

Report No.: EI/2011/10006 Issue Date: Feb. 10, 2011

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# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

# UN-INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART B CERTIFICATION REQUIREMENT

*OF* 

**Product Name:** CDMA TS008

**Brand Name:** N/A

Model Name: TS008

**Model Different:** N/A

FCC ID: YUW-TS008

**Report No.:** EI/2011/10006

**Issue Date:** Feb. 10, 2011

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Fujitsu Toshiba Mobile Communications Limited

1-1, Kamikodanaka 4-chome, Nakahara-ku,

Kawasaki

Prepared by: SGS Taiwan Ltd.

**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, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki

**Product Name:** CDMA TS008

**Brand Name:** N/A

Model No.: TS008

**Model Difference:** N/A

FCC ID: YUW-TS008

**File Number:** EI/2011/10006

**Date of test:** Jan. 18, 2011 ~ Jan. 21, 2011

**Date of EUT Receive:** Jan. 18, 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 15B, Class B. The test results of this report relate only to the tested sample identified in this report.

Test By:	Nick Lin	Date:	Feb. 10, 2011	
_	Nick Lin / Engineer			
Prepared By:	Judy Hen	Date:	Feb. 10, 2011	
_	Judy Hsu / General Admin.			
Approved By:	Almo Hsieh	Date:	Feb. 10, 2011	
_	Arno Hsieh / Supervisor			

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# Version

Version No.	Date	Description
00	Feb. 10, 2011	Initial creation of document

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# 1. GENERAL INFORMATION

#### **General:**

Product Name	CDMA TS008		
Brand Name	N/A		
Model Name	TS008		
D C1	3.7Vdc Li-Ion battery		
Power Supply	Battery: Model No. TS006UAA, Supplier: au by KDDI		

#### CDMA:

CBITILITY							
DUT Standards And Power:	CDMA2000	Frequency Range		Maximum Rated EIRP Power			
	Cellular	TX:	824.70-848.31 MHz	26.20 dBm			
7 1114 7 0 11 011		RX:	869.70-893.31 MHz				
Type of Emission		CDMA2000 Cellular: 1M28F9W					
Hardware Version		Ver.2.0.0					
Software Version	ı	V66.10.01					
Antenna Type		PIFA Type					

**Final Amplifier Voltage and Current Information:** 

Test Mode	DC voltage (V)	DC current (mA)	
CDMA2000 Cellular	3.7Vdc	730	

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# **Bluetooth:**

Bluetooth Version:	$V2.1 + EDR (GFSK + \pi/4DQPSK + 8DPSK)$
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	1.83 dBm (Peak)
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	1/4 lambda monopole Antenna: -0.41dBi.

The EUT is compliance with Bluetooth 2.1 + EDR Standard. This report applies for Bluetooth

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# 1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID:** <u>YUW-TS008</u> filing to comply with Part15 Subpart B, class B of the FCC CFR 47 Rules.

# 1.3 Test Methodology

Both conducted and radiated testing was 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-4.

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 EUT was operated in the normal continuous transmitting.

#### 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 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 placed on a 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 of ANSI C63.4-2003.

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#### 2.4 Limitation

# (1) Conducted Emission

According to section 15.107(a), Conducted Emission Class B Limits is as following.

Frequency range	s B 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

According to section 15.109(a), Radiated Emission Class B Limits is as following:

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

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 3 meters.

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<sup>1.</sup> The lower limit shall apply at the transition frequencies

<sup>2.</sup> The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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# 2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (config 1, 3)

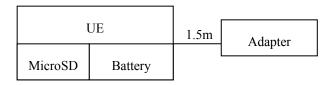


Fig. 2-2 Configuration of Tested System (config 2, 4)

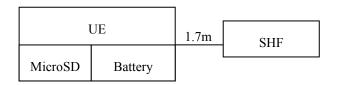
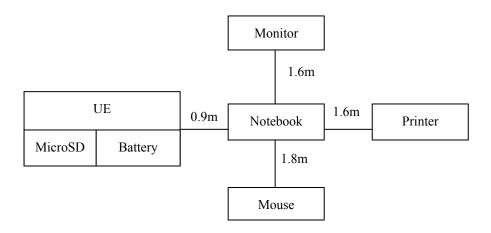


Fig. 2-3 Configuration of Tested System (config 5)



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Fig. 2-4 Configuration of Tested System (Remote Side)

Radio Communication Analyzer

Notebook

Table 2-1 Support Equipment Used in Tested System

	Table 2-1 Support Equipment Oscu in Tested System								
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	FCC ID	Data Cable	Power Cord		
1.	Notebook	IBM	T60	L3A9050	DoC	N/A	1.6m Un-shielded		
2.	Radio Communication Analyzer	R&S	CMU200	102189	N/A	N/A	N/A		
3.	Monitor	HP	HSTND-2F02	CND7122S7	DoC	1.6 Un-shielded	Un-shielded		
4.	Mouse	Microsoft	1113	N/A	N/A	1.8m Un-shielded	N/A		
5.	Printer	НР	DJ640C	TH12QE110Y	N/A	1.6m, Un-Shielded	Un-shielded		
6.	Micro SD	SanDisk	2G	N/A	N/A	N/A	N/A		
7.	Adaptor	AU by KDDI	HS-YHA	N/A	N/A	N/A	Un-shielded		
8.	SHF	Hoshiden	HDH0669-010221 (Earphone)	N/A	N/A	0.55m, Un-shielded	N/A		

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# 3. Summary of Test Results

FCC Rules	<b>Description Of Test</b>	Result	
§15.107	Conducted Emission Class B	Compliant	
§15.109	Radiated Emission Class B	Compliant	

# 4. Description of test modes

The EUT was stayed in normal operation mode.

The data cable was connected to notebook PC and data transferred by program.

Test Plan:

KD59	Config 1	Config 2	Config 3	Config 4	Config 5	
Applicable standard (FCC)		Part 15B				
Accessories	UE	UE	UE	UE	UE	
	+ Battery	+ Battery	+ Battery	+ Battery	+ Battery	
	+AC	+ SHF	+AC Adaptor	+ SHF	+Data Cable	
	Adaptor					
Description	Full function			Data link		
	CDMA+BT	CDMA+BT	CDMA+BT	CDMA+BT	Data link	
	+Camera	+Camera	+Music	+Music	Data IIIK	
radiated emission		Full function		Full function	Data link	
1	(REC mode)	(REC mode)	(Play mode)	(Play mode)		
conducted emission (DC Power)	NA	NA	NA	NA	N/A	
conducted emission (AC Power)	Full function (REC mode)	NA	Full function (Play mode)	NA	Data link	

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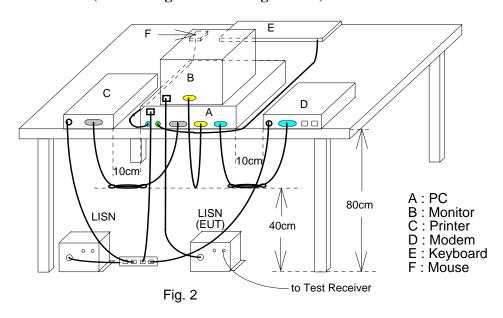
Page: 13 of 53

# 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)



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# **Measurement Equipment Used:**

	Cor	nducted Emission T	est Site			
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
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	02/02/2010	02/01/2011	
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011	
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-peaked.

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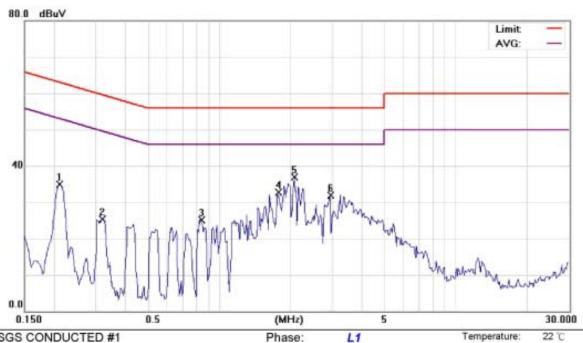


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# AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Jan. 19, 2011
		Test By:	Nick



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: CDMA TS008

M/N: TS008

Note: Full function (REC mode)\_config1

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2100	34.70	0.12	34.82	63.21	-28.39	peak	
2	0.3200	25.28	0.12	25.40	59.71	-34.31	peak	
3	0.8400	25.07	0.12	25.19	56.00	-30.81	peak	
4	1.7800	32.54	0.15	32.69	56.00	-23.31	peak	
5 *	2.0800	36.83	0.16	36.99	56.00	-19.01	peak	
6	2.9500	31.78	0.18	31.96	56.00	-24.04	peak	

Power:

Distance:

AC 120V/60Hz

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Humidity:

Air Pressure:

hpa



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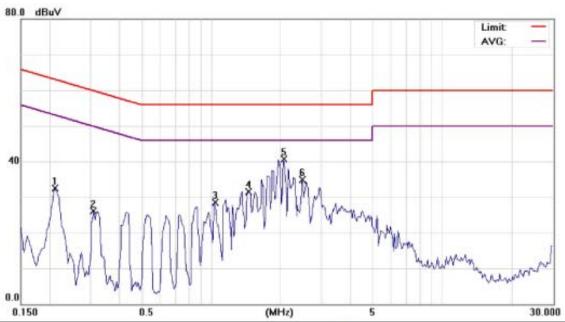
Page: 16 of 53

Temperature:

Air Pressure:

hpa

Humidity:



Phase:

Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: CDMA TS008

M/N: TS008

Note: Full function (REC mode)\_config1

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2100	32.29	0.13	32.42	63.21	-30.79	peak	
2	0.3100	25.99	0.12	26.11	59.97	-33.86	peak	
3	1.0400	28.30	0.13	28.43	56.00	-27.57	peak	
4	1.4500	31.41	0.14	31.55	56.00	-24.45	peak	
5 *	2.0600	40.64	0.16	40.80	56.00	-15.20	peak	
6	2.4800	34.78	0.17	34.95	56.00	-21.05	peak	

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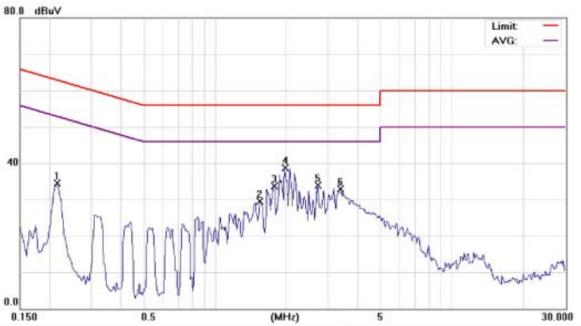


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# AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Jan. 19, 2011
		Test By:	Nick



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: CDMA TS008

M/N: TS008

Note: Full function (Play mode)\_config3

riidse.	LI	remperature.	66 6
Power:	AC 120V/60Hz	Humidity: 5	7 %
Distance:		Air Pressure:	hpa

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2150	34.34	0.12	34.46	63.01	-28.55	peak	
2	1.5500	29.44	0.14	29.58	56.00	-26.42	peak	
3	1.7800	33.58	0.15	33.73	56.00	-22.27	peak	
4 *	1.9700	38.62	0.16	38.78	56.00	-17.22	peak	
5	2.7100	33.82	0.17	33.99	56.00	-22.01	peak	
6	3.3800	32.69	0.19	32.88	56.00	-23.12	peak	

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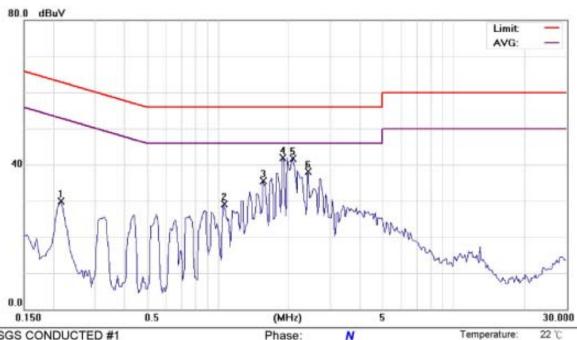
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Humidity:

Air Pressure

hpa



AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: CDMA TS008

M/N: TS008

Note: Full function (Play mode)\_config3

No. Mk	c. Fre	q.	Reading Level	Factor	Measure- ment	Limit	Over		
	MH	z	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.215	50	29.72	0.13	29.85	63.01	-33.16	peak	
2	1.060	00	29.01	0.13	29.14	56.00	-26.86	peak	
3	1.560	00	35.39	0.15	35.54	56.00	-20.46	peak	
4 .	1.880	00	41.76	0.16	41.92	56.00	-14.08	peak	
5	2.070	00	41.63	0.16	41.79	56.00	-14.21	peak	
6	2.400	00	38.03	0.17	38.20	56.00	-17.80	peak	

Power:

Distance:

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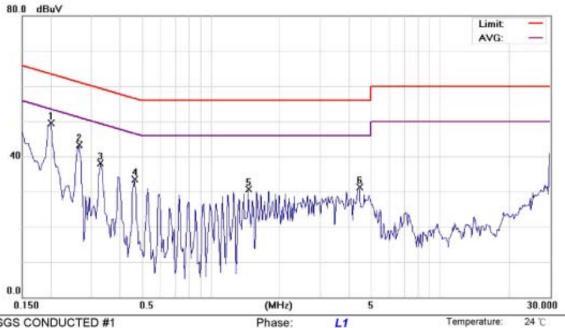
Humidity:

Air Pressure:

hpa

# AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 5	Test Date:	Jan. 19, 2011
		Test By:	Nick



AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: CISPR22/11/EN55022 Class B (QP)

EUT: CDMA TS008

M/N: TS008

Note: Data link \_config5

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	•	0.2000	49.39	0.08	49.47	63.61	-14.14	peak	
2	9	0.2650	43.32	0.07	43.39	61.27	-17.88	peak	
3		0.3300	37.95	0.07	38.02	59.45	-21.43	peak	
4		0.4650	33.41	0.06	33.47	56.60	-23.13	peak	
5		1.4600	30.60	0.07	30.67	56.00	-25.33	peak	
6	i i	4.4400	31.23	0.09	31.32	56.00	-24.68	peak	

Power:

Distance:

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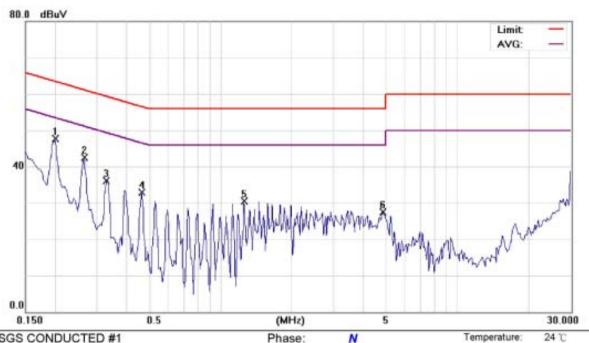
Page: 20 of 53

Humidity:

Air Pressure

59 %

hpa



AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: CDMA TS008

M/N: TS008

Note: Data link \_config5

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	•	0.2000	47.64	0.08	47.72	63.61	-15.89	peak	
2		0.2650	42.36	0.07	42.43	61.27	-18.84	peak	
3		0.3300	36.10	0.07	36.17	59.45	-23.28	peak	
4		0.4650	32.94	0.06	33.00	56.60	-23.60	peak	
5		1.2600	30.50	0.07	30.57	56.00	-25.43	peak	
6		4.8400	27.49	0.10	27.59	56.00	-28.41	peak	

Power:

Distance:

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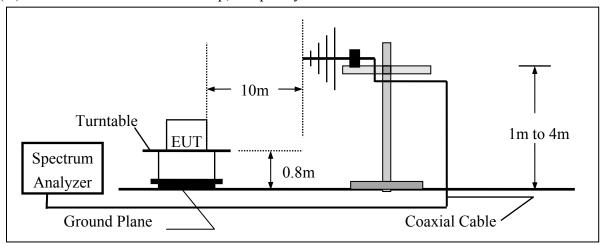
# 6. Radiated Emission Test

# **6.1** Measurement Procedure

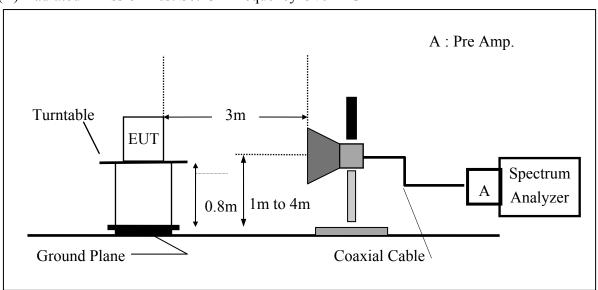
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat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

# **6.2** Test SET-UP (Block Diagram of Configuration)

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



# (B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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# 6.3 Measurement Equipment Used:

	10m Open Area Test Site											
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.							
TYPE		NUMBER	NUMBER	CAL.								
EMI Test Receiver	R&S	ESCI	100335	02/05/2010	02/04/2011							
RF-Amplifier	Agilent	8447D	2944A09469	11/27/2010	11/26/2011							
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	04/21/2010	04/20/2011							
Turn Table	HD	DT420	420/542	N/A	N/A							
Antenna Master	HD	MA 240	240/515	N/A	N/A							
Controller	HD	HD 100	100/589	N/A	N/A							
Low Loss Cable	N/A	OS RE Cable	N/A	11/30/2010	11/29/2011							

	966 Chamber											
<b>EQUIPMENT</b>	MFR	MODEL	SERIAL	LAST	CAL DUE.							
TYPE		NUMBER	NUMBER	CAL.								
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2010	02/11/2011							
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2010	11/18/2011							
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2009	03/08/2011							
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	07/05/2010	07/04/2011							
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							

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# 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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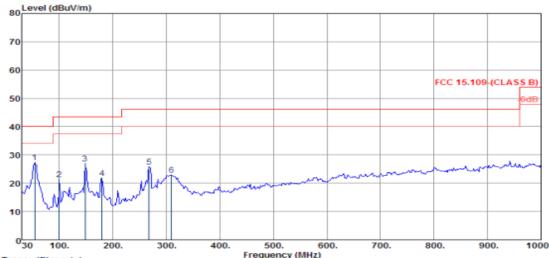
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# 6.5 Measurement Result (below 1G)

Config 1 Test Date: Jan. 20, 2011 Test Mode:

Frequency Range: 30MHz-1GHz Test By: Nick



Trace: (Discrete)

966 Chamber Site

: FCC 15.109-(CLASS B) VULB9168(20M~2G) VERTICAL Condition

: EI-2011-C10006 Project No. Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008 EUT Model TS008

Test Mode : Full function (REC mode) \_config1

Temp./Humid. : 22/58 : Jimmy Operator

	Freq			Preamp Factor				Limit Line		
	 MHz	dBu¥	dB/m	dB	dB	dB/m	āBū₹/m	dBu∀/m	dB	
1 2 3 4 5 6	99.84 148.34 180.35	38.20 39.30 36.22 39.12	10.15 14.03 11.68 12.03	27.84 27.57 27.34 27.16 26.76 26.78	0.72 0.95 1.10 1.43	-16.70 -12.36 -14.38 -13.30	26.94 21.84 25.82	43.52 43.52 43.52 46.02	-22.02 -16.58 -21.68 -20.20	QP QP QP QP

#### Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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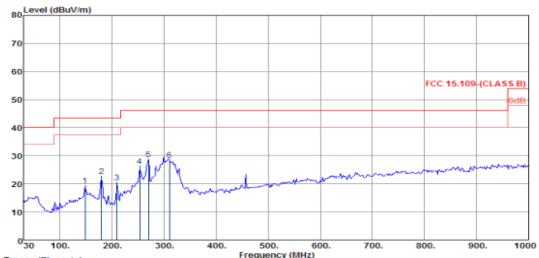


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Test Mode: Config 1 Test Date: Jan. 20, 2011

Frequency Range: 30MHz-1GHz Test By: Nick



Trace: (Discrete) Site

: 966 Chamber

Condition : FCC 15.109-(CLASS B) VULB9168(20M~2G) HORIZONTAL

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008 EUT Model : TS008

Test Mode : Full function (REC mode) \_config1

Temp./Humid. : 22/58 Operator : Jimmy

ReadAntenna Preamp Level Factor Factor Limit Line Cable Over Loss Factor Limit Remark Level dB/m dB/m dBuV/m dBuV/m MHz dBu∀ ₫B dΒ ₫Ē 31.82 37.10 36.17 40.02 41.85 0.95 -12.36 1.10 -14.38 1.23 -15.71 1.32 -13.80 1.43 -13.17 1.48 -12.22 27.34 27.16 27.01 26.77 26.75 26.79 19.46 22.72 20.46 26.22 28.68 28.54 43.52 43.52 43.52 46.02 46.02 46.02 -24.06 QP -20.80 QP -23.06 QP -19.80 QP -17.34 QP -17.48 QP 1 2 3 4 5 11.68 10.07 11.65 12.15 13.09 180.35 209.45 253.10 270.56

# Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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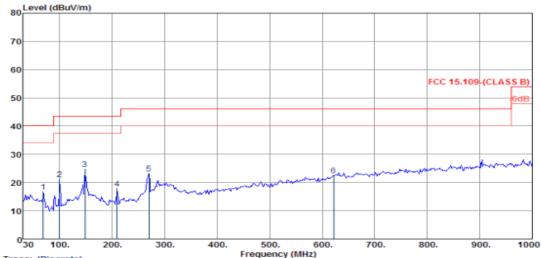


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Test Mode: Config 2 Test Date: Jan. 20, 2011

Frequency Range: 30MHz-1GHz Test By: Nick



Trace: (Discrete) Site

966 Chamber

Condition FCC 15.109-(CLASS B) VULB9168(20M~2G) VERTICAL

Project No. EI-2011-C10006 Applicant Fujitsu Toshiba

Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode Full function (REC mode) \_config2

Temp./Humid. 22/58 Operator

perato		. 3 TIMIN	Y							
	Freq			Preamp Factor						
	MHz	dBuÿ	dB/m	dB	dB	dB/m	āBū₹/m	dBu∀/m	dB	
1 2 3 q 4 5	99.84 148.34 209.45 270.56	37.09 33.46 36.38	10.15 14.03 10.07 12.15	27.01	0.72 0.95 1.23 1.43	-12.36 -15.71 -13.17	21.24 24.73 17.75 23.21	43.52 43.52 43.52 46.02	-22.28 -18.79 -25.77 -22.81	QP QP QP QP

#### Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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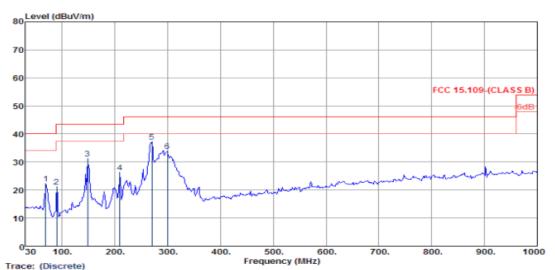


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Test Mode: Config 2 Test Date: Jan. 20, 2011

Test By: Nick Frequency Range: 30MHz-1GHz



Site 966 Chamber

: FCC 15.109-(CLASS B) VULB9168(20M~2G) HORIZONTAL Condition

: EI-2011-C10006 Project No. Applicant Fujitsu Toshiba

Mobile Communications Limited

EUT Description: CDMA TS008 TS008 EUT Model

Test Mode : Full function (REC mode) \_config2

Temp./Humid. : 22/58

pera	ator		Jimm	V							
			Read	Antenna	Preamp	Cable			Limit	0ver	
	Fre	eq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark
		Hz -	dBu∀	dB/m	−−−−dB	dB	dB/m	āBūV∕m	dBu∀/m	dB	
1 2 3		14	38.60 38.64 43.50	9.44	27.75 27.64	0.72	-17.48	21.16		-22.36	QP
5 6	209.4 270.5	45 56	41.98 50.36	10.07 12.15	27.34 27.01 26.75 26.73	1.23	-15.71 -13.17	26.27 37.19	46.02	-17.25 -8.83	QP QP

# Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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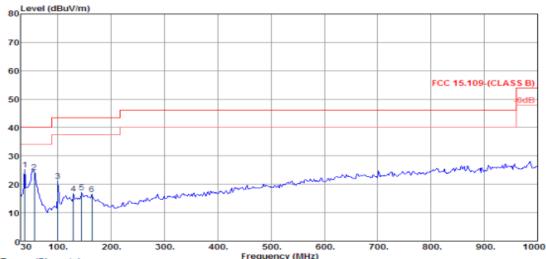


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Test Mode: Config 3 Test Date: Jan. 20, 2011

Frequency Range: 30MHz-1GHz Test By: Nick



Trace: (Discrete)

Site 966 Chamber

Condition FCC 15.109-(CLASS B) VULB9168(20M~2G) VERTICAL

Project No. : EI-2011-C10006 Applicant Fujitsu Toshiba

Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode : Full function (Play mode) \_config3

Temp./Humid. 22/58 Operator 11 mmv

	COI	. 31	y							
		Read	Antenna	Preamp	Cable			Limit	0ver	
	Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	−−dBu¥	dB/m	dB	dB	dB/m	āBūV∕m	dBu∀/m	āB	
3	56.19 99.84	38.44 37.77 30.68	13.73 13.07 10.15 12.68 13.77	27.84 27.57 27.48	0.55 0.72 0.83	-14.22 -16.70 -13.97	24.22 21.07 16.71	40.00 40.00 43.52 43.52 43.52	-15.78 -22.45 -26.81	QP QP QP
5	163.86	28.85	13.76	27.21	1.10	-12.35	16.50	43.52	-27.02	úΡ

#### Remark:

123456

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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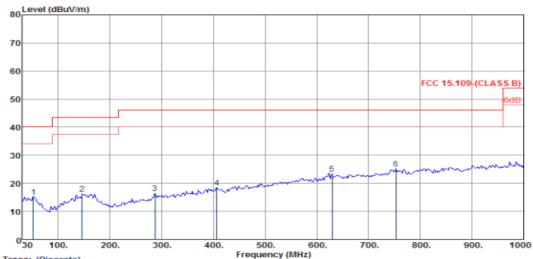


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Test Mode: Config 3 Test Date: Jan. 20, 2011

Test By: Nick Frequency Range: 30MHz-1GHz



Trace: (Discrete)

966 Chamber Site

Condition FCC 15.109-(CLASS B) VULB9168(20M~2G) HORIZONTAL

: EI-2011-C10006 Project No. Applicant Fujitsu Toshiba

Mobile Communications Limited EUT Description: CDMA TS008

EUT Model TS008

Test Mode Full function (Play mode) \_config3

Temp./Humid. : 22/58

Jpera	ator		: J1mmy	/							
			Read	Antenna	Preamp	Cable			Limit	0ver	
		Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark
		MHz	dBu¥	dB/m	dB	dB	dB/m	āBū₹/m	dBu∀/m	dB	
1 2 3 4 5	1 2 4 6	06.36 29.46	29.30 29.17 29.80	13.90 12.54 14.89	27.36 26.74 27.45 27.44	0.95 1.43 1.78 2.18	-12.51 -12.77 -10.78 -6.41	15.26 16.34 16.53 18.39 23.39 25.10	43.52 46.02 46.02 46.02	-27.18 -29.49 -27.63 -22.63	QP QP QP QP

# Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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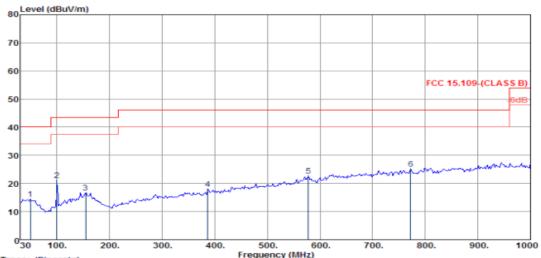


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Test Mode: Config 4 Test Date: Jan. 20, 2011

Frequency Range: 30MHz-1GHz Test By: Nick



Trace: (Discrete)

Site 966 Chamber

Condition FCC 15.109-(CLASS B) VULB9168(20M~2G) VERTICAL

Project No. EI-2011-C10006 Applicant Fujitsu Toshiba

Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode Full function (Play mode) \_config4

Temp./Humid. 22/58 Operator : Jimmy

	Freq			Preamp Factor						
	MHz	dBuÿ	dB/m	dB	dB	dB/m	āBū⊽/m	dBu∀/m	dB	
123456	99.84 154.16 386.96 578.05	37.88 28.84 29.17 30.24	10.15 14.15 14.51 17.89	27.28 27.32 27.57	0.72 0.95 1.74 2.13	-12.18 -11.07 -7.55	21.18 16.66 18.10 22.69	43.52 43.52 46.02 46.02	-22.34 -26.86 -27.92 -23.33	QP QP QP QP

#### Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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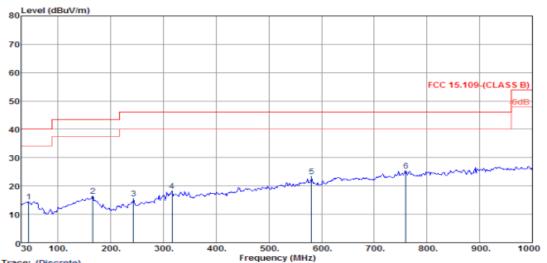


Report No.: EI/2011/10006 Issue Date: Feb. 10, 2011

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Test Mode: Config 4 Test Date: Jan. 20, 2011

Frequency Range: 30MHz-1GHz Test By: Nick



Trace: (Discrete) Site

: 966 Chamber

Condition : FCC 15.109-(CLASS B) VULB9168(20M~2G) HORIZONTAL

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008 EUT Model : TS008

Test Mode : Full function (Play mode) \_config4

Temp./Humid. : 22/58 Operator : Jimmy

pera	ator	: Jimm	V							
	Frea			Preamp Factor					Over	Remark
	1104	20101	i accor	1 4000	L033	1 000001	LCVCI	21110		TICII CITA
	MHz	dBu∀	dB/m	−−−−dB	d₿	dB/m	dBūV/m	dBūV/m	dB	
1	44.55	28 06	13 82	27.82	0.38	-13.62	14 44	40 nn	-25 56	ΩP
2 3	165.80	29.10	13.56	27.20	1.10	-12.54	16.56	43.52	-26.96	QP
3	243.40	29.58	11.50	26.81	1.32	-13.99	15.59	46.02	-30.43	QP
4	316.15	30.21	13.24	26.82	1.53	-12.05	18.16	46.02	-27.86	QP
4 5	580.96	30.76	17.93	27.56	2.17	-7.46	23.30	46.02	-22.72	QP .
6 0	759 44					-4 22				

# Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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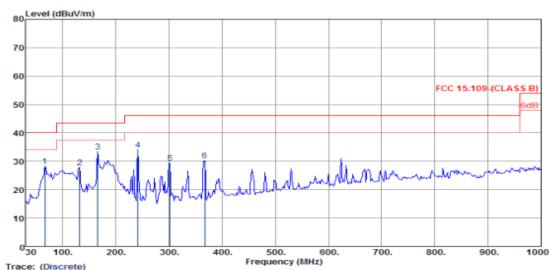


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Test Mode: Config 5 Test Date: Jan. 20, 2011

Frequency Range: 30MHz-1GHz Test By: Nick



Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) VULB9168(20M~2G) VERTICAL

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model : TS008

Test Mode : Data link \_config5 Temp./Humid. : 22/58

Temp./Humid. : 22/58 Operator : Jimmy

ReadAntenna Preamp Cable 0ver Limit Freq Level Factor Factor Loss Factor Level Limit Remark MHz dBu¥ dB/m dB/m dBuV/m dBuV/m ₫B ₫B ₫B 44.19 41.59 45.86 48.24 41.80 41.57 -16.00 -13.72 -12.54 -14.03 -12.41 -11.31 11.21 12.79 13.56 11.47 12.85 14.20 27.76 27.46 27.20 26.82 26.74 27.15 28.19 27.87 33.32 34.21 29.39 30.26 40.00 -11.81 43.52 -15.65 43.52 -10.20 46.02 -11.81 46.02 -16.63 46.02 -15.76 66.86 0.55 0.95 123456 131.85 QP QP 1.10 241.461.32

#### Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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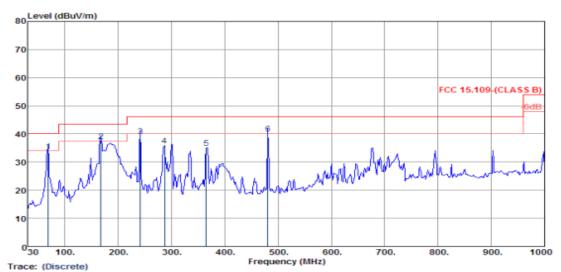


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Test Mode: Config 5 Test Date: Jan. 20, 2011

Test By: Nick Frequency Range: 30MHz-1GHz



Site 966 Chamber

FCC 15.109-(CLASS B) VULB9168(20M~2G) HORIZONTAL Condition

Project No. : EI-2011-C10006 Fujitsu Toshiba Applicant

Mobile Communications Limited

CDMA TS008 EUT Description: TS008 EUT Model

Test Mode : Data link \_config5

Temp./Humid. : 22/58

Op

pera	ator		: Jimmy	/							
		Frea			Preamp Factor					Over Limit	Remark
		MHz			dB		dB/m			dB	
1 2 3 4 5 6	16 24 28 36	11.46 37.05 34.65	53.15 48.73 46.47	10.82 13.37 11.47 12.54 14.12	27.75 27.20 26.82 26.74 27.14 27.61	0.55 1.10 1.32 1.43 1.64	-14.03 -12.77 -11.38	37.46 39.12 35.96 35.09	43.52 46.02 46.02 46.02	-6.06 -6.90 -10.06 -10.93	QP QP QP QP

# Remark:

- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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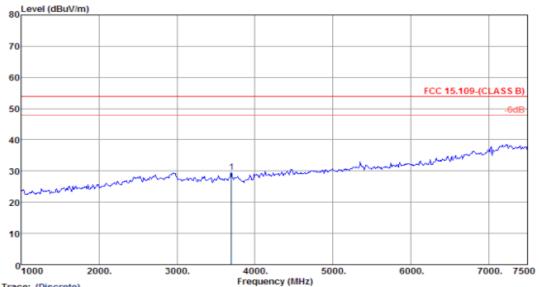


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Test Mode: Config 1 Jan. 20, 2011 Test Date:

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

: 966 Chamber Site

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

: Full function (REC mode) \_config1 Test Mode

Temp./Humid. : 22/58 Operator Jimmv

ReadAntenna Preamp Cable Limit Over Freq Level Factor Factor Loss Factor Level Limit Remark Line dB/m dBuV/m dBuV/m ďΒ MHz dBu∀ dB/m ₫B ₫B

1 p 3697.50 27.87 28.98 33.22 1.71 29.58 54.00 -24.42 Peak 5.95

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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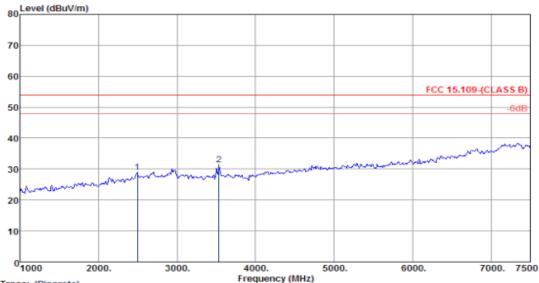


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Test Mode: Config 1 Test Date: Jan. 20, 2011

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model : TS008

Test Mode : Full function (REC mode) \_config1

Temp./Humid. : 22/58 Operator : Jimmy

ReadAntenna Preamp Cable Limit 0ver Freq Level Factor Factor Loss Factor Level Limit Remark dB/m dB/m dBuV/m dBuV/m ďΒ MHz dBu¥ ₫B ₫B 29.18 30.37 32.53 33.43 4.80 -0.15 1.00 29.03 54.00 -24.97 Peak 31.37 54.00 -22.63 Peak 5.85

#### Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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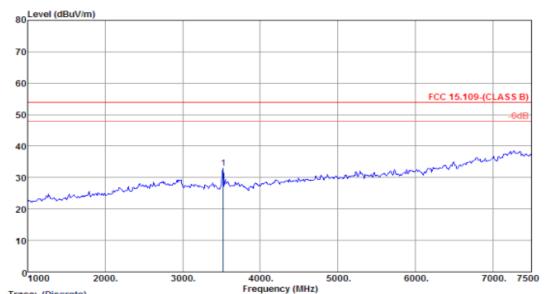


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Test Mode: Config 2 Jan. 20, 2011 Test Date:

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

: 966 Chamber Site

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-C10006 : Fujitsu Toshiba Applicant

Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode : Full function (Play mode) \_config2

Temp./Humid. 22/58 Operator 0 Jimmy

> ReadAntenna Preamp Cable Limit Over

Freq Level Factor Factor Loss Factor Limit Remark Level Line dBu∀ MHz dB/m ₫B ₫B dB/m dBuV/m dBuV/m ₫B

0.96 32.97 54.00 -21.03 Peak 1 p 3522.00 32.01 28.54 33.43 5.85

# Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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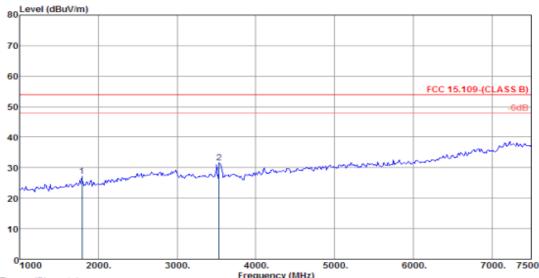


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Test Mode: Config 2 Test Date: Jan. 20, 2011

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model : TS008

Test Mode : Full function (Play mode) \_config2

Temp./Humid. : 22/58 Operator : Jimmy

ReadÄntenna Preamb Cable Limit Over Freq Level Factor Factor Loss Factor Level Line Limit Remark

MHz dBu∀ dB/m ₫B ₫Ē dB/m dBuV/m dBuV/m dΒ 30.54 30.54 25.49 28.58 27.13 31.54 54.00 -26.87 Peak 54.00 -22.46 Peak 1793.00 32.92 4.02 -3.41 33.43 3535.00 5.85 1.00

### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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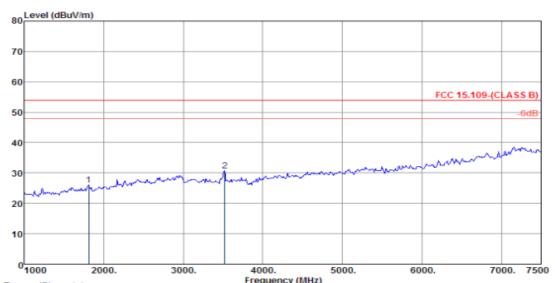


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Test Mode: Config 3 Test Date: Jan. 20, 2011

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008 EUT Model : TS008

Test Mode : Full function (REC mode) \_config3

Temp./Humid. : 22/58 Operator : Jimmy

ReadAntenna Preamp Cable Limit 0ver Freq Level Factor Factor Loss Factor Level Limit Remark dB/m ₫B dB/m dBuV/m dBuV/m ₫B -3.24 0.96 26.06 30.75 54.00 -27.94 Peak 54.00 -23.25 Peak 1812.50 3522.00 29.30 29.79 25.53 28.54 32.86 33.43 4.09 5.85

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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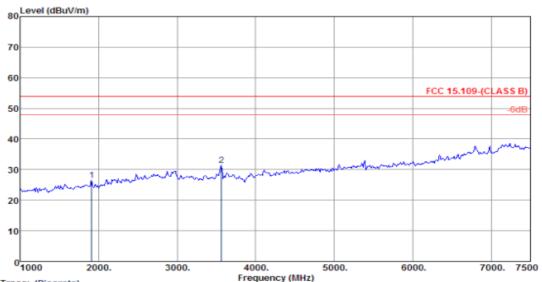


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Test Mode: Config 3 Jan. 20, 2011 Test Date:

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

966 Chamber Site

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-C10006 : Fujitsu Toshiba Applicant

Mobile Communications Limited

EUT Description: CDMA TS008 EUT Model : TS008

Test Mode : Full function (REC mode) \_config3

Temp./Humid. : 22/58 Operator Jimmy

ReadAntenna Preamp Cable Limit 0ver Level Factor Factor Loss Factor Level Limit Remark MHz dBu₹ dB/m ₫B dΒ dB/m dBuV/m dBuV/m ďΒ 29.67 30.16 26.57 31.32 54.00 -27.43 Peak 54.00 -22.68 Peak 1910.00 25.72 32.96 4.14 -3.10 28.66 33.37 5.87 3567.50

### Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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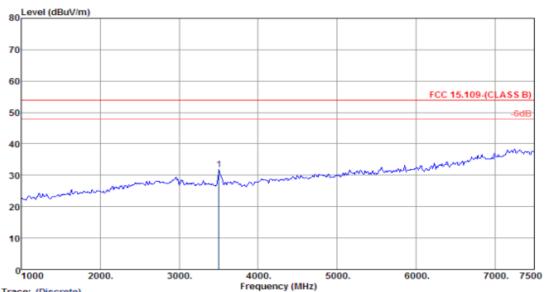


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Test Mode: Config 4 Jan. 20, 2011 Test Date:

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

966 Chamber Site

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-C10006 : Fujitsu Toshiba Applicant

Mobile Communications Limited

EUT Description: CDMA TS008 EUT Model : TS008

Test Mode : Full function (Play mode) \_config4

Temp./Humid. : 22/58 Operator Jimmy

ReadAntenna Preamp Cable Limit Over Freq Level Factor Factor Loss Factor Level Limit Remark Line MHz dBu∀ dB/m ₫B ₫Ē dB/m dBuV/m dBuV/m dB 1 p 3502.50 30.95 28.50 33.47 0.87 31.82 54.00 -22.18 Peak 5.84

Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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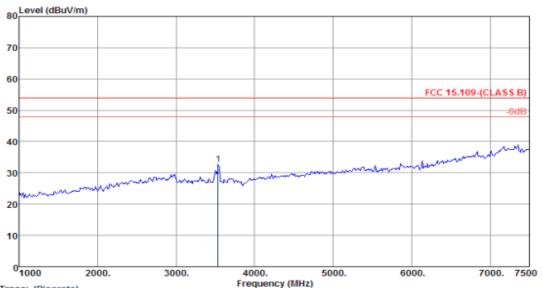


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Test Mode: Config 4 Jan. 20, 2011 Test Date:

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

: EI-2011-C10006 Project No. Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model : TS008

Test Mode : Full function (Play mode) \_config4

Temp./Humid. : 22/58

Operator : Jimmy

ReadAntenna Preamp Cable Loss Factor Freq Level Factor Factor Level Limit Remark dBu¥ dB/m dΒ dB/m dBuV/m dBuV/m

3535.00 31.67 28.58 33.43 5.85 1.00 32.67 54.00 -21.33 Peak

#### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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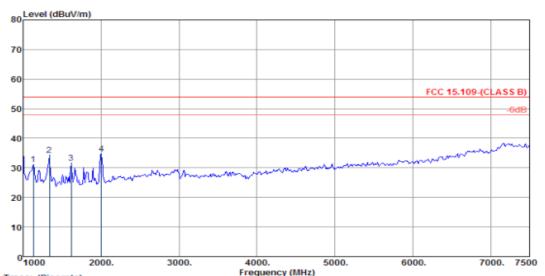


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Test Mode: Config 5 Test Date: Jan. 20, 2011

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

Site 966 Chamber

Condition FCC 15.109-(CLASS B) BBHA9120D VERTICAL

: EI-2011-C10006 Project No. Applicant Fujitsu Toshiba

Mobile Communications Limited

EUT Description: CDMA TS008 EUT Model TS008

Test Mode : Data link \_config5

Temp./Humid. : 22/58

peraci	OI-	. J TIMIN	y							
		Read	Antenna	Preamp	Cable			Limit	0ver	
	Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu¥	dB/m	dB	dB	dB/m	āBūV∕m	dBūV/m	āB	
2	1130.00 1338.00 1617.50 2007.50	39.14 35.58	24.70 25.13	32.91 32.91	3.43 3.82	-5.70 -4.78 -3.96 -2.97	34.36 31.62	54.00 54.00	-19.64 -22.38	Peak Peak

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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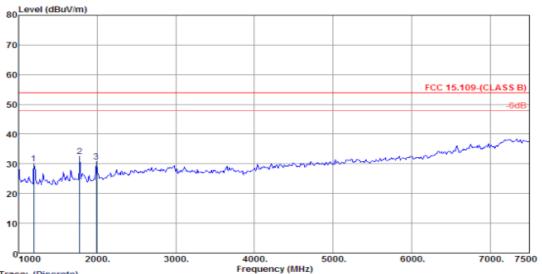


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Test Mode: Config 5 Test Date: Jan. 20, 2011

Frequency Range: 1GHz – 7.5GHz Test By: Nick



Trace: (Discrete)

: 966 Chamber Site

FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL Condition

: EI-2011-C10006 Project No. Applicant : Fujitsu Toshiba

Mobile Communications Limited

EUT Description: CDMA TS008 EUT Model TS008

: Test Mode : Data link \_config5

Temp./Humid. : 22/58

0pe

perato	r	: Jimmy	<b>/</b>							
				Preamp						_
	Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBu₹	dB/m	dB	dB	dB/m	āBūV∕m	dBu∀/m	dB	
2 p	1195.00 1780.00 1988.00	35.87	25.46	32.92	4.02	-3.44	32.43	54.00	-21.57	Peak

### Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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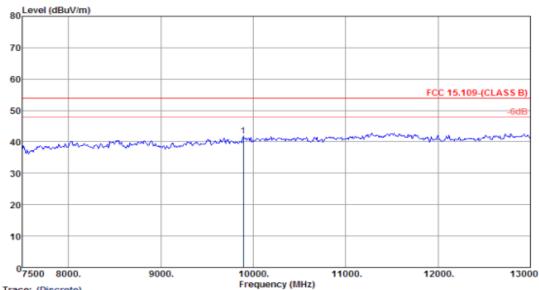


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Test Mode: Jan. 20, 2011 Config 1 Test Date:

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-C10006

Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model : TS008

Test Mode : Full function (REC mode) \_config1

Temp./Humid. 22/58 Operator Jimmy

ReadAntenna Preamp Cable Limit Over

Freq Level Factor Factor Loss Factor Level Limit Remark Line MHz dBu∀ dB/m ďΒ ₫B dB/m dBuV/m dBuV/m ₫B

1 p 9892.50 25.52 38.08 32.11 10.38 16.35 41.87 54.00 -12.13 Peak

#### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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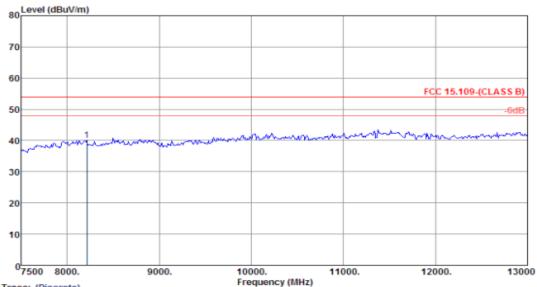


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Test Mode: Test Date: Jan. 20, 2011 Config 1

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

966 Chamber Site

: FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL Condition

Project No. : EI-2011-C10006 : Fujitsu Toshiba Applicant

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode : Full function (REC mode) \_config1

Temp./Humid. 22/58 Operator Jimmy

ReadAntenna Preamp Cable Limit 0ver

Freq Level Factor Factor Loss Factor Level Limit Remark Line dBu₹ dB/m ₫B ₫Ē MHZ ₫B dB/m dBuV/m dBuV/m

9.36 14.16 40.04 54.00 -13.96 Peak 1 p 8215.00 25.88 37.08 32.28

#### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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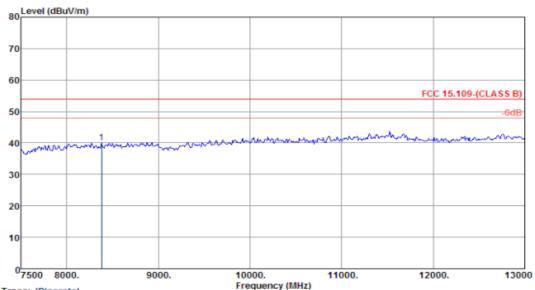


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Test Mode: Jan. 20, 2011 Config 2 Test Date:

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

966 Chamber Site

Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL

Project No. : EI-2011-C10006 : Fujitsu Toshiba Applicant

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode : Full function (Play mode) \_config2

Temp./Humid. : 22/58 Operator Jimmy

ReadAntenna Preamp Cable Limit 0ver Loss Factor Level Freq Level Factor Factor Line

Limit Remark dBuV dB/m ₫B dΒ dB/m dBuV/m dBuV/m

1 p 8380.00 25.66 37.13 32.10 9.51 14.54 40.20 54.00 -13.80 Peak

#### Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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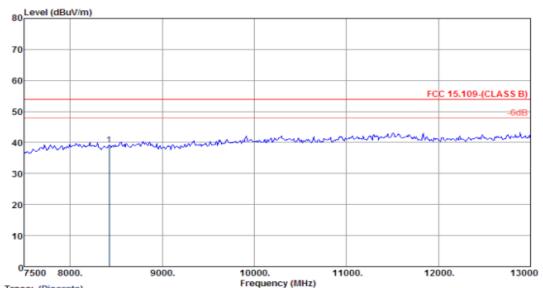


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Test Mode: Config 2 Test Date: Jan. 20, 2011

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model : TS008

Test Mode : Full function (Play mode) \_config2

Temp./Humid. : 22/58 Operator : Jimmy

ReadAntenna Preamp Cable Limit Over
Freq Level Factor Factor Loss Factor Level Line Limit Remark

MHz dBuV dB/m dB dB/m dBuV/m dBuV/m dB

1 p 8424.00 24.58 37.15 32.04 9.58 14.69 39.27 54.00 -14.73 Peak

#### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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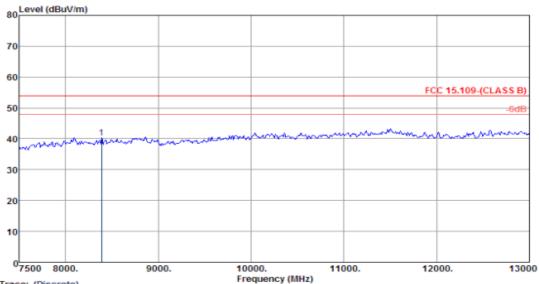


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Test Mode: Config 3 Jan. 20, 2011 Test Date:

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : 966 Chamber

Condition FCC 15.109-(CLASS B) BBHA9120D VERTICAL

Project No. : EI-2011-C10006 : Fujitsu Toshiba Applicant

Mobile Communications Limited

EUT Description: CDMA TS008

: TS008 EUT Model

Test Mode : Full function (REC mode) \_config3

Temp./Humid. : 22/58 Operator Jimmv

ReadAntenna Preamp Limit Cable Over Freq Level Factor Factor Loss Factor Level Limit Remark Line dBuV dB/m ďΒ dB/m dBuV/m dBuV/m MHZ ₫Ŗ dΒ 1 p 8391.00 25.80 37.14 32.07 9.51 14.58 40.38 54.00 -13.62 Peak

#### Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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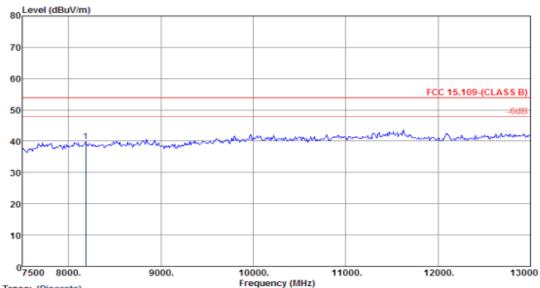


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Test Mode: Test Date: Jan. 20, 2011 Config 3

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

: 966 Chamber Site

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode : Full function (REC mode) \_config3

Temp./Humid. : 22/58 Operator Jimmy

> ReadAntenna Preamp Cable Limit 0ver Loss Factor Level Freq Level Factor Factor Line Limit Remark

dBuV dB/m ₫B dΒ dB/m dBuV/m dBuV/m

1 p 8187.50 25.69 37.08 32.30 9.34 14.12 39.81 54.00 -14.19 Peak

#### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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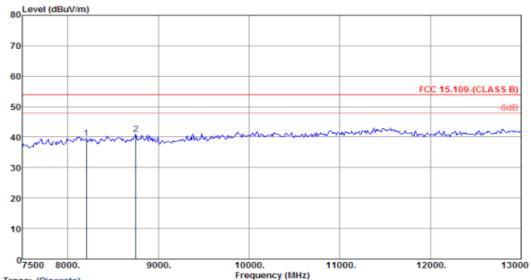


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Test Mode: Config 4 Jan. 20, 2011 Test Date:

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode : Full function (Play mode) \_config4

Temp./Humid. : 22/58 Jimmy

Operator

ReadAntenna Preamp Cable Limit 0ver Freq Level Factor Factor Loss Factor Limit Remark Level Line MHz dBu∀ dB/m ₫B dB/m dBuV/m dBuV/m dΒ ₫B 25.46 26.09 37.08 37.28 54.00 -14.40 Peak 54.00 -13.00 Peak 32.28 32.09 9.34 9.72 39.60 14.14 14.91 41.00

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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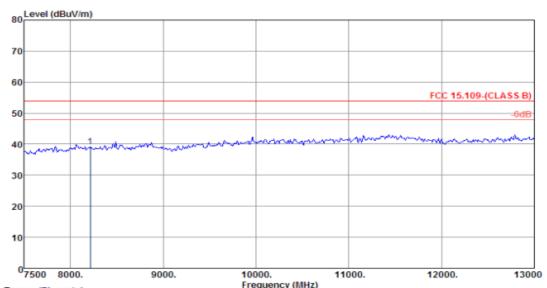


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Test Mode: Config 4 Test Date: Jan. 20, 2011

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL Condition

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode : Full function (Play mode) \_config4 Temp./Humid. : 22/58

Operator

ReadAntenna Preamp Freq Level Factor Factor Loss Factor Level Limit Remark dBuV dB/m ₫B ₫B dB/m dBuV/m dBuV/m

1 p 8215.00 25.11 37.08 32.28 9.36 14.16 39.27 54.00 -14.73 Peak

#### Remark:

(1) All Readings above 1GHz are Peak and Average measurement as necessary.

(2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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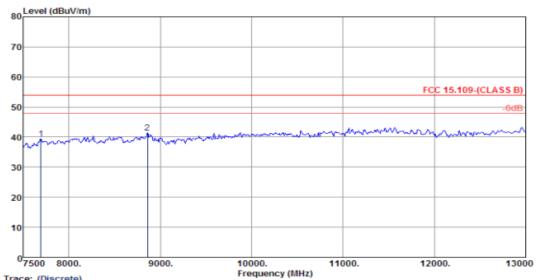


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Test Mode: Config 5 Jan. 20, 2011 Test Date:

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

: EI-2011-C10006 Project No. Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model TS008

Test Mode : Data link \_config5

Temp./Humid. : 22/58 Jimmy

ReadAntenna Preamp Cable Limit Over Level Factor Factor Loss Factor Limit Remark Level Line MHz dBu¥ dB/m dΒ dΒ dB/m dBuV/m dBuV/m ďΒ 54.00 -14.46 Peak 54.00 -12.55 Peak 7692.50 26.64 36.54 32.67 9.03 12.90 39.54 26.55 37.34 32.26 8864.00 9.82 14.90 41.45

# Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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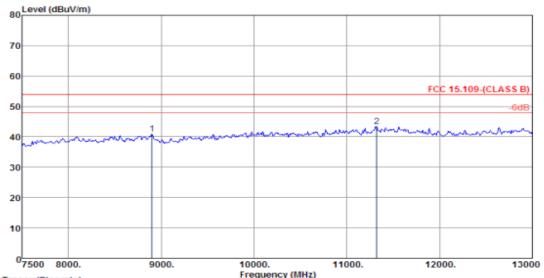


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Test Mode: Config 5 Test Date: Jan. 20, 2011

Frequency Range: 7.5GHz – 13GHz Test By: Nick



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-C10006 Applicant : Fujitsu Toshiba

: Mobile Communications Limited

EUT Description: CDMA TS008

EUT Model : TS008

Test Mode : Data link \_config5

Temp./Humid. : 22/58

Operator : Jimmy

ReadAntenna Preamp Cable Limit Over Freq Level Factor Factor Loss Factor Level Limit Remark Line MHz dBu¥ dB/m ₫B dB/m dBuV/m dBuV/m ₫Ē ₫B 26.23 24.83 37.36 39.33 32.34 32.04 9.86 11.27 41.11 43.39 54.00 -12.89 Peak 54.00 -10.61 Peak 18.56

#### Remark:

- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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