

FCC CERTIFICATION REPORT

Test Report No.: EM/2011/60112

Applicant : Fujitsu Toshiba Mobile Communications Limited

Address of Applicant : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki

Manufacturer : Fujitsu Toshiba Mobile Communications Limited

Address of Manufacturer : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki

Equipment Under Test (EUT) :

Product Name: CDMA FJ001

Brand Name : N/A

Model Number : FJ001

FCC ID : YUW-FJ001

Added Model(s) : N/A

Standards : FCC Part 15:2010, Subpart B, Class B

Date of Receipt : Jun. 21, 2011

Date of Test : Jun. 21 ~ 30, 2011

Date of Issue(First): Jul. 29, 2011

Test Result :	PASS
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In the configuration tested, the EUT complied with the standards specified above.

Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report shall not be reproduced except in full, without the written approval of the laboratory. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Test By:



Date

Jul. 29, 2011

Wisely Huang(Engineer)

Prepared By:



Date

Jul. 29, 2011

Kay Ke(Clerk)

Approved By



Date

Jul. 29, 2011

Ion Lin(Assistant Manager)

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f (886-2) 2299-9489

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Version

Version No.	Description	Date
00	Original report	Jul. 29, 2011

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1. General Information

1.1 Applicant & Manufacturer Information

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Address of Applicant : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki

Manufacturer : Fujitsu Toshiba Mobile Communications Limited

Address of Manufacturer : 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki

1.2 General Description of EUT

Product Name: CDMA FJ001

Brand Name : N/A

Model Number: FJ001

FCC ID : YUW-FJ001

Added Model(s) : N/A

Model Difference : N/A

Highest Frequency : 2.4GHz

Filing Type : Certification

Bluetooth:

Bluetooth Version:	V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	6.19dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq 0.4s$
Operating Mode:	Point-to-Point
Antenna Designation:	Monopole antenna 2.3dBi(MAX)

The EUT is compliance with Bluetooth 2.1 + EDR

The test report compliance for Bluetooth.

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1.3 Details of EUT

Tested Power Supply : 1. Adapter → Input : AC 100V/50-60Hz; Output : DC 5.0V/600mA

Model No. : 0203PQA, Supplier: MITSUMI

2. Battery → DC 3.7V

Model No. : FJ001UAA, Supplier: SANYO Electric

Modes/Function : 1. PC Link Mode 2. Adapter + Photography + BT Link Mode

3. Adapter + Video Play + BT Link Mode

4. Adapter + GPS + BT Link Mode

5. Adapter + CDMA Mode 6. Ear + Video Play + BT Link Mode

7. Ear + Photography + BT Link Mode

Worst case : 3. Adapter + Video Play + BT Link Mode

1.4 Operation Procedure

1. Set down EUT with support units and turn on the power of all equipment.
2. Pre-test the EUT in all modes by each model, then figure the worst case out.
3. Tests under the normal operation pattern.

1.5 Description of Support Units

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
NOTEBOOK	IBM	L412	LR-ZYMYD
USB Mouse	HP	M-UAE96	390938-001
Printer	HP	DJ3820	CN34L181B1
GPS Simulator	ADAVIC	MP9100	N/A
GSM Simulator	R & S	CMU200	N/A

1.6 Modification List

No have the modification by SGS Taiwan Electronics & Communication Laboratory

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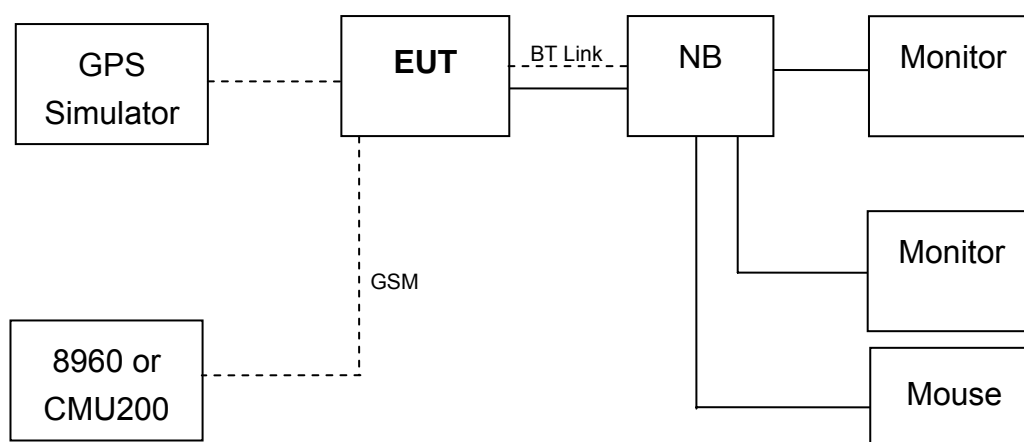
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1.7 Cable List

Cable Type	Length	Shield
USB Cable	0.8m	Non-shielding
Charge Cable(USB)	0.08m	Non-shielding

1.8 Test Set-Up Configuration



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1.9 Measurement Procedure

Conducted Emission Testing was performed according ANSI C63.4:2009 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2009 at the 9*6*6 3m Semi-Anechoic chamber test site. The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 3meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum. The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.

1.10 Standards Applicable for Testing

Table of tests to be carried out under FCC Part 15, Subpart B

Test Standards	Status
FCC Part 15, Subpart B	Applicable
Deviation from Standard	No Deviation

1.11 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Polar.	Frequency (MHz)	Margin(dB)
FCC Part 15 Subpart B Class B/CISPR 22	Conducted Emission	PASS	Line	4.7800	-11.52(QP)
			Neutral	4.5600	-12.32(QP)
	Radiated Emission	PASS	Hor.	706.8200	-8.79(QP)

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2. Radio Disturbance

2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

2.2 Frequency Range

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

2.3 Limits Of Conducted And Radiated Emission

2.3.1 Limit Of Conducted Emission Of FCC Part 15, Subpart B/CISPR 22

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi - peak	Average	Quasi - peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	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 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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2.3.2 Limit Of Radiated Emissions Of FCC Part 15, Subpart B/CISPR 22

FCC Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV) (at 3m)		Class B (dBuV) (at 3m)	
	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

CISPR Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

- Detector Function : Peak , Average – Class A

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	56	76
3 to 6	60	80

- Detector Function : Peak , Average – Class B

Frequency range GHz	Average Limit dB(μV/m)	Peak Limit dB(μV/m)
1 to 3	50	70
3 to 6	54	74

Note : The lower limit applies at the transition frequency.

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2.4.Test of Conducted Emission

2.4.1 Test Equipments

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
EMI Test Receiver	ROHDE&SCHWARZ	ESCS 30	828985/004	Sep. 23, 2010	Sep. 22, 2011
Coaxial Cables	N/A	WK CE Cable	N/A	Nov. 27, 2010	Nov. 26, 2011
L.I.S.N	Rolf-Heine	NNB-2/16Z	99012	Mar. 31, 2011	Mar. 30, 2012
L.I.S.N	FCC	FCC-LISN-50/250-25-2-01	04034	Mar. 31, 2011	Mar. 30, 2012
Software	Farad	EZ-EMC-VER2A1.1(USB)	N/A	N/A	N/A

2.4.2 Test Site

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2.4.3 Operating Environment

Temperature : 24 degree C

Humidity : 59 %RH

Atmospheric Pressure : 996 mBar

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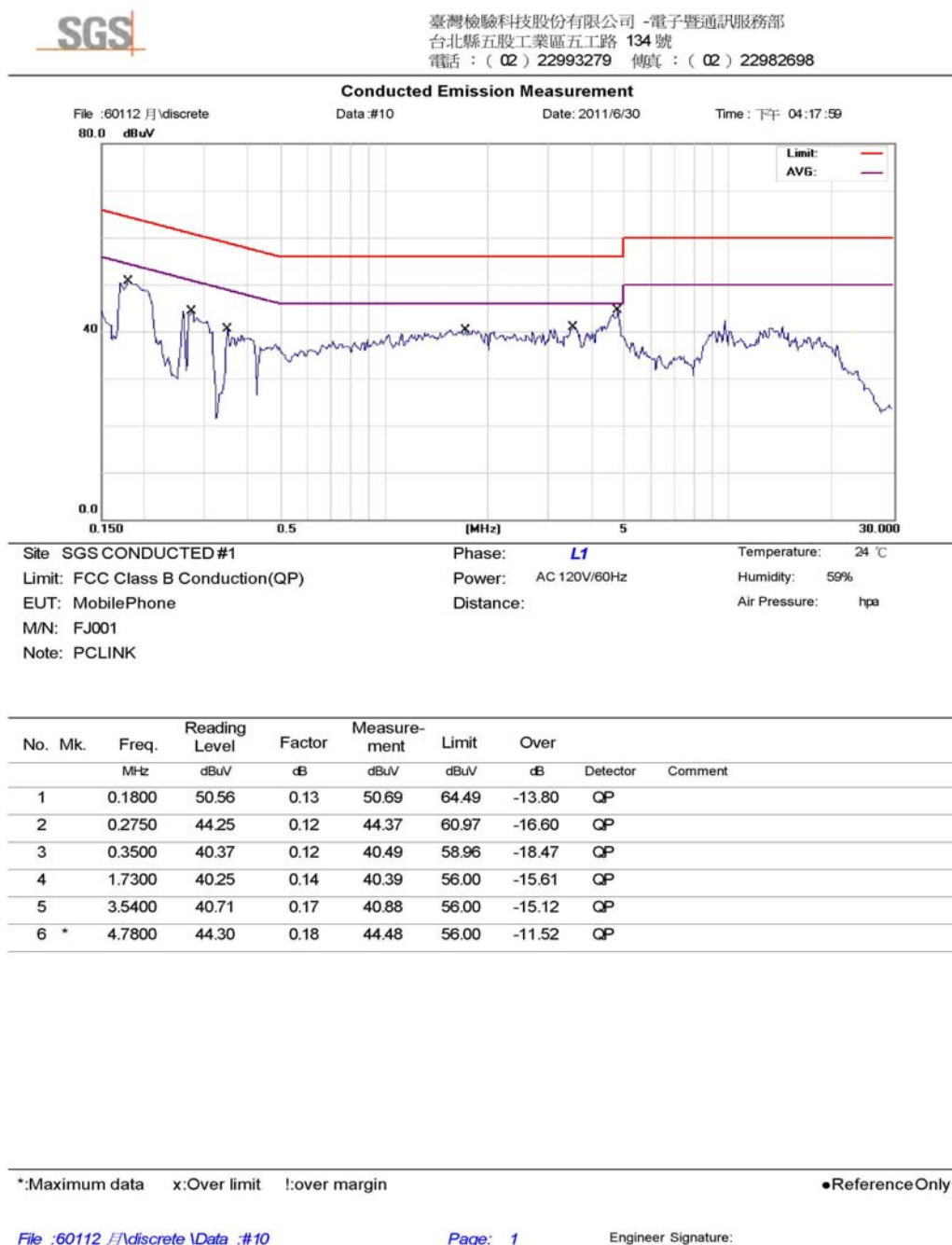
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2.4.4 Measurement Data

PC Link Mode

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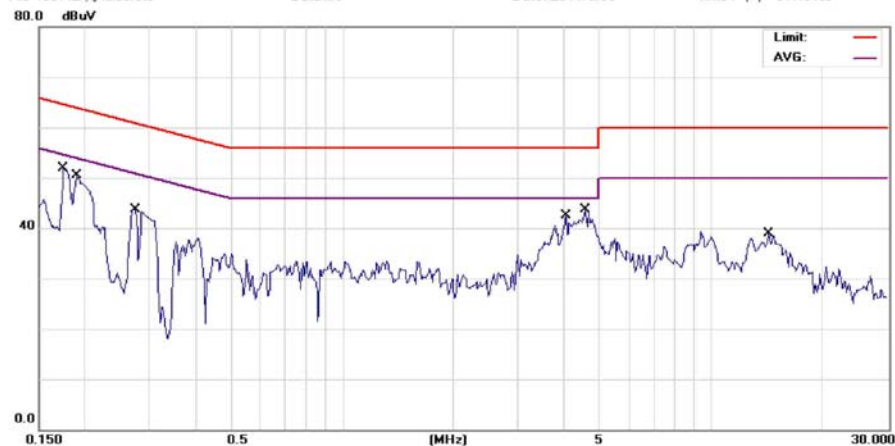
Conducted Emission Measurement

File : 60112 月 \discrete

Data : #9

Date: 2011/6/30

Time : 下午 04:13:58



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: MobilePhone

M/N: FJ001

Note: PCLINK

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 24 °C

Humidity: 59%

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1750	51.68	0.17	51.85	64.72	-12.87	QP	
2		0.1900	50.37	0.17	50.54	64.04	-13.50	QP	
3		0.2750	43.61	0.16	43.77	60.97	-17.20	QP	
4		4.0500	42.34	0.21	42.55	56.00	-13.45	QP	
5	*	4.5600	43.46	0.22	43.68	56.00	-12.32	QP	
6		14.3400	38.36	0.46	38.82	60.00	-21.18	QP	

*:Maximum data x:Over limit !:over margin

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File : 60112 月 \discrete \Data : #9

Page: 1

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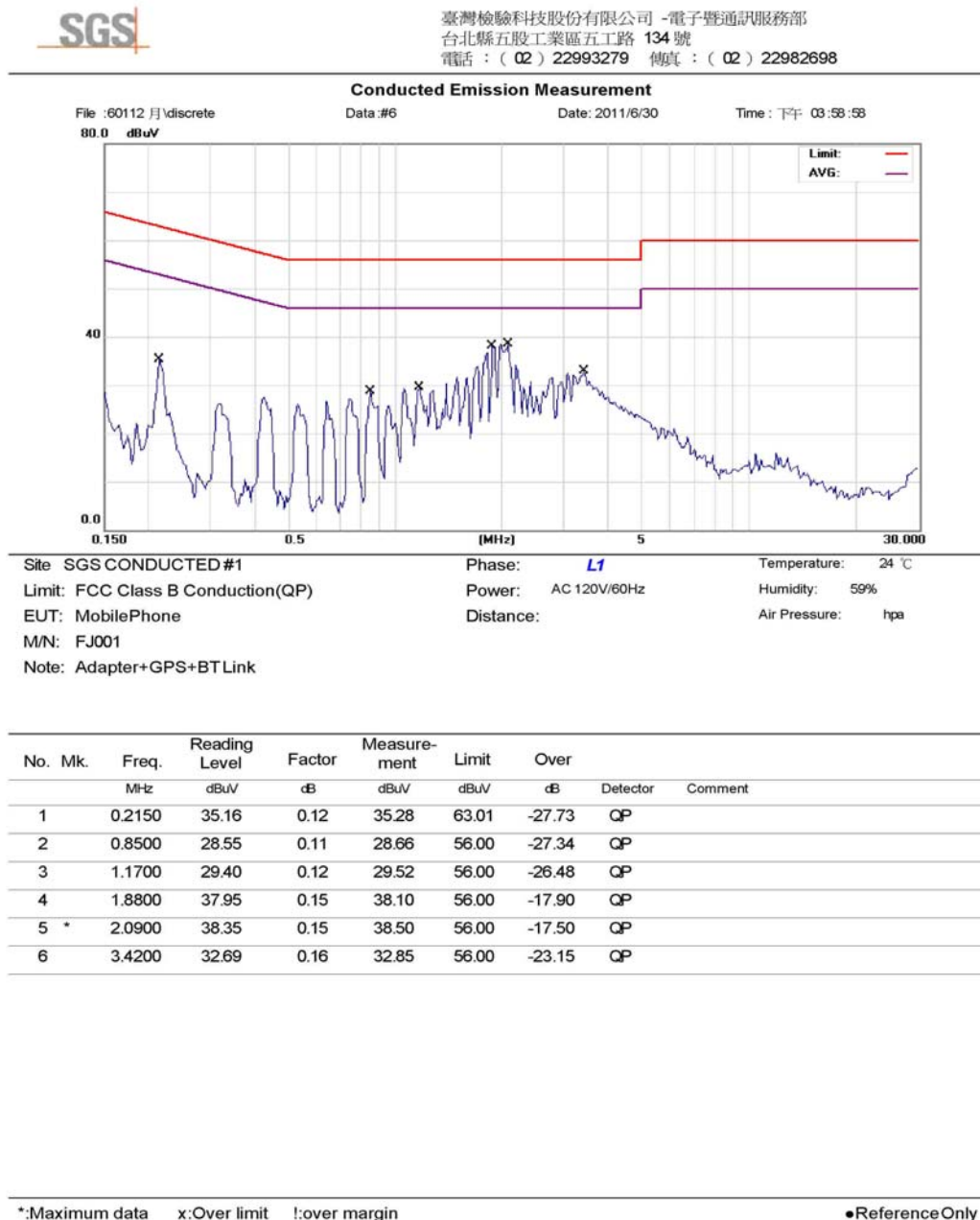
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File : 60112 月 \discrete \Data : #6

Page: 1

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Conducted Emission Measurement

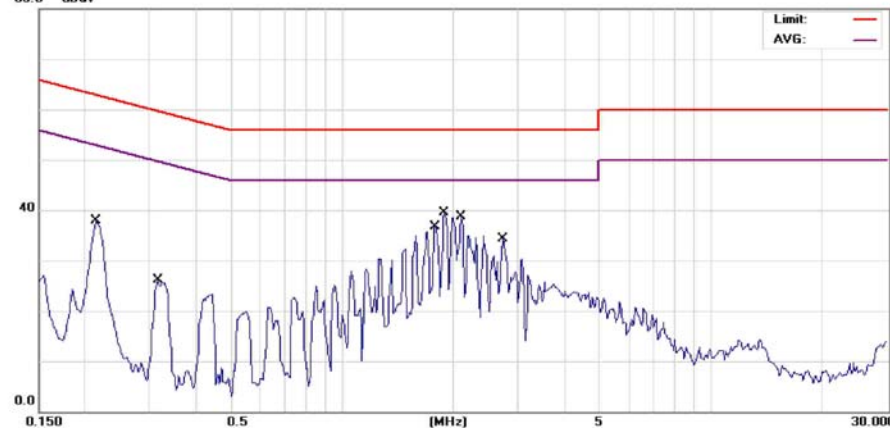
File : 60112 \discrete

Data : #5

Date: 2011/6/30

Time : 下午 03:56:40

80.0 dBuV



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: MobilePhone

M/N: FJ001

Note: Adapter+GPS+BTLink

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 24 °C

Humidity: 59%

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2150	37.79	0.16	37.95	63.01	-25.06	QP	
2		0.3150	25.91	0.15	26.06	59.84	-33.78	QP	
3		1.7900	36.57	0.17	36.74	56.00	-19.26	QP	
4	*	1.8900	39.39	0.18	39.57	56.00	-16.43	QP	
5		2.1000	38.47	0.18	38.65	56.00	-17.35	QP	
6		2.7300	34.02	0.19	34.21	56.00	-21.79	QP	

*:Maximum data x:Over limit !:over margin

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Adapter + CDMA Mode

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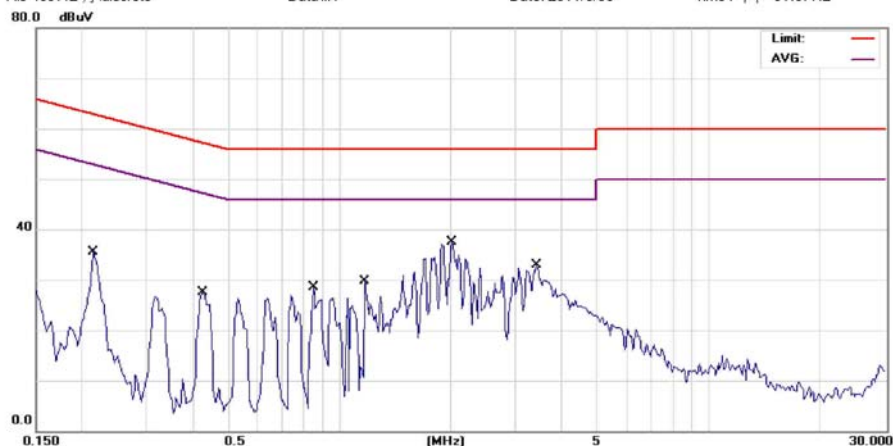
Conducted Emission Measurement

File : 60112 月\discrete

Data : #7

Date: 2011/6/30

Time: 下午 04:01:12



Site: SGS CONDUCTED #1

Phase: L1

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 59%

EUT: MobilePhone

Distance:

Air Pressure: hpa

M/N: FJ001

Note: Adapter+CDMA

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2150	35.34	0.12	35.46	63.01	-27.55	QP	
2		0.4250	27.37	0.12	27.49	57.35	-29.86	QP	
3		0.8500	28.45	0.11	28.56	56.00	-27.44	QP	
4		1.1700	29.64	0.12	29.76	56.00	-26.24	QP	
5	*	2.0200	37.35	0.15	37.50	56.00	-18.50	QP	
6		3.4200	32.65	0.16	32.81	56.00	-23.19	QP	

*:Maximum data x:Over limit !:over margin

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File : 60112 月\discrete \Data : #7

Page: 1

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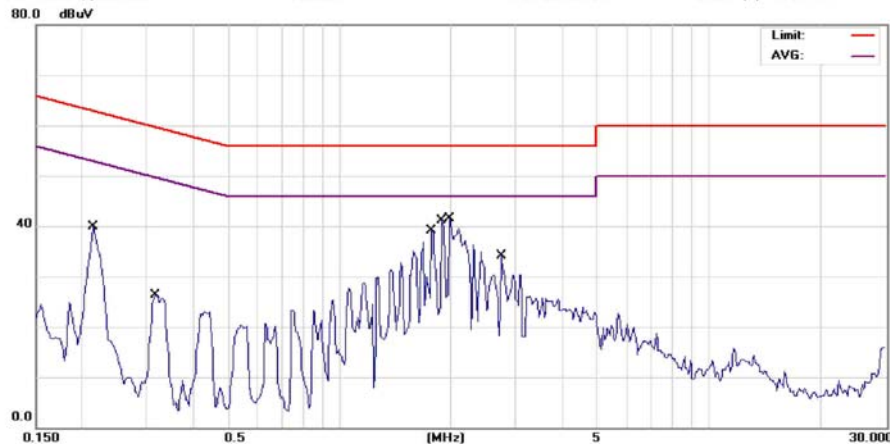
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Conducted Emission Measurement

File : 60112 月\discrete Data : #8 Date : 2011/6/30 Time : 下午 04:02:57



Site: SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: MobilePhone

M/N: FJ001

Note: Adapter+CDMA

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 24 °C

Humidity: 59%

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2150	39.76	0.16	39.92	63.01	-23.09	QP	
2		0.3150	26.21	0.15	26.36	59.84	-33.48	QP	
3		1.7800	38.98	0.17	39.15	56.00	-16.85	QP	
4		1.8900	40.94	0.18	41.12	56.00	-14.88	QP	
5	*	1.9900	41.27	0.18	41.45	56.00	-14.55	QP	
6		2.7400	33.84	0.19	34.03	56.00	-21.97	QP	

*:Maximum data x:Over limit !:over margin

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File : 60112 月\discrete \Data : #8

Page: 1

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Conducted Emission Measurement

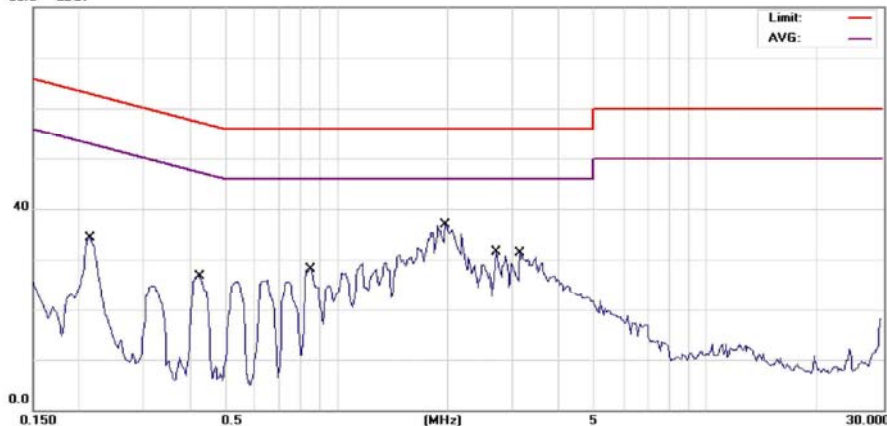
File : 60112 月\discrete

Data : #2

Date : 2011/6/30

Time : 下午 03:47:53

80.0 dBuV



Site: SGS CONDUCTED #1

Phase: L1

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 59%

EUT: MobilePhone

Distance:

Air Pressure: hpa

M/N: FJ001

Note: Adapter + Photography + BTLink

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	Level		ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1		0.2150	34.09	0.12	34.21	63.01	-28.80	QP	
2		0.4250	26.54	0.12	26.66	57.35	-30.69	QP	
3		0.8500	27.95	0.11	28.06	56.00	-27.94	QP	
4	*	1.9700	36.76	0.15	36.91	56.00	-19.09	QP	
5		2.7100	31.40	0.16	31.56	56.00	-24.44	QP	
6		3.1400	31.09	0.16	31.25	56.00	-24.75	QP	

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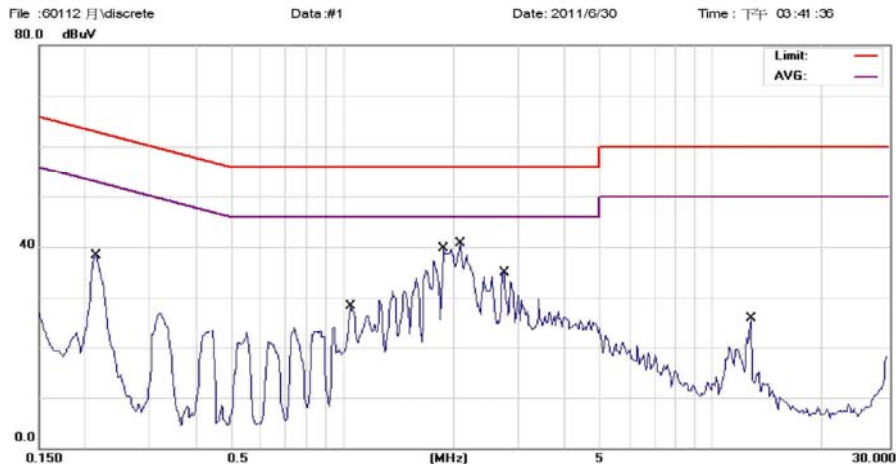
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Conducted Emission Measurement



Site: SGS CONDUCTED #1
Limit: FCC Class B Conduction(QP)
EUT: MobilePhone
M/N: FJ001
Note: Adapter + Photography + BTLink

Phase: N Temperature: 24 °C
Power: AC 120V/60Hz Humidity: 59%
Distance: Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2150	38.22	0.16	38.38	63.01	-24.63	QP	
2		1.0500	28.10	0.15	28.25	56.00	-27.75	QP	
3		1.8700	39.60	0.18	39.78	56.00	-16.22	QP	
4	*	2.0800	40.59	0.18	40.77	56.00	-15.23	QP	
5		2.7400	34.75	0.19	34.94	56.00	-21.06	QP	
6		12.8000	25.53	0.47	26.00	60.00	-34.00	QP	

*:Maximum data x:Over limit !:over margin

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File : 60112 月\discrete \Data : #1

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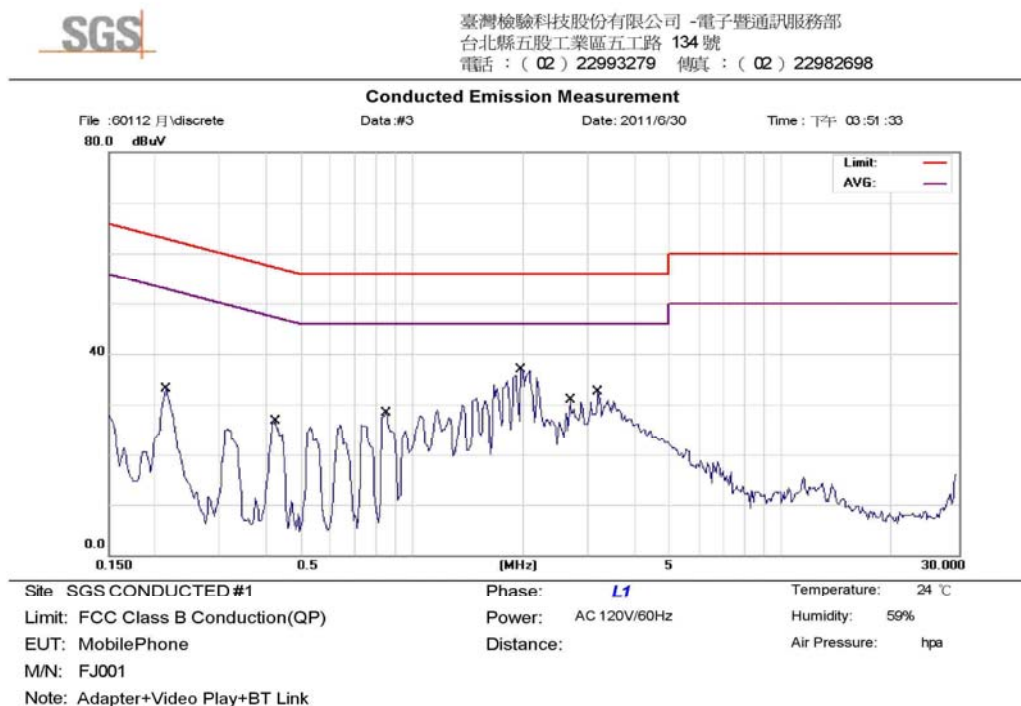
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No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2150	33.01	0.12	33.13	63.01	-29.88	QP	
2		0.4250	26.62	0.12	26.74	57.35	-30.61	QP	
3		0.8500	28.11	0.11	28.22	56.00	-27.78	QP	
4	*	1.9800	36.82	0.15	36.97	56.00	-19.03	QP	
5		2.6800	30.65	0.16	30.81	56.00	-25.19	QP	
6		3.1900	32.28	0.16	32.44	56.00	-23.56	QP	

*:Maximum data x:Over limit !:over margin

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File : 60112 月 \discrete \Data : #3

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電話：(02) 22993279 傳真：(02) 22982698

Conducted Emission Measurement

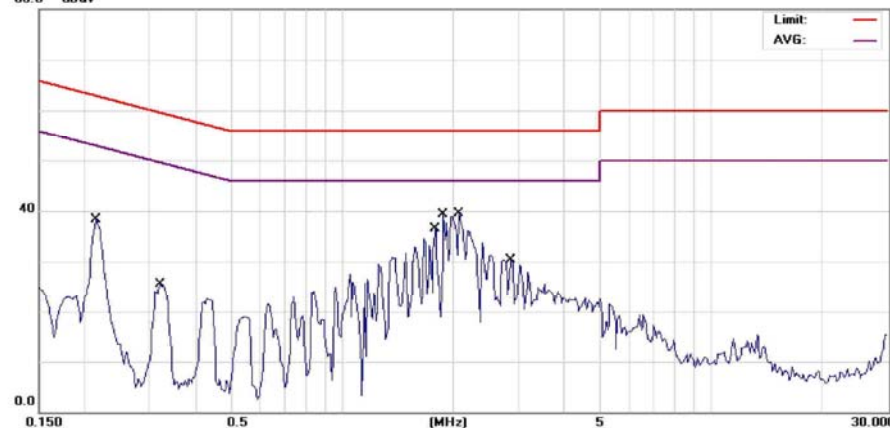
File :60112 月\discrete

Data :#4

Date: 2011/6/30

Time : 下午 03:53:19

80.0 dBuV



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: MobilePhone

M/N: FJ001

Note: Adapter+Video Play+BT Link

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 24 °C

Humidity: 59%

Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2150	38.13	0.16	38.29	63.01	-24.72	QP	
2		0.3200	25.29	0.15	25.44	59.71	-34.27	QP	
3		1.7900	36.31	0.17	36.48	56.00	-19.52	QP	
4		1.8800	39.21	0.18	39.39	56.00	-16.61	QP	
5	*	2.0700	39.27	0.18	39.45	56.00	-16.55	QP	
6		2.8600	30.05	0.19	30.24	56.00	-25.76	QP	

*:Maximum data x:Over limit !:over margin

●Reference Only

File :60112 月\discrete \Data :#4

Page: 1

Engineer Signature:

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t (886-2) 2299-3939

f (886-2) 2299-9489

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2.5 Test of Radiated Emission

2.5.1 Test Instruments

Description	Manufacturer	Model No.	Serial No.	Last Calibration Date	Next Calibration Date
Site NSA	Chamost	966II Chamber	N/A	Nov. 14, 2010	Nov. 13, 2011
EMI Test Receiver	ROHDE&SCHWARZ	ESCS 30	828985/004	Sep. 23, 2010	Sep. 22, 2011
Spectrum Analyzer	R & S	FSP 40	1093.4495.40	May 04, 2011	May 03, 2012
RF-Amplifier (0.1-1300MHz)	HP	8447D	1937A02774	Nov. 27, 2010	Nov. 26, 2011
RF-Amplifier (1-26.5MHz)	HP	8449B	3008A00578	Mar. 02, 2011	Mar. 01, 2012
Coaxial Cables	SUCOFLEX	104PEA	N/A	Nov. 27, 2010	Nov. 26, 2011
Antenna Master	MF.	N/A	N/A	N/A	N/A
Turn Table	MF.	N/A	N/A	N/A	N/A
Controller	MF.	3000	MF780208153	N/A	N/A
Antenna	SCHWAZBECK	VULB9160	3068	Nov. 12, 2010	Nov. 11, 2011
Horn Antenna (For above 1G)	CHAMPRO	HA1-18GG	SN0805-HA02	Jun. 12, 2011	Jun. 11, 2012
Software	Farad	EZ-EMC-VER2A1.1(USB)	N/A	N/A	N/A

2.5.2 Test Site

SGS Taiwan LTD. Electronics & Communication Laboratory
No.134, Wu Kung Road. Wuku Industrial Zone, Taipei County 248, Taiwan (R.O.C.)

2.5.3 Operating Environment

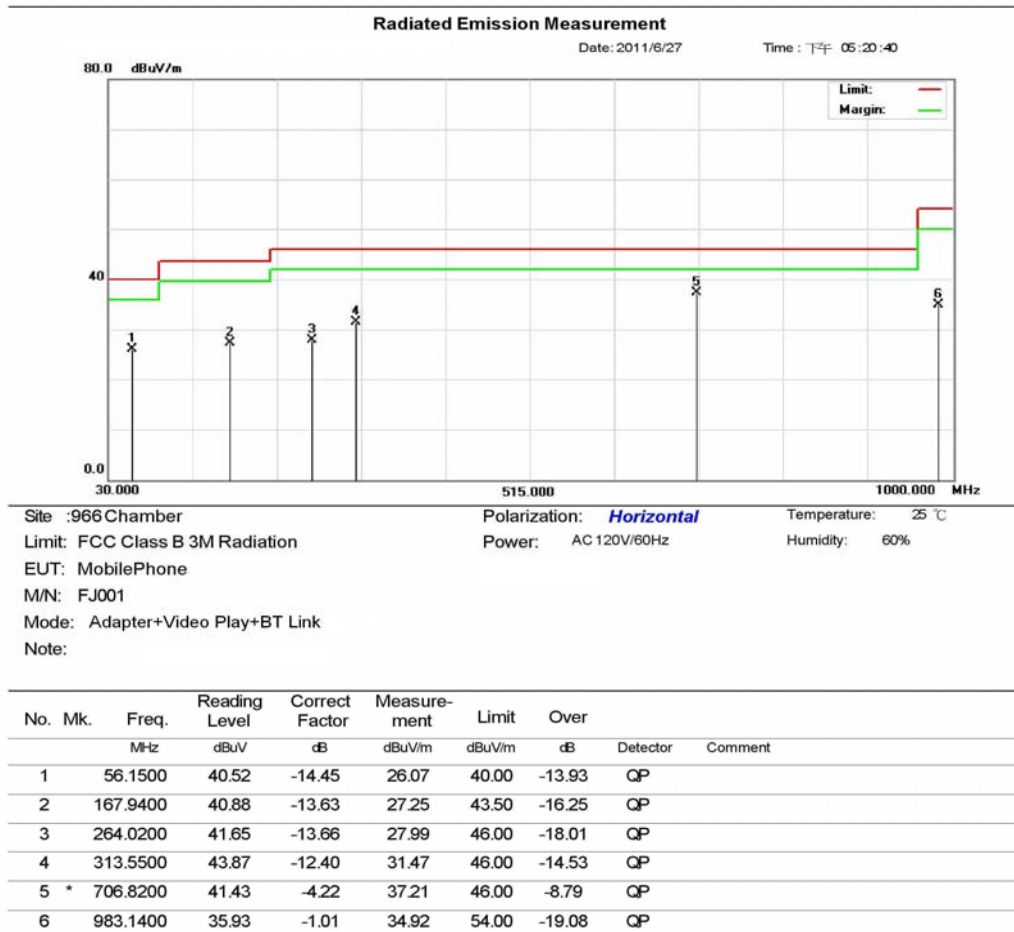
Temperature : 26 degree C Humidity : 60 %RH
Atmospheric Pressure : 996 mBar

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2.5.4 Measurement Data

H:

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Address :台北縣五股工業區五工路 134 號
Tel:02-2299-3279 Fax:02-2298-2698



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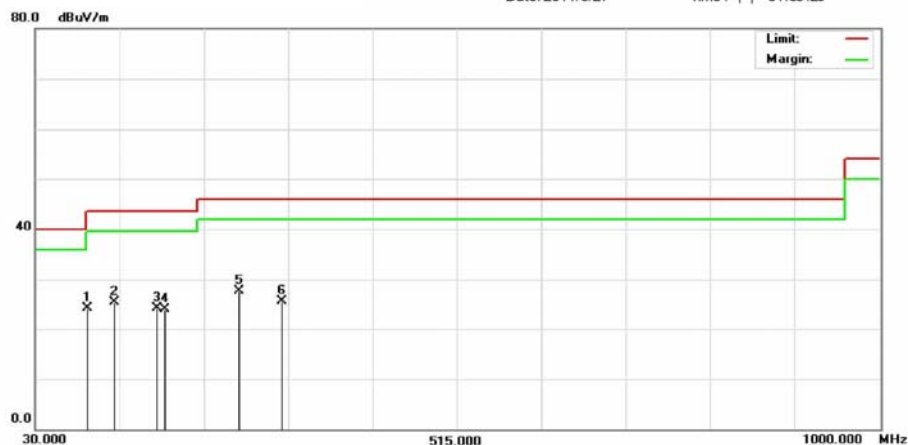
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Address :台北縣五股工業區五工路 134 號
Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement

Date: 2011/6/27

Time : 下午 04:58:28



Site :966 Chamber

Polarization: **Vertical**

Temperature: 25 °C

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60%

EUT: MobilePhone

M/N: FJ001

Mode: Adapter+Video Play+BT Link

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		89.6000	41.64	-17.26	24.38	43.50	-19.12	QP	
2	*	120.4000	40.28	-14.87	25.41	43.50	-18.09	QP	
3		168.5300	37.95	-13.68	24.27	43.50	-19.23	QP	
4		177.5000	38.66	-14.47	24.19	43.50	-19.31	QP	
5		263.6100	41.35	-13.67	27.68	46.00	-18.32	QP	
6		312.6900	38.10	-12.41	25.69	46.00	-20.31	QP	

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t (886-2) 2299-3939

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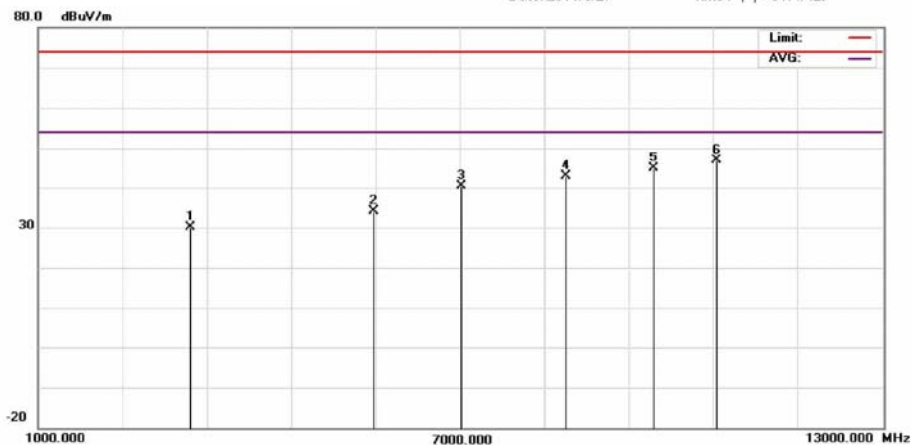
Above 1G
H:

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Address :台北縣五股工業區五工路 134 號
Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement

Date: 2011/6/27

Time : 下午 04:47:28



Site : 966 Chamber

Polarization: **Horizontal**

Temperature: 25 °C

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Power: AC 120V/60Hz

Humidity: 60%

EUT: MobilePhone

M/N: FJ001

Mode: Adapter+Video Play+BT Link

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		3160.000	29.90	0.18	30.08	74.00	-43.92	peak	
2		5776.000	27.87	6.22	34.09	74.00	-39.91	peak	
3		7024.000	30.05	10.28	40.33	74.00	-33.67	peak	
4		8512.000	29.94	13.02	42.96	74.00	-31.04	peak	
5		9760.000	28.43	16.57	45.00	74.00	-29.00	peak	
6	*	10648.000	27.33	19.47	46.80	74.00	-27.20	peak	

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t (886-2) 2299-3939

f (886-2) 2299-9489

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Address :台北縣五股工業區五工路 134 號
Tel:02-2299-3279 Fax:02-2298-2698

Radiated Emission Measurement

Date: 2011/6/27

Time : 下午 04:45:08



Site :966 Chamber

Polarization: **Vertical**

Temperature: 25 °C

Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Power: AC 120V/60Hz

Humidity: 60%

EUT: MobilePhone

M/N: FJ001

Mode: Adapter+Video Play+BT Link

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		3088.000	34.26	0.08	34.34	74.00	-39.66	peak	
2		3568.000	33.79	0.79	34.58	74.00	-39.42	peak	
3		7168.000	30.51	10.62	41.13	74.00	-32.87	peak	
4		7912.000	28.83	12.39	41.22	74.00	-32.78	peak	
5		10072.00	26.69	17.78	44.47	74.00	-29.53	peak	
6	*	10552.00	25.61	19.18	44.79	74.00	-29.21	peak	

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