



FCC TEST REPORT

for

47 CFR Part 22H, 24E

Equipment : CDMA 1xRTT IS2000 Mobile Phone
Trade Name : RH-108
FCC ID : QMNRH-108
Uplink Frequency Range : CDMA2000 Cellular 850 : 824.70~848.31 MHz
CDMA2000 PCS 1900 : 1851.25~1908.75 MHz
Max. ERP/EIRP Power : CDMA2000 Cellular 850 : 0.13 W
CDMA2000 PCS 1900 : 0.45 W
Emission Designator : 1M25F9W
Applicant : Nokia Inc.
12278 Scripps Summit Dr. San Diego CA 92131 USA

- The test result refers exclusively to the test presented test model / sample.
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- **Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.**
- The data shown in this test report were carried out on Sep. 18, 2007 at **Sporton International Inc. LAB.**
- Report No.: FG791904, Report Version: Rev. 01.

Technical Reviewer
Jones Tsai / Manager

Report Reviewer
Roy Wu / Manager

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.



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History of this test report

Report Issue Date: Sep. 29, 2007

Report No.	Description



1. General Information

1.1. Applicant

Nokia Inc.
12278 Scripps Summit Dr. San Diego CA 92131 USA

1.2 Manufacturer

Foxconn International Holdings Limited
No. 2, 2nd DongHuan Road, 10th YouSong Industrial District, Longhua Town, Baoan, Shenzhen,
GuangDong, China

1.3 Basic Description of Equipment under Test

Equipment	: CDMA 1xRTT IS2000 Mobile Phone
Trade Name	: RH-108
FCC ID	: QMNRH-108
Power Supply Type	: Switching, From battery 3.7V
AC Power Cord	: AC 120V, Wall-mount, 1.8 meter, 2 pin
Adapter	: Nokia, AC-3U
Battery	: Nokia, BL-5B
Earphone	: Nokia, HS-9



1.4 Feature of Equipment under Test

DUT Type :	CDMA 1xRTT IS2000 Mobile Phone
Trade Name :	RH-108
FCC ID :	QMNRH-108
MEID :	A00000011E70D8
Tx Frequency :	CDMA2000 Cellular 850 : 824 ~ 849 MHz CDMA2000 PCS 1900 : 1850 ~1910 MHz
Maximum Output Power :	CDMA2000 Cellular 850 RC3/SO55 : 24.49 dBm CDMA2000 PCS1900 RC3/SO55 : 23.55 dBm
Maximum ERP/EIRP :	CDMA2000 Cellular 850 : 0.13 W (21.16 dBm) CDMA2000 PCS1900 : 0.45 W (26.58 dBm)
Antenna Type :	Fixed Internal
HW ID :	3100
SW Version :	SH_0322B_GEN
Digital Modulation Emission :	QPSK
Type of Emission :	1M25F9W
Device Power Class :	CDMA2000 Cellular 850 : 3 CDMA2000 PCS1900 : 2
DUT Stage :	Identical Prototype

1.5 Report Date

EUT Received : Sep. 18, 2007

Report Date : Sep. 29, 2007

2 Test Configuration of Equipment under Test

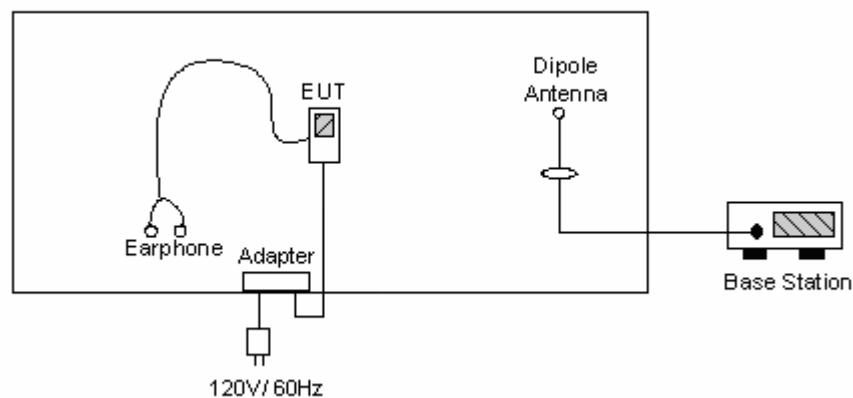
2.1 Test Manner

- The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.
- During all testings, EUT is in link mode with base station emulator at maximum power level.
- Frequency range investigated: radiated emission 30 MHz to 9000 MHz for CDMA2000 Cellular 850; 30MHz to 19000 MHz for CDMA2000 PCS 1900.
- For radiated measurements, the results were the maximum of those obtained in three orthogonal axes and only showed the worst data in this report.

2.2 Test Mode

Application	CDMA2000 Cellular 850	CDMA2000 PCS 1900
Radiated Emission	☒ Mode 1: 1xRTT Link Mode_CH1013	☒ Mode 4: 1xRTT Link Mode_CH25
	☒ Mode 2: 1xRTT Link Mode_CH384	☒ Mode 5: 1xRTT Link Mode_CH600
	☒ Mode 3: 1xRTT Link Mode_CH777	☒ Mode 6: 1xRTT Link Mode_CH1175

2.3 Connection Diagram of Test System



2.4 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Serial No.
1.	Base Station	R & S	CMU 200	N/A	112402



3 General Information of Test Site

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

Test Site No : 03CH06-HY

FCC Reg. Num. : 101377

The chamber meets the characteristics of ANSI C63.4-2003. This site is on file with the FCC. The Industry Canada file number for this site is IC 4088.

3.1 Test Voltage

AC 120V/ 60Hz

3.2 Test Compliance

47 CFR Part 22H, 24E, Part 2

3.3 Frequency Range

- a. Radiation: from 30MHz to ten times of highest channel frequency for CDMA2000 Cellular 850.
- b. Radiation: from 30 MHz to ten times of highest channel frequency for CDMA2000 PCS 1900.

3.4 Test Distance

The test distance of radiated emission from antenna to EUT is 3 m.



4 Test Data and Test Result

4.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result	Section
§2.1046	RF Output Power	Passed	4.2
§ 22.913 §24.232	ERP / EIRP	Passed	4.3
§2.1053	Field Strength of Spurious Radiation	Passed	4.6

4.2 RF Output Power

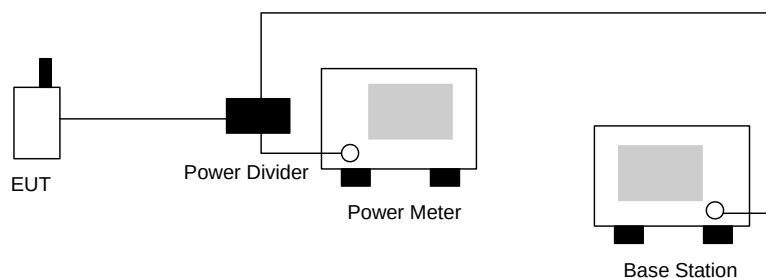
4.2.1 Measurement Instruments :

As described in chapter 5 of this test report.

4.2.2 Test Procedure :

1. The transmitter output was connected to power meter and base station through power divider.
2. Set EUT maximum power through base station.
3. Select lowest, middle, and highest channels for each band.

4.2.3 Test Setup Layout :





4.2.4 Test Result :

Bands	Test Mode	Test Status	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (Watts)
CDMA2000 Cellular 850	CDMA 1xRTT	RC1/SO2	1013	824.70 (Low)	24.47	0.28
			384	836.52 (Mid)	24.40	0.28
			777	848.31 (High)	23.97	0.25
		RC3/SO2	1013	824.70 (Low)	24.49	0.28
			384	836.52 (Mid)	24.42	0.28
			777	848.31 (High)	23.91	0.25
		RC3/SO55	1013	824.70 (Low)	24.49	0.28
			384	836.52 (Mid)	24.49	0.28
			777	848.31 (High)	23.99	0.25
CDMA2000 PCS 1900	CDMA 1xRTT	RC1/SO2	25	1851.25 (Low)	23.45	0.22
			600	1880.00 (Mid)	23.43	0.22
			1175	1908.75 (High)	23.38	0.22
		RC3/SO2	25	1851.25 (Low)	23.5	0.22
			600	1880.00 (Mid)	23.41	0.22
			1175	1908.75 (High)	23.35	0.22
		RC3/SO55	25	1851.25 (Low)	23.49	0.22
			600	1880.00 (Mid)	23.55	0.23
			1175	1908.75 (High)	23.55	0.23

4.3 ERP / EIRP Measurement

Equivalent isotropic radiated power measurements by substitution method according to ANSI/TIA/EIA-603-C.

4.3.1 Measurement Instruments

As described in chapter 5 of this test report.

4.3.2 Test Procedure

1. The EUT was placed on a turntable with 1.0 meter height in an fully anechoic chamber.
2. The EUT was set 1.2 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiated power.
4. The height of the receiving antenna is also kept at 1.0 meter height.
5. Taking the record of maximum ERP/EIRP.
6. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
7. The conducted power at the terminal of the dipole antenna is measured.
8. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
9. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm) : Input power to substitution antenna.

G_s (dBi or dBd) : Substitution antenna Gain.

$E_t = R_t + AF$

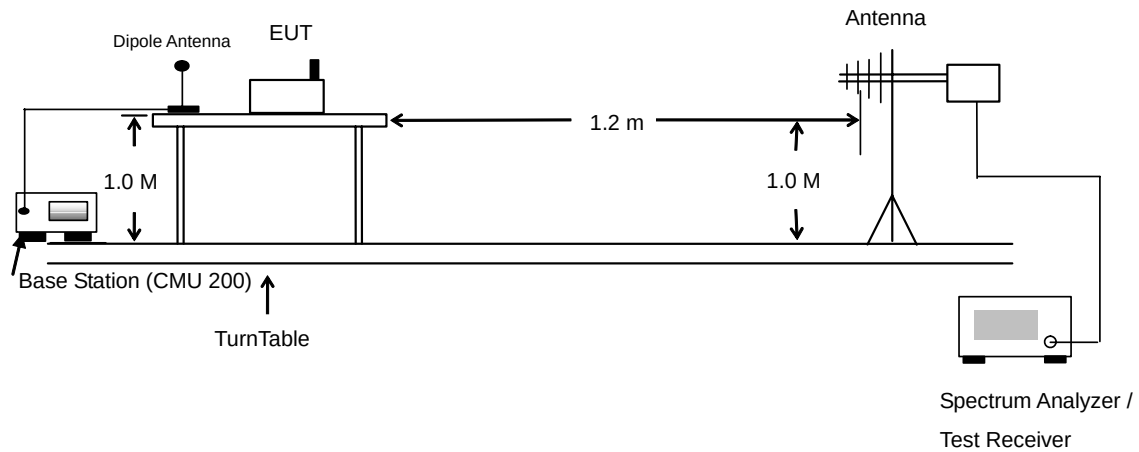
$E_s = R_s + AF$

AF (dB/m) : Receive antenna factor

R_t : The highest received signal in Spectrum Analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

4.3.3 Test Setup Layout of ERP/EIRP





4.3.4 Test Result

Temperature : 25~26°C

Relative Humidity : 60~61%

Test Engineer: James Huang

CDMA2000 Cellular 850 1xRTT RC3/SO55 Radiated Power ERP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-37.67	-47.97	0.00	-1.08	9.22	0.01
836.52	-37.19	-48.01	0.00	-0.93	9.89	0.01
848.31	-36.95	-48.05	0.00	-0.76	10.34	0.01
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBd)	ERP (dBm)	ERP (W)
824.70	-27.25	-48.12	0.00	-1.08	19.79	0.10
836.52	-27.09	-48.28	0.00	-0.93	20.26	0.11
848.31	-26.43	-48.35	0.00	-0.76	21.16	0.13

CDMA2000 PCS1900 1xRTT RC3/SO55 Radiated Power EIRP						
Horizontal Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-32.48	-52.13	0.00	1.96	21.61	0.14
1880.00	-33.00	-53.17	0.00	2.00	22.17	0.16
1908.75	-34.29	-54.13	0.00	1.98	21.82	0.15
Vertical Polarization						
Frequency (MHz)	Rt (dBm)	Rs (dBm)	Ps (dBm)	Gs (dBi)	EIRP (dBm)	EIRP (W)
1851.25	-27.99	-51.88	0.00	1.96	25.85	0.38
1880.00	-28.41	-52.99	0.00	2.00	26.58	0.45
1908.75	-30.24	-54.28	0.00	1.98	26.02	0.40



4.4 Field Strength of Spurious Radiation

Equivalent isotropic radiated Power Measurements by substitution method according to ANSI/TIA/EIA-603-C.

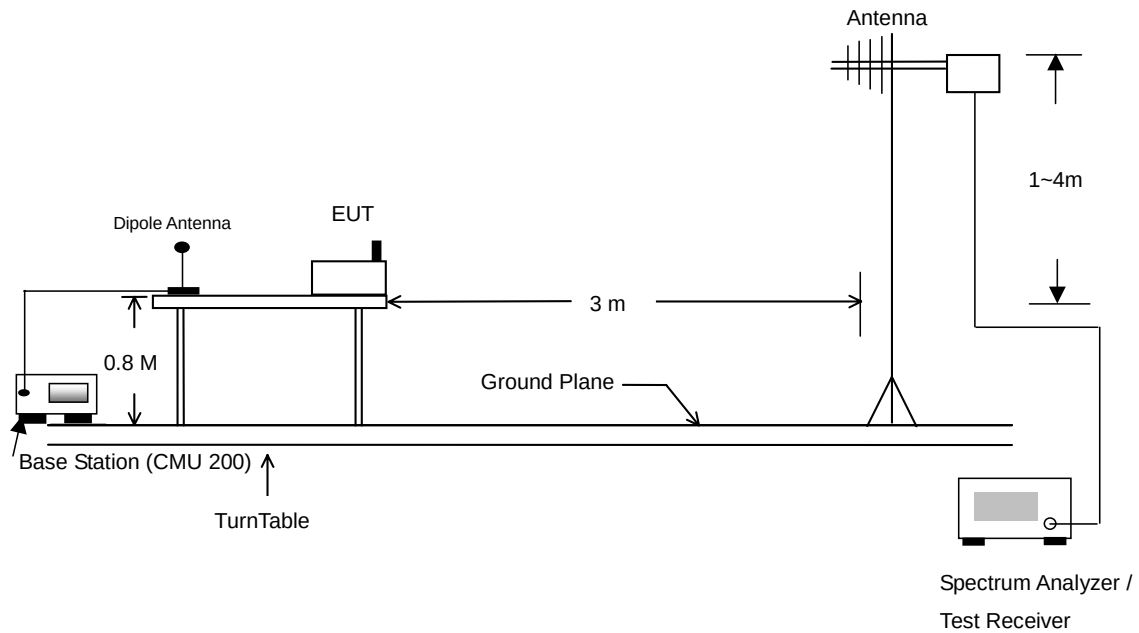
4.4.1 Measurement Instruments

As described in chapter 5 of this test report.

4.4.2 Test Procedure

1. The EUT was placed on a rotatable wooden table with 0.8 meter about ground.
2. The EUT was set 3 meters from the receiving antenna which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to reach the maximum spurious emission for both horizontal and vertical polarizations.
5. Taking the record of maximum spurious emission.
6. A Horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. Emission level (dBm) = output power + substitution Gain.

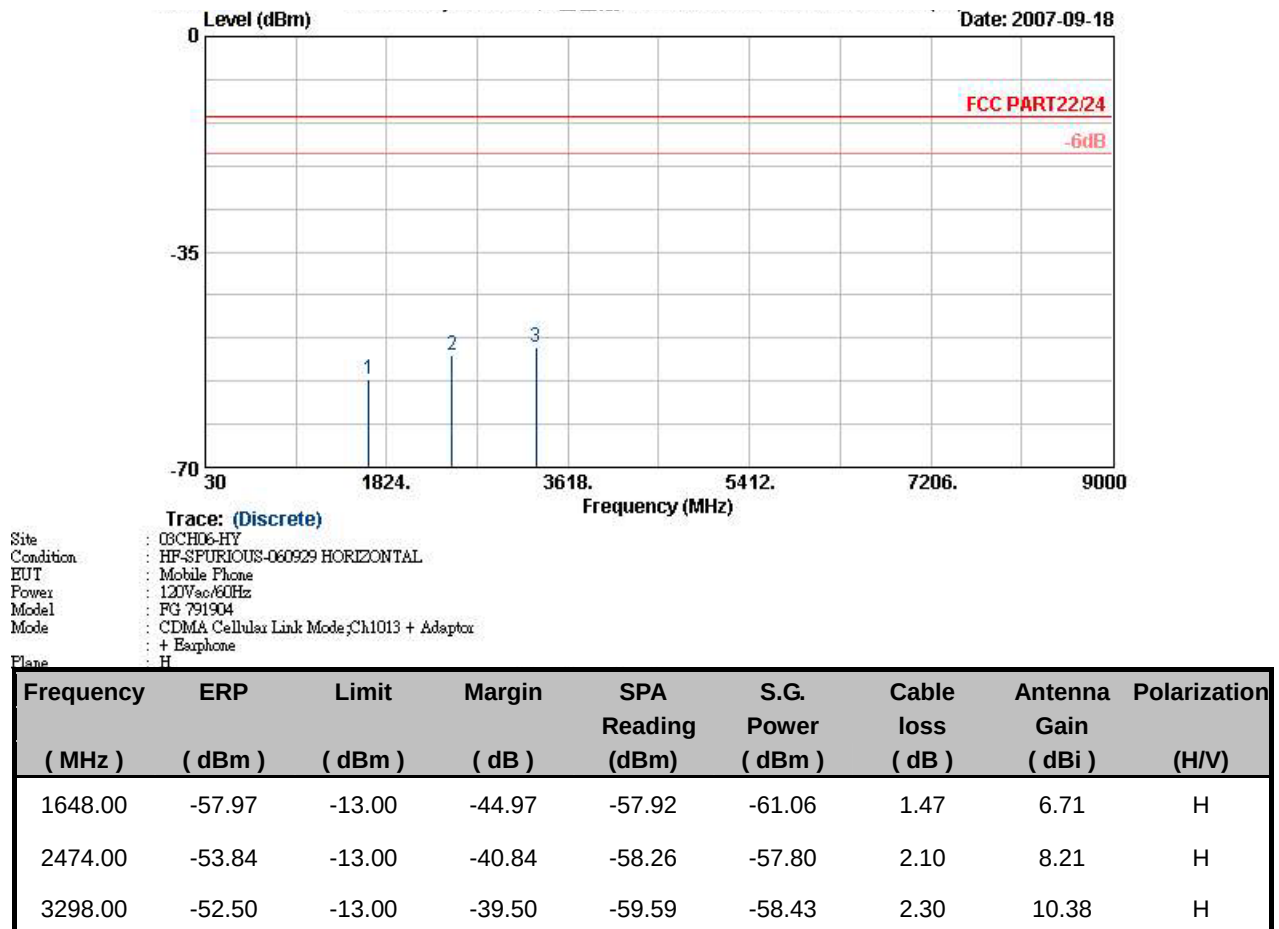
4.4.3 Test Setup Layout



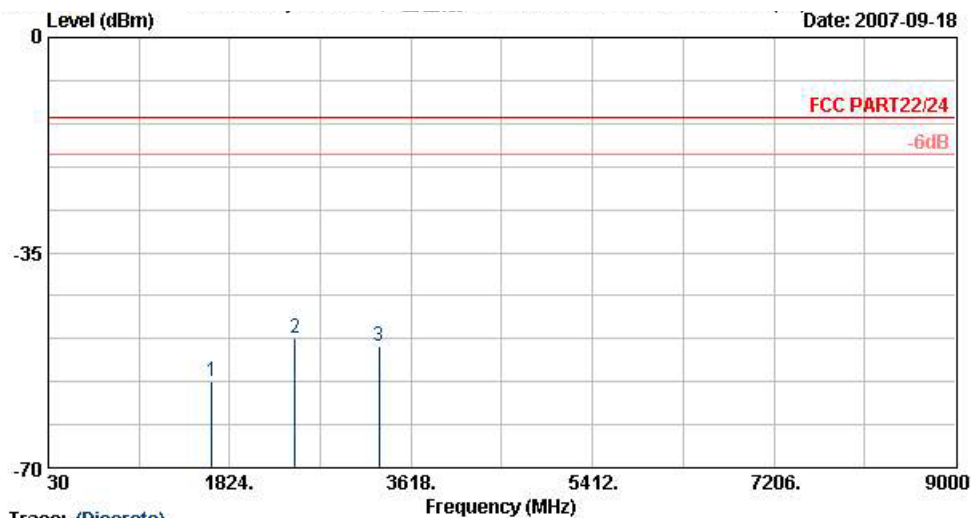


4.4.4 Test Data

4.4.4.1 Mode 1



Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



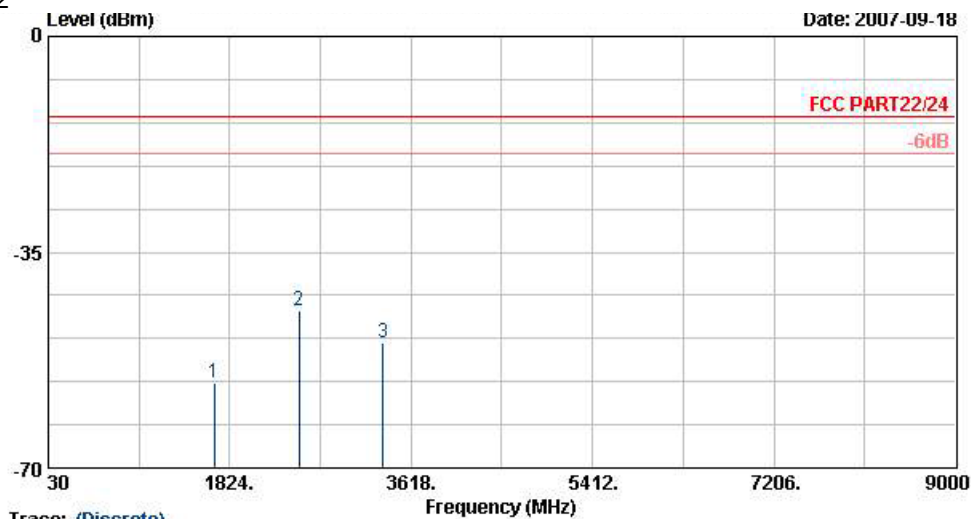
Site : 03CHD6-HY
Condition : HF-SPURIOUS-060929 VERTICAL
EUT : Mobile Phone
Power : FG 791904
Model : Shasta
Mode : CDMA Cellular Link Mode;Ch1013 + Adaptor
+ Earphone
Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
1648.00	-58.00	-13.00	-45.00	-57.65	-61.09	1.47	6.71	V
2474.00	-50.98	-13.00	-37.98	-55.94	-54.94	2.10	8.21	V
3300.00	-52.42	-13.00	-39.42	-58.66	-58.35	2.30	10.38	V

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



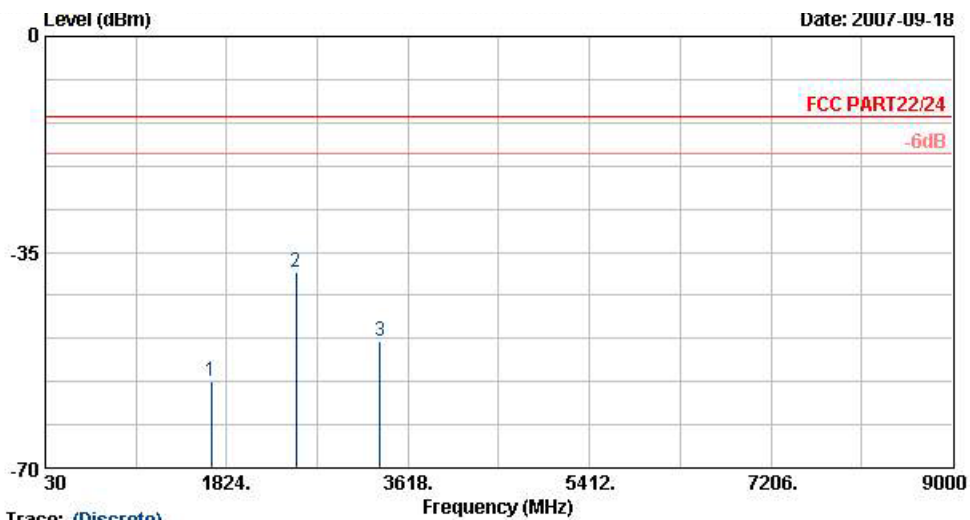
4.4.4.2 Mode 2



Trace: (Discrete)
Site : 08CHD6-HY
Condition : HF-SFURIOUS-060929 HORIZONTAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FG 791904
Mode : CDMA Cellular Link Mode;Ch384 + Adaptor
Plane : + Earphone
H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
1674.00	-58.34	-13.00	-45.34	-58.54	-61.38	1.48	6.67	H
2508.00	-46.77	-13.00	-33.77	-51.30	-50.72	2.12	8.22	H
3344.00	-51.74	-13.00	-38.74	-58.98	-57.81	2.32	10.54	H

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



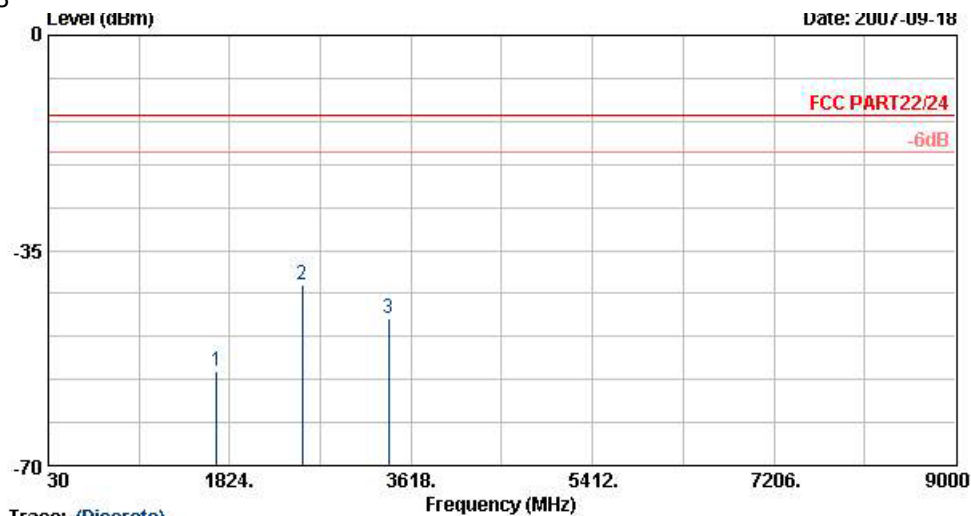
Site : 03CH06-HY
Condition : HF-SPURIOUS-060929 VERTICAL
EUT : Mobile Phone
Power : 1.20Wac/60Hz
Model : FG 791904
Mode : CDMA Cellular Link Mode; Ch384 + Adaptor
Plane : + Earphone
Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
1674.00	-58.14	-13.00	-45.14	-58.15	-61.18	1.48	6.67	V
2508.00	-40.49	-13.00	-27.49	-45.52	-44.44	2.12	8.22	V
3344.00	-51.54	-13.00	-38.54	-57.94	-57.61	2.32	10.54	V

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



4.4.4.3 Mode 3



Trace: (Discrete)

Site : 03CH06-HY

Condition : HF-SPURIOUS-060929 HORIZONTAL

EUT : Mobile Phone

Power : 120V_{ac}/60Hz

Model : FG 791904

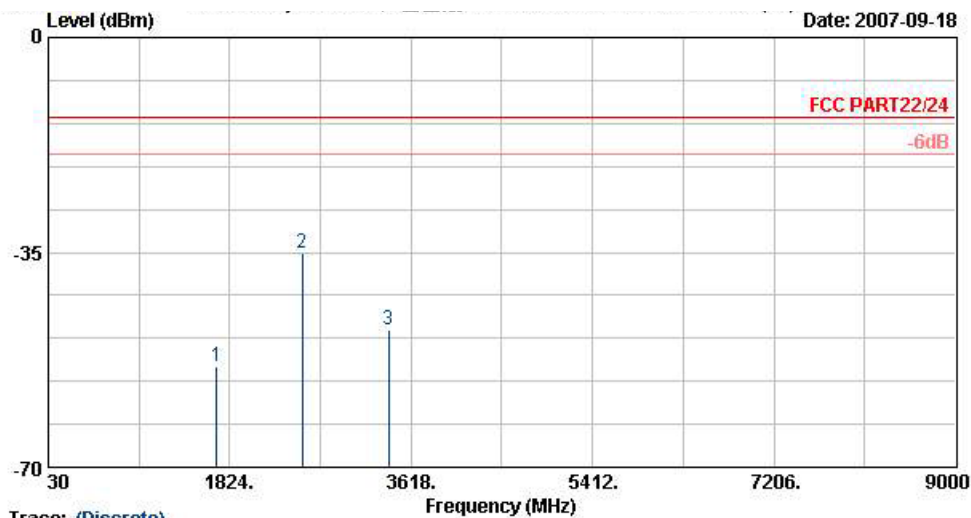
Mode : CDMA Cellular Link Mode;Ch777 + Adaptor

+ Earphone

Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
1694.00	-56.69	-13.00	-43.69	-57.03	-59.62	1.50	6.58	H
2544.00	-42.72	-13.00	-29.72	-47.37	-46.83	2.16	8.42	H
3394.00	-48.27	-13.00	-35.27	-55.68	-54.57	2.24	10.69	H

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



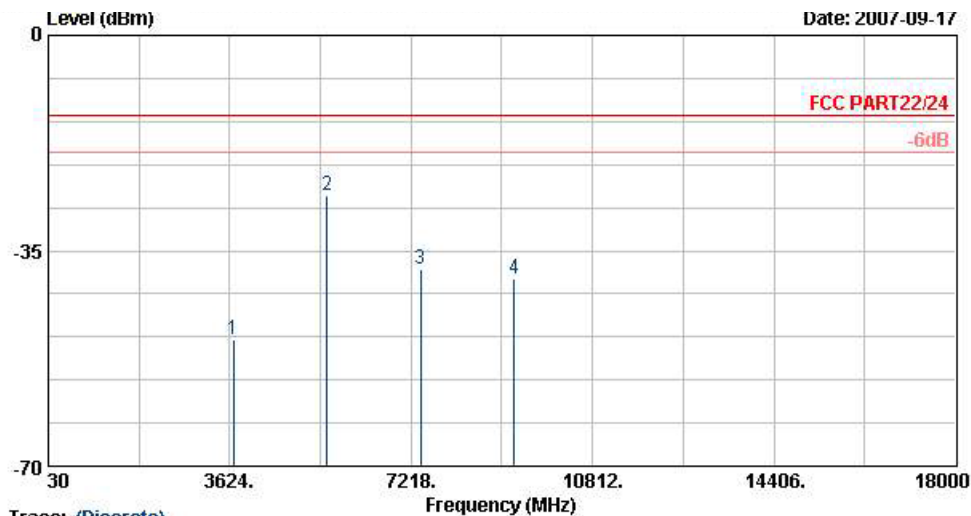
Site : 03CHD6-HY
Condition : HF-SPURIOUS-060929 VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 791904
Mode : CDMA Cellular Link Mode;Ch777 + Adaptor
Plane : + Earphone
Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
1698.00	-55.84	-13.00	-42.84	-56.03	-58.77	1.50	6.58	V
2544.00	-37.32	-13.00	-24.32	-42.38	-41.43	2.16	8.42	V
3394.00	-49.75	-13.00	-36.75	-56.30	-56.05	2.24	10.69	V

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



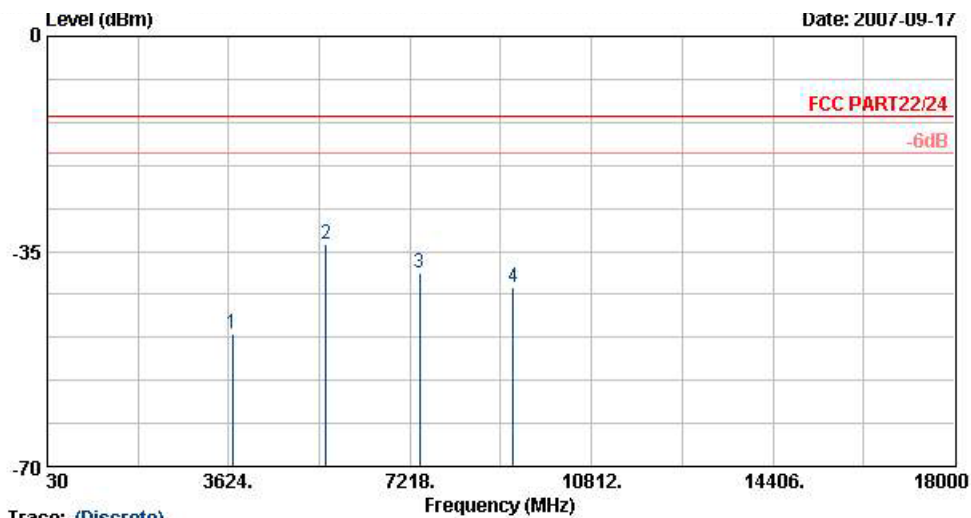
4.4.4.4 Mode 4



Site : 03CH06-HY
 Condition : HF-SFURIOUS-060929 HORIZONTAL
 EUT : Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG 791904
 Mode : CDMA FCS Link Mode;Ch25 + Adaptor
 : + Earphone
 Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
3702.00	-49.49	-13.00	-36.49	-59.79	-58.38	2.23	11.12	H
5554.00	-25.93	-13.00	-12.93	-43.83	-33.34	3.84	11.25	H
7404.00	-37.90	-13.00	-24.90	-59.25	-42.56	3.49	8.15	H
9254.00	-39.49	-13.00	-26.49	-61.65	-46.07	4.15	10.73	H

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Trace: (Discrete)

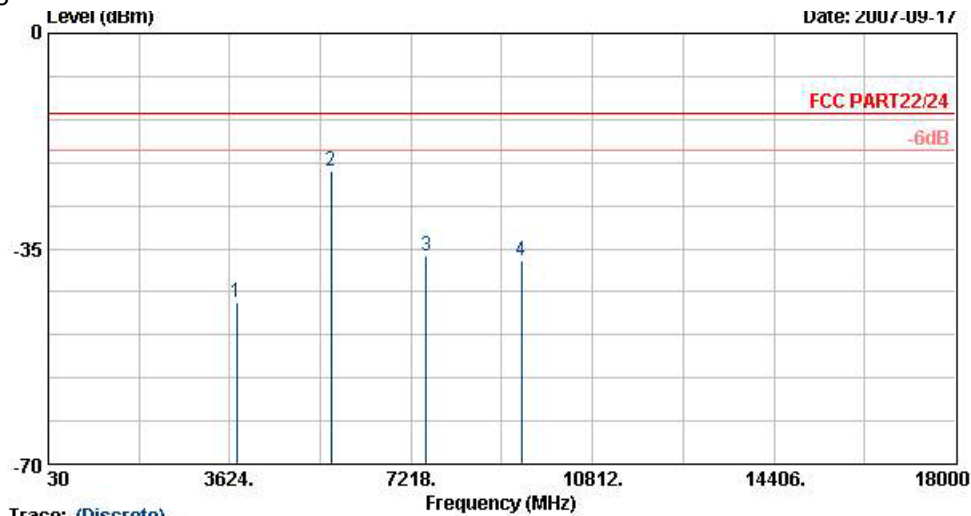
Site : 08CH06-HY
Condition : HF-SPURIOUS-060929 VERTICAL
EUT : Mobile Phone
Power : 120Vac/60Hz
Model : FG 791904
Mode : CDMA PCS Link Mode; CLK25 + Adaptor
Plane : + Earphone
Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
3700.00	-48.30	-13.00	-35.30	-58.02	-57.19	2.23	11.12	V
5550.00	-33.74	-13.00	-20.74	-50.13	-41.15	3.84	11.25	V
7404.00	-38.46	-13.00	-25.46	-58.13	-43.12	3.49	8.15	V
9254.00	-40.93	-13.00	-27.93	-61.62	-47.51	4.15	10.73	V

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



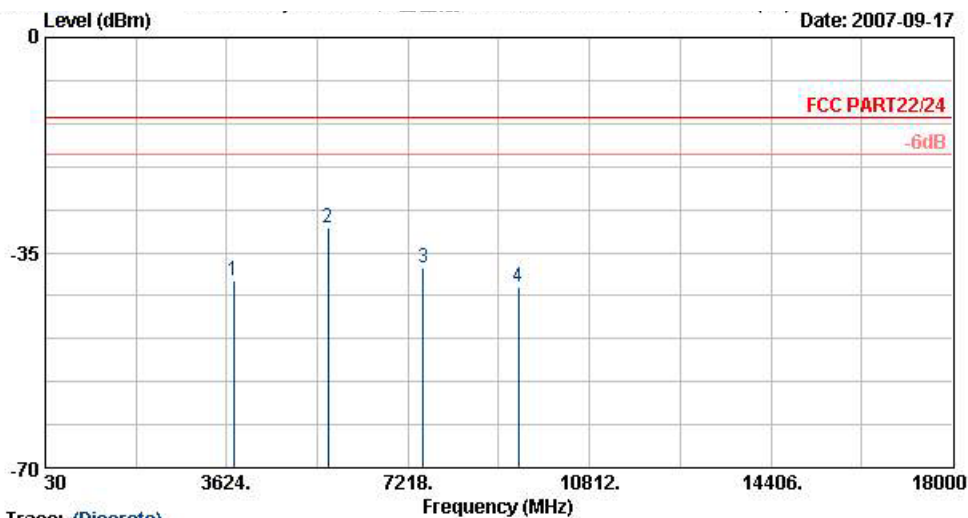
4.4.4.5 Mode 5



Site : 08CH06-HY
 Condition : HF-SPURIOUS-060929 HORIZONTAL
 EUT : Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG 791904
 Mode : CDMA FCS Link Mode;Ch600 + Adaptor
 + Earphone
 Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
3758.00	-43.75	-13.00	-30.75	-54.15	-52.67	2.24	11.16	H
5638.00	-22.27	-13.00	-9.27	-40.72	-29.86	3.75	11.34	H
7518.00	-36.10	-13.00	-23.10	-57.35	-40.61	3.49	8.00	H
9398.00	-36.92	-13.00	-23.92	-58.33	-43.58	4.15	10.81	H

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



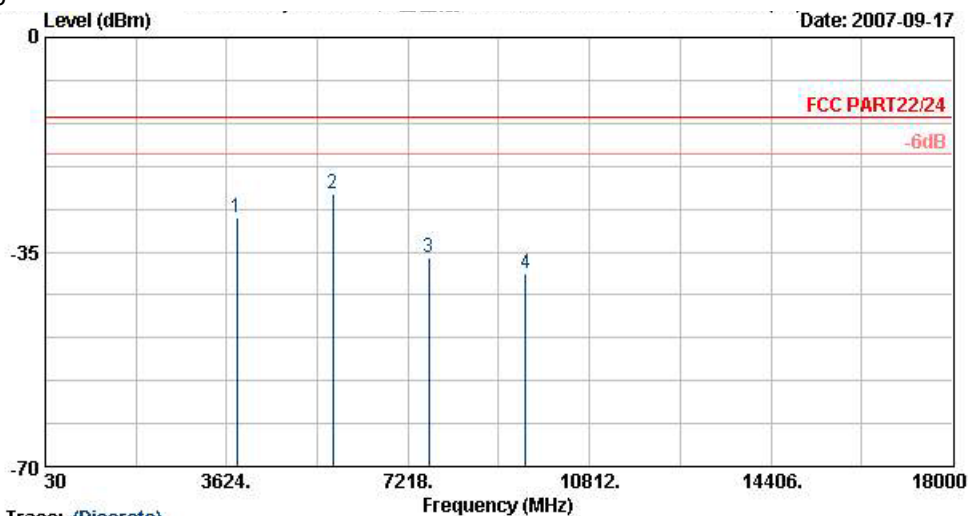
Site : 03CHD6-HY
 Condition : HF-SPURIOUS-060929 VERTICAL
 EUT : Mobile Phone
 Power : 120V_{ac}/60Hz
 Model : FG 791904
 Mode : CDMA PCS Link Mode;Ch600 + Adaptor
 + Earphone
 Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
3758.00	-39.68	-13.00	-26.68	-49.57	-48.60	2.24	11.16	V
5638.00	-30.98	-13.00	-17.98	-47.95	-38.57	3.75	11.34	V
7516.00	-37.40	-13.00	-24.40	-56.85	-41.91	3.49	8.00	V
9398.00	-40.57	-13.00	-27.57	-60.46	-47.23	4.15	10.81	V

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



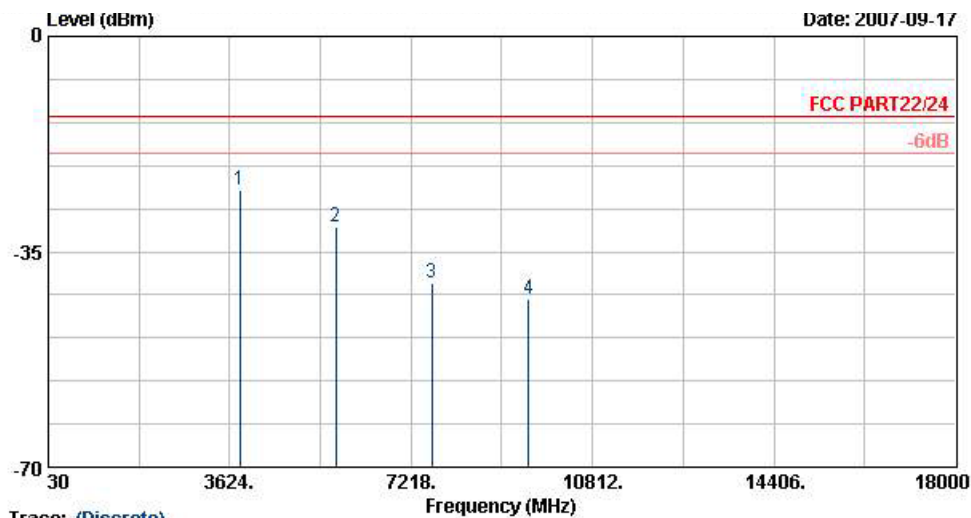
4.4.4.6 Mode 6



Site : 08CH06-HY
Condition : HF-SPURIOUS-060929 HORIZONTAL
EUT : Mobile Phone
Power : 120V_{ac}/60Hz
Model : FG 791904
Mode : CDMA FCS Link Mode;Ch1175 + Adaptor
+ Earphone
Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
3818.00	-29.37	-13.00	-16.37	-39.92	-38.31	2.26	11.20	H
5724.00	-25.38	-13.00	-12.38	-44.37	-33.14	3.66	11.42	H
7634.00	-35.95	-13.00	-22.95	-57.63	-40.78	3.63	8.46	H
9544.00	-38.52	-13.00	-25.52	-59.48	-44.88	4.50	10.86	H

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Trace: (Discrete)
Site : 08CH06-HY
Condition : HF-SPURIOUS-060929 VERTICAL
EUT : Mobile Phone
Power : 1.2W_{vec}/60Hz
Model : FG 791904
Mode : CDMA FCS Link Mode;Ch1175 + Adaptor
+ Earphone
Plane : H

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)
3818.00	-24.97	-13.00	-11.97	-35.09	-33.91	2.26	11.20	V
5724.00	-30.94	-13.00	-17.94	-48.49	-38.70	3.66	11.42	V
7634.00	-40.01	-13.00	-27.01	-59.96	-44.84	3.63	8.46	V
9542.00	-42.63	-13.00	-29.63	-62.06	-48.99	4.50	10.86	V

Remark : Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



5 List of Measurement Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Oct. 05, 2006	Oct. 04, 2007	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul. 26, 2007	Jul. 25, 2008	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Com-Power	AH118	071025	1G~18G	Jun. 04, 2007	Jun. 03, 2008	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Nov. 20, 2006	Nov. 19, 2008	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G - 26.5G	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Pre Amplifier	Mini Circuits	ZKL-2	D092004-1	10~2500MHz	Nov. 15, 2006	Nov. 14, 2007	Radiation (03CH06-HY)
Base Station Simulator	R & S	CMU200	106656	WCDMA	Nov. 20, 2006	Nov. 19, 2007	Radiation (03CH06-HY)
Controller	INN-CO	CO2000	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Turn Table	INN-CO	DS2000	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	INN-CO	MM3000	114/8000604/L	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Power Meter	Agilent	E4416A	GB41292344	N/A	Feb. 08, 2007	Feb. 07, 2008	RF Conducted (TH02-HY)
Power Sensor	Agilent	E9327A	US40441548	N/A	Feb. 08, 2007	Feb. 07, 2008	RF Conducted (TH02-HY)

6 Uncertainty Evaluation

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.41	Normal(k=2)	0.21
Antenna factor calibration	0.83	Normal(k=2)	0.42
Cable loss calibration	0.25	Normal(k=2)	0.13
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14
RCV/SPA specification	2.50	Rectangular	0.72
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29
Site imperfection	1.43	Rectangular	0.83
Mismatch	+0.39/-0.41	U-shaped	0.28
Combined standard uncertainty Uc(y)	1.27		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54		

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of x_i		$u(x_i)$	C_i	$C_i * u(x_i)$
	dB	Probability Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20 \log(1 - \Gamma_1 \Gamma_2)$	+0.34/-0.35	U-shaped	0.244	1	0.244
Combined standard uncertainty Uc(y)	2.36				
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	4.72				

END OF TEST REPORT