

Report No: EH/2011/60015 Issue Date: July 12, 2011

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: CDMA TSI11

Brand Name: N/A

Model No.: TSI11

Model Differences: N/A

FCC ID: YUW-TSI11

Report No.: EH/2011/60015

Issue Date: July 12, 2011

FCC Rule Part: §15.225

Fujitsu Toshiba Mobile Communications Limited

Prepared for: 1-1, Kamiodanaka 4, Nakahara, Kawasaki, 211-8588,

JAPAN

SGS Taiwan Ltd.

Prepared by: Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei

County, Taiwan





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VERIFICATION OF COMPLIANCE

Applicant: Fujitsu Toshiba Mobile Communications Limited

1-1, Kamiodanaka 4, Nakahara, Kawasaki, 211-8588, JAPAN

Equipment Under Test: CDMA TSI11

FCC ID: YUW-TSI11

Brand Name: N/A

Model No.: TSI11

Model Difference: N/A

File Number: EH/2011/60015

Date of Test: June 06, 2011 ~ July 11, 2011

Date of EUT Received: June 06, 2011

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.225

The test results of this report relate only to the tested sample identified in this report.

1.1

Test By:	Lazz Huang	Date:	July 12, 2011	
Prepared By:	Jazz Huang / Engineer	Date:	July 12, 2011	
Approved By	Celine Chou / Clerk Jim Chang	Date:	July 12, 2011	
	Jim Chang / Supervisor			

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Version

Version No.	Date	Description
00	July 12, 2011	Initial creation of document

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GENERAL INFORMATION 1

Product Description

Product Name	CDMA TSI11	
Brand Name	N/A	
Model Name	TSI11	
Model Difference	N/A	
Hardware Version:	CS1.0	
Software Version:	6002.0102.0061	
Darriag Crosselvi	3.9 Vdc re-chargeable battery	
Power Supply	Battery: Model No.: 1UF42426F-TB, Supplier: SANYO	

RFID:

Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Operating Mode	Point-to-Point
Antenna Type	Loop Antenna
Module Type	ASK

This report applies for RFID.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: <u>YUW-TSI11</u> filing to comply with Section 15.225 of the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4: 2003. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-04.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. the Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 8 and 13 of ANSI C63.4-2003.

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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range		Limits B (uV)
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

(2) Radiated Emission

- a. The field strength of any emission within the band 13.553-13.567 MHz shall not exceed 15.848 microvolts/meter at 30 meters.
- b. Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- c. Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- d.The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit).as below.

Frequency (MHz)	Field strength $\mu V/m$	Distance (m)	Field strength at 3m dBµV/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

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^{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 MHz to 0.50 MHz.



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Remark: 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205
- 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of ξ 15.205, then the general radiated emission limits in ξ 15.209 apply.

(3) Frequency Tolerance

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

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Configuration of Tested System 2.5

Fig. 2-1 Configuration of Tested System

EUT

Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	N/A					

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3 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.225 (e)	Frequency Stability	Compliant

4 Description of test modes

The EUT was tested when placed horizontally on the EUT table as on a counter, and also when placed vertically on the table as when mounted on a wall. This report shows the results from testing in the worst-case emission configuration

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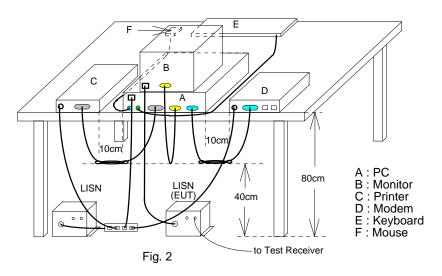
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5 Conducted Emissions Test

5.1 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- **2.** Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- **3.** Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT MFR MODEL SERIAL LAST CA					
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCS30	828985/004	09/23/2010	09/22/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	03/31/2011	03/30/2012
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/31/2011	03/30/2012
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2010	11/27/2011

5.4 Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peak.

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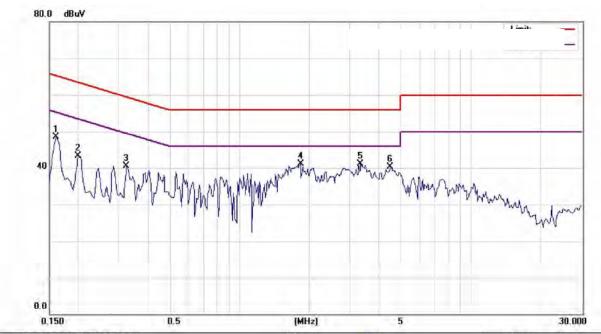


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	RFID Mode	Test Date:	July 11, 2011
		Test By:	Jazz



Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: CDMA TSI11

M/N: TSI11

Note: RFID mode

Phase:	L1	Temperature:	26 (
Power:	AC 120V/60Hz	Humidity:	59%
Dietance		Air Pressure	hna

Distance:

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment
1	0.1600	48.47	0.13	48.60	65.46	-16.86	peak	
2	0.2000	43.13	0.12	43.25	63.61	-20.36	peak	
3	0.3250	40.40	0.11	40.51	59.58	-19.07	peak	
4 *	1.8300	40.96	0.14	41.10	56.00	-14.90	peak	
5	3.3400	40.94	0.16	41.10	56.00	-14.90	peak	
6	4.4900	40.05	0.17	40.22	56.00	-15.78	peak	

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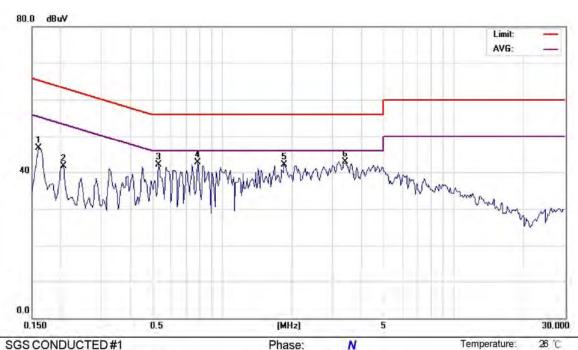
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Power:

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: CDMA TSI11

M/N: TSI11

Note: RFID mode

1 : 14	0			
Distan		Air Pressure:	hpa	

Humidity:

AC 120V/60Hz

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment
1	0.1600	46.60	0.18	46.78	65.46	-18.68	peak	
2	0.2050	41.56	0.16	41.72	63.41	-21.69	peak	
3	0.5300	41.91	0.16	42.07	56.00	-13.93	peak	
4	0.7800	42.55	0.15	42.70	56.00	-13.30	peak	
5	1.8483	41.92	0.18	42.10	56.00	-13.90	peak	
6 *	3.4000	42.69	0.20	42.89	56.00	-13.11	peak	

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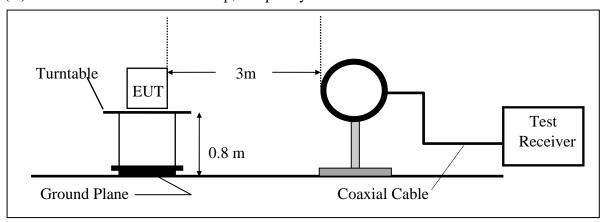
Radiated Emission Test

Measurement Procedure

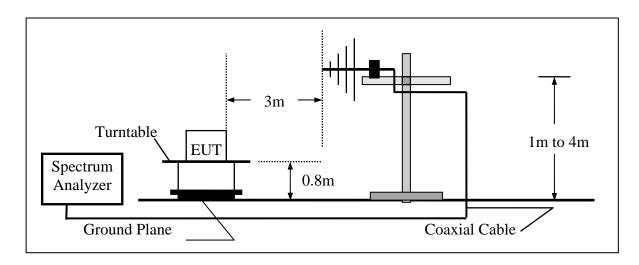
- The EUT was placed on a turn table which is 0.8m above ground plane. 1.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.

Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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Measurement Equipment Used:

	9	66 Chamber			
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2010	11/18/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	01/22/2010	01/21/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
DC Block	Agilent	BLK-18	155452	01/05/2011	01/04/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	09/06/2010	09/05/2011

6.4 **Field Strength Calculation**

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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Report No: EH/2011/60015 Issue Date: July 12, 2011

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Measurement Result

Operation Mode: July 11, 2011 Transmitting Mode Test Date:

Fundamental Frequency: 13.56 MHz Test By: Jazz Temperature: Vertical 25 °C Pol:

Humidity: 65 %

		Detector					Safe	
Freq.	Ant.Pol.	Mode	Reading	Factor	Actual FS	Limit@3m	Margin	Note
(MHz)	H/V	(PK/AV/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
13.56	V	Peak	71.73	-5.30	61.13	124.00	-62.87	F
27.12	V	Peak	58.57	-0.24	58.33	69.54	-11.21	Н
40.68	V	Peak						
54.24	V	Peak						
67.80	V	Peak						
81.36	V	Peak						
94.92	V	Peak						
108.48	V	Peak						
122.04	V	Peak						
135.60	V	Peak						
76.56	V	Peak	50.41	-17.29	33.12	40.00	-6.88	E
90.14	V	Peak	45.74	-17.62	28.12	43.50	-15.38	E
216.24	V	Peak	38.54	-15.05	23.49	46.00	-22.51	E
306.45	V	Peak	37.90	-12.87	25.03	46.00	-20.97	E
352.04	V	Peak	35.65	-11.73	23.92	46.00	-22.08	E
852.56	V	Peak	34.14	-1.95	32.19	46.00	-13.81	E

Remark:

- (1) Measuring frequencies from 25 MHz to the 1GHz •
- (2) Radiated emissions measured in frequency range from 25 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA between 25MHz to 30MHz was 10KHz; 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Report No: EH/2011/60015 Issue Date: July 12, 2011

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Operation Mode: Transmitting Mode Test Date: July 11, 2011

Fundamental Frequency: 13.56 MHz Test By: Jazz

Temperature: 25 °C Pol: Horizontal

Humidity: 65 %

		Detector					Safe	
Freq.	Ant.Pol.	Mode	Reading	Factor	Actual FS	Limit@3m	Margin	Note
(MHz)	H/V	(PK/AV/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
13.56	Н	Peak	77.98	-5.30	72.68	124.00	-51.32	F
27.12	Н	Peak	57.39	-0.23	57.16	69.54	-12.38	Н
40.68	Н	Peak						
54.24	Н	Peak						
67.80	Н	Peak						
81.36	Н	Peak						
94.92	Н	Peak						
108.48	Н	Peak						
122.04	Н	Peak						
135.60	Н	Peak						
102.75	H	Peak	45.72	-16.78	28.94	43.50	-14.56	E
202.66	H	Peak	40.42	-15.51	24.91	43.50	-18.59	E
345.25	Н	Peak	35.29	-11.90	23.39	46.00	-22.61	E
461.65	Н	Peak	32.99	-8.61	24.38	46.00	-21.62	E
604.24	Н	Peak	33.66	-5.92	27.74	46.00	-18.26	E
752.65	Н	Peak	33.27	-4.24	29.03	46.00	-16.97	E

Remark:

- (1) Measuring frequencies from 25 MHz to the 1GHz •
- (2) Radiated emissions measured in frequency range from 25 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge
- (4) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) The IF bandwidth of SPA between 25MHz to 30MHz was 10KHz; 30MHz to 1GHz was 100KHz.

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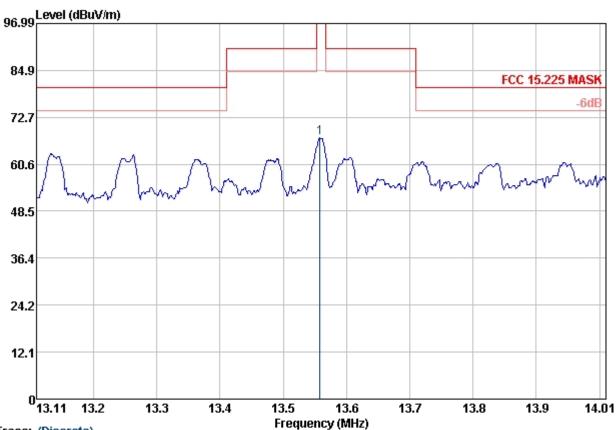


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Radiated Mask

Vertical:



Trace: (Discrete)

: FCC 15.225 MASK VERTICAL Condition

Project No. : EH/2011/60015

Fujitsu Toshiba Mobile Communications Limited

EUT Description: CDMA TSI11

EUT Model : TSI11

: e2 Plan//Tx Mode//Mask Test Mode

Temp./Humid. : 25/65 Operator : Jazz

	Freq		Antenna Factor			Level		Over Limit	Remark
-	MHz	dBu₹	dB/m	<u>d</u> B	dB/m	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	<u>d</u> B	
1 p	13.56	72.70	22.82	0.38	-5.30	67.40	124.00	-56.60	Peak

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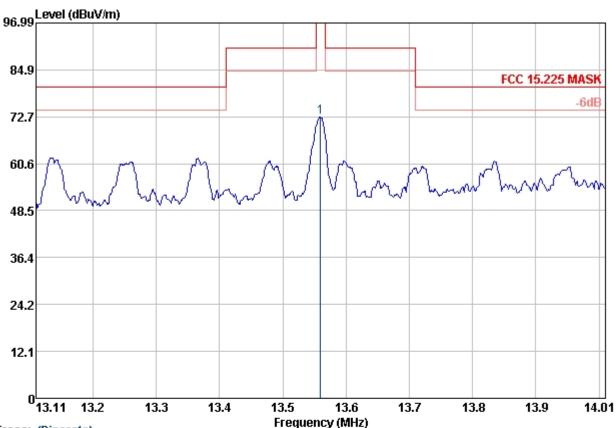
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Horizontal:



Trace: (Discrete)

: FCC 15.225 MASK HORIZONTAL Condition

Project No. : EH/2011/60015

: Fujitsu Toshiba Mobile Communications Limited

EUT Description: CDMA TSI11

EUT Model : TSI11

Test Mode : e2 Plan//Tx Mode//Mask

Temp./Humid. : 25/65 Operator : Jazz

poraci	Freq	Read	Antenna Factor			Level		Over Limit	Remark
-	MHz	dBu₹	dB/m	<u>d</u> B	dB/m	$\overline{\mathtt{dBuV/m}}$	$\overline{dBuV/m}$	<u>dB</u>	
1 p	13.56	77.98	22.82	0.38	-5.30	72.68	124.00	-51.32	Peak

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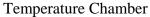
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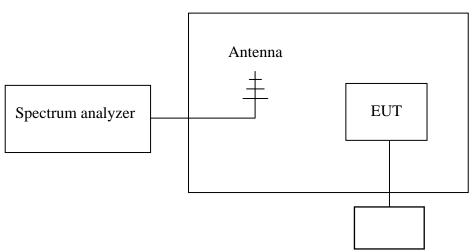
Frequency Tolerance

Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
- Set SPA Max hold. Mark peak.

7.2 **Test SET-UP (Block Diagram of Configuration)**





Variable AC Power Supply

Measurement Equipment Used:

Conducted Emission Test Site									
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012				
Temperature Chamber	TERCHY	MHG-120LF	911009	04/30/2010	04/29/2012				
AC Power Supply	APW-105N	887592	All Power	N/A	N/A				

7.4 **Measurement Results**

Refer to attached data chart.

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A. Temperature Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)	
V AC	Temperature ($^{\circ}$ C)	(MHz)	Dena (112)		
3.7	-20	13.559483	221.00	+/- 1.356	
3.7	-10	13.559575	129.00	+/- 1.356	
3.7	0	13.559588	116.00	+/- 1.356	
3.7	10	13.559658	46.00	+/- 1.356	
3.7	20	13.559704	0.00	+/- 1.356	
3.7	30	13.559691	13.00	+/- 1.356	
3.7	40	13.559573	131.00	+/- 1.356	
3.7	50	13.55949	214.00	+/- 1.356	

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Dolto (Hz)	Limit (KHz)	
V AC	Temperature ($^{\circ}$ C)	(MHz)	Delta (Hz)	Lillin (KHZ)	
4.255	20	13.559689	15.00	+/- 1.356	
3.7	20	13.559704	0.00	+/- 1.356	
3.145	20	13.559679	25.00	+/- 1.356	

~End of Report ~

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SGS Taiwan Ltd. No.134, Wu Kung Road, Vuo Kung Road, Vuo Road, V

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488