TEST REPORT

For

Mobile Phone

In conformity with

FCC Part15B (October 1, 2007)

Model: F-03A

Test Item: Mobile Phone

Report No: RY0811Z12R1

Issue Date: November 12, 2008

Prepared for

Fujitsu Limited.
1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588, Japan

Prepared by

RF Technologies Ltd.
472, Nippa-cho, Kohoku-ku, Yokohama, 223-0057, Japan
Telephone: +81+(0)45- 534-0645
FAX: +81+(0)45- 534-0646

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History

Report No.	Date	Revisions	Revised By
RY0811Z12R1	12 November 2008	Initial Issue	K. Ohnishi

1 General information

1.1 Product description

Test item	: Mobile phone
Manufacturer	: Fujitsu Limited
Address	: 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki 211-8588, Japan
Model	: F-03A
FCC ID	: VQK-F-03A
Description	: GSM1900/WCDMA850 Mobile Phone
Receipt date of EUT	: October 23, 2008
Nominal power voltages	: 3.7VDC (Lithium-ion battery)
Serial numbers	: 353716020000562
Classification	: FCC Class B Digital Device

1.2 Test(s) performed/ Summary of test result

Applicable Standard(s)	: Part15 Subpart B (October 1, 2007)
Test(s) started	: October 3, 2008
Test(s) completed	: October 3, 2008
Purpose of test(s)	: Grant for Certification of FCC
Summary of test result	: Complied

Note: The above judgment is only based on the measurement data and it does not include the measurement uncertainty. Accordingly, the statement below is applied to the test result.
The EUT complies with the limit required in the standard in case that the margin is not less than the measurement uncertainty in the Laboratory.
Compliance of the EUT is more probable than non-compliance is case that the margin is less than the measurement uncertainty in the Laboratory.

Test engineer : K. Ohnishi
K. Ohnishi (EMC Testing Department)

Reviewer : T. Ikegami
T.Ikegami (Manager, EMC Testing Department)

1.3 Test facility

The Federal Communications Commission has reviewed the technical characteristics of the test facilities at RF Technologies Ltd., located in 472, Nippa-cho, Kohoku-ku, Yokohama, 223-0057, Japan, and has found these test facilities to be in compliance with the requirements of 47 CFR Part 15, section 2.948, per October 01, 2007.
The description of the test facilities has been filed under registration number 879401 at the Office of the Federal Communications Commission. The facility has been added to the list of laboratories performing these test services for the public on a fee basis.
The list of all public test facilities is available on the Internet at http://www.fcc.gov.

Registered by Voluntary Control Council for Interference by Information Technology Equipment (VCCI).
Each registered facility number is as follows;
Test site (Semi-anechoic chamber 3m) R-2393
Test site (Shielded room) C-2617

Registered by Industry Canada (IC): The registered facility number is as follows;
Test site No.1 (Semi-anechoic chamber 3m): 6974A-1

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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NVLAP LAB CODE 200780-0

1.4 Measurement uncertainty

The treatment of uncertainty is based on the general matters on the definition of uncertainty in "Guide to the expression of uncertainty in measurement (GUM)" published by ISO. The Lab's uncertainty is determined by referring UKAS Publication LAB34: 2002 "The Expression of Uncertainty in EMC Testing" and CISPR16-4-2: 2003 "Uncertainty in EMC Measurements". The uncertainty of the measurement result in the level of confidence of approximately 95% (k=2) is as follows;

RF frequency: ± 1 x 10^{-7}
RF conducted level: ± 1.0 dB
AC Power line emission: ± 1.9 dB
Radiated emission (30MHz - 1000MHz): ± 5.7 dB
Radiated emission (above 1000MHz): ± 5.8 dB
Temperature: ± 1 degree
Humidity: ± 5 %

1.5 Description of essencial requirements and test results

An overview of test requirements, as laid out in FCC Part15B is given below.

1.5.1 Test requirements (FCC Part15B)

Test Description	Section in this report	Applicable	Result
Radiated emission (15.109)	2.1	Yes	Passed
AC power line conducted emission (15.107)	2.2	Yes	Passed

1.5.2 Normal test conditions

Temperature : +15 deg. C to +35 deg. C
Relative humidity : 20 % to 75 %
Supply voltage : 3.7 VDC (Nominal)

1.6 Setup of equipment under test (EUT)

1.6.1 Test configuration of EUT

Equipment(s) under test:

	Item	Manufacturer	Model No.	Serial No.	FCC ID
A	Mobile phone	Fujitsu Limited	F-03A	353716020000562	VQK-F-03A
B	Battery pack	Fujitsu Limited	F10	AFF29105	N/A
C	Notebook PC	TOSHIBA	PP410J0001G1	13513107	N/A
D	AC Adapter	TOSHIBA	PA3262U-1ACA	0212A0005779G	N/A

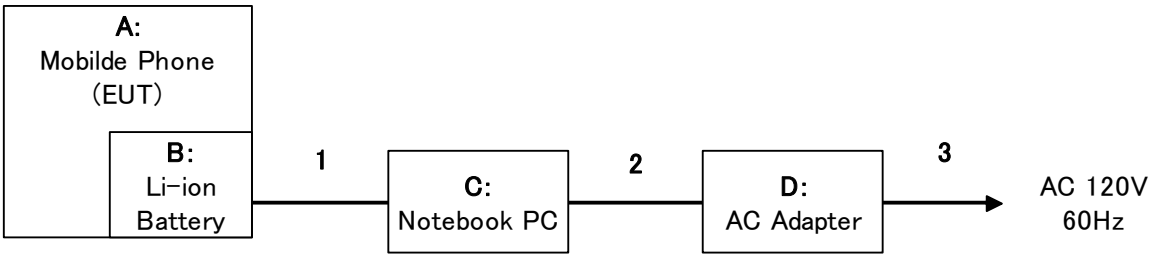
Connected cable(s):

No.	Item	Identification (Manu.e.t.c)	Shielded YES / NO	Ferrite Core YES / NO	Connector Type Shielded YES / NO	Length (m)
1	USB cable	NTT DOCOMO, INC.	No	No	Yes	0.7
2	DC power cable	TOSHIBA	No	No	No	1.8
3	AC power cable	-	No	No	No	1.5

1.6.2 Operating condition

Mobile phone was connected to Notebook PC with USB cable.
With this condition, emission level was tested during USB data communication.

1.6.3 Setup diagram of tested system



1.7 Equipment modifications

No modifications have been made to the equipment in order to achieve compliance with the applicable standards described in clause 1.2.

1.8 Deviation from the standard

No deviations from the standards described in clause 1.2.

2 Test procedure and result

2.1 Radiated Emissions

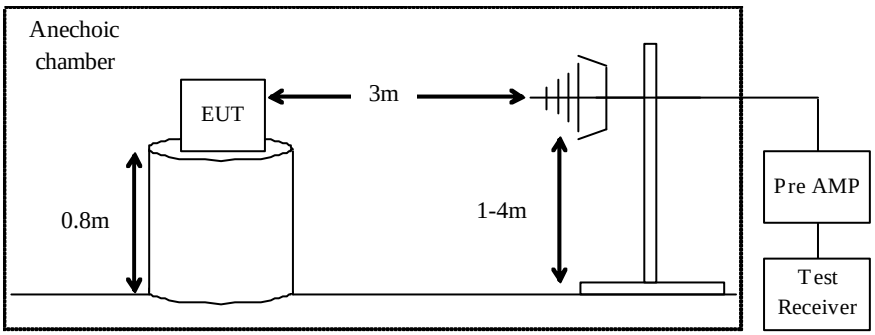
Reference Standard
Part15.109

Test Conditions

Date:	2008/11/03
Ambient Temperature:	21 deg. C
Relative humidity:	48 %

Test Method
a) Test data is transmitted from EUT to Notebook PC with USB cable.
b) Radiated spurious emission is received by receive antenna.
c) Turn table is rotated 360deg.
d) Maximum level of each spurious is measured by Test receiver.
e) RBW of spectrum analyzer is set to 100 kHz for 30 - 1000MHz.
f) Level is measured with QP detect for 30 - 1000MHz.

Test Setup

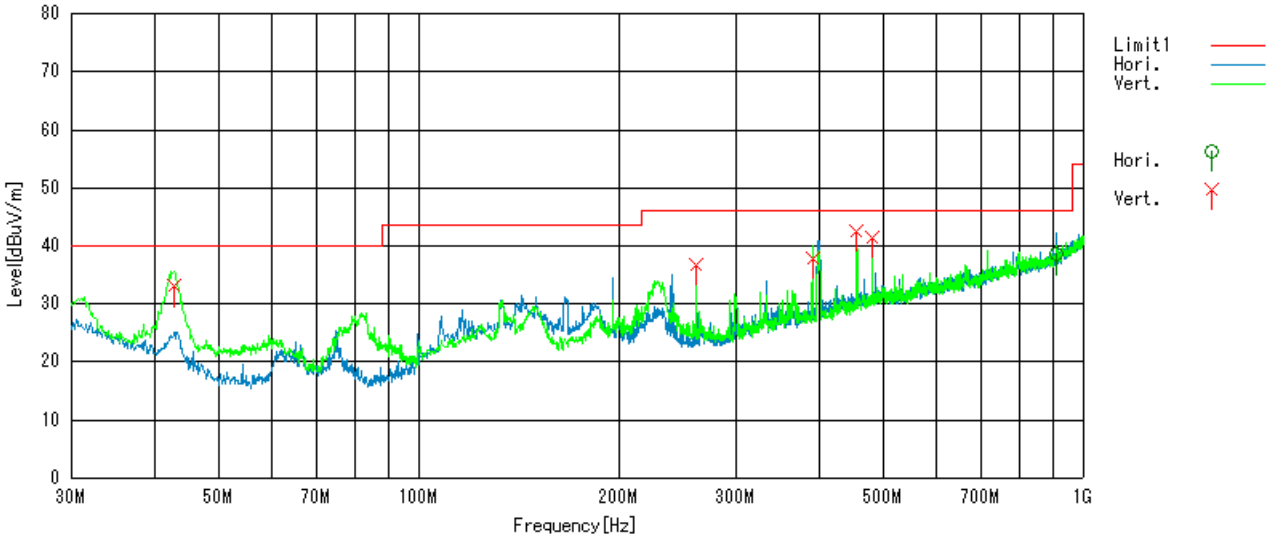


Limit

Frequency (MHz)	Distance (m)	Field strength (uV/m)	Field strength (dBuV/m)
30 - 88	3	100	40.0
88 - 216	3	150	43.5
216 - 960	3	200	46.0
above 960	3	500	54.0

Test Results

Frequency (MHz)	Antenna	Field strength (dBuV/m)	Limit (dBuV/m)	Result
42.640	Vert.	33.0	40.0	Passed
260.110	Vert.	36.7	46.0	Passed
390.167	Vert.	37.9	46.0	Passed
455.192	Vert.	42.6	46.0	Passed
479.989	Vert.	41.4	46.0	Passed
910.387	Hori.	38.5	46.0	Passed



Test Equipment Used

Equipment name	RFT ID No.
RF cable	CL11
Receive Antenna	BA03
Pre AMP	PR03
Test Receiver	TR04

Final Result

The EUT met the requirements of the standard for this test.

2.2 AC power line conducted emissions

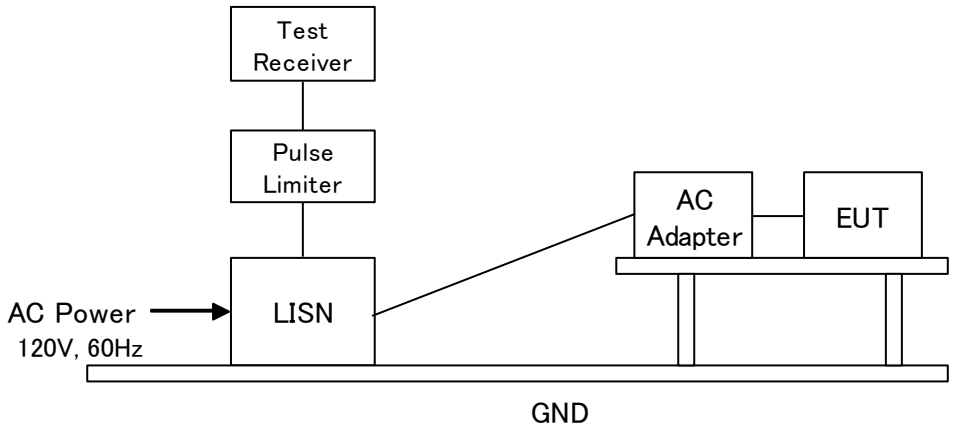
Reference Standard
FCC: Part15.107

Test Conditions

Date:	2008/11/03
Ambient Temperature:	21 deg. C
Relative humidity:	48 %

Test Method
a) Test data is transmitted from EUT to Notebook PC with USB cable.
b) AC power is supplied to AC charger through LISN.
c) AC charger is connected to EUT.
d) AC Power Line emission is measured by EMI receiver.
Both Live / Neutral are measured emission level.

Test Setup



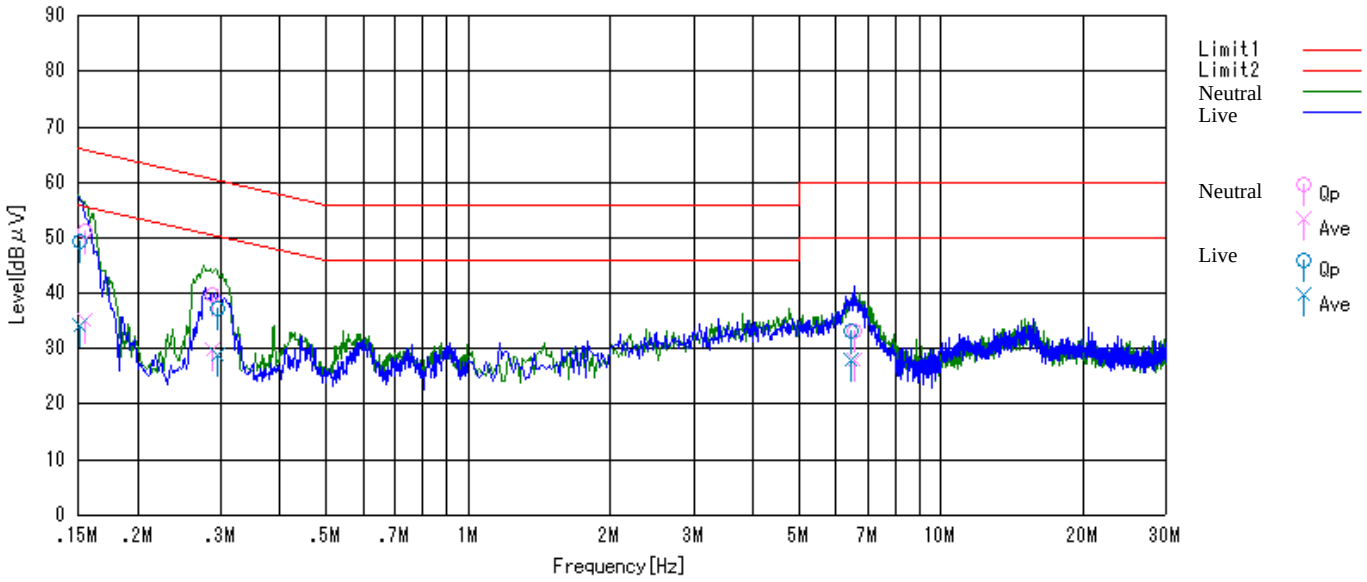
Limit

Frequency (MHz)	Limit QP (dBuV)	Limit AV (dBuV)
0.15 - 0.5	66 - 56	56 - 46
0.5 - 5	56	46
5 - 30	60	50

Test Results

Frequency (MHz)	Line (Live/Neutral)	QP Level (dBuV)	Ave. Level (dBuV)	QP Limit (dBuV)	Ave. Limit (dBuV)	Result
0.155	Live	34.9	65.7	55.7	14.6	Passed
0.288	Live	29.9	60.6	50.6	20.8	Passed
6.562	Live	27.9	60.0	50.0	26.7	Passed
0.151	Neutral	34.2	65.9	55.9	16.4	Passed
0.294	Neutral	28.9	60.4	50.4	23.2	Passed
6.442	Neutral	28.0	60.0	50.0	26.9	Passed

Graphical Data



Test Equipment Used

Equipment name	RFT ID No.
EMI Receiver	TR04
LISN	LN05
RF cable	CL11

Final Result

The EUT met the requirements of the standard for this test

4 List of utilized test equipment/ calibration

RFT ID No.	Kind of Equipment and Precision	Manufacturer	Model No.	Serial Number	Calibration Date	Calibrated until
AC01	Anechoic Chamber (1st test room)	JSE	203397C	-	2008/07/04	2009/07/03
BA03	Bilogical Antenna	CHASE	CBL6111	1309	2008/05/07	2009/05/06
CL11	Antenna Cable	RFT	-	-	2008/06/11	2009/06/10
LN05	LISN	Kyoritsu	KNW-407	8-1773-2	2008/05/21	2009/05/20
PR03	Pre. Amplifier	Anritsu	MH648A	M41984	2008/05/12	2009/05/11
TR04	Test Receiver (F/W : 3.82 SP1)	Rohde & Schwarz	ESCI	100447	2008/09/16	2009/09/15

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.