

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: Notebook

Brand Name: CLEVO

Model Name: TN12XR (X = 0 ~ 9)

Model Differences: Models are variant in exterior colors

FCC ID: U9M-TN12XR

GSM Module ID: N7NMC8775

Report No.: ER/2007/A0012

Issue Date: Nov. 27, 2007

FCC Rule Part: 2 & 24E& 22H

Prepared for CLEVO CO.
No. 129, Hsing-Te Road, Sun Chung City
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Prepared by SGS Taiwan Ltd.
No. 134, Wu Kung Rd., Wuku Industrial
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VERIFICATION OF COMPLIANCE

Applicant: CLEVO CO.
No. 129, Hsing-Te Road, Sun Chung City 241, Taipei Hsien,
Taiwan, R.O.C.

Product Name: Notebook

FCC ID Number: U9M-TN12XR

Brand Name: CLEVO

Model No.: TN12XR (X = 0 ~ 9)

Model Difference: Models are variant in exterior colors

File Number: ER/2007/A0012

Date of test: Oct. 10, 2007 ~ Nov. 26, 2007

Date of EUT Received: Oct. 10, 2007

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 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**

Nov. 27, 2007

*Jason Wu/Sr. Engineer***Prepared By:****Date**

Nov. 27, 2007

*Elisa Chen/Asst. Supervisor***Approved By****Date**

Nov. 27, 2007

Vincent Su/Manager

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Version

Version No.	Date
00	Oct. 23, 2007
01	Nov. 20, 2007
02	Nov. 27, 2007

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1. GENERAL INFORMATION

1.1 Product Description

Product Name:	Notebook	
Model Name:	TN12XR (X = 0 ~ 9)	
Model Difference:	Models are variant in exterior colors	
Trade Name:	CLEVO	
Power Supply:	14.8Vdc re-chargeable battery or 18.5Vdc by AC/DC power adapter	
	Battery Model:	TN120RBAT-4, Supplier: N/A
	Adapter Model:	HP-OK065B13, Supplier: HIPRO

GSM:

Cellular Phone Standards Frequency Range and Power	GSM/GPRS(class 12) 850	824 MHz– 849MHz	33 dBm
	EDGE 850	824 MHz– 849MHz	27 dBm
	GSM/GPRS(class 12) 1900	1850MHz – 1910MHz	30 dBm
	EDGE 1900	1850MHz – 1910MHz	26 dBm
Type of Emission	GSM: 300KGXW EDGE: 300KG7W		
Software Version:	N/A		
Hardware Version:	N/A		

This test report applies for GSM/GPRS class /EDGE 850 and 1900 bands,

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **U9M-TN12XR** filing to comply with Section Part 22 subpart H and 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 measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. 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. 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.

1.5 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&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&13 of ANSI C63.4-2003.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

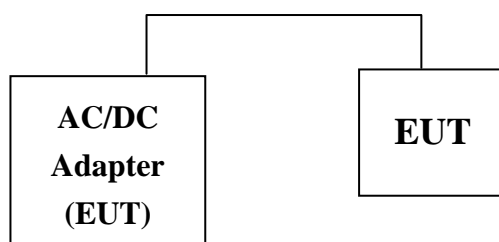


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	FCC ID	Series No.
1.	N/A				

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	N/A
§2.1051 §22.917(a) §24.238(a)	Out of Band Emissions at Antenna Terminals and Band Edge	N/A
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant
§2.1055(a)(1)(b)	Frequency Stability vs. Temperature	N/A
§2.1055(d)(1)(2)	Frequency Stability vs. Voltage	N/A
§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 and band with rated data rate are chosen for testing.

The GSM module was approved and the FCC ID number is **N7NMC8775**. Thus, the output power, ERP/EIRP, Field Strength of Spurious Radiation and AC Power Line Conducted Emission were tested at GSM and EDGE modes.

The output power of 850 and 1900 MHz EDGE modes has 3 dB lower than GSM modes. Therefore the worst-case of GSM 850 and GSM 1900 band were reported.

5. RF POWER OUTPUT MEASUREMENT

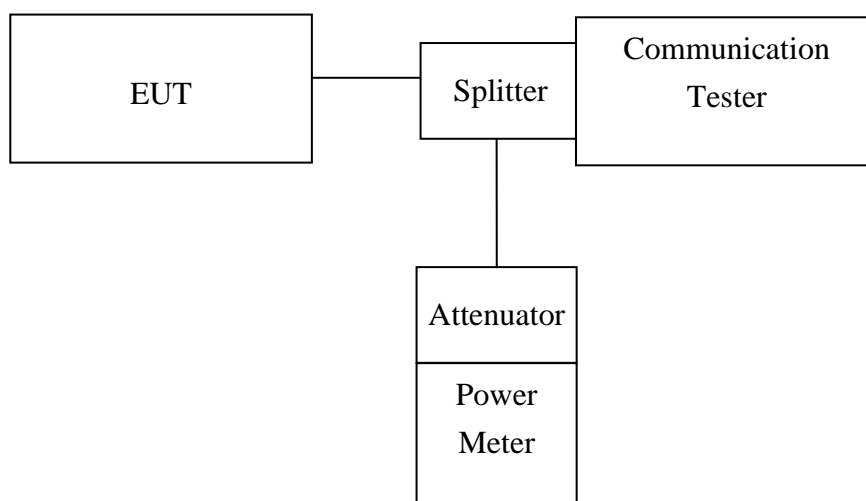
5.1 Standard Applicable

According to FCC §2.1046.

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

FCC 24.232(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	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	E7405A	US41160416	06/28/2007	06/29/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Communication Test	R&S	SMU200	N/A	N/A	N/A
Power Sensor	Anritsu	MA2490A	31431	06/28/2007	06/29/2008
Power Meter	Anritsu	ML2487A	6K00002070	06/28/2007	06/29/2008
Temperature Chamber	TERCHY	MHG-120LF	911009	10/14/2007	10/13/2008
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Attenuator	Mini-Circuit	BW-S6W5	N/A	09/23/2007	09/22/2008
Splitter	Agilent	11636B	51728	09/23/2007	09/22/2008
DC Power Supply	TOPWARD	3303A	N/A	N/A	N/A

5.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
GSM 850	824.20	128	13.50	17.80	31.30
	836.60	190	13.60	17.80	31.40
	848.80	251	13.60	17.80	31.40

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
PCS 1900	1850.20	512	10.10	17.80	27.90
	1880.00	661	10.40	17.80	28.20
	1909.80	810	10.50	17.80	28.30

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EUT Mode	Frequency (MHz)	CH	Power meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 850	824.20	128	7.50	17.80	25.30
	836.60	190	7.60	17.80	25.40
	848.80	251	7.60	17.80	25.40

EUT Mode	Frequency (MHz)	CH	Power Meter Reading (dBm)	Path Loss (dB)	Peak Power (dBm)
EDGE 1900	1850.20	512	7.20	17.80	25.00
	1880.00	661	7.50	17.80	25.30
	1909.80	810	7.60	17.80	25.40

6. ERP, EIRP MEASUREMENT

6.1 Standard Applicable

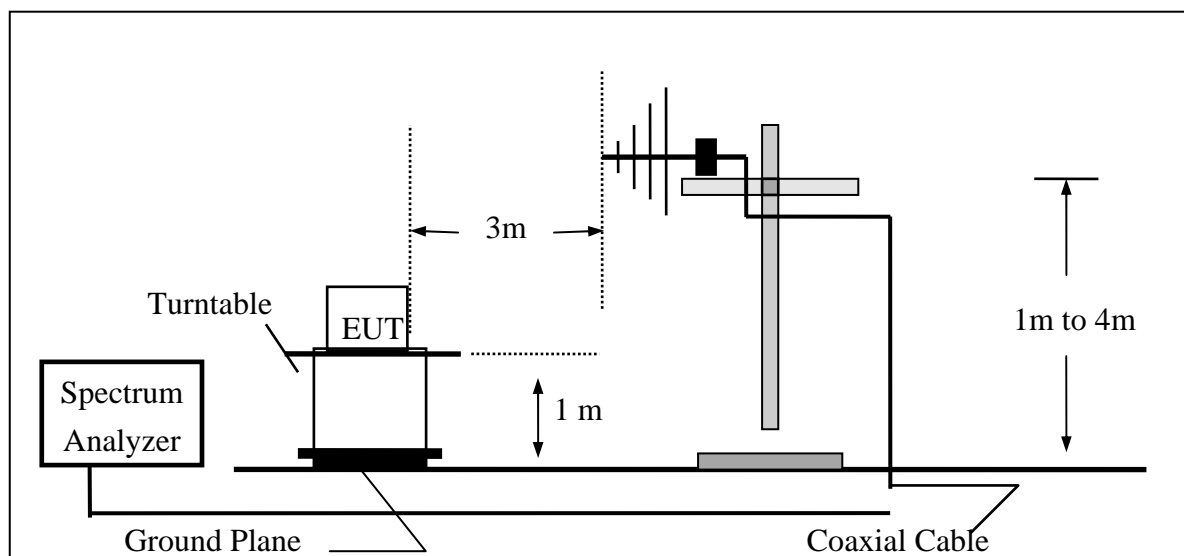
According to FCC §2.1046

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

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

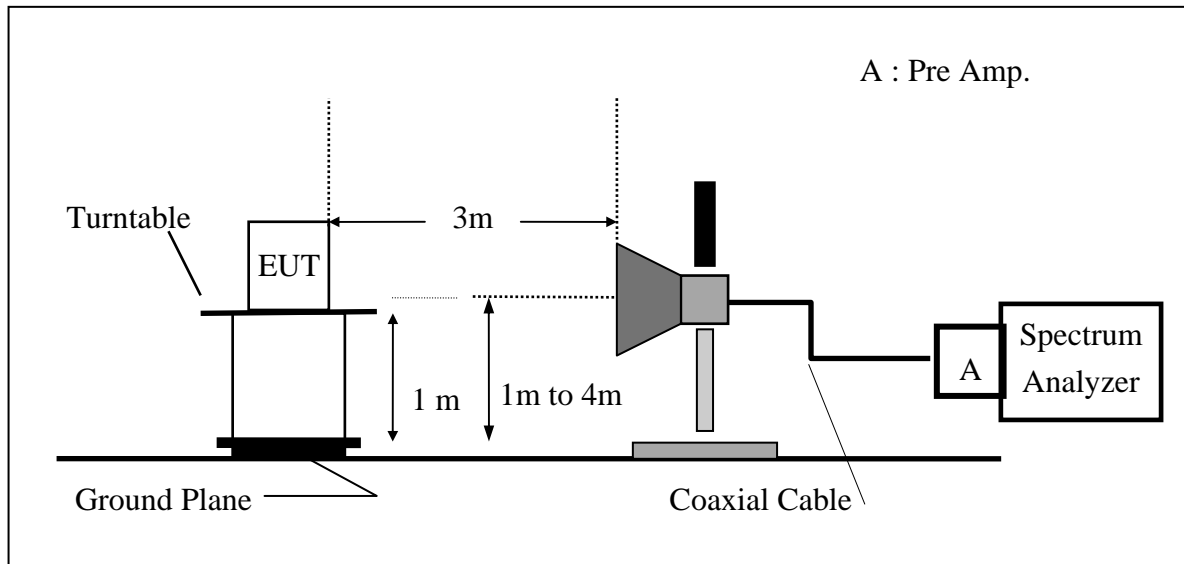
6.2 Test SET-UP (Block Diagram of Configuration)

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

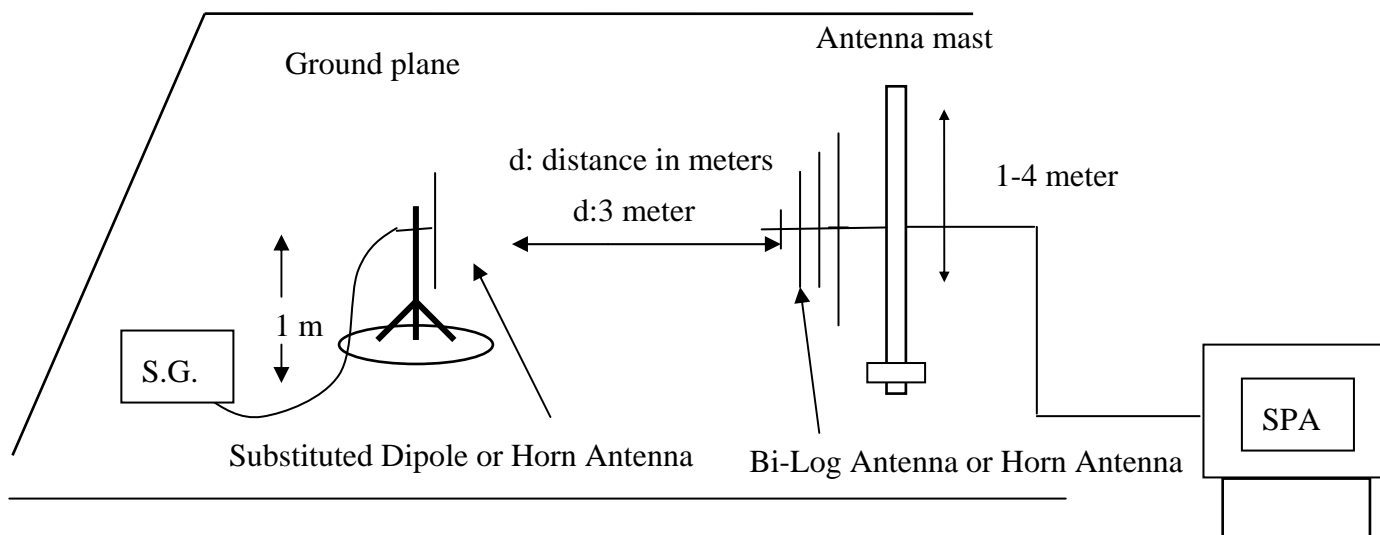


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(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



6.3 Measurement Procedure

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

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

ERP in frequency band 824.2 – 848.80 MHz were measured using a substitution method. The EUT was replaced by a dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

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

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

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

6.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2007	06/02/2008
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
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	11/17/2006	11/16/2007
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2007	06/11/2008
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2007	06/11/2008
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2007	08/15/2008

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6.5 Measurement Result

EUT Mode	Frequency (MHz)	CH	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
GSM 850	824.20	128	V	126.84	39.52	-7.87	3.64	28.00	38.45
			H	124.48	36.82	-7.87	3.64	25.31	38.45
	836.60	190	V	127.04	40.01	-7.88	3.70	28.44	38.45
			H	124.83	37.49	-7.88	3.70	25.92	38.45
	848.80	251	V	126.67	39.93	-7.88	3.75	28.30	38.45
			H	124.78	37.76	-7.88	3.75	26.13	38.45

EUT Mode	Frequency (MHz)	CH	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
PCS 1900	1850.20	512	V	121.97	15.01	9.90	5.41	19.50	33.00
			H	123.01	16.12	9.90	5.41	20.61	33.00
	1880.00	661	V	119.82	12.87	9.99	5.46	17.40	33.00
			H	121.09	14.22	9.99	5.46	18.75	33.00
	1909.80	810	V	119.94	13.00	10.08	5.51	17.57	33.00
			H	120.26	13.41	10.08	5.51	17.97	33.00

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EUT Mode	Frequency (MHz)	CH	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)
EDGE 850	824.20	128	V	121.20	33.88	-7.87	3.64	22.36	38.45
			H	118.63	30.97	-7.87	3.64	19.46	38.45
	836.60	190	V	121.16	34.13	-7.88	3.70	22.56	38.45
			H	118.80	31.46	-7.88	3.70	19.89	38.45
	848.80	251	V	120.80	34.06	-7.88	3.75	22.43	38.45
			H	118.78	31.76	-7.88	3.75	20.13	38.45

EUT Mode	Frequency (MHz)	CH	Antenna Pol.	SPA Reading (dBuV)	S.G. Output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)
EDGE 1900	1850.20	512	V	119.17	12.21	9.90	5.41	16.70	33.00
			H	120.48	13.59	9.90	5.41	18.08	33.00
	1880.00	661	V	117.26	10.31	9.99	5.46	14.84	33.00
			H	118.51	11.64	9.99	5.46	16.17	33.00
	1909.80	810	V	117.70	10.76	10.08	5.51	15.33	33.00
			H	117.98	11.13	10.08	5.51	15.69	33.00

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

7. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

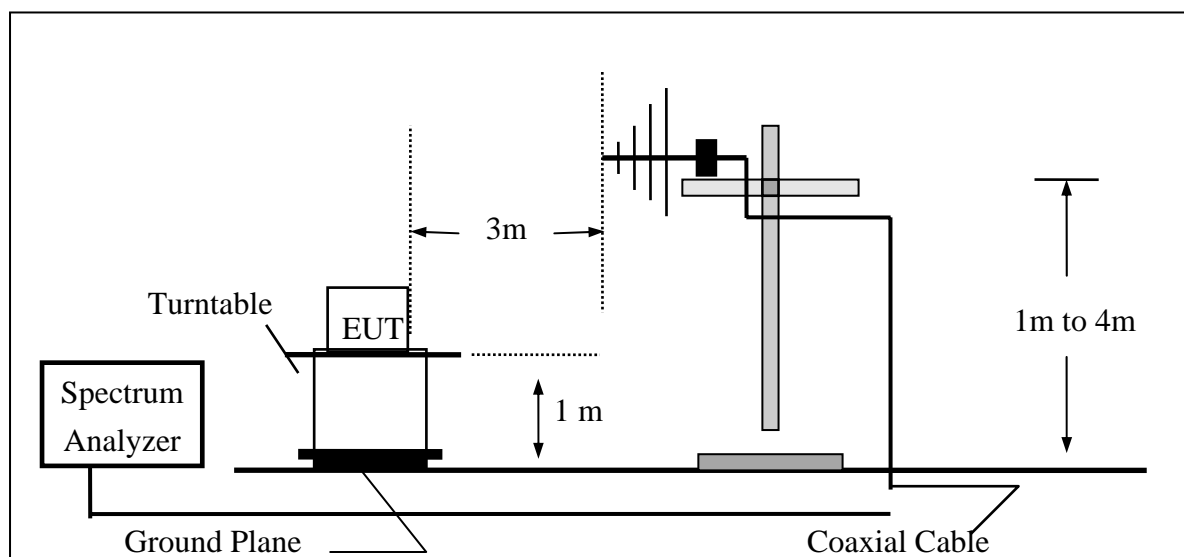
7.1 Standard Applicable

According to FCC §2.1053,

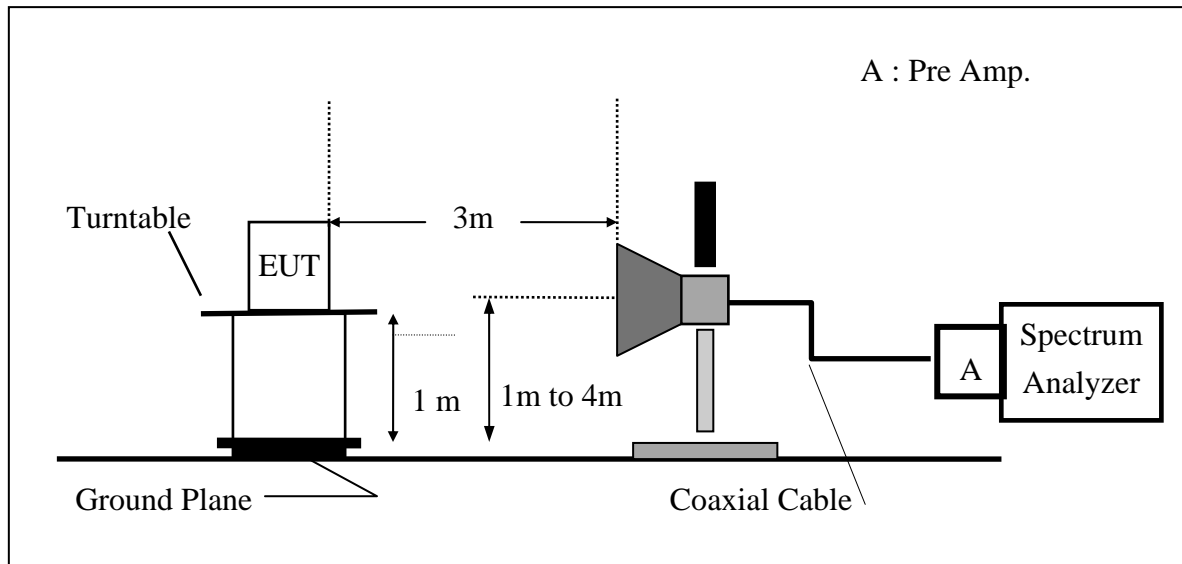
FCC §22.917(a), §24.238(a), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean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

7.2 EUT Setup (Block Diagram of Configuration)

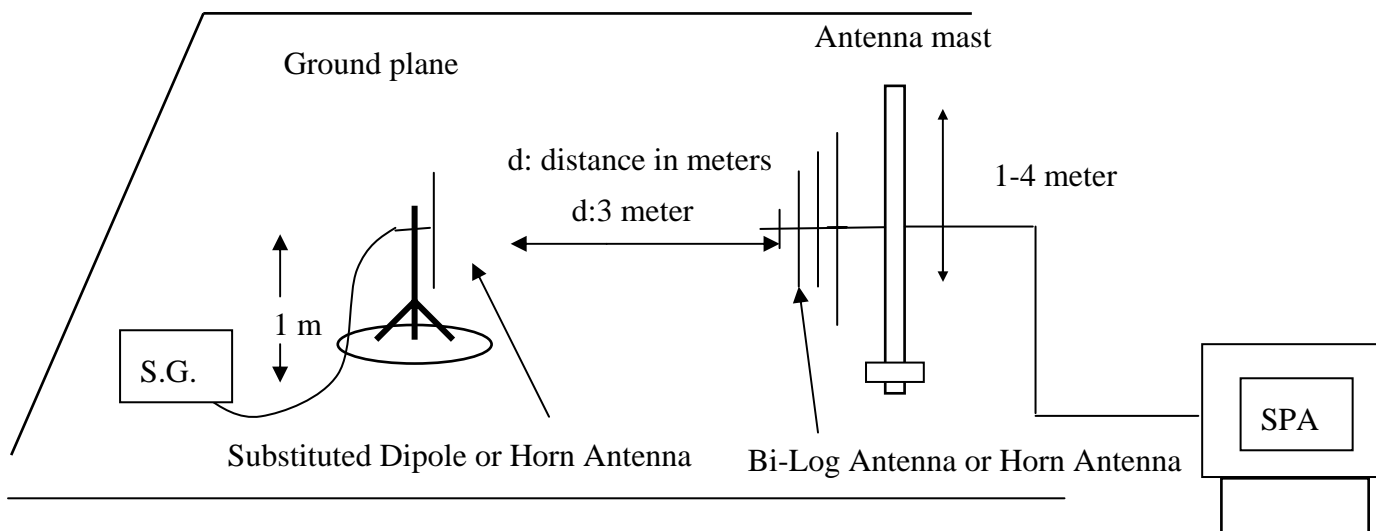
(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



(C) Substituted Method Test Set-UP



7.3 Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

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

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

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

7.4 Measurement Equipment Used:

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	03/29/2007	03/28/2008
Spectrum Analyzer	Agilent	7405A	US41160416	06/28/2007	06/29/2008
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2006	11/10/2007
Communication Test	R&S	SMU200	N/A	N/A	N/A
Bilog Antenna	SCHWAZBECK	VULB9163	152	06/03/2007	06/02/2008
Horn antenna	Schwarzbeck	BBHA 9120D	309/320	08/16/2007	08/15/2008
Pre-Amplifier	HP	8447D	2944A09469	07/19/2007	07/18/2008
Pre-Amplifier	HP	8494B	3008A00578	02/26/2007	02/25/2008
Signal Generator	R&S	SMR40	100210	02/09/2007	02/10/2008
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	11/17/2006	11/16/2007
Attenuator	Mini-Circuit	BW-S10W5	N/A	09/23/2007	09/22/2008
Dipole Antenna	Schwarzbeck	VHAP	908/909	06/10/2007	06/11/2008
Dipole Antenna	Schwarzbeck	UHAP	891/892	06/10/2007	06/11/2008
Horn antenna	Schwarzbeck	BBHA 9120D	N/A	08/16/2007	08/15/2008

7.5 Measurement Result

Refer to attach tabular data sheets.

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low
 Fundamental Frequency : 824.20 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Nov. 23, 2007
 Test By: Jason
 Pol: Vertical

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)
92.08	49.07	V	-55.18	-7.75	1.17	-64.11	-13.00	-51.11
250.19	49.63	V	-51.07	-7.89	1.99	-60.94	-13.00	-47.94
266.68	51.00	V	-49.33	-7.90	1.99	-59.21	-13.00	-46.21
417.03	46.72	V	-48.85	-7.67	2.46	-58.99	-13.00	-45.99
824.00	81.24	V	-6.09	-7.87	3.64	-17.61	-13.00	-4.61
1648.40	46.71	V	-60.33	9.29	5.06	-56.10	-13.00	-43.10
2472.60	61.62	V	-42.44	10.08	6.30	-38.67	-13.00	-25.67
3296.80	---	V		12.17	7.26		-13.00	
4121.00	43.45	V	-56.33	12.61	8.33	-52.04	-13.00	-39.04
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 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Low
 Fundamental Frequency : 824.20 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Nov. 23, 2007
 Test By: Jason
 Pol: Horizontal

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)
31.94	53.21	H	-52.09	-6.43	0.70	-59.22	-13.00	-46.22
264.74	52.08	H	-48.44	-7.90	1.99	-58.32	-13.00	-45.32
417.03	44.71	H	-51.31	-7.67	2.46	-61.45	-13.00	-48.45
533.43	41.44	H	-51.36	-7.75	2.74	-61.84	-13.00	-48.84
824.00	81.19	H	-6.47	-7.87	3.64	-17.99	-13.00	-4.99
1648.40	46.84	H	-60.17	9.29	5.06	-55.94	-13.00	-42.94
2472.60	56.79	H	-47.27	10.08	6.30	-43.49	-13.00	-30.49
3296.80	---	H		12.17	7.26		-13.00	
4121.00	40.22	H	-59.43	12.61	8.33	-55.14	-13.00	-42.14
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 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid
 Fundamental Frequency : 836.60 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Nov. 23, 2007
 Test By: Jason
 Pol: Vertical

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)
30.00	52.73	V	-51.97	-7.34	0.69	-60.00	-13.00	-47.00
92.08	49.31	V	-54.94	-7.75	1.17	-63.87	-13.00	-50.87
264.74	51.09	V	-49.28	-7.90	1.99	-59.16	-13.00	-46.16
334.58	45.89	V	-52.56	-7.73	2.33	-62.61	-13.00	-49.61
417.03	50.22	V	-45.35	-7.67	2.46	-55.49	-13.00	-42.49
533.43	41.60	V	-51.97	-7.75	2.74	-62.45	-13.00	-49.45
1673.20	44.70	V	-62.33	9.36	5.10	-58.07	-13.00	-45.07
2509.80	55.73	V	-48.15	10.09	6.35	-44.41	-13.00	-31.41
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH Mid
 Fundamental Frequency : 836.60 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Nov. 23, 2007
 Test By: Jason
 Pol: Horizontal

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)
30.00	53.44	H	-52.46	-7.34	0.69	-60.49	-13.00	-47.49
266.68	51.36	H	-49.11	-7.90	1.99	-59.00	-13.00	-46.00
334.58	43.30	H	-54.62	-7.73	2.33	-64.67	-13.00	-51.67
376.29	41.71	H	-55.02	-7.65	2.44	-65.12	-13.00	-52.12
417.03	46.12	H	-49.90	-7.67	2.46	-60.04	-13.00	-47.04
531.49	41.61	H	-51.25	-7.75	2.74	-61.73	-13.00	-48.73
1673.20	51.62	H	-55.38	9.36	5.10	-51.11	-13.00	-38.11
2509.80	53.26	H	-50.61	10.09	6.35	-46.87	-13.00	-33.87
3346.40	---	H		12.28	7.29		-13.00	
4183.00	---	H		12.62	8.40		-13.00	
5019.60	---	H		12.67	9.26		-13.00	
5856.20	---	H		13.68	9.85		-13.00	
6692.80	---	H		11.95	10.74		-13.00	
7529.40	---	H		11.45	11.35		-13.00	
8366.00	---	H		11.59	12.43		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High
 Fundamental Frequency : 848.80 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Nov. 23, 2007
 Test By: Jason
 Pol: Vertical

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)
30.00	52.59	V	-52.11	-7.34	0.69	-60.14	-13.00	-47.14
250.19	49.88	V	-50.82	-7.89	1.99	-60.69	-13.00	-47.69
266.68	51.14	V	-49.19	-7.90	1.99	-59.07	-13.00	-46.07
419.94	44.38	V	-51.11	-7.68	2.47	-61.25	-13.00	-48.25
850.00	80.12	V	-6.59	-7.88	3.75	-18.22	-13.00	-5.22
1697.60	47.05	V	-59.97	9.44	5.14	-55.68	-13.00	-42.68
2546.40	48.05	V	-55.74	10.20	6.40	-51.94	-13.00	-38.94
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: GSM 850 Mode

Operation Mode : TX CH High
 Fundamental Frequency : 848.80 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Nov. 23, 2007
 Test By: Jason
 Pol: Horizontal

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)
31.94	53.18	H	-52.12	-6.43	0.70	-59.25	-13.00	-46.25
264.74	51.95	H	-48.57	-7.90	1.99	-58.45	-13.00	-45.45
417.03	45.69	H	-50.33	-7.67	2.46	-60.47	-13.00	-47.47
533.43	41.40	H	-51.40	-7.75	2.74	-61.88	-13.00	-48.88
850.00	79.54	H	-7.45	-7.88	3.75	-19.08	-13.00	-6.08
1697.60	50.12	H	-56.86	9.44	5.14	-52.57	-13.00	-39.57
2546.40	50.00	H	-53.78	10.20	6.40	-49.98	-13.00	-36.98
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 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low
 Fundamental Frequency : 1850.20MHz
 Temperature : 25°C
 Humidity : 65%

Test Date : Nov. 23, 2007
 Test By: Jason
 Pol: Vertical

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)
266.68	51.62	V	-48.71	-7.90	1.99	-58.59	-13.00	-45.59
417.03	48.88	V	-46.69	-7.67	2.46	-56.83	-13.00	-43.83
531.49	42.47	V	-51.16	-7.75	2.74	-61.64	-13.00	-48.64
751.68	38.93	V	-49.30	-7.87	3.44	-60.61	-13.00	-47.61
1850.00	74.35	V	-32.61	9.90	5.41	-28.12	-13.00	-15.12
3700.40	40.50	V	-61.08	12.61	7.73	-56.20	-13.00	-43.20
5550.60	39.31	V	-55.90	13.23	9.68	-52.36	-13.00	-39.36
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH Low
 Fundamental Frequency : 1850.20MHz
 Temperature : 25°C
 Humidity : 65%

Test Date : Nov. 23, 2007
 Test By: Jason
 Pol: Horizontal

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)
31.94	51.43	H	-53.87	-6.43	0.70	-61.00	-13.00	-48.00
266.68	51.67	H	-48.80	-7.90	1.99	-58.69	-13.00	-45.69
417.03	44.79	H	-51.23	-7.67	2.46	-61.37	-13.00	-48.37
533.43	41.72	H	-51.08	-7.75	2.74	-61.56	-13.00	-48.56
1850.00	76.51	H	-30.38	9.90	5.41	-25.89	-13.00	-12.89
3700.40	37.59	H	-63.77	12.61	7.73	-58.89	-13.00	-45.89
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

Radiated Spurious Emission Measurement Result : PCS 1900 Mode

Operation Mode : TX CH Mid
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date Nov. 23, 2007
 Test By Jason
 Pol Vertical

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)
266.68	51.57	V	-48.76	-7.90	1.99	-58.64	-13.00	-45.64
334.58	46.84	V	-51.61	-7.73	2.33	-61.66	-13.00	-48.66
417.03	48.55	V	-47.02	-7.67	2.46	-57.16	-13.00	-44.16
751.68	38.65	V	-49.58	-7.87	3.44	-60.89	-13.00	-47.89
3760.00	36.79	V	-64.51	12.60	7.82	-59.73	-13.00	-46.73
5640.00	35.79	V	-59.17	13.36	9.73	-55.54	-13.00	-42.54
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 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result : PCS 1900 Mode

Operation Mode : TX CH Mid
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date Nov. 23, 2007
 Test By Jason
 Pol Horizontal

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)
30.00	63.34	H	-42.56	-7.34	0.69	-50.59	-13.00	-37.59
264.74	52.15	H	-48.37	-7.90	1.99	-58.25	-13.00	-45.25
533.43	41.72	H	-51.08	-7.75	2.74	-61.56	-13.00	-48.56
3760.00	---	H		12.60	7.82		-13.00	
4202.50	35.82	H	-63.53	12.62	8.42	-59.32	-13.00	-46.32
5640.00	35.55	H	-59.34	13.36	9.73	-55.71	-13.00	-42.71
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High
 Fundamental Frequency : 1909.8 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date Nov. 23, 2007
 Test By Jason
 Pol Vertical

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)
264.74	51.09	V	-49.28	-7.90	1.99	-59.16	-13.00	-46.16
417.03	47.43	V	-48.14	-7.67	2.46	-58.28	-13.00	-45.28
751.68	39.51	V	-48.72	-7.87	3.44	-60.03	-13.00	-47.03
1910.00	73.85	V	-33.09	10.08	5.51	-28.52	-13.00	-15.52
3981.60	---	V		12.60	8.17		-13.00	
5717.50	36.29	V	-58.45	13.48	9.77	-54.74	-13.00	-41.74
5972.40	---	V		13.86	9.91		-13.00	
7963.20	---	V		11.27	11.88		-13.00	
9954.00	---	V		12.08	13.43		-13.00	
11944.80	---	V		13.08	15.21		-13.00	
13935.60	---	V		11.82	16.86		-13.00	
15926.40	---	V		17.08	18.33		-13.00	
17917.20	---	V		9.63	20.12		-13.00	
19908.00	---	V		18.88	20.85		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: PCS 1900 Mode

Operation Mode : TX CH High
 Fundamental Frequency : 1909.8 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date : Nov. 23, 2007
 Test By : Jason
 Pol : Horizontal

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)
30.00	53.07	H	-52.83	-7.34	0.69	-60.86	-13.00	-47.86
266.68	52.07	H	-48.40	-7.90	1.99	-58.29	-13.00	-45.29
417.03	45.53	H	-50.49	-7.67	2.46	-60.63	-13.00	-47.63
1910.00	71.84	H	-35.01	10.08	5.51	-30.45	-13.00	-17.45
3981.60	---	H		12.60	8.17		-13.00	
5717.50	35.46	H	-59.23	13.48	9.77	-55.52	-13.00	-42.52
5972.40	---	H		13.86	9.91		-13.00	
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	
17917.20	---	H		9.63	20.12		-13.00	
19908.00	---	H		18.88	20.85		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode : TX CH Low
 Fundamental Frequency : 824.20 MHz
 Temperature : 25°C
 Humidity : 65%

Test Date: Nov. 23, 2007
 Test By: Jason
 Pol: Vertical

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)
30.00	51.46	V	-53.24	-7.34	0.69	-61.27	-13.00	-48.27
264.74	51.56	V	-48.81	-7.90	1.99	-58.69	-13.00	-45.69
417.03	45.65	V	-49.92	-7.67	2.46	-60.06	-13.00	-47.06
824.00	74.67	V	-12.66	-7.87	3.64	-24.18	-13.00	-11.18
1648.40	---	V		9.29	5.06		-13.00	
1742.50	41.03	V	-65.97	9.57	5.22	-61.62	-13.00	-48.62
2472.60	45.12	V	-58.94	10.08	6.30	-55.17	-13.00	-42.17
3296.80	---	V		12.17	7.26		-13.00	
4121.00	37.84	V	-61.94	12.61	8.33	-57.65	-13.00	-44.65
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 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode : TX CH Low

Test Date: Nov. 23, 2007

Fundamental Frequency : 824.20 MHz

Test By: Jason

Temperature : 25°C

Pol: Horizontal

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)
31.94	53.49	H	-51.81	-6.43	0.70	-58.94	-13.00	-45.94
264.74	52.75	H	-47.77	-7.90	1.99	-57.65	-13.00	-44.65
417.03	45.70	H	-50.32	-7.67	2.46	-60.46	-13.00	-47.46
824.00	72.53	H	-15.13	-7.87	3.64	-26.65	-13.00	-13.65
1648.40	40.02	H	-66.99	9.29	5.06	-62.76	-13.00	-49.76
2472.60	42.69	H	-61.37	10.08	6.30	-57.59	-13.00	-44.59
3296.80	37.97	H	-64.39	12.17	7.26	-59.48	-13.00	-46.48
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 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode : TX CH Mid

Test Date: Nov. 23, 2007

Fundamental Frequency : 836.60 MHz

Test By: Jason

Temperature : 25°C

Pol: Vertical

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)
30.00	52.49	V	-52.21	-7.34	0.69	-60.24	-13.00	-47.24
264.74	51.41	V	-48.96	-7.90	1.99	-58.84	-13.00	-45.84
417.03	45.23	V	-50.34	-7.67	2.46	-60.48	-13.00	-47.48
533.43	42.02	V	-51.55	-7.75	2.74	-62.03	-13.00	-49.03
1673.20	---	V		9.36	5.10		-13.00	
1915.00	40.83	V	-66.10	10.09	5.52	-61.53	-13.00	-48.53
2509.80	42.98	V	-60.90	10.09	6.35	-57.16	-13.00	-44.16
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 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode : TX CH Mid

Test Date: Nov. 23, 2007

Fundamental Frequency : 836.60 MHz

Test By: Jason

Temperature : 25°C

Pol: Horizontal

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)
31.94	53.54	H	-51.76	-6.43	0.70	-58.89	-13.00	-45.89
264.74	52.81	H	-47.71	-7.90	1.99	-57.59	-13.00	-44.59
417.03	44.60	H	-51.42	-7.67	2.46	-61.56	-13.00	-48.56
533.43	41.44	H	-51.36	-7.75	2.74	-61.84	-13.00	-48.84
1673.20	42.90	H	-64.10	9.36	5.10	-59.83	-13.00	-46.83
2509.80	56.72	H	-47.15	10.09	6.35	-43.41	-13.00	-30.41
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode : TX CH High

Test Date: Nov. 23, 2007

Fundamental Frequency : 848.80 MHz

Test By: Jason

Temperature : 25°C

Pol: Vertical

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)
250.19	49.40	V	-51.30	-7.89	1.99	-61.17	-13.00	-48.17
264.74	51.72	V	-48.65	-7.90	1.99	-58.53	-13.00	-45.53
417.03	46.76	V	-48.81	-7.67	2.46	-58.95	-13.00	-45.95
850.00	75.03	V	-11.68	-7.88	3.75	-23.31	-13.00	-10.31
1697.60	---	V		9.44	5.14		-13.00	
1742.50	50.05	V	-56.95	9.57	5.22	-52.60	-13.00	-39.60
2546.40	42.84	V	-60.95	10.20	6.40	-57.15	-13.00	-44.15
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + Antenna \text{ Gain (dB/dBi)} - Cable \text{ loss (dB)}$

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Radiated Spurious Emission Measurement Result: EDGE 850 Mode

Operation Mode : TX CH High

Test Date: Nov. 23, 2007

Fundamental Frequency : 848.80 MHz

Test By: Jason

Temperature : 25°C

Pol: Horizontal

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)
31.94	53.98	H	-51.32	-6.43	0.70	-58.45	-13.00	-45.45
266.68	52.61	H	-47.86	-7.90	1.99	-57.75	-13.00	-44.75
417.03	45.21	H	-50.81	-7.67	2.46	-60.95	-13.00	-47.95
850.00	74.08	H	-12.91	-7.88	3.75	-24.54	-13.00	-11.54
1697.60	41.40	H	-65.58	9.44	5.14	-61.29	-13.00	-48.29
2546.40	37.30	H	-66.48	10.20	6.40	-62.68	-13.00	-49.68
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Low
 Fundamental Frequency : 1850.20MHz
 Temperature : 25°C
 Humidity : 65%

Test Date : Nov. 23, 2007
 Test By: Jason
 Pol: Vertical

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)
250.19	50.62	V	-50.08	-7.89	1.99	-59.95	-13.00	-46.95
264.74	51.45	V	-48.92	-7.90	1.99	-58.80	-13.00	-45.80
417.03	46.79	V	-48.78	-7.67	2.46	-58.92	-13.00	-45.92
751.68	40.12	V	-48.11	-7.87	3.44	-59.42	-13.00	-46.42
1850.00	73.16	V	-33.80	9.90	5.41	-29.31	-13.00	-16.31
3700.40	39.69	V	-61.89	12.61	7.73	-57.01	-13.00	-44.01
5550.60	36.28	V	-58.93	13.23	9.68	-55.39	-13.00	-42.39
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Low
 Fundamental Frequency : 1850.20MHz
 Temperature : 25°C
 Humidity : 65%

Test Date : Nov. 23, 2007
 Test By: Jason
 Pol: Horizontal

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)
31.94	52.85	H	-52.45	-6.43	0.70	-59.58	-13.00	-46.58
264.74	52.99	H	-47.53	-7.90	1.99	-57.41	-13.00	-44.41
417.03	45.33	H	-50.69	-7.67	2.46	-60.83	-13.00	-47.83
1850.00	74.51	H	-32.38	9.90	5.41	-27.89	-13.00	-14.89
3700.40	36.31	H	-65.05	12.61	7.73	-60.17	-13.00	-47.17
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 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 $ERP/EIRP (dBm) = SG \text{ Setting}(dBm) + Antenna \text{ Gain} (dB/dBi) - Cable \text{ loss} (dB)$

Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Mid

Test Date Nov. 23, 2007

Fundamental Frequency : 1880MHz

Test By Jason

Temperature : 25°C

Pol Vertical

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)
30.00	53.01	V	-51.69	-7.34	0.69	-59.72	-13.00	-46.72
264.74	51.77	V	-48.60	-7.90	1.99	-58.48	-13.00	-45.48
417.03	44.56	V	-51.01	-7.67	2.46	-61.15	-13.00	-48.15
751.68	40.45	V	-47.78	-7.87	3.44	-59.09	-13.00	-46.09
3760.00	38.29	V	-63.01	12.60	7.82	-58.23	-13.00	-45.23
5640.00	36.10	V	-58.86	13.36	9.73	-55.23	-13.00	-42.23
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH Mid
 Fundamental Frequency : 1880MHz
 Temperature : 25°C
 Humidity : 65%

Test Date : Nov. 23, 2007
 Test By : Jason
 Pol : Horizontal

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)
31.94	52.74	H	-52.56	-6.43	0.70	-59.69	-13.00	-46.69
264.74	52.45	H	-48.07	-7.90	1.99	-57.95	-13.00	-44.95
417.03	45.40	H	-50.62	-7.67	2.46	-60.76	-13.00	-47.76
533.43	41.89	H	-50.91	-7.75	2.74	-61.39	-13.00	-48.39
3760.00	---	H		12.60	7.82		-13.00	
3842.50	35.34	H	-65.42	12.60	7.95	-60.77	-13.00	-47.77
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 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 $ERP/EIRP \text{ (dBm)} = SG \text{ Setting (dBm)} + \text{Antenna Gain (dB/dBi)} - \text{Cable loss (dB)}$

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH High

Test Date Nov. 23, 2007

Fundamental Frequency : 1909.8 MHz

Test By Jason

Temperature : 25°C

Pol Vertical

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)
30.00	51.40	V	-53.30	-7.34	0.69	-61.33	-13.00	-48.33
264.74	52.14	V	-48.23	-7.90	1.99	-58.11	-13.00	-45.11
751.68	39.76	V	-48.47	-7.87	3.44	-59.78	-13.00	-46.78
1910.00	72.41	V	-34.53	10.08	5.51	-29.96	-13.00	-16.96
3981.60	---	V		12.60	8.17		-13.00	
5717.50	39.65	V	-55.09	13.48	9.77	-51.38	-13.00	-38.38
5972.40	---	V		13.86	9.91		-13.00	
7963.20	---	V		11.27	11.88		-13.00	
9954.00	---	V		12.08	13.43		-13.00	
11944.80	---	V		13.08	15.21		-13.00	
13935.60	---	V		11.82	16.86		-13.00	
15926.40	---	V		17.08	18.33		-13.00	
17917.20	---	V		9.63	20.12		-13.00	
19908.00	---	V		18.88	20.85		-13.00	

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

Remark :

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

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Radiated Spurious Emission Measurement Result: EDGE 1900 Mode

Operation Mode : TX CH High

Test Date Nov. 23, 2007

Fundamental Frequency : 1909.8 MHz

Test By Jason

Temperature : 25°C

Pol Horizontal

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)
31.94	52.91	H	-52.39	-6.43	0.70	-59.52	-13.00	-46.52
264.74	53.13	H	-47.39	-7.90	1.99	-57.27	-13.00	-44.27
1910.00	72.00	H	-34.85	10.08	5.51	-30.29	-13.00	-17.29
3981.60	---	H		12.60	8.17		-13.00	
5680.00	35.07	H	-59.71	13.42	9.75	-56.05	-13.00	-43.05
5972.40	---	H		13.86	9.91		-13.00	
7963.20	---	H		11.27	11.88		-13.00	
9954.00	---	H		12.08	13.43		-13.00	
11944.80	---	H		13.08	15.21		-13.00	
13935.60	---	H		11.82	16.86		-13.00	
15926.40	---	H		17.08	18.33		-13.00	
17917.20	---	H		9.63	20.12		-13.00	
19908.00	---	H		18.88	20.85		-13.00	

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

Remark :

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

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8. AC POWER LINE CONDUCTED EMISSION TEST

8.1 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.		

8.2 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.

8.3 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.

8.4 Measurement Equipment Used:

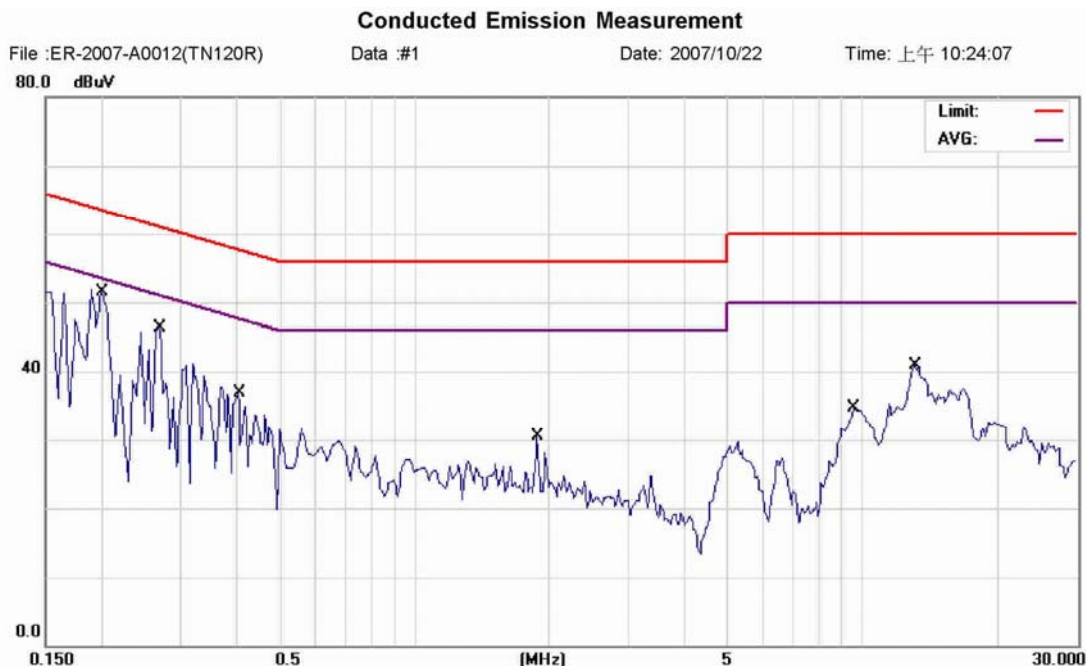
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMC Analyzer	HP	8594EM	3624A00203	09/02/2007	09/03/2008
EMI Test Receiver	R&S	ESCS30	828985/004	06/09/2007	06/10/2008
Transient Limiter	HP	11947A	3107A02062	09/02/2007	09/03/2008
LISN	Rolf-Heine	NNB-2/16Z	99012	12/31/2006	12/30/2007
LISN	Rolf-Heine	NNB-2/16Z	99013	12/24/2006	12/23/2007
Coaxial Cables	N/A	No. 3, 4	N/A	12/24/2006	12/23/2007

8.5 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 850 LINK			Test Date:	Oct. 22, 2007
Temperature:	24 °C	Humidity:	60 %	Test By:	Jason



Site SGS CONDUCTED #1

Phase: **L1**

Temperature: 24 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Notebook

Distance:

Air Pressure: hpa

M/N: TN120R

Note: GSM 850 Link Mode

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2000	51.58	0.02	51.60	63.61	-12.01	QP	
2		0.2700	46.19	0.02	46.21	61.12	-14.91	QP	
3		0.4050	36.88	0.02	36.90	57.75	-20.85	QP	
4		1.8800	30.40	0.04	30.44	56.00	-25.56	QP	
5		9.6000	34.53	0.23	34.76	60.00	-25.24	QP	
6		13.1200	40.67	0.26	40.93	60.00	-19.07	QP	

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Conducted Emission Measurement

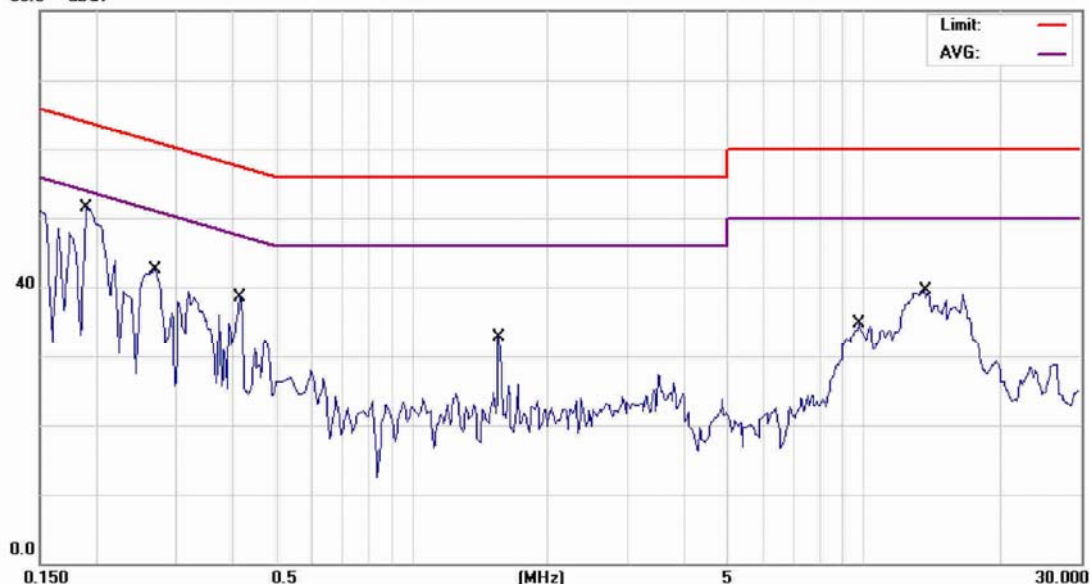
File :ER-2007-A0012(TN120R)

Data :#2

Date: 2007/10/22

Time: 上午 10:26:44

80.0 dBuV



Site SGS CONDUCTED #1

Phase: N

Temperature: 24 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Notebook

Distance:

Air Pressure: hpa

M/N: TN120R

Note: GSM 850 Link Mode

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1900	51.38	0.03	51.41	64.04	-12.63	QP	
2		0.2700	42.55	0.02	42.57	61.12	-18.55	QP	
3		0.4150	38.54	0.02	38.56	57.55	-18.99	QP	
4		1.5600	32.66	0.03	32.69	56.00	-23.31	QP	
5		9.7600	34.46	0.23	34.69	60.00	-25.31	QP	
6		13.6800	39.18	0.26	39.44	60.00	-20.56	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	GSM 1900 LINK			Test Date:	Oct. 22, 2007
Temperature:	24 °C	Humidity:	60 %	Test By:	Jason

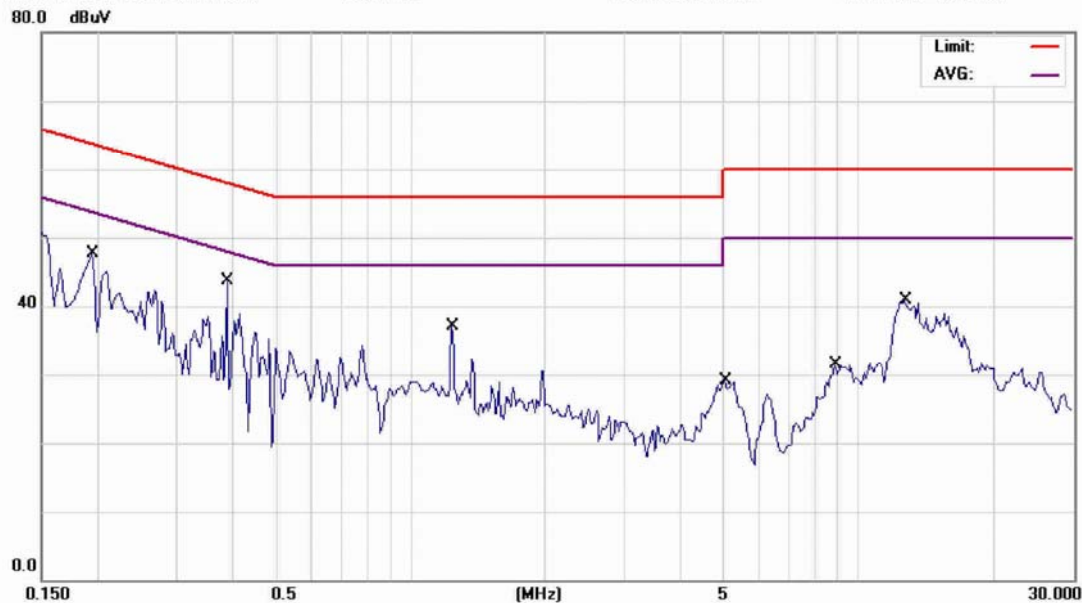
Conducted Emission Measurement

File :ER-2007-A0012(TN120R)

Data :#5

Date: 2007/10/22

Time: 上午 10:37:04



Site SGS CONDUCTED #1

Phase: L1

Temperature: 24 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Notebook

Distance:

Air Pressure: hpa

M/N: TN120R

Note: GSM 1900 Link Mode

No. Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.1950	47.78	0.02	47.80	63.82	-16.02	QP	
2 *	0.3900	43.75	0.02	43.77	58.06	-14.29	QP	
3	1.2400	37.17	0.02	37.19	56.00	-18.81	QP	
4	5.0400	28.95	0.11	29.06	60.00	-30.94	QP	
5	8.8800	31.28	0.21	31.49	60.00	-28.51	QP	
6	12.7200	40.64	0.26	40.90	60.00	-19.10	QP	

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Conducted Emission Measurement

File :ER-2007-A0012(TN120R)

Data :#6

Date: 2007/10/22

Time: 上午 10:39:44



Site SGS CONDUCTED #1

Phase: N

Temperature: 24 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Notebook

Distance:

Air Pressure: hpa

M/N: TN120R

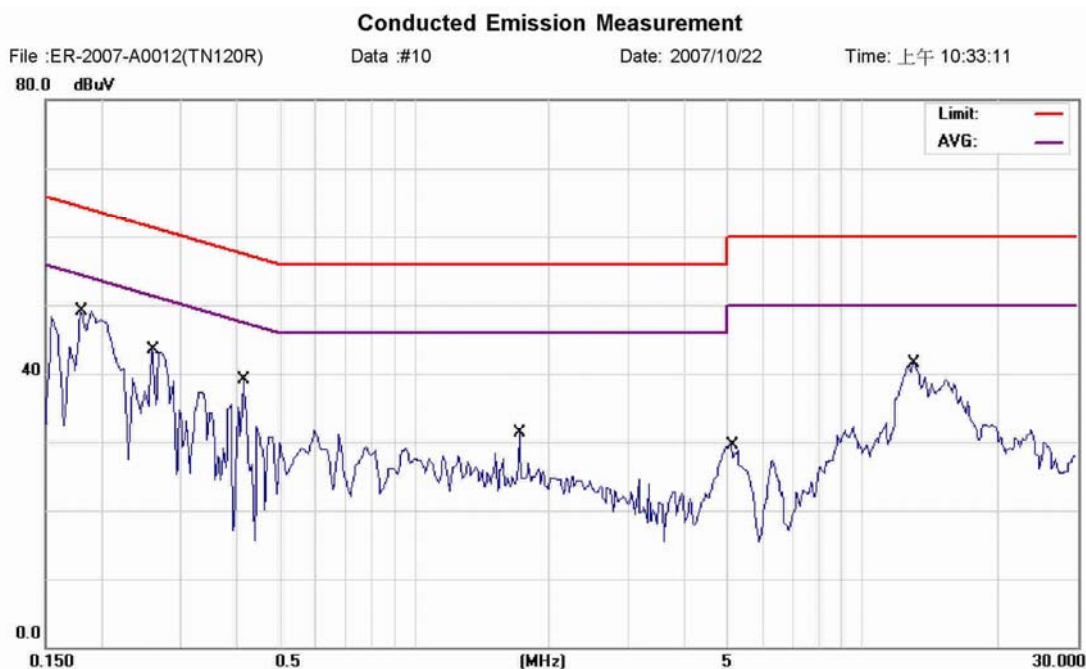
Note: GSM 1900 Link Mode

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1900	47.80	0.03	47.83	64.04	-16.21	QP	
2		0.2650	40.78	0.02	40.80	61.27	-20.47	QP	
3		0.4200	38.81	0.02	38.83	57.45	-18.62	QP	
4		0.8200	33.97	0.01	33.98	56.00	-22.02	QP	
5		9.5600	32.31	0.23	32.54	60.00	-27.46	QP	
6		13.1600	41.05	0.26	41.31	60.00	-18.69	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	EDGE 850 LINK		Test Date:	Oct. 22, 2007	
Temperature:	24 °C	Humidity:	60 %	Test By:	Jason



Site SGS CONDUCTED #1

Phase: **L1**

Temperature: 24 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Notebook

Distance:

Air Pressure: hpa

M/N: TN120R

Note: EGPRS 850 Link Mode

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1800	49.13	0.03	49.16	64.49	-15.33	QP	
2		0.2600	43.46	0.02	43.48	61.43	-17.95	QP	
3		0.4150	39.01	0.02	39.03	57.55	-18.52	QP	
4		1.7200	31.35	0.03	31.38	56.00	-24.62	QP	
5		5.1200	29.46	0.11	29.57	60.00	-30.43	QP	
6		13.0400	41.21	0.26	41.47	60.00	-18.53	QP	

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Conducted Emission Measurement

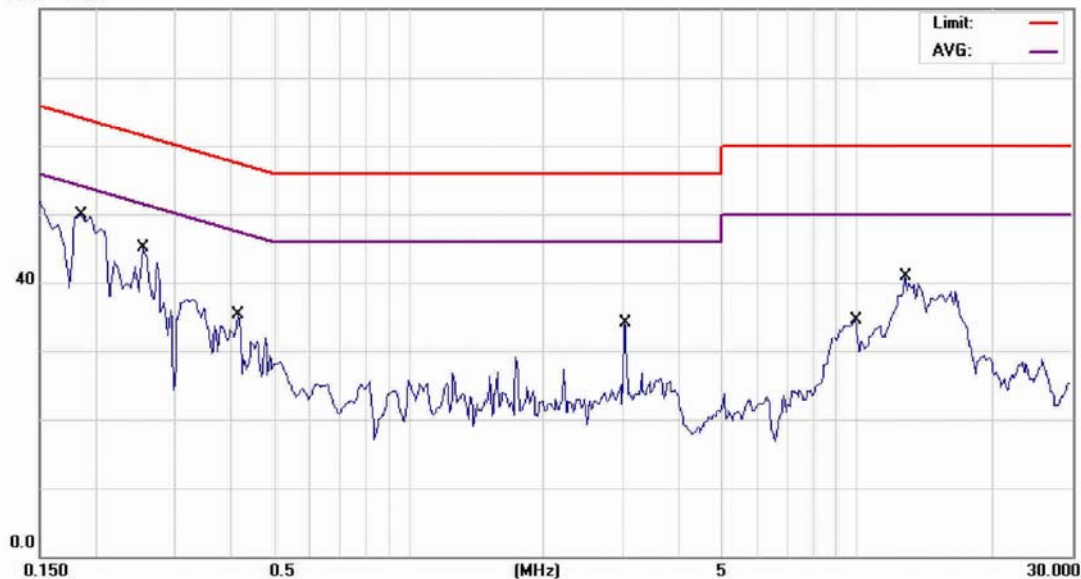
File :ER-2007-A0012(TN120R)

Data :#9

Date: 2007/10/22

Time: 上午 10:30:20

80.0 dBuV



Site SGS CONDUCTED #1

Phase: N

Temperature: 24 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Notebook

Distance:

Air Pressure: hpa

M/N: TN120R

Note: EGPRS 850 Link Mode

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1850	49.88	0.03	49.91	64.26	-14.35	QP	
2		0.2550	45.09	0.02	45.11	61.59	-16.48	QP	
3		0.4150	35.22	0.02	35.24	57.55	-22.31	QP	
4		3.0400	34.13	0.06	34.19	56.00	-21.81	QP	
5		9.9200	34.24	0.24	34.48	60.00	-25.52	QP	
6		12.8400	40.66	0.26	40.92	60.00	-19.08	QP	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	EDGE 1900 LINK			Test Date:	Oct. 22, 2007
Temperature:	24 °C	Humidity:	60 %	Test By:	Jason

Conducted Emission Measurement

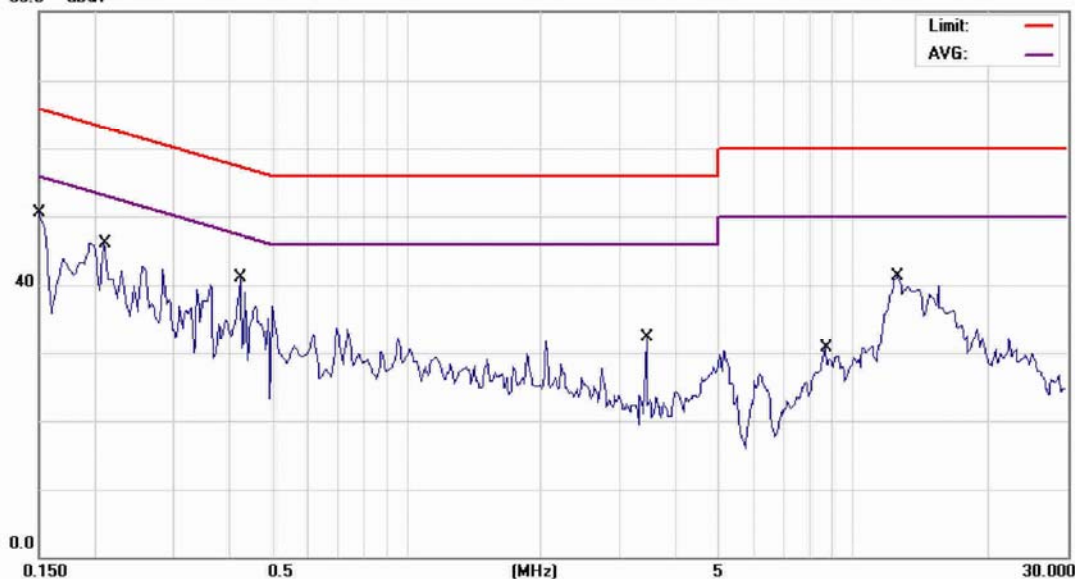
File :ER-2007-A0012(TN120R)

Data :#12

Date: 2007/10/22

Time: 上午 10:45:15

80.0 dBuV



Site SGS CONDUCTED #1

Phase: L1

Temperature: 24 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Notebook

Distance:

Air Pressure: hpa

M/N: TN120R

Note: EGPRS 1900 Link Mode

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	50.52	0.05	50.57	66.00	-15.43	QP	
2		0.2100	46.11	0.02	46.13	63.21	-17.08	QP	
3		0.4250	41.10	0.02	41.12	57.35	-16.23	QP	
4		3.4600	32.34	0.06	32.40	56.00	-23.60	QP	
5		8.7200	30.52	0.21	30.73	60.00	-29.27	QP	
6		12.6400	40.98	0.26	41.24	60.00	-18.76	QP	

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Conducted Emission Measurement

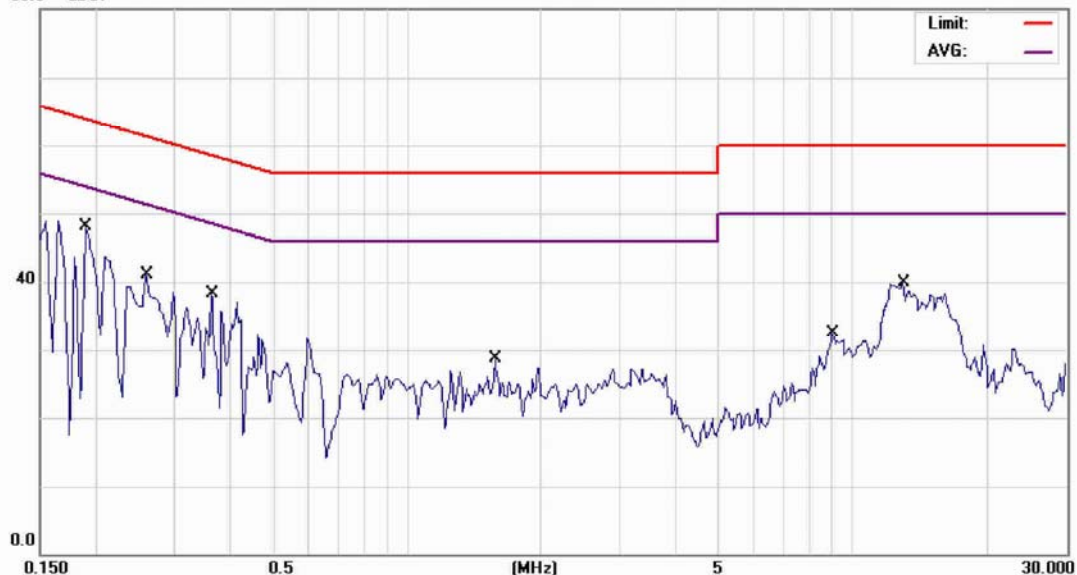
File :ER-2007-A0012(TN120R)

Data :#11

Date: 2007/10/22

Time: 上午 10:43:00

80.0 dBuV



Site SGS CONDUCTED #1

Phase: N

Temperature: 24 °C

Limit: CISPR22 Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 60 %

EUT: Notebook

Distance:

Air Pressure: hpa

M/N: TN120R

Note: EGPRS 1900 Link Mode

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1900	48.06	0.03	48.09	64.04	-15.95	QP	
2		0.2600	41.01	0.02	41.03	61.43	-20.40	QP	
3		0.3650	38.20	0.02	38.22	58.61	-20.39	QP	
4		1.5800	28.59	0.03	28.62	56.00	-27.38	QP	
5		9.0400	32.28	0.21	32.49	60.00	-27.51	QP	
6		13.0000	39.55	0.26	39.81	60.00	-20.19	QP	

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