-39.72	12.61	7.73	-34.84	-13.00	-21.84
3983.50	54.45	H	-45.72	12.60	8.17	-41.29	-13.00	-28.29
4425.50	49.75	H	-48.77	12.65	8.65	-44.77	-13.00	-31.77
5550.60	52.29	H	-42.84	13.23	9.68	-39.29	-13.00	-26.29
7400.80	52.53	H	-33.53	11.50	11.28	-33.31	-13.00	-20.31
9251.00	44.73	H	-37.91	11.92	13.10	-39.09	-13.00	-26.09
11101.20	53.15	H	-24.16	11.66	14.33	-26.83	-13.00	-13.83
12951.40	---	H	---	---	---	---	-13.00	---
14801.60	---	H	---	---	---	---	-13.00	---
16651.80	---	H	---	---	---	---	-13.00	---
18502.00	---	H	---	---	---	---	-13.00	---
4882.00	---	H	---	---	---	---	-13.00	---
7323.00	---	H	---	---	---	---	-13.00	---
9764.00	---	H	---	---	---	---	-13.00	---
12205.00	---	H	---	---	---	---	-13.00	---

#### Remark :

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

**Radiated Spurious Emission Measurement Result: Co-Location Mode**

Operation Mode : GSM1900 TX Ch High E2 / BT Ch Mid      Test Date: May 15, 2006  
 Fundamental Frequency : 1909.8 MHz / 2441MHz      Test By: Alex  
 Temperature : 25°C      Pol: Ver  
 Humidity : 65%

Freq.	SPA. Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/ EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
33.88	47.31	V	-56.26	-5.52	0.72	-62.51	-13.00	-49.51
90.14	52.88	V	-51.51	-7.75	1.16	-60.42	-13.00	-47.42
119.24	51.67	V	-49.69	-7.78	1.31	-58.78	-13.00	-45.78
179.38	49.71	V	-50.54	-7.82	1.52	-59.88	-13.00	-46.88
1910.02	79.61	V	-27.33	10.08	5.51	-22.76	-13.00	-9.76
3819.60	59.24	V	-41.79	12.60	7.92	-37.10	-13.00	-24.10
3983.00	47.44	V	-52.84	12.60	8.17	-48.41	-13.00	-35.41
4861.00	45.52	V	-51.41	12.65	9.10	-47.86	-13.00	-34.86
5530.50	41.24	V	-54.02	13.20	9.67	-50.50	-13.00	-37.50
5729.40	45.52	V	-49.18	13.49	9.78	-45.47	-13.00	-32.47
7639.20	44.51	V	-40.66	11.40	11.48	-40.73	-13.00	-27.73
9549.00	41.59	V	-40.58	11.95	13.22	-41.84	-13.00	-28.84
11458.80	56.61	V	-20.79	12.17	14.79	-23.41	-13.00	-10.41
13368.60	---	V	---	---	---	---	-13.00	---
15278.40	---	V	---	---	---	---	-13.00	---
17188.20	---	V	---	---	---	---	-13.00	---
19098.00	---	V	---	---	---	---	-13.00	---
4882.00	---	V	---	---	---	---	-13.00	---
7323.00	---	V	---	---	---	---	-13.00	---
9764.00	---	V	---	---	---	---	-13.00	---
12205.00	---	V	---	---	---	---	-13.00	---

**Remark :**

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

# Radiated Spurious Emission Measurement Result: Co-Location Mode

Operation Mode : GSM1900 TX Ch High E2 / BT Ch Mid Test Date: May 15, 2006  
Fundamental Frequency : 1909.8 MHz / 2441MHz Test By: Alex  
Temperature : 25°C Pol: Her.  
Humidity : 65%

Freq.	SPA. Reading	Ant.Pol.	S.G Output	Antenna Gain	Cable Loss	ERP/ EIRP	Limit	Safe Margin
(MHz)	(dBuV)	H/V	(dBm)	(dB/dBi)	(dB)	(dBm)	(dBm)	(dBm)
61.04	50.30	H	-61.01	-0.52	0.95	-62.49	-13.00	-49.49
80.44	52.53	H	-51.85	-7.75	1.09	-60.69	-13.00	-47.69
92.08	50.64	H	-52.96	-7.75	1.17	-61.88	-13.00	-48.88
1910.02	83.64	H	-23.21	10.08	5.51	-18.65	-13.00	-5.65
3528.50	43.99	H	-58.09	12.61	7.46	-52.94	-13.00	-39.94
3819.60	60.87	H	-39.99	12.60	7.92	-35.30	-13.00	-22.30
3983.50	54.17	H	-46.00	12.60	8.17	-41.57	-13.00	-28.57
4425.50	48.75	H	-49.77	12.65	8.65	-45.77	-13.00	-32.77
4861.00	44.58	H	-52.25	12.65	9.10	-48.70	-13.00	-35.70
5729.40	44.06	H	-50.59	13.49	9.78	-46.88	-13.00	-33.88
7639.20	49.46	H	-35.83	11.40	11.48	-35.91	-13.00	-22.91
9549.00	38.86	H	-43.03	11.95	13.22	-44.29	-13.00	-31.29
11458.80	49.29	H	-28.06	12.17	14.79	-30.67	-13.00	-17.67
13368.60	---	H	---	---	---	---	-13.00	---
15278.40	---	H	---	---	---	---	-13.00	---
17188.20	---	H	---	---	---	---	-13.00	---
19098.00	---	H	---	---	---	---	-13.00	---
4882.00	---	H	---	---	---	---	-13.00	---
7323.00	---	H	---	---	---	---	-13.00	---
9764.00	---	H	---	---	---	---	-13.00	---
12205.00	---	H	---	---	---	---	-13.00	---

## Remark :

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

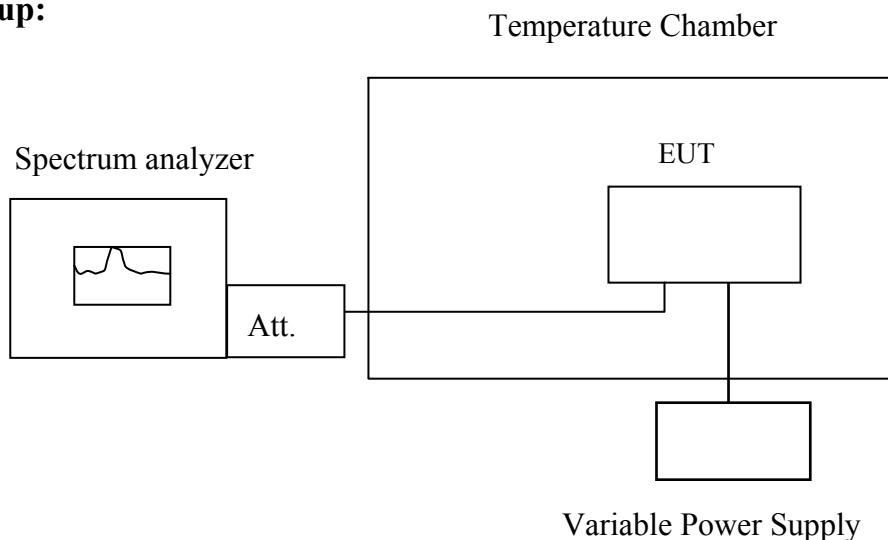
## 10. FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

### 10.1 Standard Applicable

According to FCC §2.1055(a)(1)(b).

Frequency Tolerance: 2.5 ppm

### 10.2 Test Set-up:



**Note :** Measurement setup for testing on Antenna connector

### 10.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes re-recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.



#### 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	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2005	11/12/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2005	10/06/2006
Signal Generator	R&S	SMR40	100210	11/09/2005	11/10/2006
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007

## 10.5 Measurement Result

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	-30	1880.000037	-10.00	4700
3.7	-20	1880.000029	-2.00	4700
3.7	-10	1880.000022	5.00	4700
3.7	0	1880.000031	-4.00	4700
3.7	10	1880.000019	8.00	4700
3.7	20	1880.000020	7.00	4700
3.7	30	1880.000027	0.00	4700
3.7	40	1880.000031	-4.00	4700
3.7	50	1880.000036	-9.00	4700

**Note: The battery is rated 3.7V dc.**

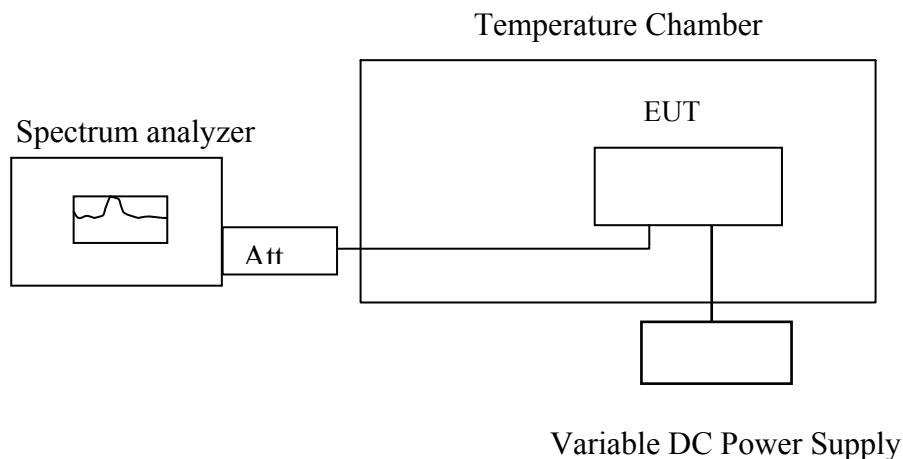
## 11. FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

### 11.1 Standard Applicable

According to FCC §2.1055(d)(1)(2)

Frequency Tolerance: 2.5 ppm

### 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.

# 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	03/29/2006	03/28/2007
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2005	06/29/2006
Power Sensor	Anritsu	MA2490A	31431	06/28/2005	06/29/2006
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2005	06/29/2006
Temperature Chamber	TERCHY	MHG-120LF	911009	11/11/2005	11/12/2006
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	10/07/2005	10/06/2006
Attenuator	Mini-Circuit	BW-S6W5	N/A	10/07/2005	10/06/2006
Splitter	Mini-Circuit	ZFSC-2-10G	N/A	10/07/2005	10/06/2006
Signal Generator	R&S	SMR40	100210	11/09/2005	11/10/2006
DC Power Supply	Agilent	6038A	2929A-07548	01/06/2006	01/05/2007

## 11.5 Measurement Result

Reference Frequency: PCS Mid Channel 1880 MHz @ 25°C				
Limit: +/- 2.5 ppm = 4700 Hz				
Power Supply	Environment	Frequency	Delta (Hz)	Limit (Hz)
Vdc	Temperature (°C)	(MHz)		
3.7	25	1880.000020	13.00	4700
3.6	25	1880.000033	0.00	4700
3.5	25	1879.999981	52.00	4700
3.4 (End Point)	25	1879.999979	2.00	4700

**Note: The battery is rated 3.7V dc.**

## 12. AC POWER LINE CONDUCTED EMISSION TEST

### 12.1 Standard Applicable

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

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

### 12.2 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2001.
2. The EUT was plug-in DC power adaptor and was placed on the center of the back edge on the test table. The peripherals like earphone was placed on the side of the EUT. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The Power adaptor was connected with 110Vac/60Hz power source.

### 12.3 Measurement Procedure

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

## 12.4 Measurement Equipment Used:

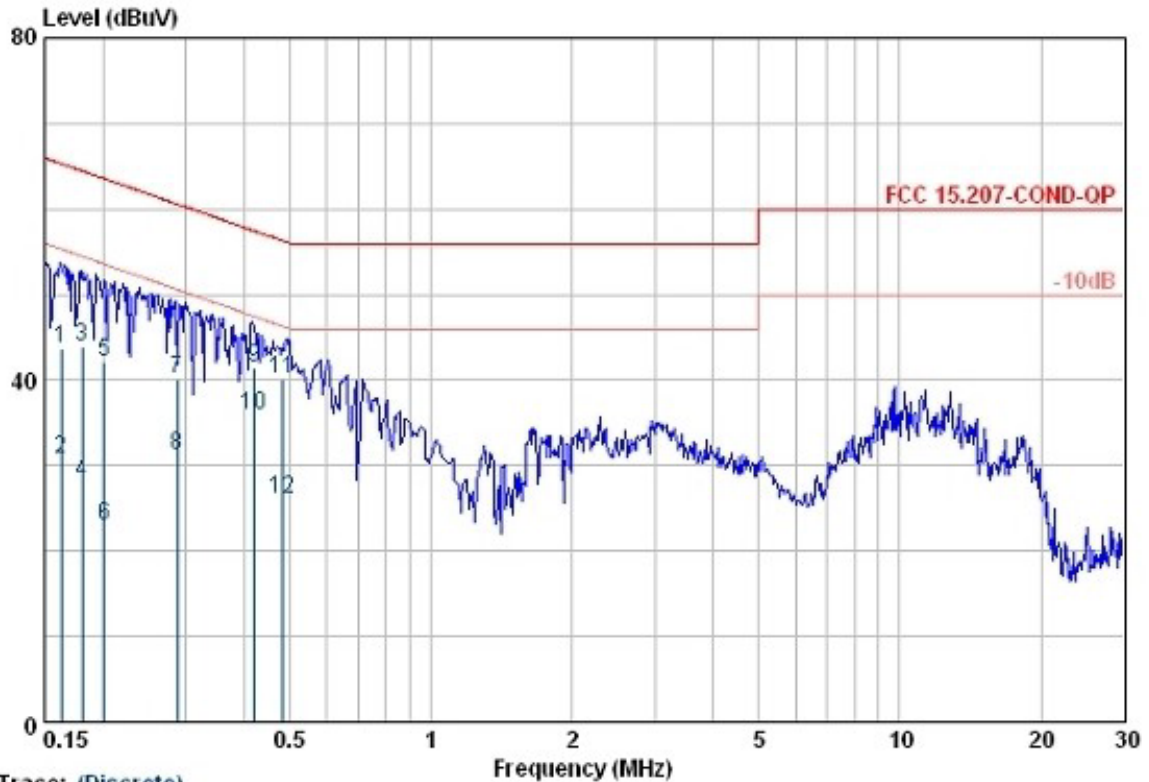
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/02/2005	09/03/2006
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2005	06/10/2006
Transient Limiter	HP	11947A	3107A02062	09/02/2005	09/03/2006
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2005	12/30/2006
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2005	12/23/2006
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2005	12/23/2006

## 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.

## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 +BT LINK			Test Date:	May 19 2006
Temperature:	25 °C	Humidity:	65 %	Test By:	Denny



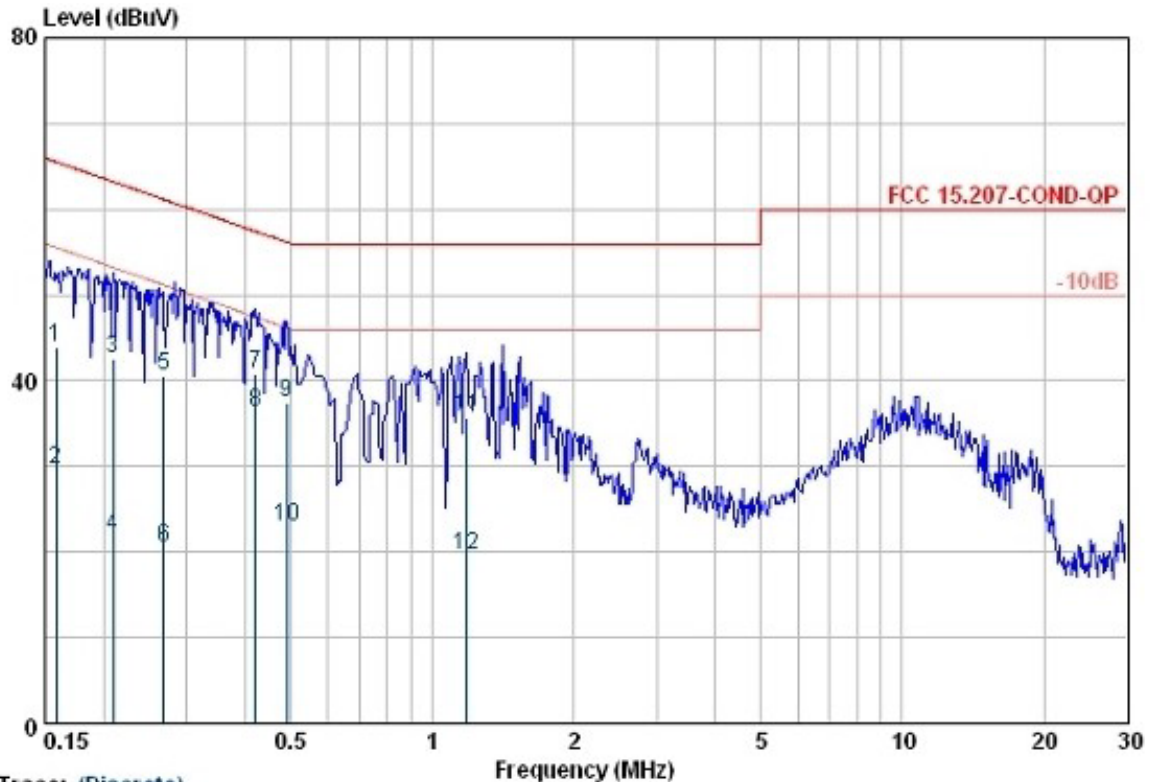
Trace: (Discrete)

Site : RF Site  
 Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) LINE  
 Project No. : EH/2006/40002  
 Applicant : ARIMA  
 EUT Description : MOBILE PHONE  
 EUT Model : ARIMA 2717  
 Test Mode : GSM1900 LINK+BLUETOOTH(AC 110V)  
 Temp./Humid. : 25/65  
 Operator : DENNY

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.16	LINE	43.45	0.20	43.65	65.31	-21.66	QP
2	0.16	LINE	30.60	0.20	30.80	65.31	-34.51	AVERAGE
3	0.18	LINE	43.73	0.20	43.93	64.46	-20.53	QP
4	0.18	LINE	27.98	0.20	28.18	64.46	-36.28	AVERAGE
5	0.20	LINE	41.98	0.20	42.18	63.59	-21.41	QP
6	0.20	LINE	22.84	0.20	23.04	63.59	-40.55	AVERAGE
7	0.29	LINE	39.90	0.20	40.10	60.57	-20.47	QP
8	0.29	LINE	31.01	0.20	31.21	60.57	-29.36	AVERAGE
9	0.42	LINE	41.19	0.20	41.39	57.45	-16.06	QP
10	0.42	LINE	35.69	0.20	35.89	57.45	-21.56	AVERAGE
11	0.48	LINE	40.00	0.20	40.20	56.30	-16.10	QP
12	0.48	LINE	25.90	0.20	26.10	56.30	-30.20	AVERAGE

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Site : RF Site  
 Condition : FCC 15.207-COND-QP NNB-2/16Z(99012) NEUTRAL  
 Project No. : EH/2006/40002  
 Applicant : ARIMA  
 EUT Description : MOBILE PHONE  
 EUT Model : ARIMA 2717  
 Test Mode : GSM1900 LINK+BLUETOOTH(AC 110V)  
 Temp./Humid. : 25/65  
 Operator : DENNY

	Freq	Pol/Phase	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz		dBuV	dB	dBuV	dBuV	dB	
1	0.16	NEUTRAL	43.63	0.20	43.83	65.56	-21.73	QP
2	0.16	NEUTRAL	29.34	0.20	29.54	65.56	-36.02	AVERAGE
3	0.21	NEUTRAL	42.38	0.20	42.58	63.23	-20.65	QP
4	0.21	NEUTRAL	21.70	0.20	21.90	63.23	-41.33	AVERAGE
5	0.27	NEUTRAL	40.39	0.20	40.59	61.18	-20.59	QP
6	0.27	NEUTRAL	20.37	0.20	20.57	61.18	-40.61	AVERAGE
7	0.42	NEUTRAL	40.60	0.20	40.80	57.46	-16.66	QP
8	0.42	NEUTRAL	36.06	0.20	36.26	57.46	-21.20	AVERAGE
9	0.49	NEUTRAL	37.16	0.20	37.36	56.17	-18.81	QP
10	0.49	NEUTRAL	22.76	0.20	22.96	56.17	-33.21	AVERAGE
11	1.18	NEUTRAL	35.55	0.21	35.76	56.00	-20.24	QP
12	1.18	NEUTRAL	19.39	0.21	19.60	56.00	-36.40	AVERAGE