

> **Page** of 20

FCC CERTIFICATION REPORT

Test Report No.: EM/2011/60041

Applicant: Fujitsu Toshiba Mobile Communications Limited

Address of Applicant: 1-1, Kamiodanaka 4, Nakahara, Kawasaki, 211-8588,

JAPAN

Manufacturer: Fujitsu Toshiba Mobile Communications Limited

Address of Manufacturer: 1-1, Kamiodanaka 4, Nakahara, Kawasaki, 211-8588,

JAPAN

Equipment Under Test (EUT):

Product Name: CDMA TSI11

Brand Name: N/A

Model Number: TSI11 FCC ID: YUW-TSI11 Added Model(s): N/A

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

Date of Receipt : Jun. 09, 2011

Date of Test : Jun. 09 ~ Jul. 28, 2011

Date of Issue(First): Aug. 01, 2011

Test Result: **PASS**

In the configuration tested, the EUT complied with the standards specified above.

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:	Mark Liu	Date	Aug. 01, 2011
_	Mark Liu(Engineer)	_	
Prepared By:	Kay Ke	Date	Aug. 01, 2011
-	Kay Ke(Clerk)		
Approved By	In I.	Date	Aug. 01, 2011
_	Ion Lin(Assistant Manager)		



> : 2 20 **Page** of

Version

Version No.	Description	Date
00	Original report	Aug. 01, 2011



> : 3 20 **Page** of

Contents

1. GENERAL INFORMATION	
1.1 APPLICANT & MANUFACTURER INFORMATION	4
1.2 GENERAL DESCRIPTION OF EUT	4
1.3 DETAILS OF EUT	6
1.4 OPERATION PROCEDURE	_
1.5 DESCRIPTION OF SUPPORT UNITS	6
1.6 MODIFICATION LIST	6
1.7 CABLE LIST	6
1.8 Test Set-Up Configuration	7
1.9 MEASURMENT PROCEDURE	8
1.10 STANDARDS APPLICABLE FOR TESTING	8
1.11 SUMMARY OF RESULTS	8
2. RADIO DISTURBANCE	9
2.1 Test Results	g
2.2 FREQUENCY RANGE	9
2.3 LIMITS OF CONDUCTED AND RADIATED EMISSION	g
2.3.1 LIMIT OF CONDUCTED EMISSION OF FCC PART 15, SUBPART B/CISPR 22	g
2.3.2 LIMIT OF RADIATED EMISSIONS OF FCC PART 15, SUBPART B/CISPR 22	10
2.4.Test of Conducted Emission	11
2.4.1 TEST EQUIPMENTS	11
2.4.2 TEST SITE	11
2.4.3 OPERATING ENVIRONMENT	11
2.4.4 MEASUREMENT DATA	12
2.5 TEST OF RADIATED EMISSION	16
2.5.1 TEST INSTRUMENTS	16
2.5.2 TEST SITE	16
2.5.3 OPERATING ENVIRONMENT	16
2.5.4 MEASUREMENT DATA	17
3. PHOTOGRAPHS OF TEST	21
4. PHOTOGRAPHS OF PRODUCT	28



> **Page** of 20

1. General Information

1.1 Applicant & Manufacturer Information

Applicant: Fujitsu Toshiba Mobile Communications Limited

Address of Applicant: 1-1, Kamiodanaka 4, Nakahara, Kawasaki, 211-8588, JAPAN

Manufacturer: Fujitsu Toshiba Mobile Communications Limited

Address of Manufacturer: 1-1, Kamiodanaka 4, Nakahara, Kawasaki, 211-8588.

JAPAN

1.2 General Description of EUT

Product Name: CDMA TSI11

Brand Name: N/A Model Number: TSI11 FCC ID: YUW-TSI11 Added Model(s): N/A Model Difference: N/A Filing Type: Certification

WLAN:

Wi-Fi	Frequency Range	Channel s	Rated Power	Modulation Technology	Type of Emission	
11b/g	2412-2462	11	b : 18.05dBm g : 23.43dBm DSSS, OFDM		b : 11M7G1D g : 16M4G1D	
11n	HT20 2412-2462	11	n : 23.44dBm			
Antenna Designation:		1/4 lambda , -1.7dBi				
Modulation type:			CCK, DQPSK, DBPSK for DSSS 64QAM. 16QAM, QPSK, BPSK for OFDM			
Transition Rate:			802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n 20MHz: 6.5 – 72.2Mbps			

The EUT is compliance with IEEE 802.11 b/g/n Standard.

This report applies for WLAN, and complies with FCC rule part 15C.



> : 5 20 **Page** of

Bluetooth:

Bluetooth Version:	V2.1 + EDR (GFSK + π/4DQPSK + 8DPSK)
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	0.96dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	1/4 lambda, -1.7dBi

The EUT is compliance with Bluetooth 2.1 + EDR and IEEE 802.11 b/g/n Standard. The test report compliance for Bluetooth.

GSM:

Product Name	CDMA 7	TSI11				
Brand Name(Trade Name)	N/A					
Model Name	TSI11					
Marketing name	N/A					
Operation Voltage range(V)	NV	3.9	HV	4.2	LV	3.7
Hardware Version	CS1.0					
Software Version	6002.01	02.02				
IMEI Range	35662504xxxxxx(000000~999999)					
FCC ID No.	YUW-TSI11					
GPRS/EDGE Multi-slot Class	GPRS: ☐8 ☐10 ☑12 ☐other() EDGE: ☐8 ☐10 ☐12 ☑other(No Support)					
GSM Power Class (900/1800/1900)	4/1/1					
GSM/GPRS Release Versions	R6/R6					
GSM/CDMA2000 Frequency Range						
Modulation Mode	☐GMSK☐8-PSK☐QPSK☐other()					
Earphone Jack	3.5mm					



> **Page** : 6 of **20**

Config List:

	TG03					
	1603	Config 1	Config 2	Config 3	Config 4	Config 5
	Applicable standard (FCC)			part 15B		
	Accessories	UE + Battery + AC Adaptor #1 + SHF	UE + Battery + AC Adaptor #1 + SHF	UE + Battery + AC Adaptor # 1 + SHF	UE + Battery + AC Adaptor # 1	UE + Battery + Data Cable
		Camera	Music	RFID	IR link	Data link
		GSM 1900/CDMA WLAN + BT + GPS	GSM+WLAN + BT + GPS	GSM+WLAN + BT + GPS	GSM+WLAN + BT + GPS	GSM+WLAN + BT + GPS
EN No	. Description					
8.2	radiated emission (30M-1GHz)(1-13GHz)	Charge + camera mode	Charge + play mode	Charge + RFID mode	Charge + IR mode	Data link
8.3	conducted emission (DC Power)	NA	NA	NA	NA	N/A
8.4	conducted emission (AC Power)	Charge + camera mode	Charge + play mode	Charge + RFID mode	Charge + IR mode	Data link

1.3 Details of EUT

Tested Power Supply: 3.9Vdc from re-chargeable battery

Model No.: TSI11UAA, Supplier: SANYO Electric

Modes/Function: 1. Config 1 Mode. 2. Config 2 Mode.

Worst case: 1. Config 1 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.
Communication test set	R&S	CMU 200	N/A
GPS Simulator	ADIVIC	MP9100	N/A
Wireless AP	BUFFALO	WHR-HP-G54	84074786280927
BT Audio	CREATIVE	D200	N/A

1.6 Modification List

No have the modification by SGS Taiwan Electronics & Communication Laboratory

1.7 Cable List

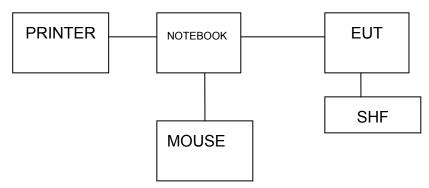
Cable Type	Length	Shield
Earphone	0.6m	Non-shielding



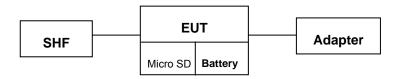
> **Page** : 7 of **20**

1.8 Test Set-Up Configuration

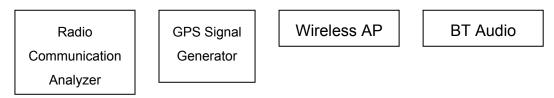
Config 5



Config 1, 2, 3, 4



(Remote side)



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> Page : 8 of 20

1.9 Measurment 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

Hightest Emission						
Standard	Test Type	Result	Phase/Polar.	Frequency (MHz)	Margin(dB)	
	Conducted Emission	PASS	Line	0.9600	-11.23(QP)	
FCC Part 15 Subpart B Class B/CISPR 22			Neutral	1.0500	-10.13(QP)	
Class B/CloFIX 22	Radiated Emission	PASS	Ver.	36.8200	-8.83(QP)	



> Page of 20

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 Upper frequency of measurement used in the device or on which the range (MHz) device operates or tunes (MHz)

> Below 1.705 30 1.705 - 1081000 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	Class A	(dBuV)	Class B (dBuV)			
(MHz)	Quasi - peak	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.



> **Page** : 10 of 20

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

FCC Limit:

Detector Function : Quasi – Peak

FREQUENCY	Class A (at 10m)	Class B (at 3m)
(MHz)	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	Class A (dB	uV) (at 3m)	Class B (dE	BuV) (at 3m)
(MHz)	Peak	Average	Peak	Average
Above 1000	79.3	59.3	73.9	53.9

CISPR Limit:

Detector Function : Quasi – Peak

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

Detector Function : Peak , Average – Class A

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

Detector Function : Peak , Average – Class B

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

Note: The lower limit applies at the transition frequency.



> Page : 11 of 20

2.4.Test of Conducted Emission

2.4.1 Test Equipments

Description	Manufacturer	Model No.	Serial No.	Last Calibration	Next Calibration
				Date	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

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

2.4.3 Operating Environment

Temperature : 24 degree C Humidity: 58 %RH

Atmospheric Pressure: 996 mBar

2.4.4 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of Conducted Emission measurement is 1.82dB.

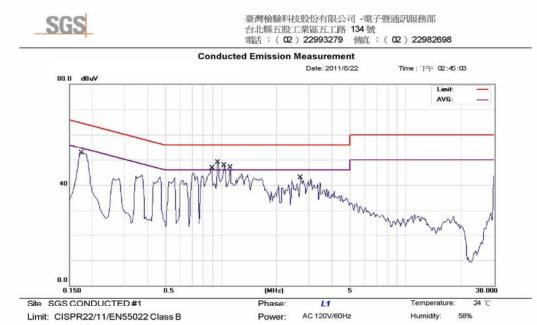


> **Page** : 12 of 20

2.4.5 Measurement Data

GSM Link & BT Link & WiFi Link Mode

L



EUT: CDMA TSI11 M/N: TSI11

Note: GSM Link & BT Link & WiFi Link mode

No. Mk	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1		0.1750	52.53	0.13	52.66	64.72	-12.06	QΡ	
2		0.8900	39.23	0.12	39.35	56.00	-16.65	QP	
3	*	0.9600	44.65	0.12	44.77	56.00	-11.23	QР	
4		1.0400	43.51	0.12	43.63	56.00	-12.37	QP	
5		1.1200	41.72	0.12	41.84	56.00	-14.16	QP	
6		2.7000	42.81	0.18	42.99	56.00	-13.01	QΡ	



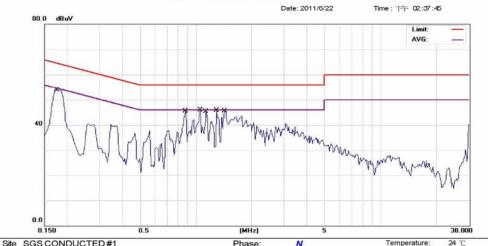
> **Page** : 13 of 20

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Conducted Emission Measurement



Limit: CISPR22/11/EN55022 Class B

Phase AC 120V/60Hz Power:

Temperature Humidity:

EUT: CDMA TSI11

M/N: TSI11

Note: GSM Link & BT Link & WiFi Link mode

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1		0.1750	53.78	0.13	53.91	64.72	-10.81	QΡ	
2		0.8800	45.28	0.13	45.41	56.00	-10.59	QP	
3	*	1.0500	45.74	0.13	45.87	56.00	-10.13	QР	
4		1.1300	45.24	0.13	45.37	56.00	-10.63	QР	
5		1.2900	45.51	0.14	45.65	56.00	-10.35	QΡ	
6		1.4200	45.46	0.14	45.60	56.00	-10.40	QР	



> **Page** : 14 of 20

USB Link Mode



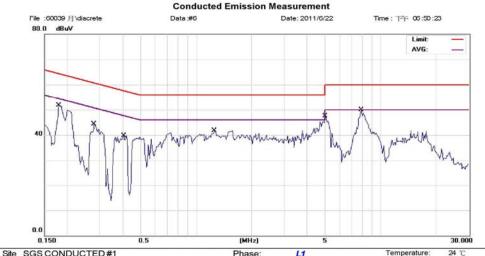
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電話: (02) 22993279 傅真: (02) 22982698

FormSystem

Humidity:

Air Pressure:



Limit: CISPR22/11/EN55022 Class B

EUT: CDMA TSI11 M/N: TSI11

Note: USB Link mode (120V)

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1	0.1800	51.48	0.13	51.61	64.49	-12.88	QP	
2	0.2800	44.16	0.12	44.28	60.82	-16.54	QΡ	
3	0.4050	39.54	0.12	39.66	57.75	-18.09	QР	
4	1.2600	41.66	0.13	41.79	56.00	-14.21	QΡ	
5	5.0200	47.26	0.22	47.48	60.00	-12.52	QP	
6 *	7.8800	49.49	0.38	49.87	60.00	-10.13	QΡ	

Power:

Distance:

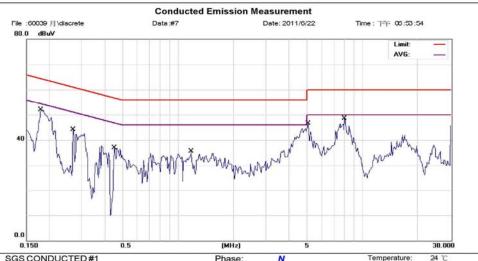


> **Page** : 15 of 20

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FormSystem

Humidity:

Air Pressure:

Site SGS CONDUCTED#1

Limit: CISPR22/11/EN55022 Class B

EUT: CDMA TSI11

M/N: TSI11

Note: USB Link mode (120V)

No. M	۱k.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dΒ	Detector	Comment
1		0.1800	51.84	0.13	51.97	64.49	-12.52	QP.	
2		0.2700	44.07	0.12	44.19	61.12	-16.93	QP	
3		0.4500	36.82	0.12	36.94	56.88	-19.94	QР	
4		1.1800	35.29	0.13	35.42	56.00	-20.58	QP	
5		5.0800	46.31	0.22	46.53	60.00	-13.47	QP	
6 *		8.0000	48.09	0.38	48.47	60.00	-11.53	QР	

Power:

Distance:



> Page : 16 of 20

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	Site NSA Chamost		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: 25 degree C Humidity: 60 %RH

Atmospheric Pressure: 996 mBar

2.5.4 Uncertainty of Radiated Emission

Expanded uncertainty (k=2) of radiated emission measurement is 3.4dB.(30MHz-1000MHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.34dB.(1-18GHz)

Expanded uncertainty (k=2) of radiated emission measurement is 5.64dB.(18-40GHz)

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> **Page** : 17 of 20

> > 1000.000 MHz

25 ℃

Temperature:

Humidity:

2.5.4 Measurement Data

Charge+Camera Mode+Adapter 1(GSM900+WLAN+BT+GPS)

H:



515.000

Polarization:

Horizontal

AC 120V/60Hz

Site :966 Chamber Limit: FCC Class B 3M Radiation

EUT: CDMA TSI11

M/N: TSI11

Mode: Charge+camera mode+Adapter 1 (GSM1900+WLAN+BT+GPS)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dΒ	Detector	Comment
1	*	40.6800	43.92	-14.19	29.73	40.00	-10.27	QР	
2		85.1000	38.94	-17.81	21.13	40.00	-18.87	QP	
3		103.4600	38.40	-16.12	22.28	43.50	-21.22	QP	
4		161.2700	31.69	-13.06	18.63	43.50	-24.87	QP	
5	- :	292.4600	32.85	-12.89	19.96	46.00	-26.04	QP	
6	;	339.6400	41.03	-11.85	29.18	46.00	-16.82	QP	

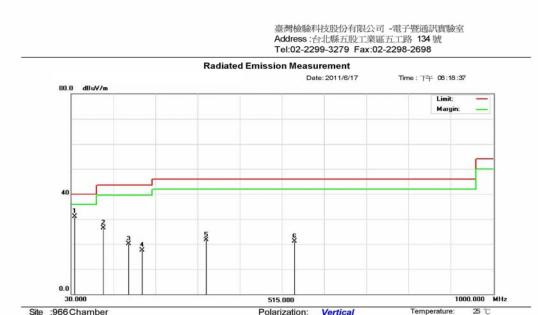
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> **Page** : 18 of 20

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Site :966 Chamber Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Temperature Humidity: 60%

EUT: CDMA TSI11

M/N: TSI11

Mode: Charge+camera mode+Adapter 1 (GSM1900+WLAN+BT+GPS)

Note:

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dΒ	dBuV/m	dBuV/m	dΒ	Detector	Comment	
1	*	36.8200	45.62	-14.45	31.17	40.00	-8.83	QР		
2		102.9400	42.71	-16.15	26.56	43.50	-16.94	QΡ		
3		160.8300	33.08	-13.02	20.06	43.50	-23.44	QΡ		
4		192.2600	32.94	-15.52	17.42	43.50	-26.08	QP		
5		339.4800	33.52	-11.85	21.67	46.00	-24.33	QΡ		
6		543.9000	27.90	-6.83	21.07	46.00	-24.93	QP		

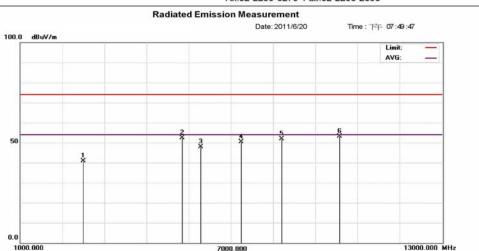


> **Page** : 19 of 20

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臺灣檢驗科技股份有限公司 -電子暨通訊實驗室 Address:台北縣五股工業區五工路 134號 Tel:02-2299-3279 Fax:02-2298-2698



Site :966 Chamber Limit: FCC Class B 3M Radiation(1G-40G)(Pea

Polarization: AC 120V/60Hz Power:

25 °C Humidity:

EUT: CDMATSI11

M/N: TSI11

Mode: Charge+camera mode+Adapter 1 (GSM1900+WLAN+BT+GPS)

Note:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV/m	dBuV/m	dΒ	Detector	Comment
1		2782.000	39.69	1.29	40.98	74.00	-33.02	peak	
2		5598.000	44.32	8.13	52.45	74.00	-21.55	peak	
3		6126.000	39.04	8.87	47.91	74.00	-26.09	peak	
4		7270.000	39.13	11.29	50.42	74.00	-23.58	peak	
5		8436.000	38.44	13.40	51.84	74.00	-22.16	peak	
6	٠	10086.00	34.39	18.64	53.03	74.00	-20.97	peak	

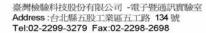
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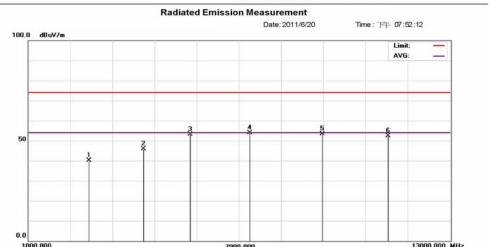
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> **Page** : 20 of 20

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Site :966 Chamber

Polarization: Vertical Temperature:

Limit: FCC Class B 3M Radiation(1G-40G)(Pea EUT: CDMATSI11

Power: AC 120V/60Hz

Humidity: 60%

M/N: TSI11

Mode: Charge+camera mode+Adapter 1 (GSM1900+WLAN+BT+GPS)

Note:

No.	Mk.	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV/m	dBuV/m	dВ	Detector	Comment
1		2728.000	38.93	1.12	40.05	74.00	-33.95	peak	
2		4278.000	41.12	4.77	45.89	74.00	-28.11	peak	
3		5598.000	44.91	8.13	53.04	74.00	-20.96	peak	
4	*	7292.000	42.50	11.34	53.84	74.00	-20.16	peak	
5		9360.000	36.92	16.50	53.42	74.00	-20.58	peak	
6		11230.00	31.66	20.84	52.50	74.00	-21.50	peak	

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