

FCC/IC Test Report

APPLICANT : Nokia Corporation
EQUIPMENT : Internet Stick
BRAND NAME : Nokia
MODEL NAME : RD-10
MARKETING NAME : CS-15
FCC ID : PYARD-10
IC : 661V-RD10
STANDARD : FCC 47 CFR FCC Part 15 Subpart B
IC RSS-Gen,
RSS-132 Issue 2, RSS-133 Issue 5
CLASSIFICATION : Declaration of Conformity

The product sample received on May 19, 2009 and completely tested on May 26, 2009. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Roy Wu / Manager



SPORTON INTERNATIONAL INC.

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FCC ID : PYARD-10

IC : 661V-RD10

Page Number : 1 of 24

Report Issued Date : Jul. 01, 2009

Report Version : Rev. 02

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FD8D1611-04	Rev. 01	Initial issue of report	Jun. 18, 2009
FD8D1611-04	Rev. 02	Update SW Version	Jul. 01, 2009

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.107	7.2.2	AC Conducted Emission	< 15.107 limits < RSS-Gen table 2 limits	PASS	Under limit 5.1 dB at 0.606 MHz
3.2	15.109	7.2.3.2	Radiated Emission	< 15.109 limits or < RSS-Gen table 1 limits (Section 6)	PASS	Under limit 12.67 dB at 663.30 MHz

1. General Description

1.1 Applicant

Nokia Corporation

Elektroniikkatie 10, PO box., Oulu City, 90571. Finland.

1.2 Manufacturer

Nokia Corporation

Elektroniikkatie 10, PO box., Oulu City, 90571. Finland.

1.3 Feature of Equipment Under Test

Product Feature & Specification	
Equipment	Internet Stick
Brand Name	Nokia
Model Name	RD-10
Marketing Name	CS-15
FCC ID	PYARD-10
IC	661V-RD10
Tx Frequency Range	GSM850 : 824 MHz ~ 849 MHz GSM1900 : 1850 MHz ~ 1910 MHz
Rx Frequency Range	GSM850 : 869 MHz ~ 894 MHz GSM1900 : 1930 MHz ~ 1990 MHz
Antenna Type	Fixed Internal Antenna
Antenna Connector Type	N/A
HW Version	1.4
SW Version	2.4
Mechanical Version	3.0
Type of Modulation	GSM / GPRS : GMSK EDGE : 8PSK
EUT Stage	Production Unit

List of Accessory:

Specification of Accessory		
USB Cable	Brand Name	Nokia
	Model Name	CA-150D
	Signal Line Type	0.24 meter shielded cable with ferrite core

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. For accessories equipped with this EUT, please refer to the appendix of the external photo.

1.4 Test Site

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st 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.	Sporton Site No.		FCC/IC Registration No.
	CO05-HY	03CH06-HY	TW1022/4086B-1

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC 47 CFR FCC Part 15 Subpart B
- ANSI C63.4-2003
- IC RSS-Gen Issue 2
- IC RSS-132 Issue 2
- IC RSS-133 Issue 5

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Vostro 1510	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	LCD Monitor	Lenovo	6135-AB1	FCC DoC	N/A	Unshielded, 1.8m
4.	i-pod	Apple	A1199	FCC DoC	Unshielded, 1.0 m	N/A

2. Test Configuration of Equipment Under Test

2.1 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction (150 kHz to 30 MHz), radiation (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Pre-scanned tests were conducted to determine the final configuration from all possible combinations.

The following tables are showing the test modes recorded in this report.

Item	EUT Configuration	Test Condition		
		EMI AC	EMI RE<1G	EMI RE≥1G
1.	Operating Mode (EUT with USB Cable Mode)	x	x	x

Abbreviations:

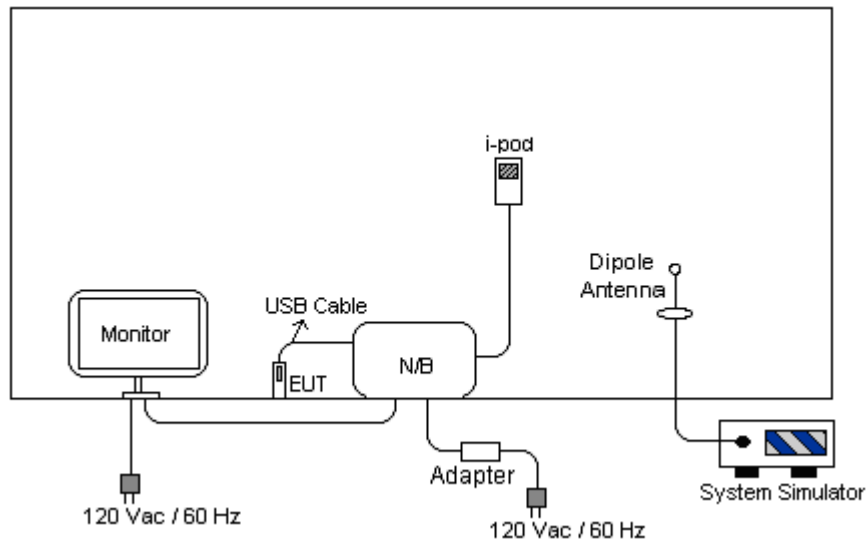
EMI AC: AC conducted emissions;

EMI RE ≥ 1G: EUT radiated emissions ≥ 1GHz;

EMI RE < 1G: EUT radiated emissions < 1GHz.

Test Items	EUT Configure Mode	Function Type
AC Conducted Emission	1	Mode 1: GPRS850 Idle + USB Cable with NB Mode 2: GPRS1900 Idle + USB Cable with NB
Radiated Emissions < 1GHz	1	Mode 1: GPRS850 Idle + USB Cable with NB Mode 2: GPRS1900 Idle + USB Cable with NB
Radiated Emissions ≥ 1GHz	1	Mode 1: GPRS1900 Idle + USB Cable with NB
Remark: The worst case of RE < 1G is mode 2; only this test mode was tested for RE ≥ 1GHz.		

2.2 Connection Diagram of Test System



2.3 Test Software

The EUT was in GSM idle mode during the testing. Executive the program, "Nokia Internet Modem" under WINXP installed in notebook for connecting to system simulator. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

For associated equipment, the programs, "EMCTest.exe" under WINXP installed in notebook, which generate a complete line of continuously repeating "H" pattern, were used as the test software. The programs were executed as follows:

- Turn on the power of all equipment.
- The notebook reads the test program from the hard disk drive and runs it.
- The notebook sends "H" messages to the panel, and the panel displays "H" patterns on the screen.
- The notebook sends "H" messages to the internal hard disk, and the Hard Disk reads and writes the message.
- Repeat the steps from b to d.

3. Test Result

3.1 Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

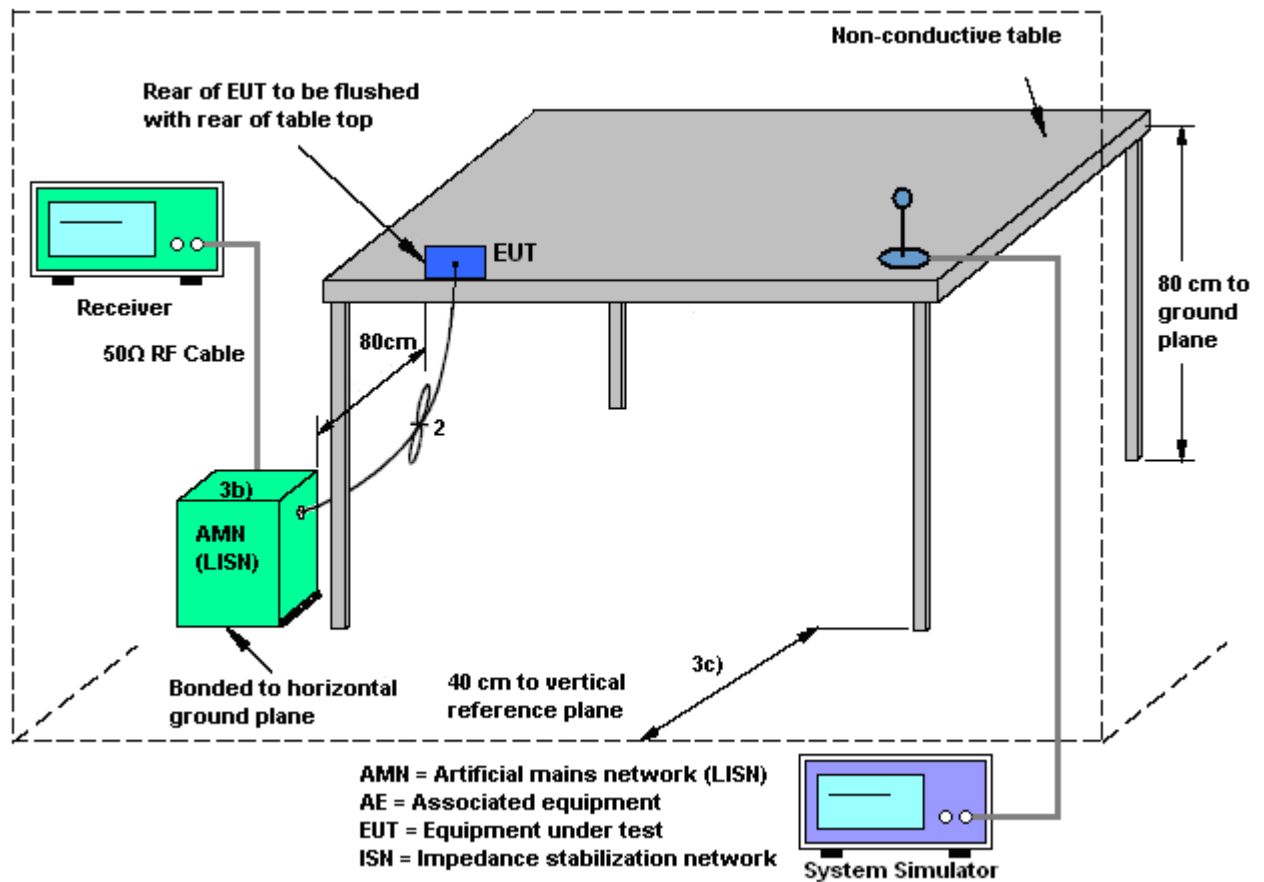
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedure

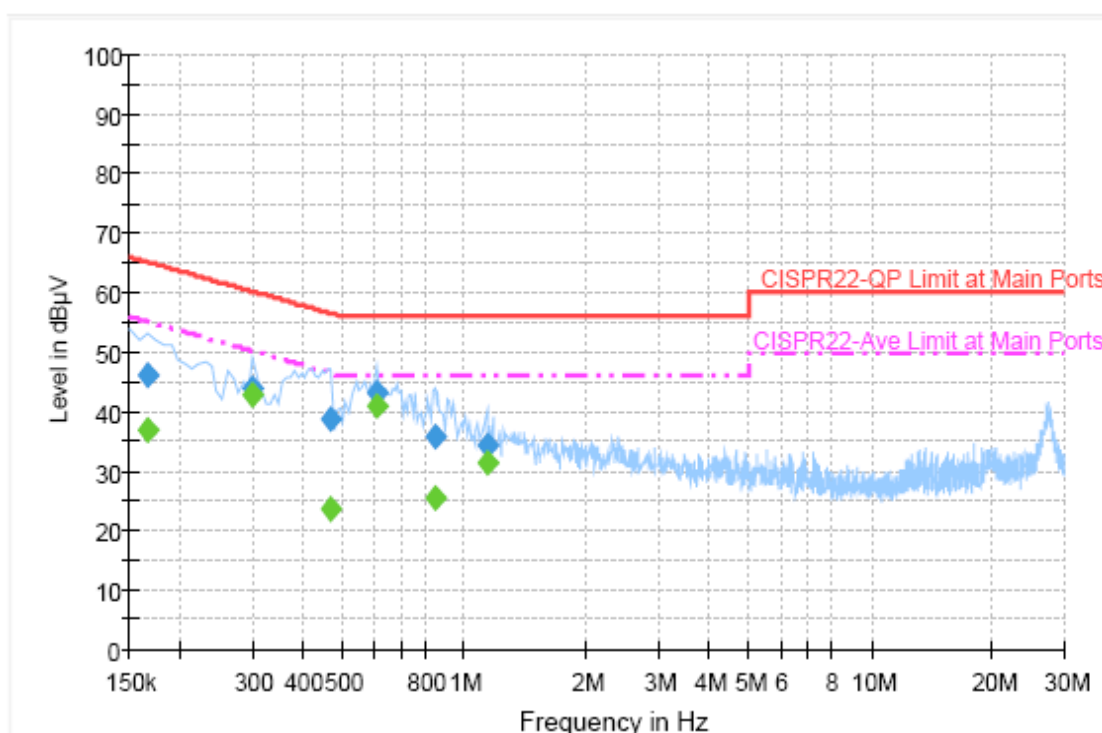
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	23~24℃
Test Engineer :	Cona Huang	Relative Humidity :	42~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GPRS850 Idle + USB Cable with NB		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



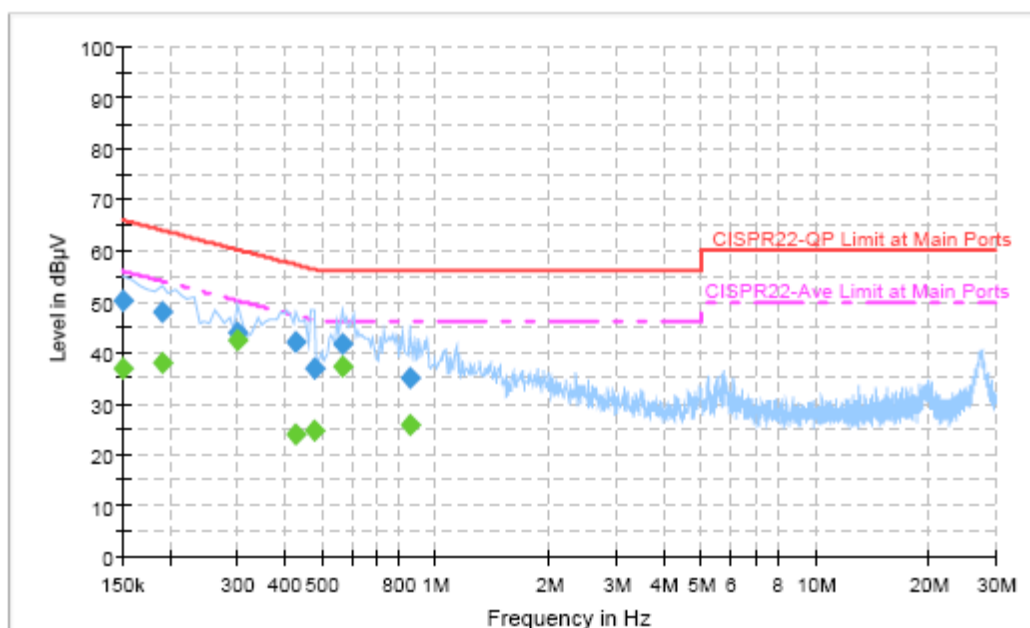
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	45.9	Off	L1	19.3	19.3	65.2
0.302000	44.1	Off	L1	19.3	16.2	60.2
0.470000	38.6	Off	L1	19.4	17.9	56.5
0.606000	43.2	Off	L1	19.4	12.8	56.0
0.846000	35.9	Off	L1	19.5	20.1	56.0
1.134000	34.2	Off	L1	19.4	21.8	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	37.0	Off	L1	19.3	18.2	55.2
0.302000	42.7	Off	L1	19.3	7.5	50.2
0.470000	23.8	Off	L1	19.4	22.7	46.5
0.606000	40.9	Off	L1	19.4	5.1	46.0
0.846000	25.6	Off	L1	19.5	20.4	46.0
1.134000	31.3	Off	L1	19.4	14.7	46.0

Test Mode :	Mode 1	Temperature :	23~24°C
Test Engineer :	Cona Huang	Relative Humidity :	42~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GPRS850 Idle + USB Cable with NB		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

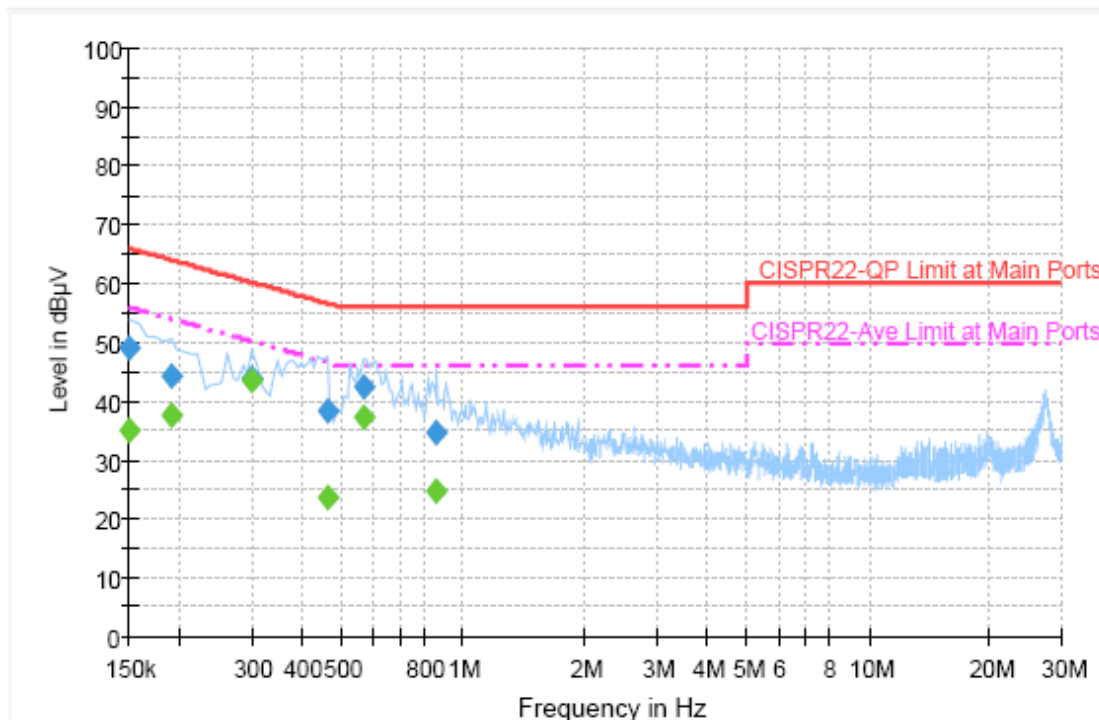

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	50.3	Off	N	19.4	15.7	66.0
0.190000	48.1	Off	N	19.4	15.9	64.0
0.302000	43.9	Off	N	19.3	16.4	60.2
0.430000	41.9	Off	N	19.4	15.4	57.3
0.478000	37.0	Off	N	19.4	19.4	56.4
0.566000	41.8	Off	N	19.3	14.2	56.0
0.854000	35.2	Off	N	19.5	20.8	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	36.9	Off	N	19.4	19.1	56.0
0.190000	38.1	Off	N	19.4	15.9	54.0
0.302000	42.3	Off	N	19.3	7.9	50.2
0.430000	24.0	Off	N	19.4	23.3	47.3
0.478000	24.7	Off	N	19.4	21.7	46.4
0.566000	37.2	Off	N	19.3	8.8	46.0
0.854000	25.6	Off	N	19.5	20.4	46.0

Test Mode :	Mode 2	Temperature :	23~24°C
Test Engineer :	Cona Huang	Relative Humidity :	42~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GPRS1900 Idle + USB Cable with NB		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

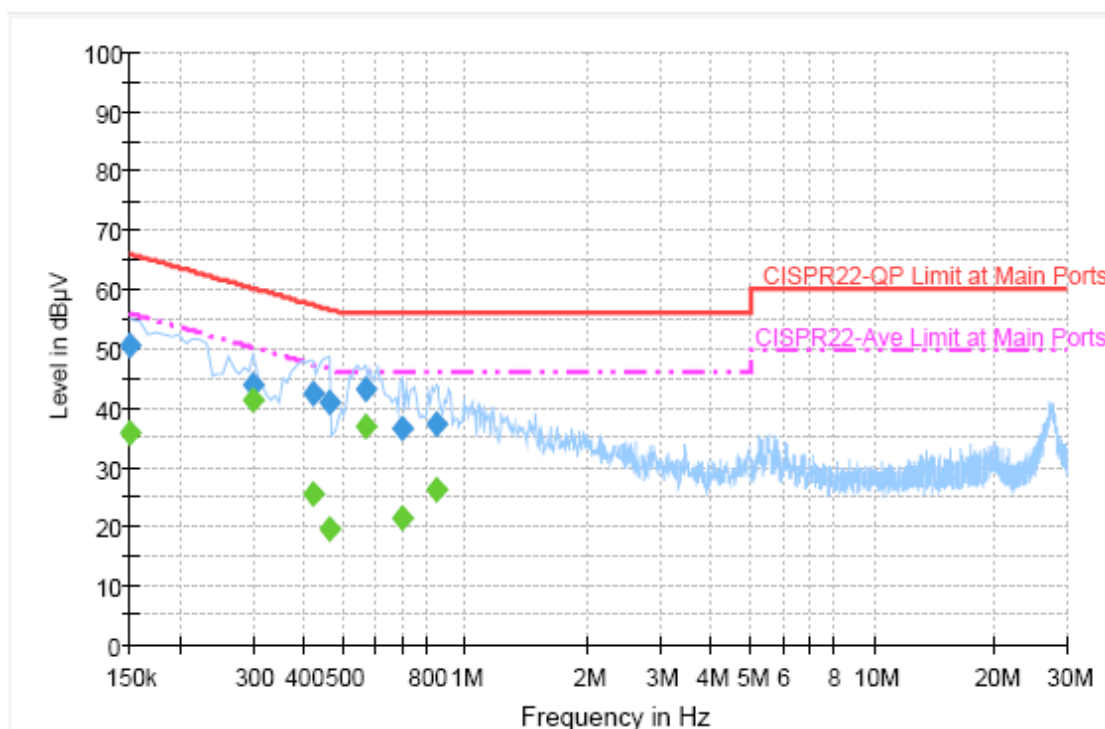

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	49.2	Off	L1	19.4	16.8	66.0
0.190000	44.4	Off	L1	19.4	19.6	64.0
0.302000	44.0	Off	L1	19.3	16.2	60.2
0.462000	38.3	Off	L1	19.3	18.4	56.7
0.566000	42.3	Off	L1	19.3	13.7	56.0
0.862000	34.7	Off	L1	19.5	21.3	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	35.1	Off	L1	19.4	20.9	56.0
0.190000	37.8	Off	L1	19.4	16.2	54.0
0.302000	43.7	Off	L1	19.3	6.5	50.2
0.462000	23.8	Off	L1	19.3	22.9	46.7
0.566000	37.4	Off	L1	19.3	8.6	46.0
0.862000	24.7	Off	L1	19.5	21.3	46.0

Test Mode :	Mode 2	Temperature :	23~24°C
Test Engineer :	Cona Huang	Relative Humidity :	42~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GPRS1900 Idle + USB Cable with NB		
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		


Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	50.5	Off	N	19.4	15.5	66.0
0.302000	43.8	Off	N	19.3	16.4	60.2
0.422000	42.5	Off	N	19.4	14.9	57.4
0.462000	40.9	Off	N	19.3	15.8	56.7
0.566000	43.1	Off	N	19.3	12.9	56.0
0.702000	36.4	Off	N	19.5	19.6	56.0
0.846000	37.4	Off	N	19.5	18.6	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	35.6	Off	N	19.4	20.4	56.0
0.302000	41.4	Off	N	19.3	8.8	50.2
0.422000	25.6	Off	N	19.4	21.8	47.4
0.462000	19.4	Off	N	19.3	27.3	46.7
0.566000	36.9	Off	N	19.3	9.1	46.0
0.702000	21.4	Off	N	19.5	24.6	46.0
0.846000	26.4	Off	N	19.5	19.6	46.0

3.2 Test of Radiated Emission Measurement

3.2.1 Limit of Radiated Emission

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

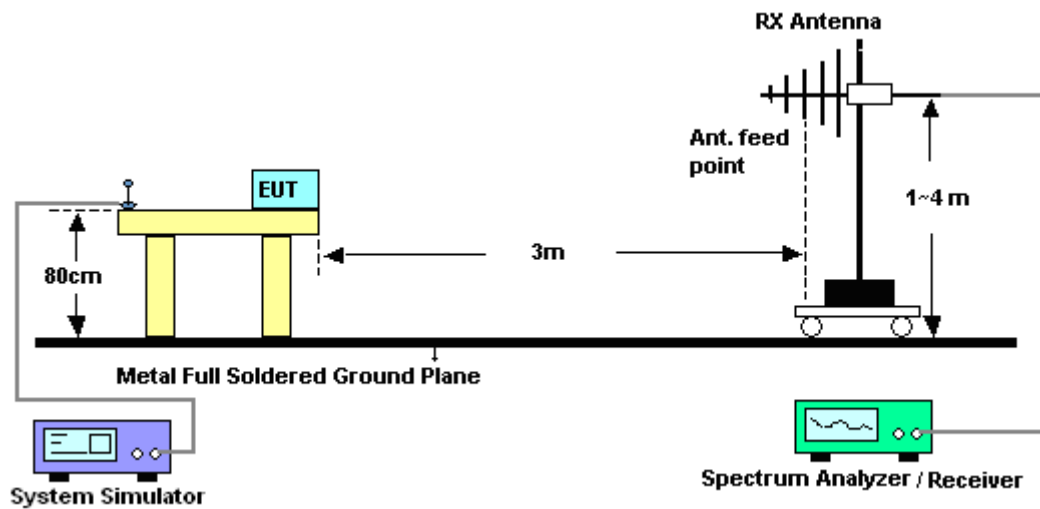
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

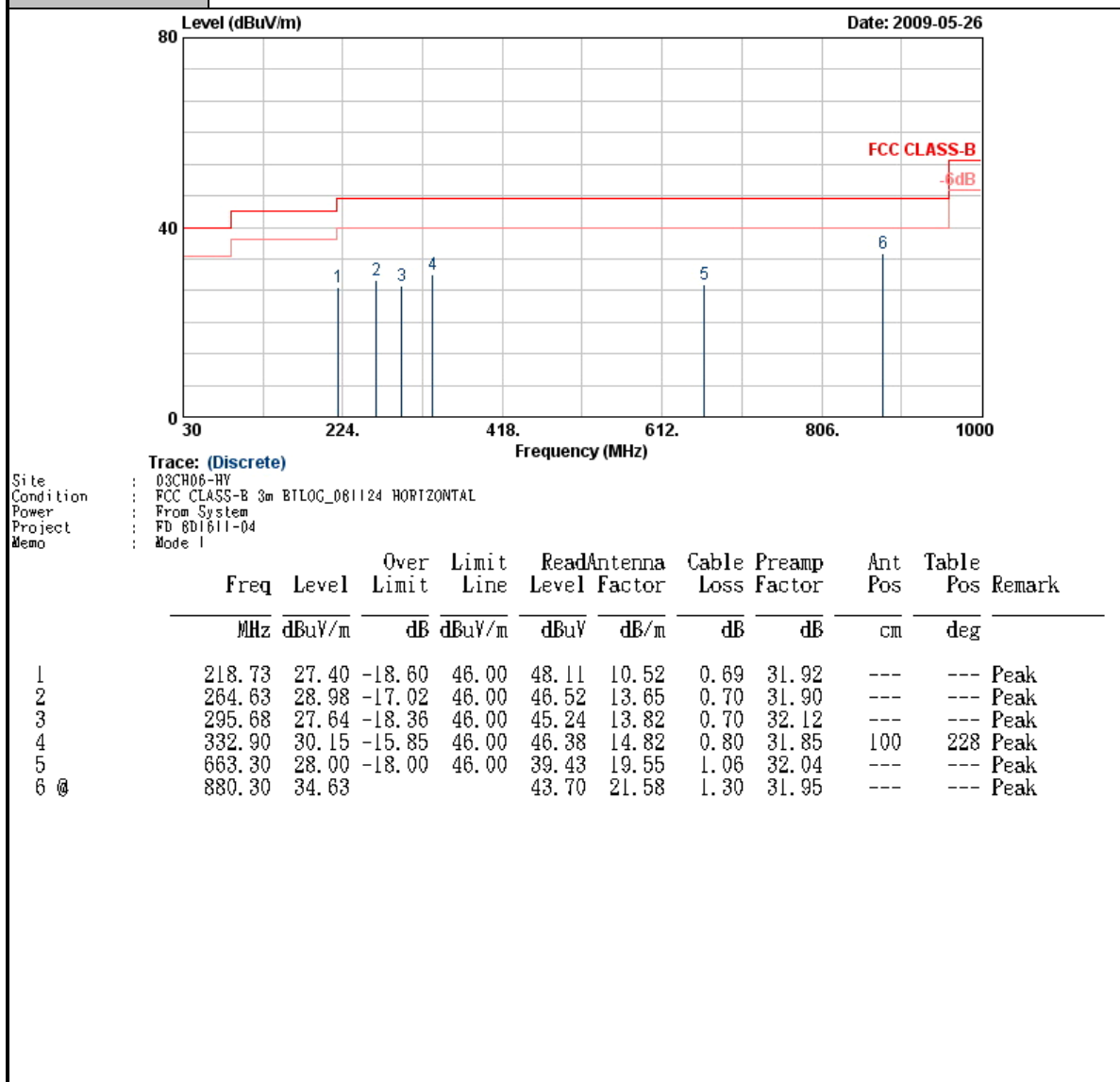
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported
8. Emission level (dBuV/m) = 20 log Emission level (uV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4 Test Setup of Radiated Emission



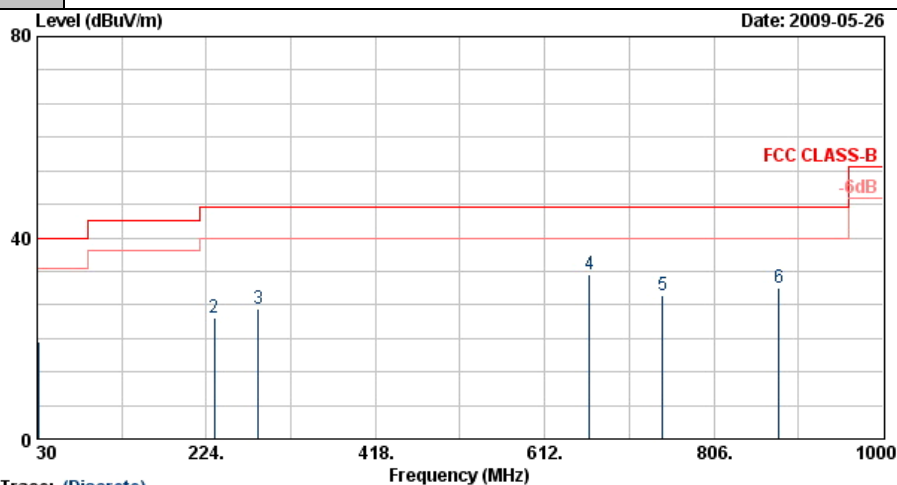
3.2.5 Test Result of Radiated Emission

Test Mode :	Mode 1	Temperature :	23~24°C
Test Engineer :	Andrew Hsiao	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GPRS850 Idle + USB Cable with NB		
Remark :	#6 is System Simulator Signal which can be ignored.		





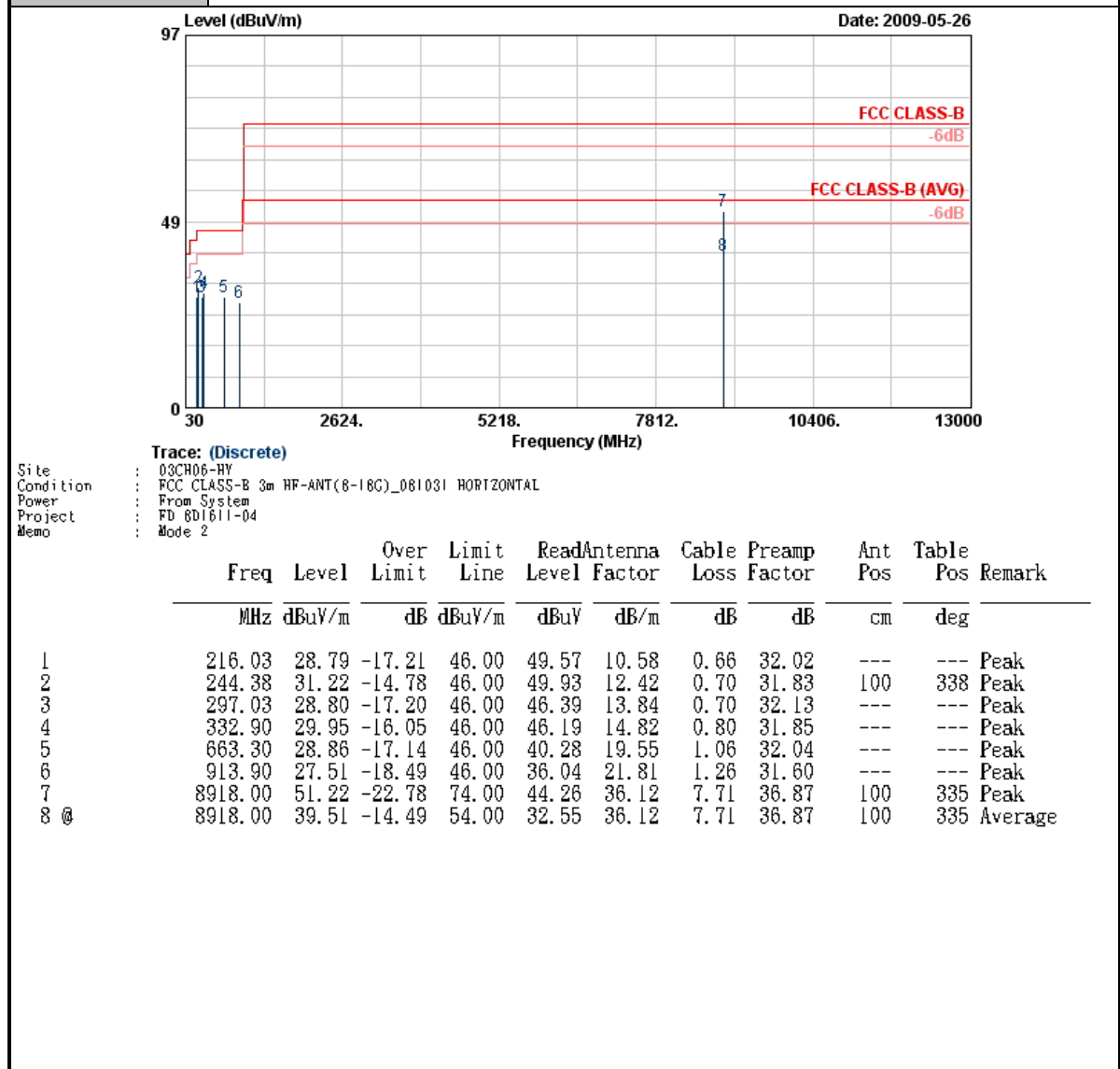
Test Mode :	Mode 1	Temperature :	23~24°C
Test Engineer :	Andrew Hsiao	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GPRS850 Idle + USB Cable with NB		
Remark :	#6 is System Simulator Signal which can be ignored.		



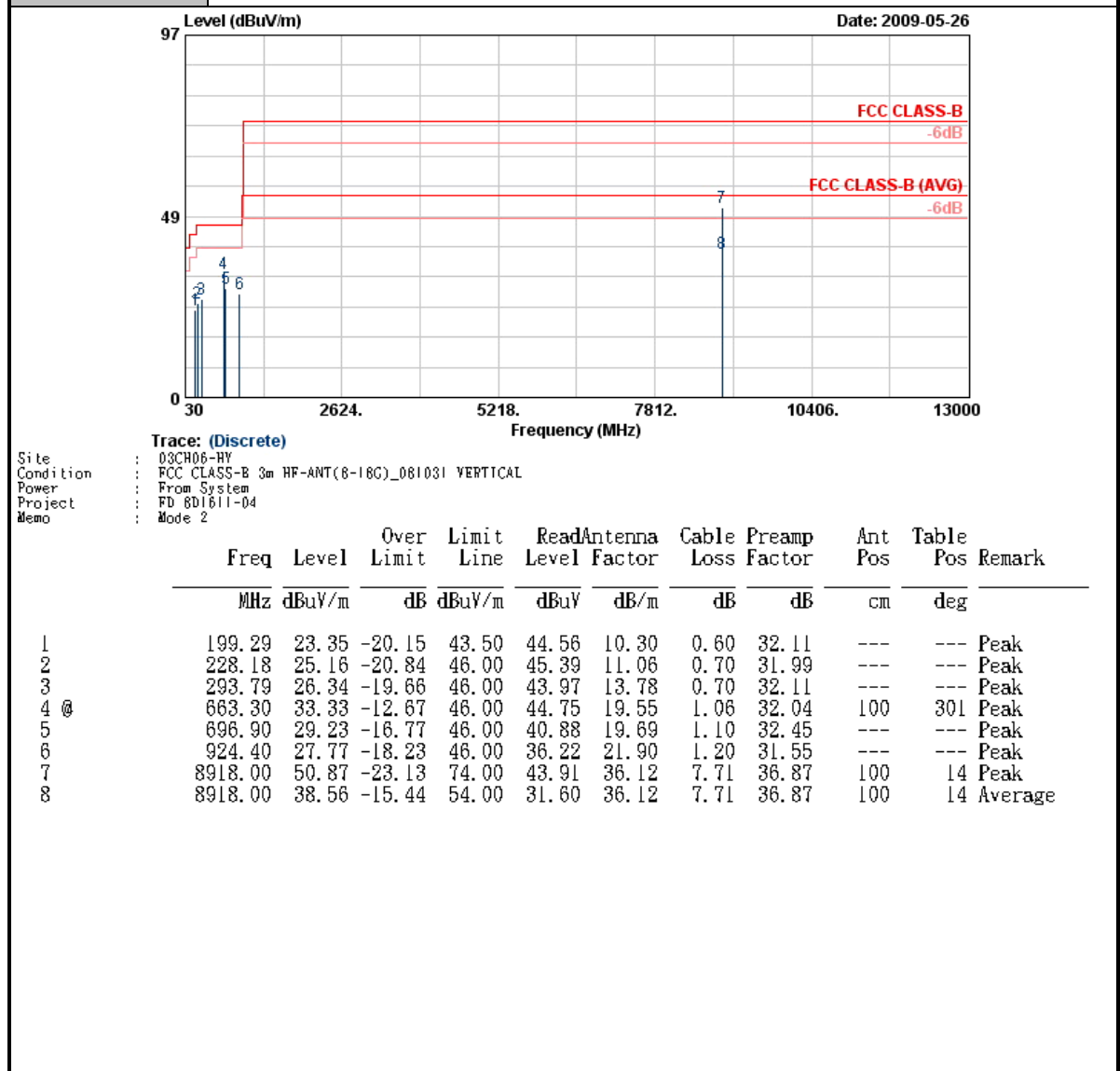
Site : 03CH06-HY
Condition : FCC CLASS-B 3m BILOG_081124 VERTICAL
Power : From System
Project : FD 8D1611-04
Memo : Mode 1

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.08	19.46	-20.54	40.00	31.47	19.30	0.30	31.61	---	---	Peak
2	233.04	24.13	-21.87	46.00	43.93	11.47	0.70	31.97	---	---	Peak
3	283.53	25.75	-20.25	46.00	43.52	13.56	0.70	32.03	---	---	Peak
4 @	663.30	32.77	-13.23	46.00	44.19	19.55	1.06	32.04	100	356	Peak
5	747.30	28.46	-17.54	46.00	39.18	20.26	1.10	32.08	---	---	Peak
6	880.30	29.91			38.97	21.58	1.30	31.95	---	---	Peak

Test Mode :	Mode 2	Temperature :	23~24°C
Test Engineer :	Andrew Hsiao	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Horizontal
Function Type :	GPRS1900 Idle + USB Cable with NB		



Test Mode :	Mode 2	Temperature :	23~24°C
Test Engineer :	Andrew Hsiao	Relative Humidity :	45~46%
Test Distance :	3m	Polarization :	Vertical
Function Type :	GPRS1900 Idle + USB Cable with NB		



3.2.6 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMI Receiver	R&S	ESCS 30	100356	9kHz~2.75GHz	Aug. 01, 2008	Jul. 31, 2009	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100081	9kHz~30MHz	Nov. 26, 2008	Nov. 25, 2009	Conduction (CO05-HY)
Two-LISN	R&S	ENV216	11-100080	9kHz~30MHz	Nov. 26, 2008	Nov. 25, 2009	Conduction (CO05-HY)
AC Power Source	APC	APC-1000W	N/A	N/A	N/A	N/A	Conduction (CO05-HY)
Spectrum Analyzer	Agilent	E4408B	MY44211030	9kHz~26.5GHz	Oct. 24, 2008	Oct. 23, 2009	Radiation (03CH06-HY)
Spectrum Analyzer	R&S	FSP40	100057	9kHz~40GHz	Oct. 16, 2008	Oct. 15, 2009	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20MHz~1000M Hz	Apr. 28, 2009	Apr. 27, 2010	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz~2GHz	Nov. 12, 2008	Nov. 11, 2009	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1G~18GHz	Aug. 18, 2008	Aug. 17, 2009	Radiation (03CH06-HY)
Double Ridge Horn Antenna	Training Research	AF-0801	95119	8G~18G	Oct. 28, 2008	Oct. 27, 2009	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	BBHA9170251	15G~40GHz	Oct. 16, 2008	Oct. 15, 2009	Radiation (03CH06-HY)
Pre Amplifier	Agilent	8449B	3008A01917	1G~26.5GHz	Nov. 11, 2008	Nov. 10, 2009	Radiation (03CH06-HY)
Pre Amplifier	Agilent	310N	186713	9kHz~1GHz	Apr. 20, 2009	Apr. 19, 2010	Radiation (03CH06-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz~30 MHz	May 22, 2008	May 21, 2010	Radiation (03CH06-HY)
System Simulator	R&S	CMU200	117591	N/A	Oct. 23, 2008	Oct. 22, 2010	Radiation (03CH06-HY)

4. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Contribution	Uncertainty of X_i		$u(x_i)$
	dB	Probability Distribution	
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
Combined standard uncertainty Uc(y)	1.13		
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.26		

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

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 (1 GHz ~ 40 GHz)

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 $U_c(y)$	2.36				
Measuring uncertainty for a level of confidence of 95% $U = 2U_c(y)$	4.72				



Appendix A. Photographs of EUT

Please refer to Sporton report number EP8D1611-04 as below.