

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.
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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 Hsu

Date:

Feb. 10, 2011

Judy Hsu / General Admin.

Approved By:

Arno 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	
Power Supply	3.7Vdc Li-Ion battery	
	Battery:	Model No. TS006UAA, Supplier: au by KDDI

CDMA:

DUT Standards And Power:	CDMA2000	Frequency Range		Maximum Rated EIRP Power 26.20 dBm
	Cellular	TX:	824.70-848.31 MHz	
		RX:	869.70-893.31 MHz	
Type of Emission	CDMA2000 Cellular: 1M28F9W			
Hardware Version	Ver.2.0.0			
Software Version	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 + $\pi/4$ DQPSK + 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:	≤ 0.4 s
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

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: YUW-TS008** 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.

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 placed on a 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.

2.4 Limitation

(1) Conducted Emission

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

Frequency range MHz	Class B Limits dB (uV)	
	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		
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.		

(2) Radiated Emission

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

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
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 $\text{dB}\mu\text{V/m} = 20 \log (\text{uV/m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

2.5 Configuration of Tested System

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

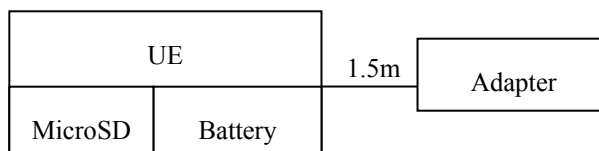


Fig. 2-2 Configuration of Tested System (config 2, 4)

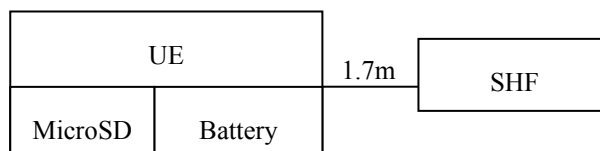
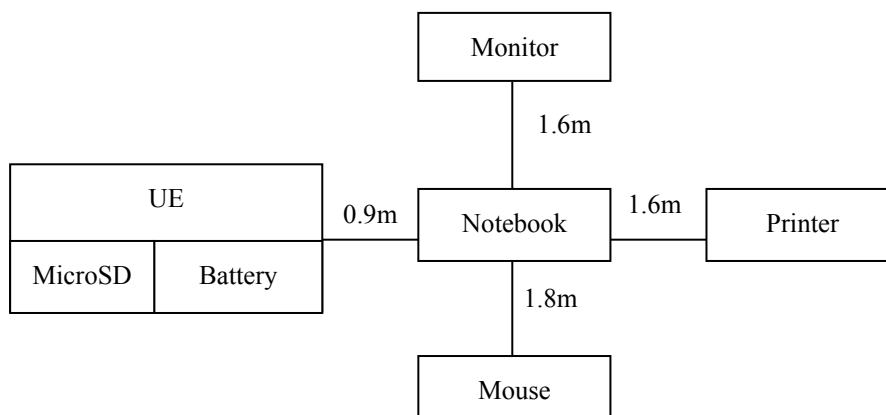


Fig. 2-3 Configuration of Tested System (config 5)



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

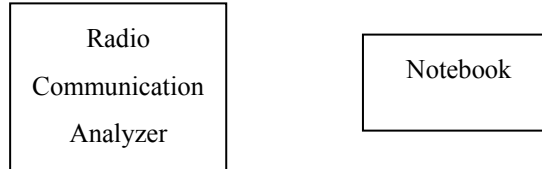


Table 2-1 Support Equipment Used in Tested System

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	HP	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	Description Of Test	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 + Battery +AC Adaptor	UE + Battery + SHF	UE + Battery +AC Adaptor	UE + Battery + SHF	UE + Battery +Data Cable
Description	Full function				Data link
	CDMA+BT +Camera	CDMA+BT +Camera	CDMA+BT +Music	CDMA+BT +Music	Data link
radiated emission	Full function (REC mode)	Full function (REC mode)	Full function (Play mode)	Full function (Play mode)	Data link
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

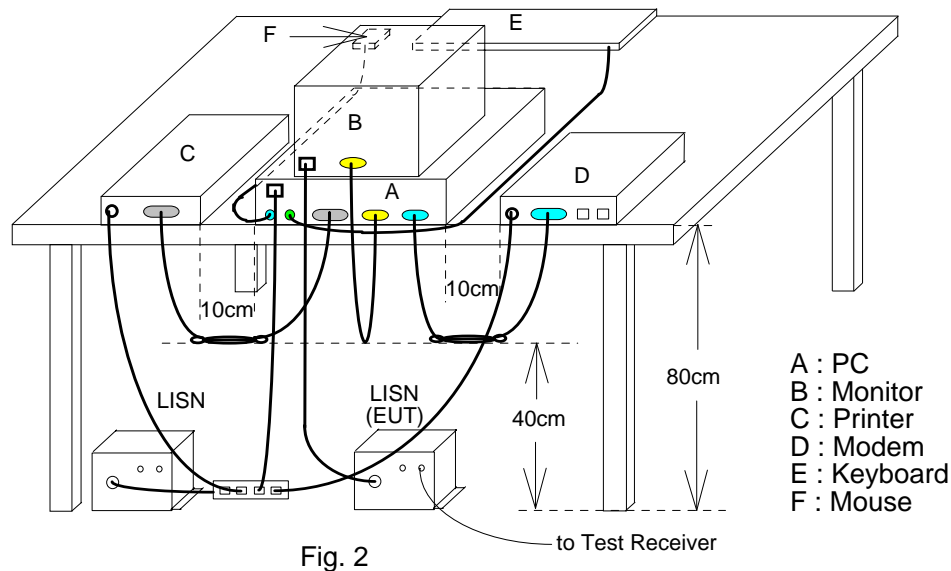
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5. Conducted Emissions Test

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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5.3 Measurement Equipment Used:

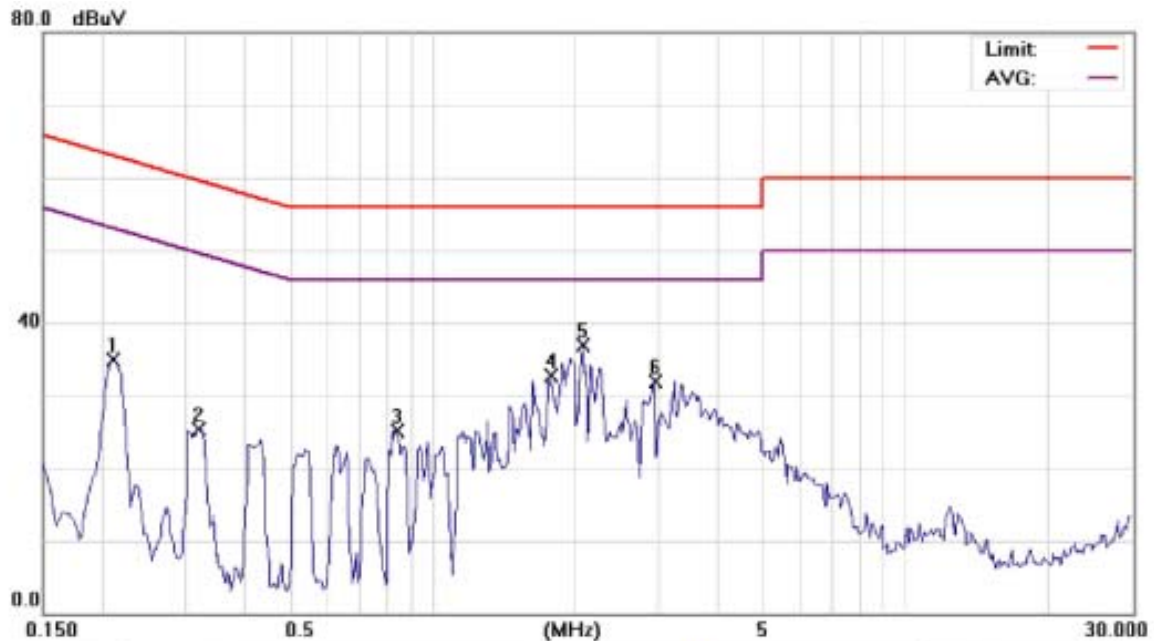
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/23/2010	09/22/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2010	02/01/2011
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2010	02/01/2011
Coaxial Cables	N/A	WK CE 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.

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

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 22 °C

Humidity: 57 %

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over 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	

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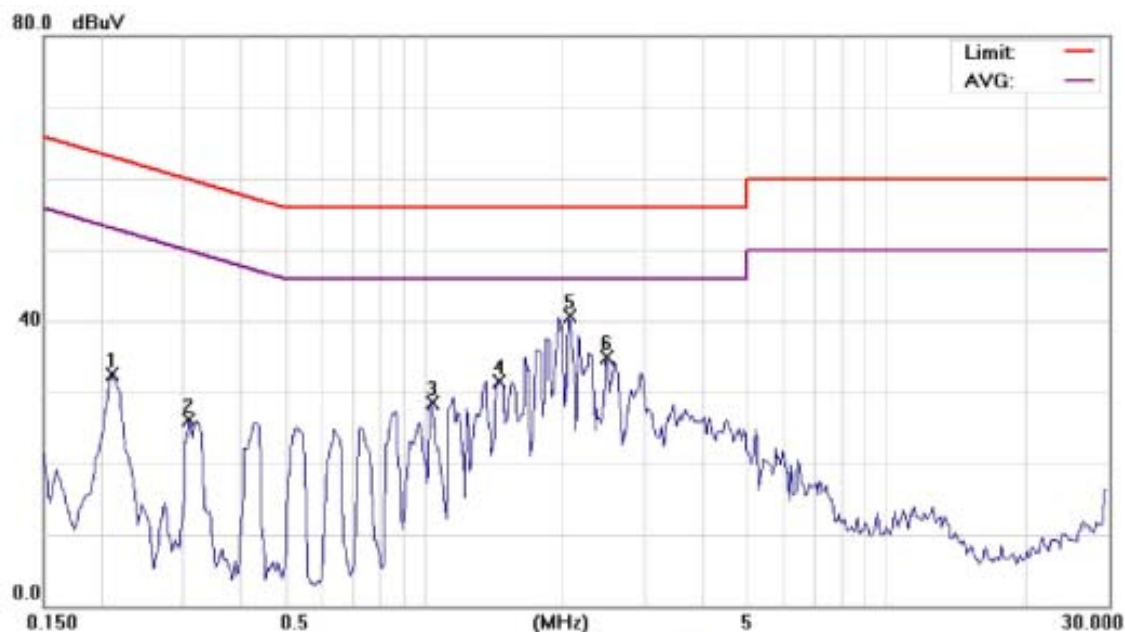
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Site SGS CONDUCTED #1

Phase: N

Temperature: 22 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 57 %

EUT: CDMA TS008

Distance:

Air Pressure: hpa

M/N: TS008

Note: Full function (REC mode)_config1

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over 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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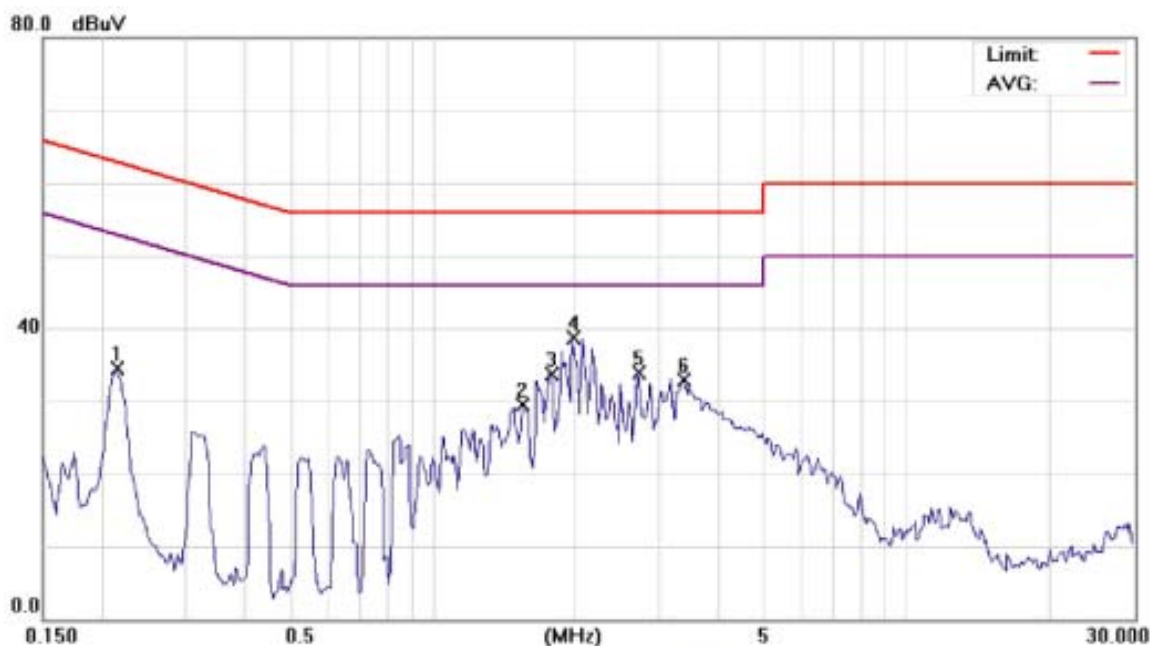
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AC POWER LINE CONDUCTED EMISSION TEST DATA

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

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 22 °C

Humidity: 57 %

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over 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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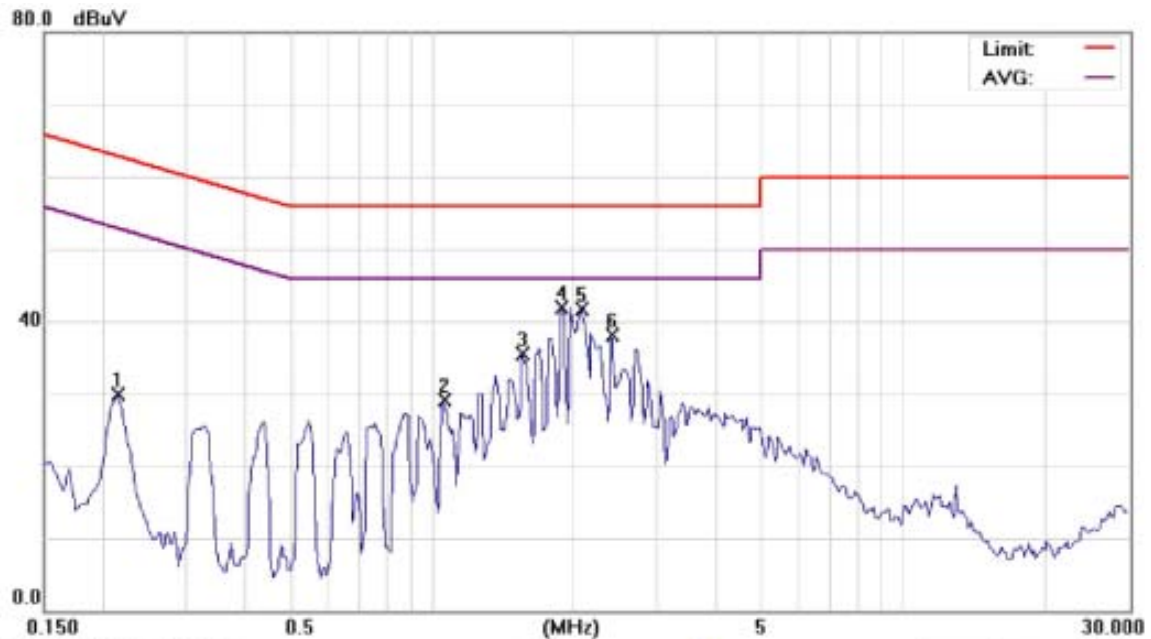
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Site SGS CONDUCTED #1
Limit: FCC Class B Conduction(QP)
EUT: CDMA TS008
M/N: TS008
Note: Full function (Play mode)_config3

Phase: **N**
Power: AC 120V/60Hz
Distance:

Temperature: 22 °C
Humidity: 57 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2150	29.72	0.13	29.85	63.01	-33.16	peak	
2		1.0600	29.01	0.13	29.14	56.00	-26.86	peak	
3		1.5600	35.39	0.15	35.54	56.00	-20.46	peak	
4	*	1.8800	41.76	0.16	41.92	56.00	-14.08	peak	
5		2.0700	41.63	0.16	41.79	56.00	-14.21	peak	
6		2.4000	38.03	0.17	38.20	56.00	-17.80	peak	

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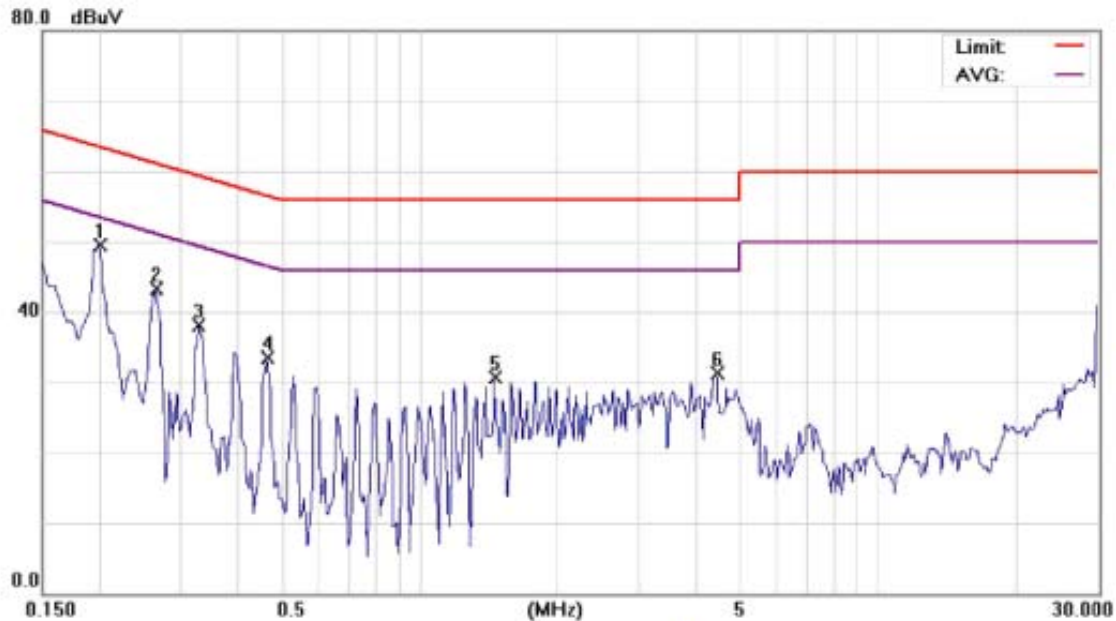
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AC POWER LINE CONDUCTED EMISSION TEST DATA

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



Site SGS CONDUCTED #1

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

EUT: CDMA TS008

M/N: TS008

Note: Data link_config5

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 24 °C

Humidity: 59 %

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2000	49.39	0.08	49.47	63.61	-14.14	peak	
2		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		4.4400	31.23	0.09	31.32	56.00	-24.68	peak	

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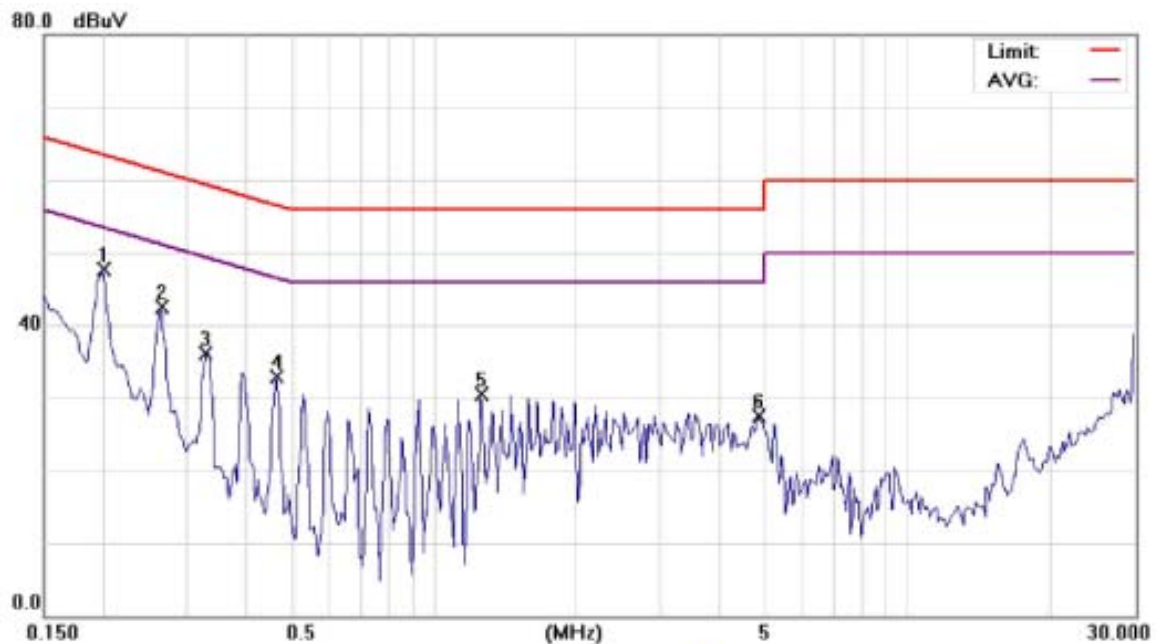
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Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: CDMA TS008

M/N: TS008

Note: Data link _config5

Phase: **N**

Power: AC 120V/60Hz

Distance:

Temperature: 24 °C

Humidity: 59 %

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over 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	

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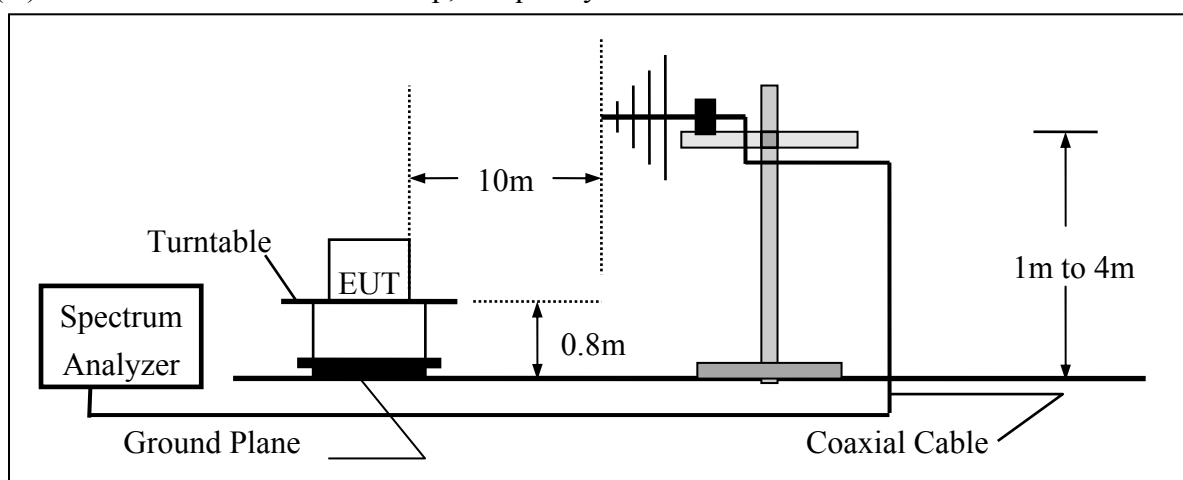
6. Radiated Emission Test

6.1 Measurement Procedure

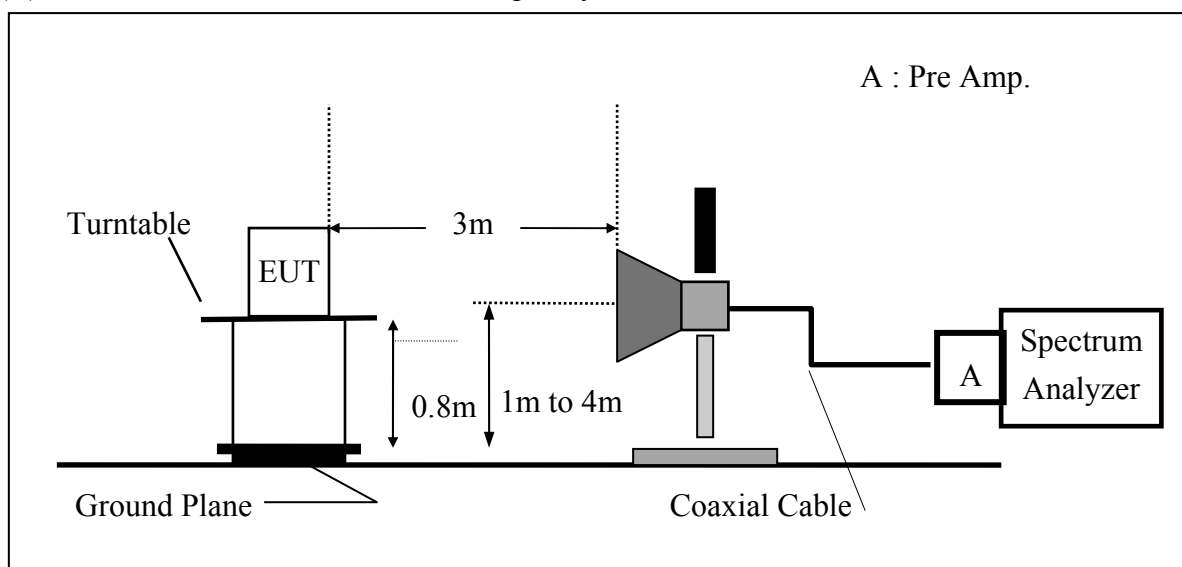
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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 TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
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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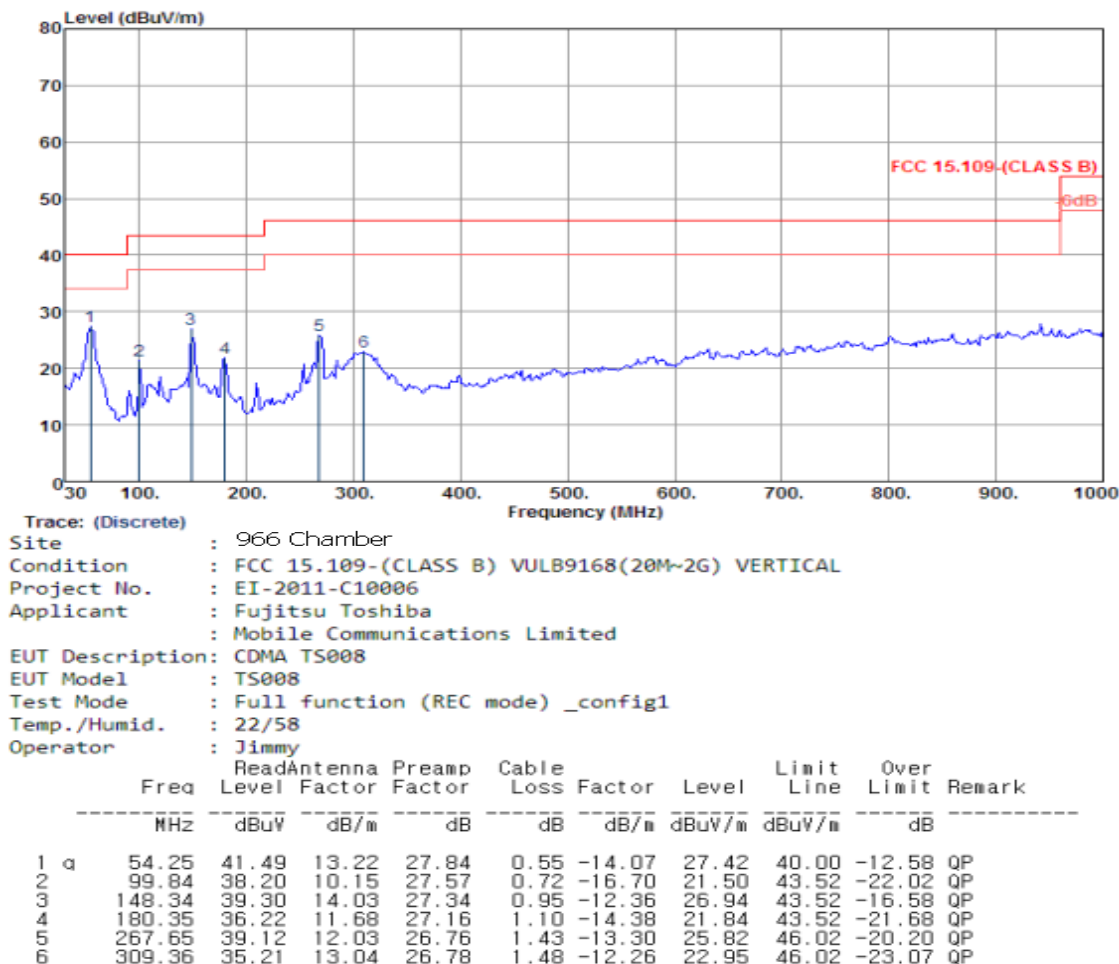
6.5 Measurement Result (below 1G)

Test Mode: Config 1

Test Date : Jan. 20, 2011

Frequency Range: 30MHz-1GHz

Test By: Nick



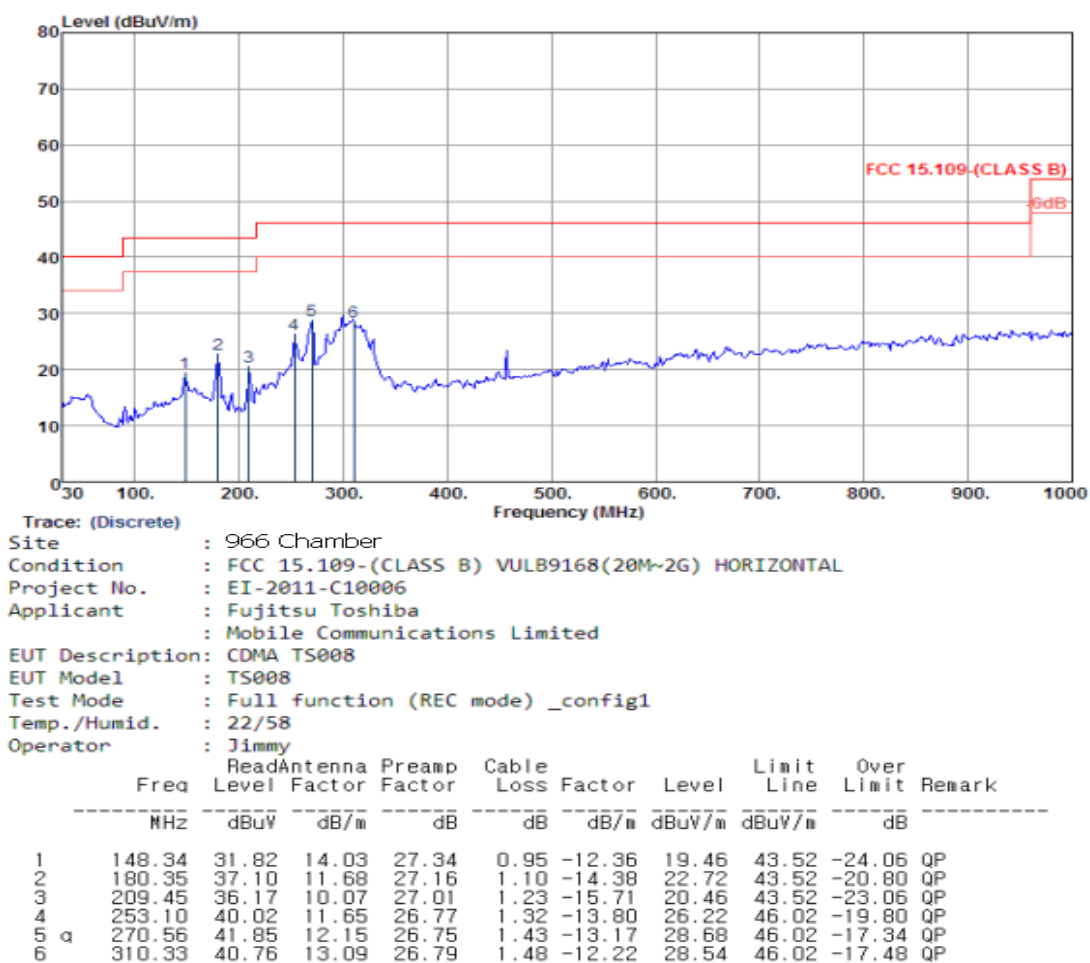
Remark :

- (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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Test Mode: Config 1
Frequency Range: 30MHz-1GHz

Test Date: Jan. 20, 2011
Test By: Nick



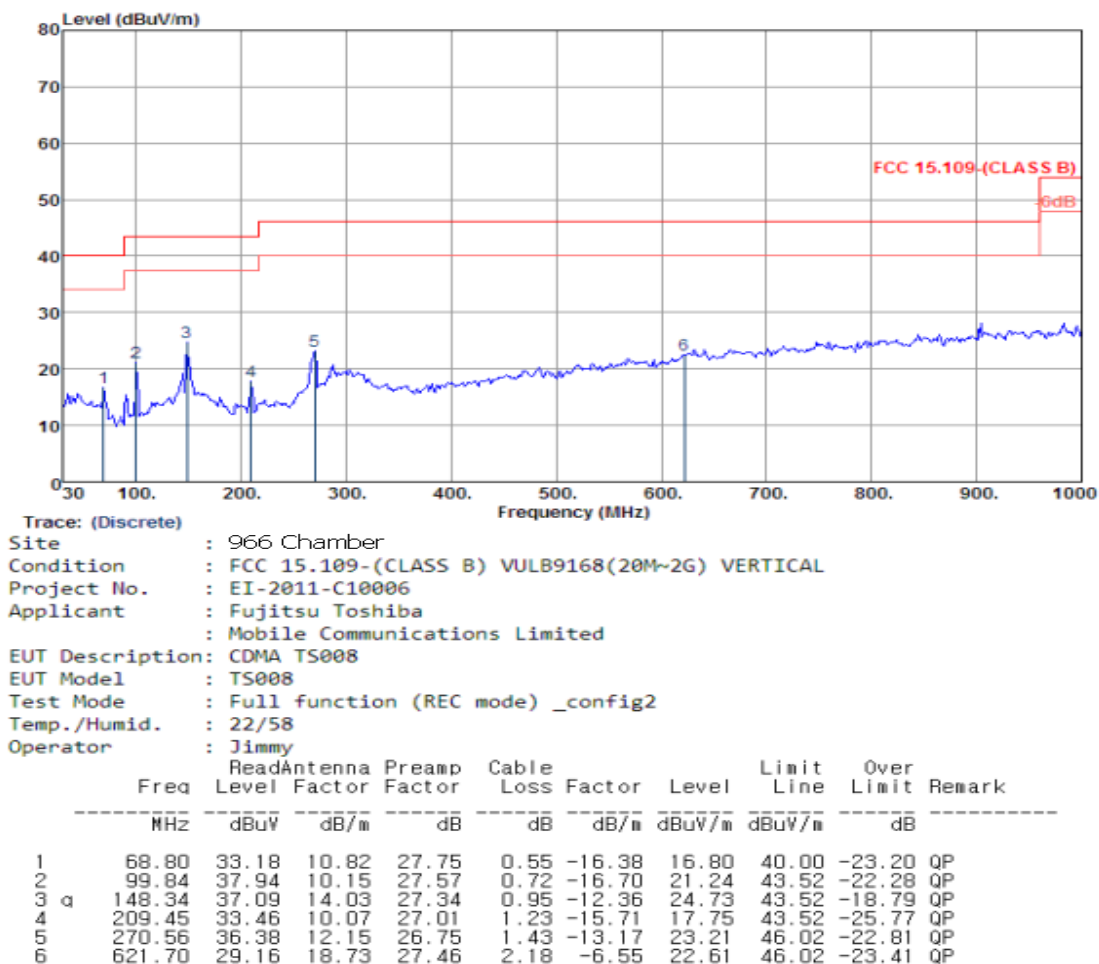
Remark :

- (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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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date: Jan. 20, 2011
Test By: Nick



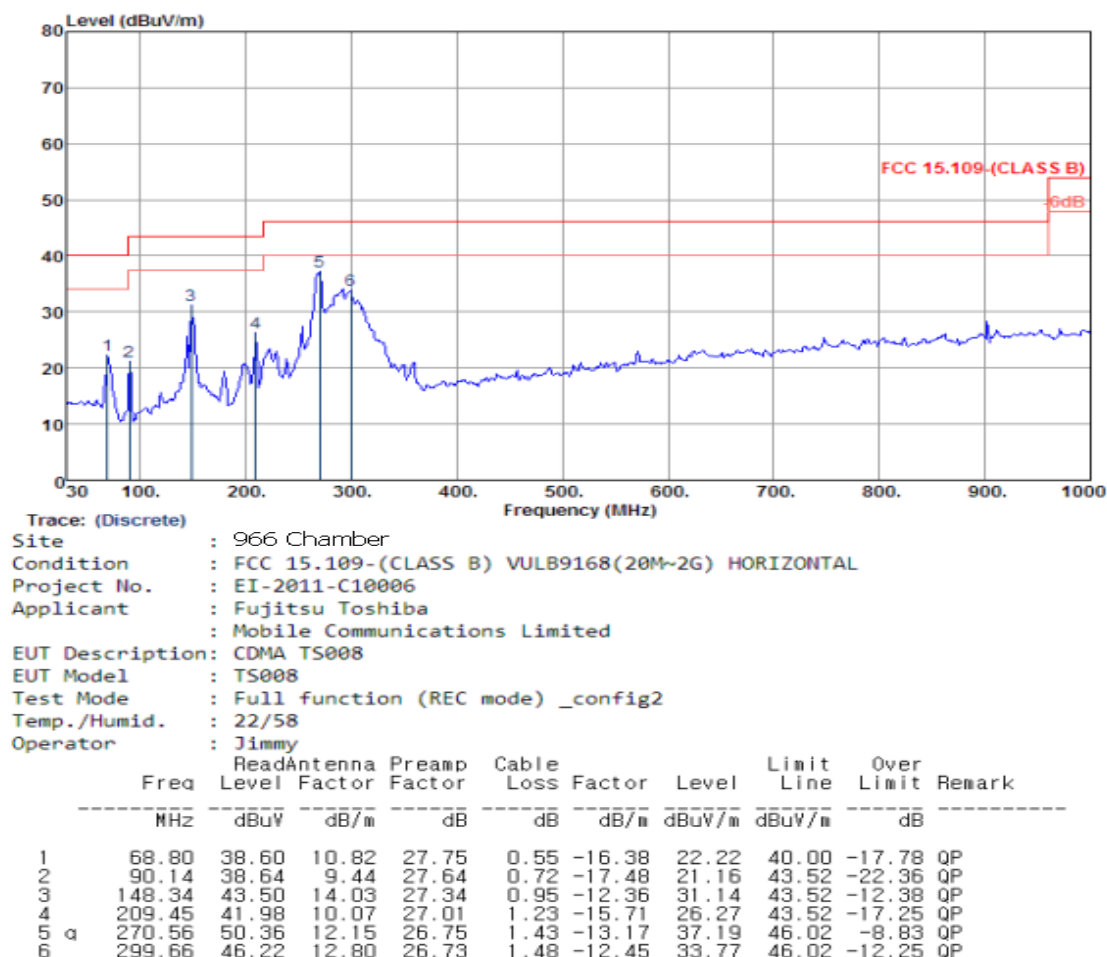
Remark :

- (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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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date: Jan. 20, 2011
Test By: Nick



Remark :

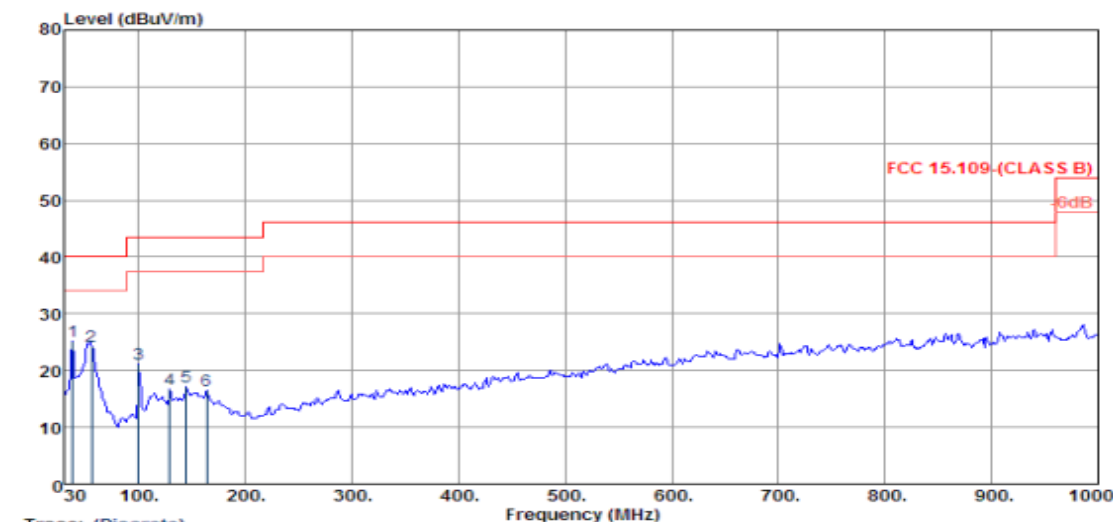
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date: Jan. 20, 2011

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 : Jimmy

		Freq	ReadAntenna	Preampl	Cable		Limit	Over	
		MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	q	37.76	38.83	13.73	27.84	0.38	-13.73	25.10	40.00 -14.90 QP
2		56.19	38.44	13.07	27.84	0.55	-14.22	24.22	40.00 -15.78 QP
3		99.84	37.77	10.15	27.57	0.72	-16.70	21.07	43.52 -22.45 QP
4		128.94	30.68	12.68	27.48	0.83	-13.97	16.71	43.52 -26.81 QP
5		144.46	29.85	13.77	27.38	0.95	-12.66	17.19	43.52 -26.33 QP
6		163.86	28.85	13.76	27.21	1.10	-12.35	16.50	43.52 -27.02 QP

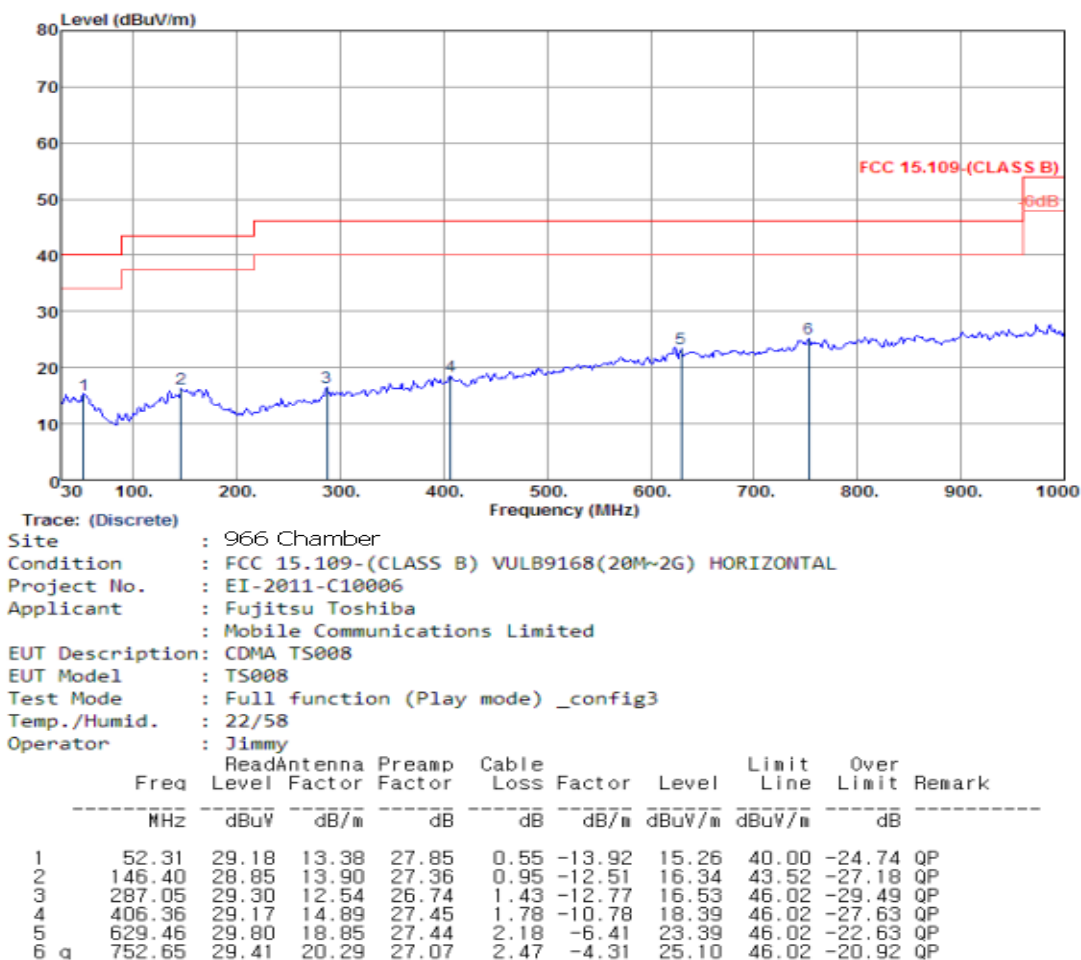
Remark :

- (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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Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date: Jan. 20, 2011
Test By: Nick



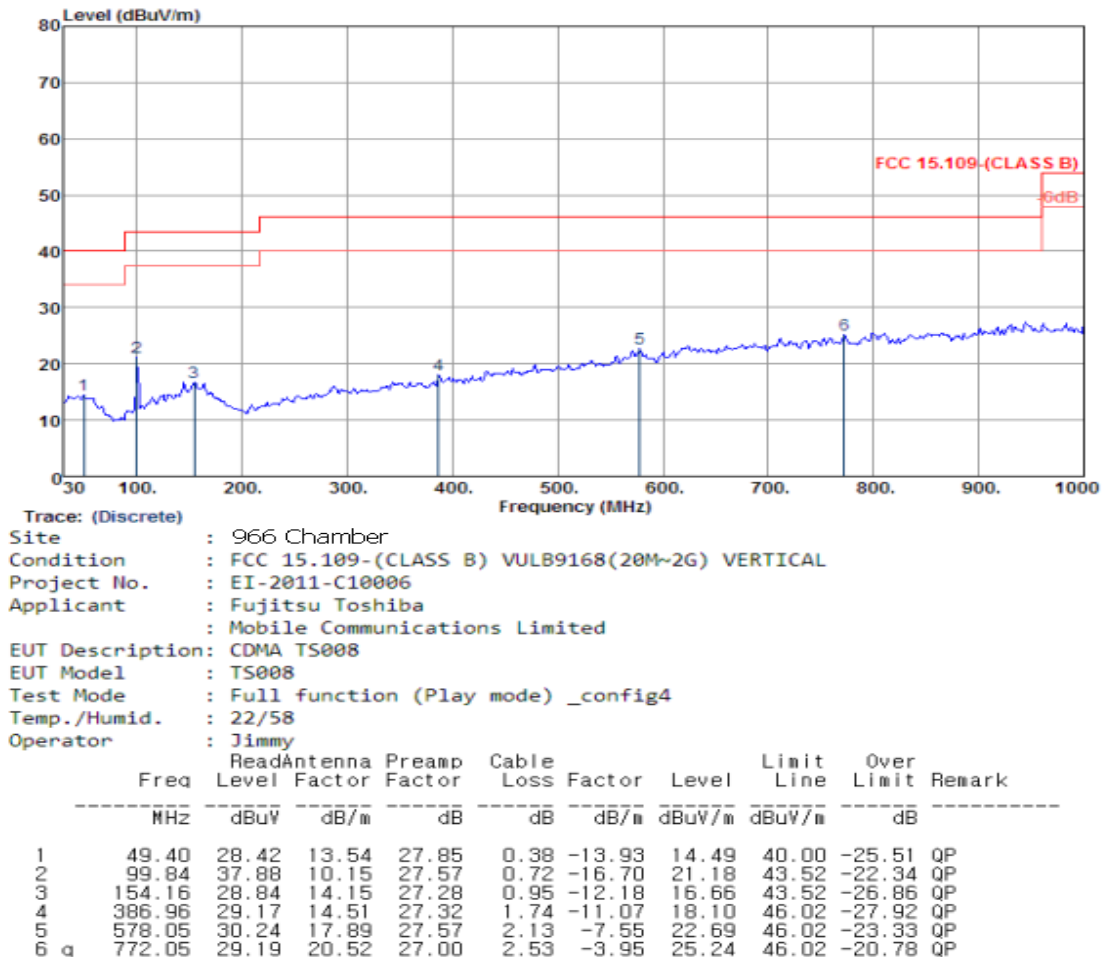
Remark :

- (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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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date: Jan. 20, 2011
Test By: Nick



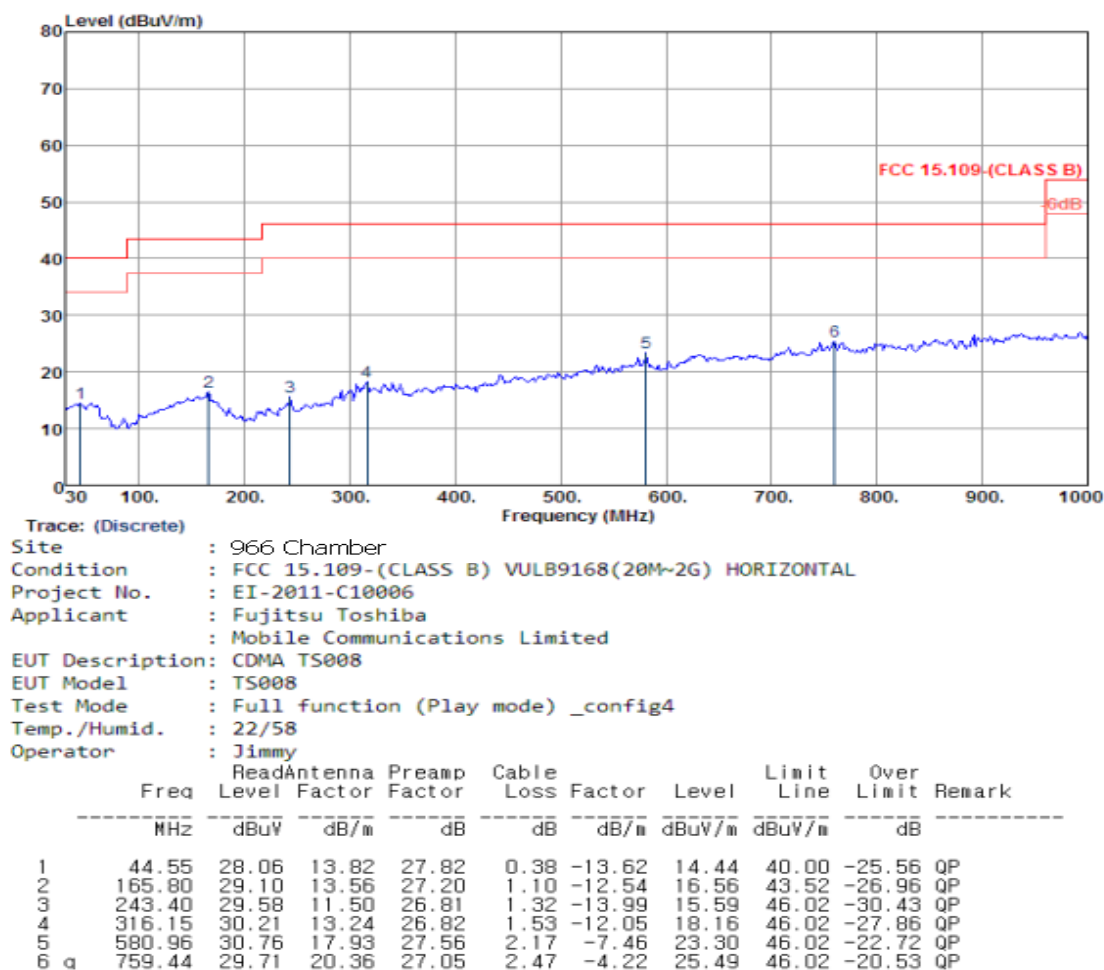
Remark :

- (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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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date: Jan. 20, 2011
Test By: Nick



Remark :

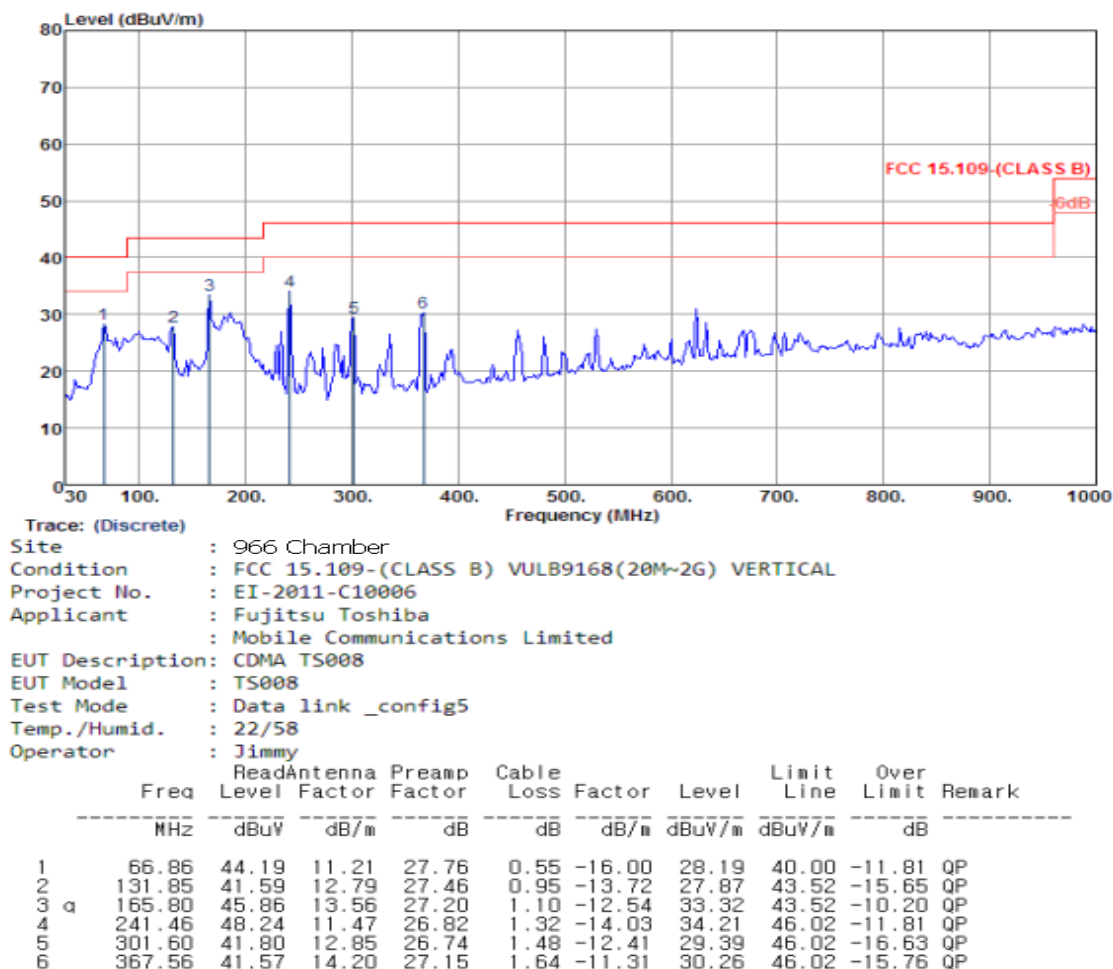
- (1) All Readings below 1GHz are Quasi-Peak, above are performed with peak and/or average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz

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Test Mode: Config 5
Frequency Range: 30MHz-1GHz

Test Date : Jan. 20, 2011

Test By: Nick



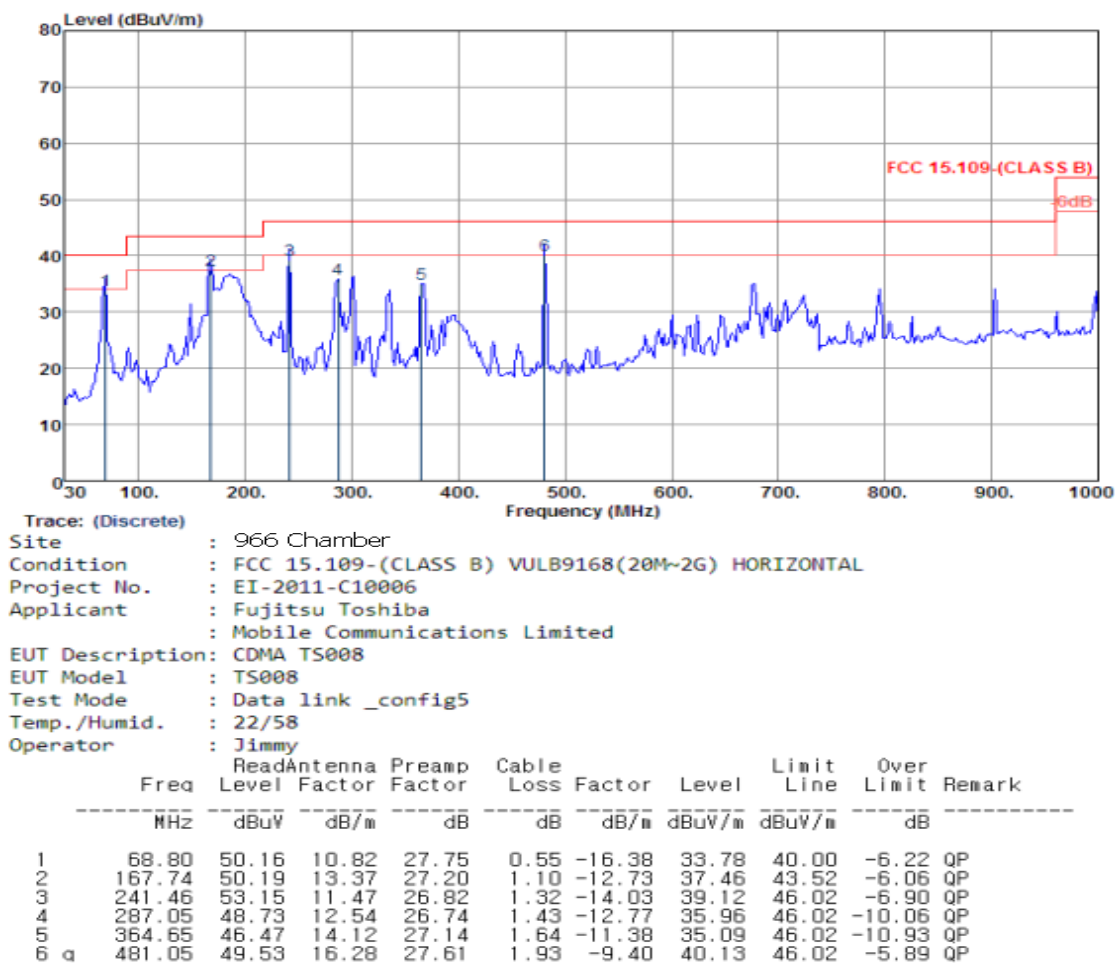
Remark :

- (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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Test Mode: Config 5
Frequency Range: 30MHz-1GHz

Test Date: Jan. 20, 2011
Test By: Nick



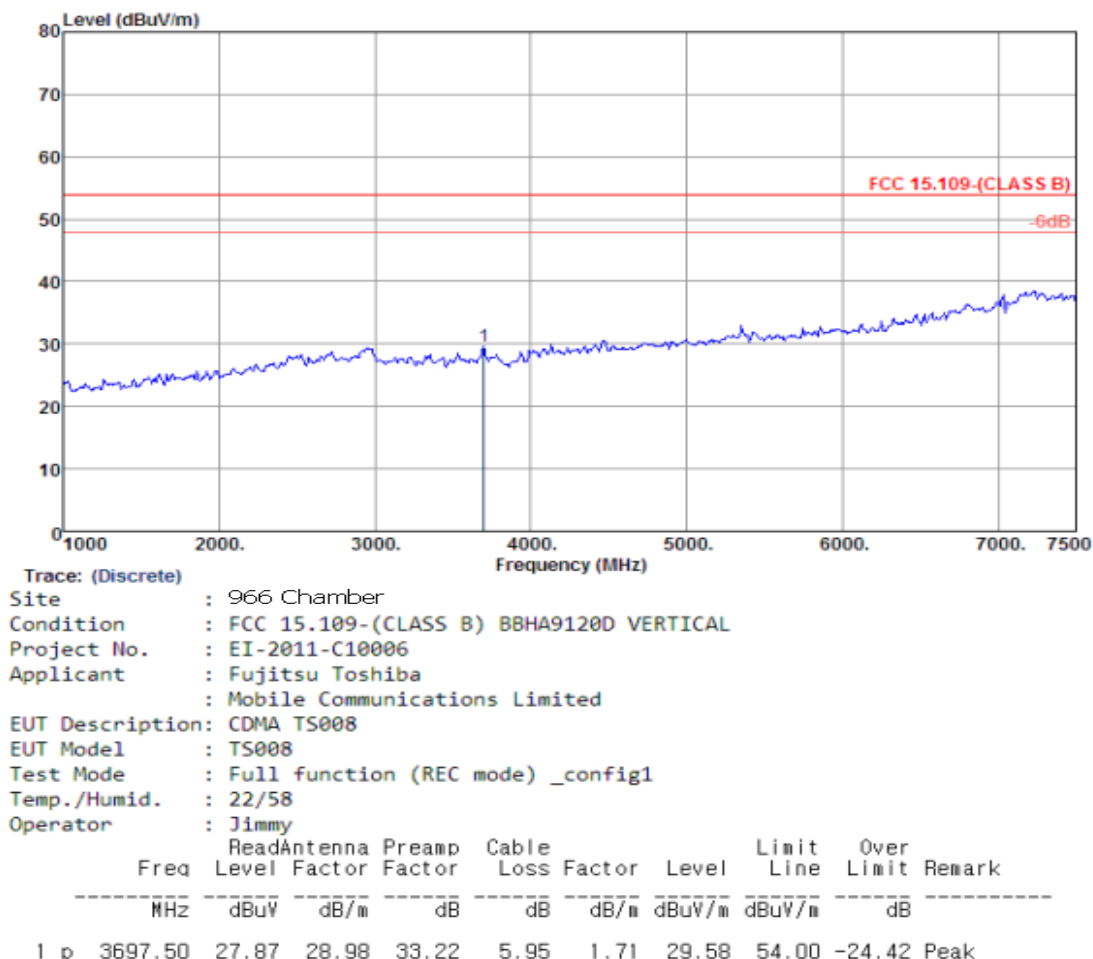
Remark :

- (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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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011
Test By: Nick



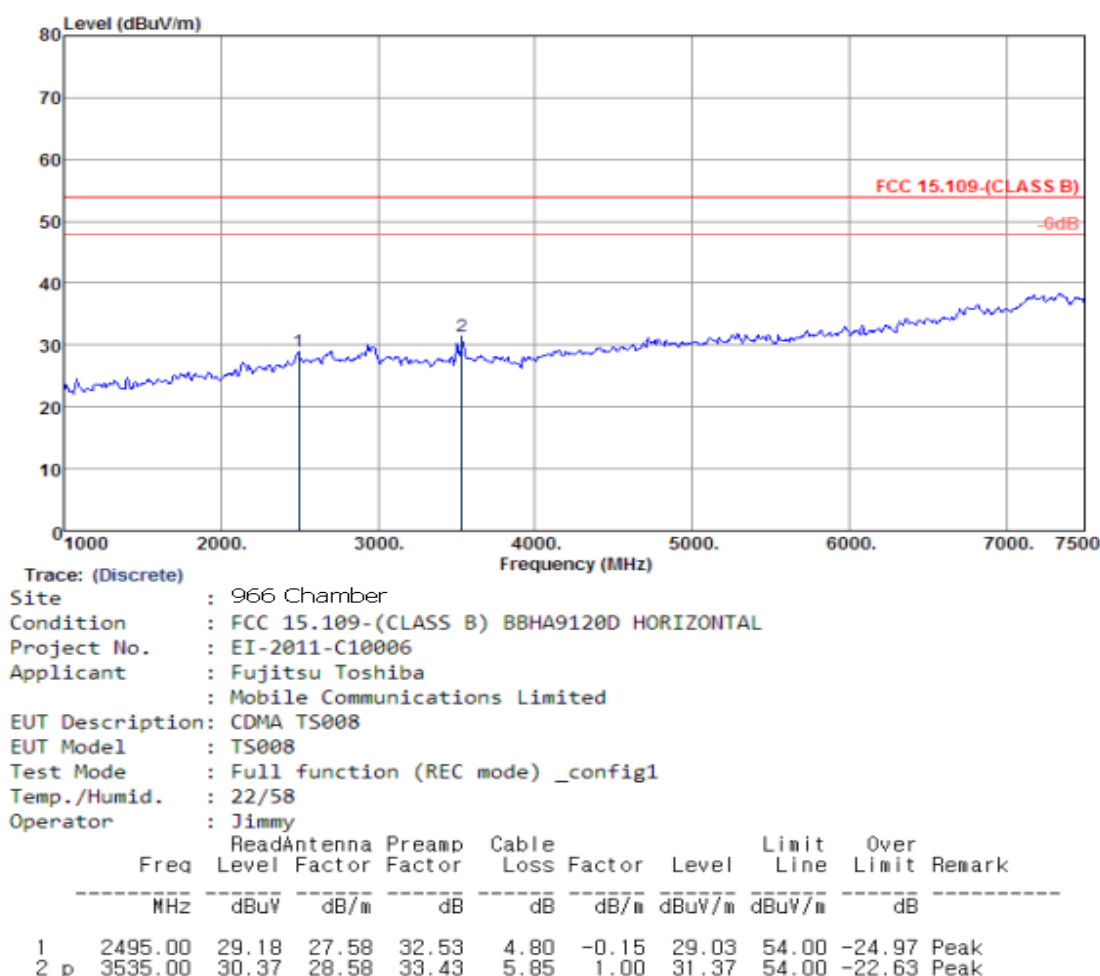
Remark :

- (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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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011
Test By: Nick



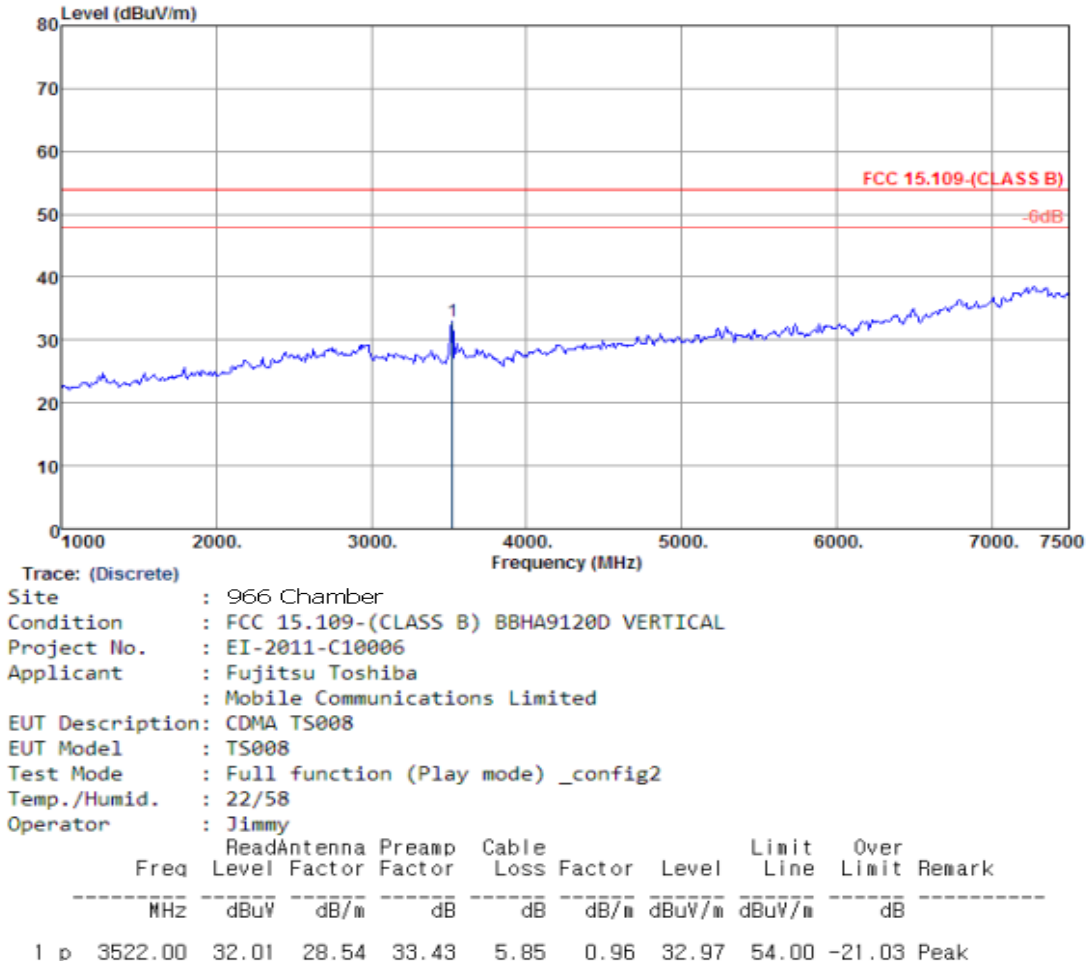
Remark :

- (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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Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011
Test By: Nick



Remark :

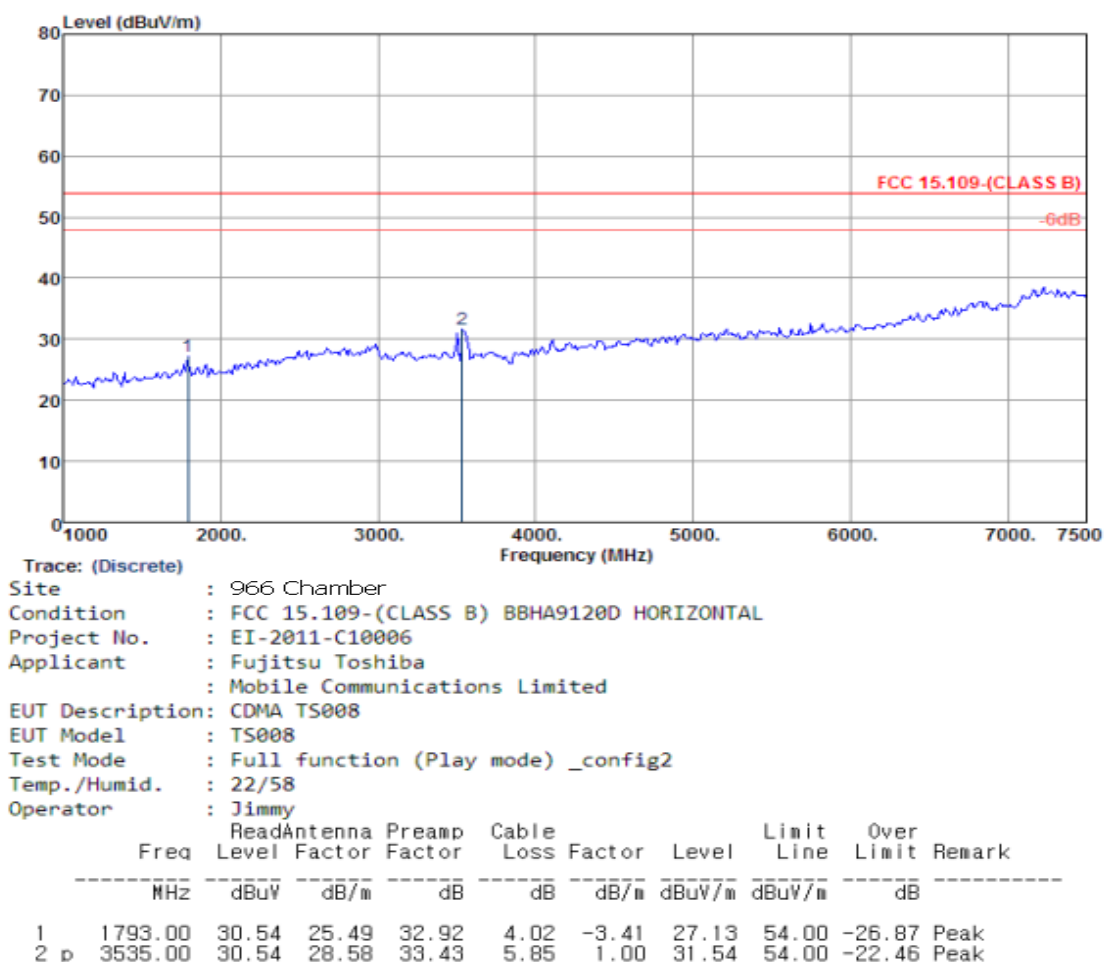
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011

Test By: Nick



Remark :

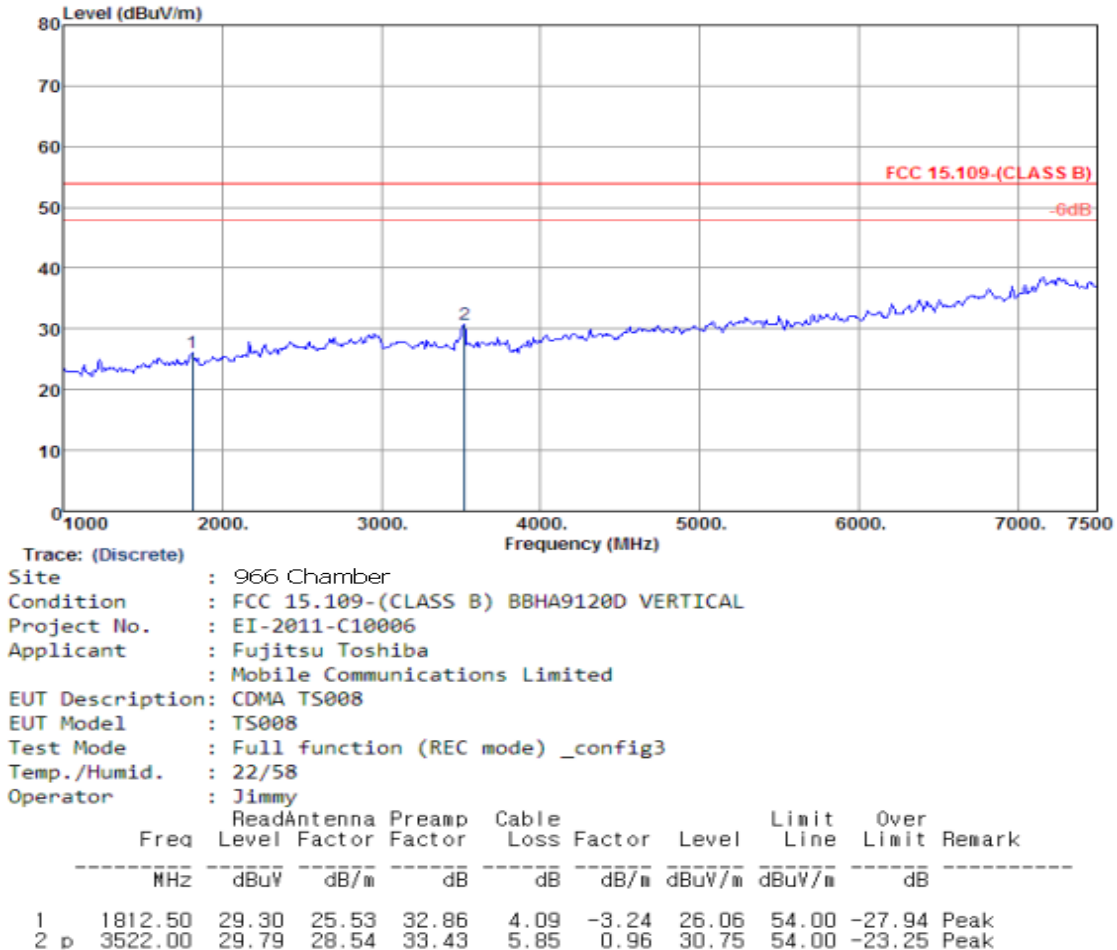
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011

Test By: Nick



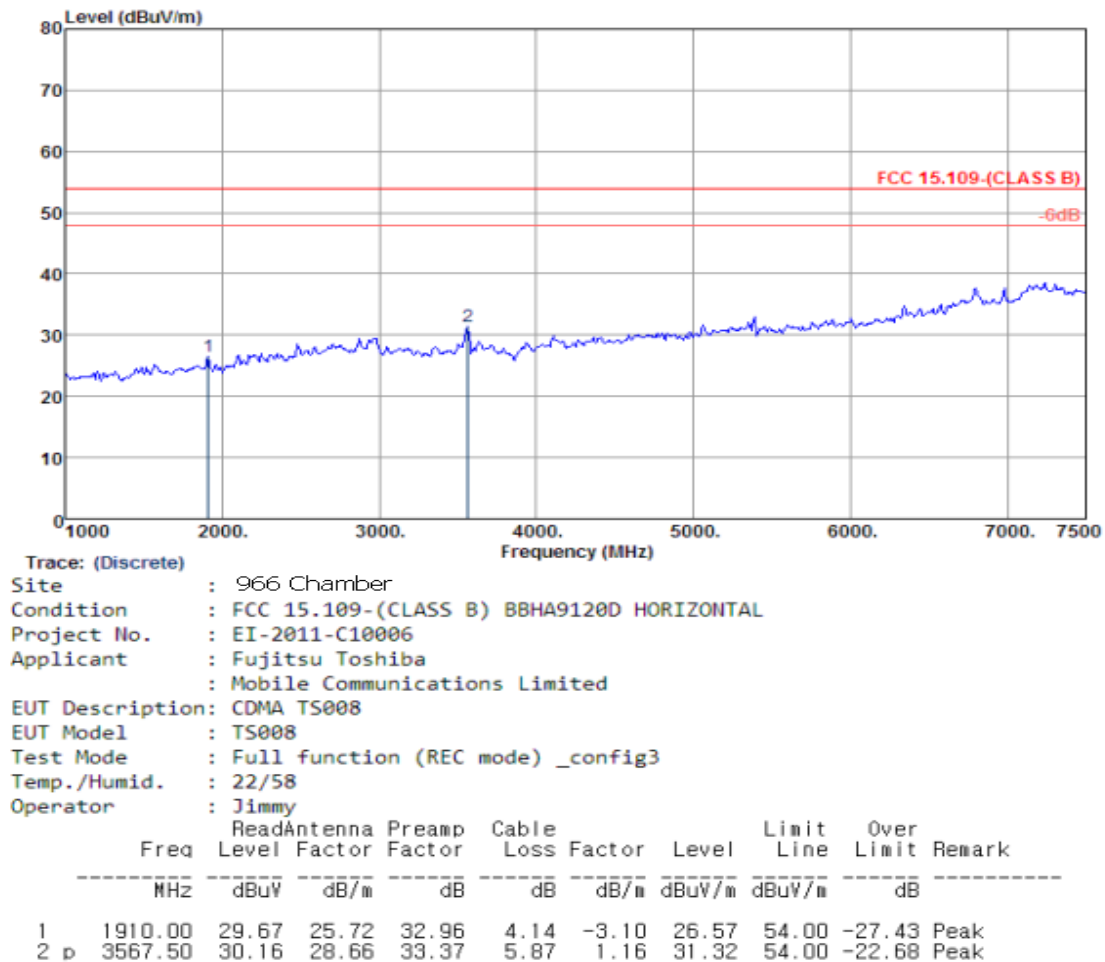
Remark :

- (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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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011
Test By: Nick



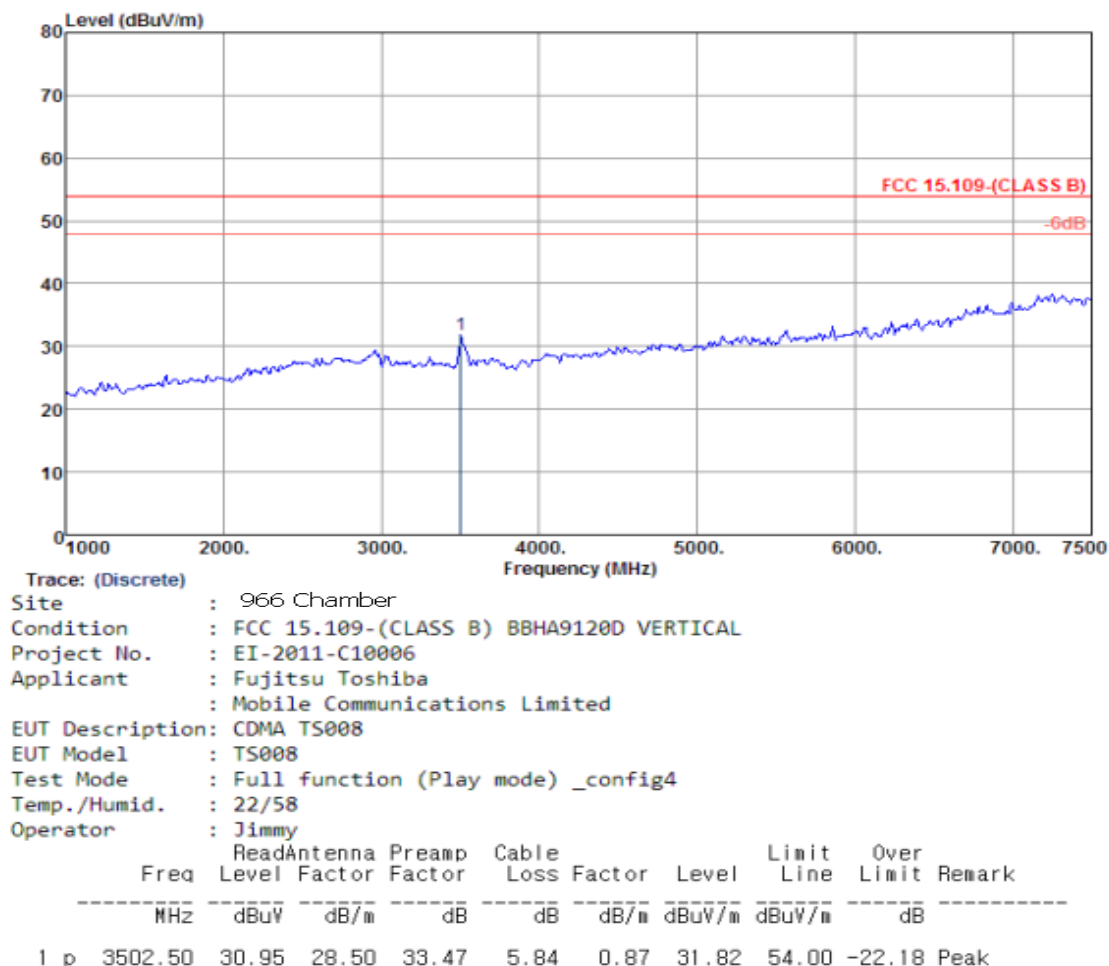
Remark :

- (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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Test Mode: Config 4
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011
Test By: Nick



Remark :

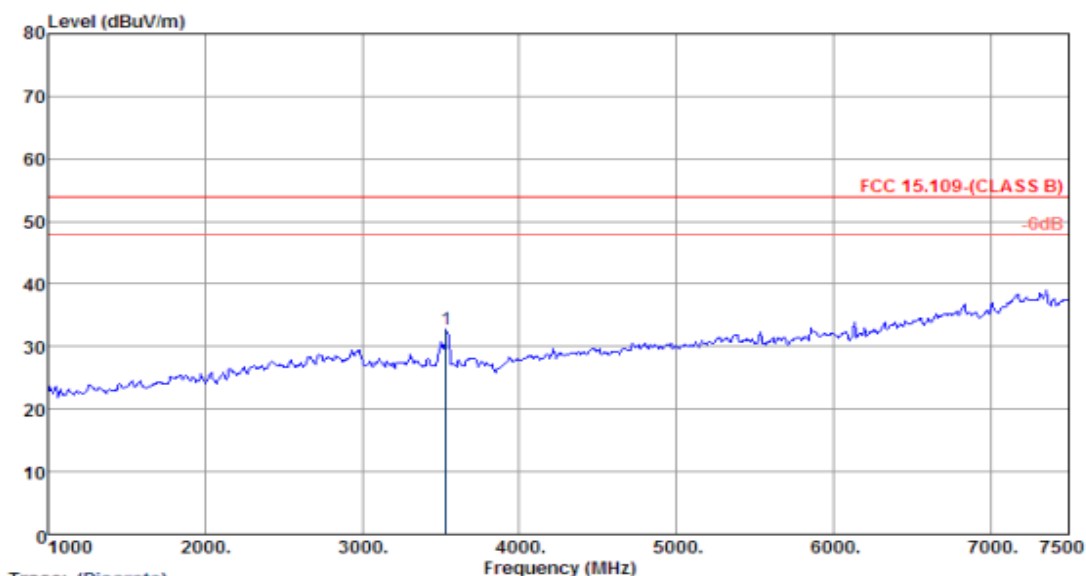
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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Test Mode: Config 4
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011

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) _config4
Temp./Humid. : 22/58
Operator : Jimmy

	Freq	ReadAntenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	dBuV/m	Line	Limit	Remark
		dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1 p	3535.00	31.67	28.58	33.43	5.85	1.00	32.67	54.00	-21.33 Peak

Remark :

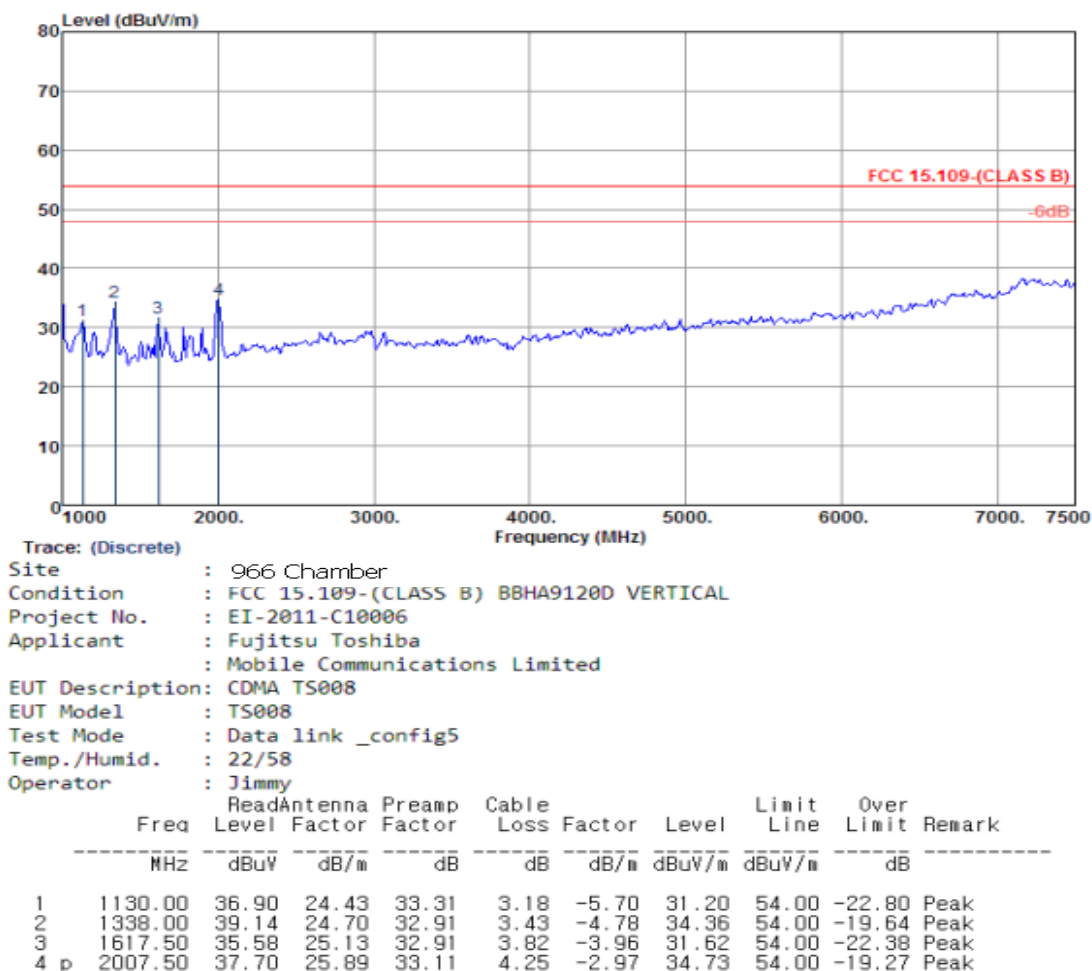
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 1GHz to 7.5GHz was 1MHz

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Test Mode: Config 5
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011

Test By: Nick



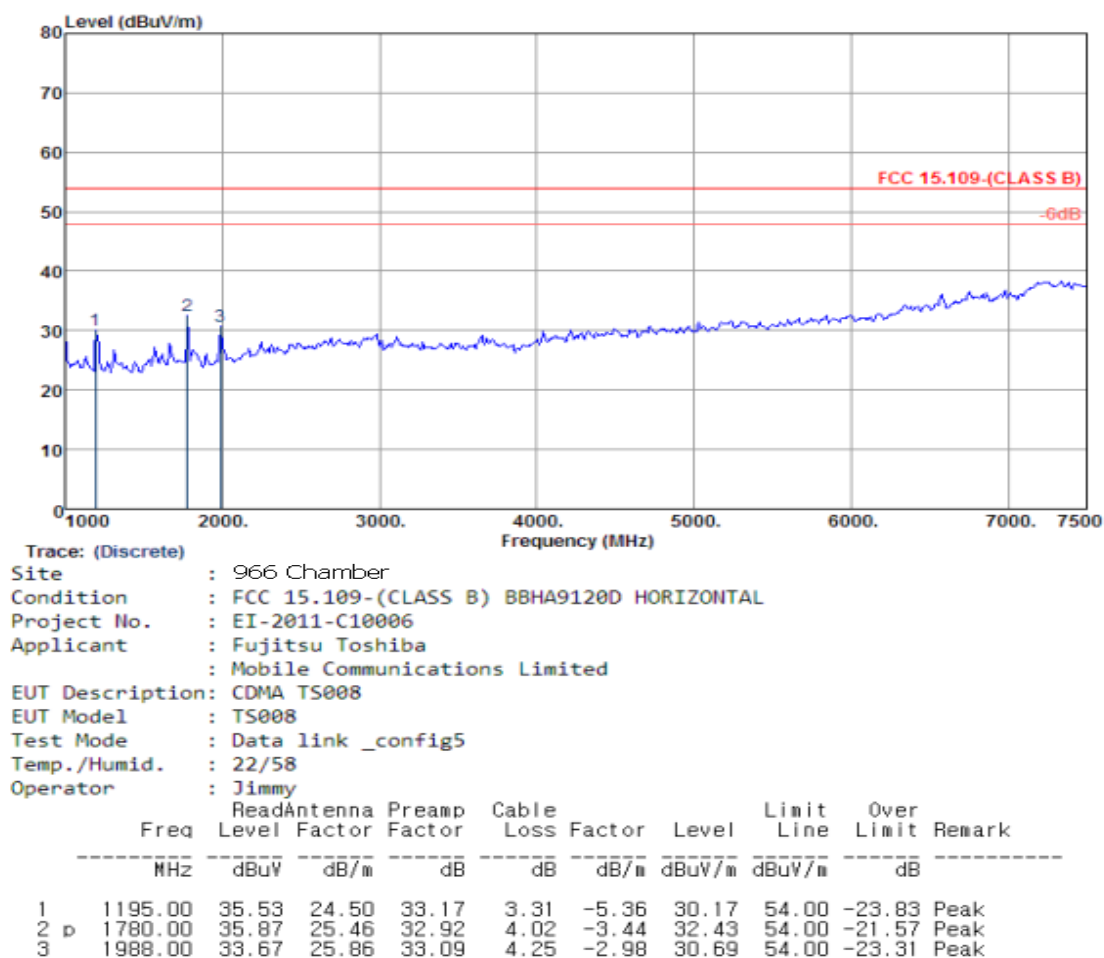
Remark :

- (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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Test Mode: Config 5
Frequency Range: 1GHz – 7.5GHz

Test Date : Jan. 20, 2011
Test By: Nick



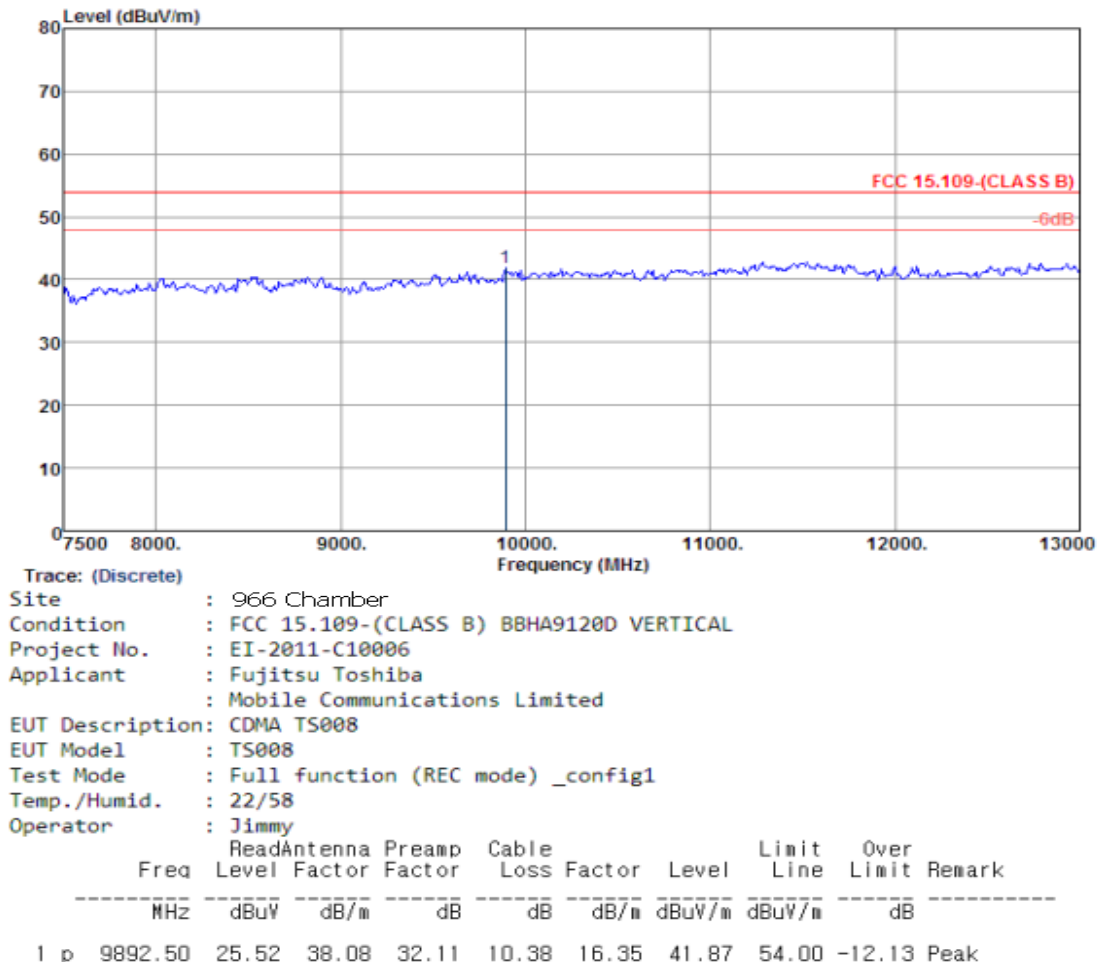
Remark :

- (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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Test Mode: Config 1
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011
Test By: Nick



Remark :

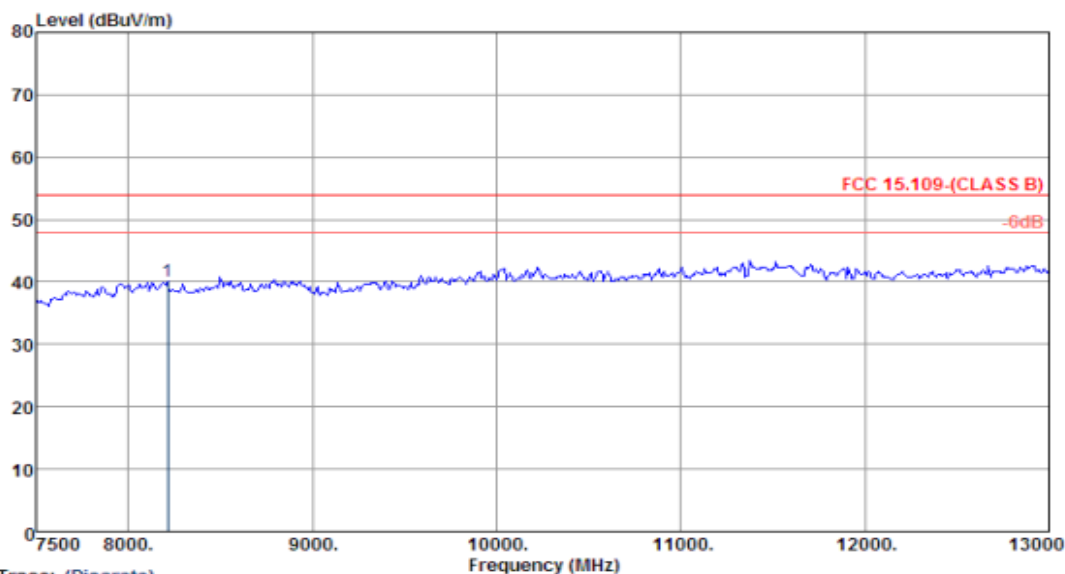
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 1
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011

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

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 p	8215.00	25.88	37.08	32.28	9.36	14.16	40.04	54.00	-13.96 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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No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五工路 134 號

台灣檢驗科技股份有限公司

t (886-2) 2299-3279

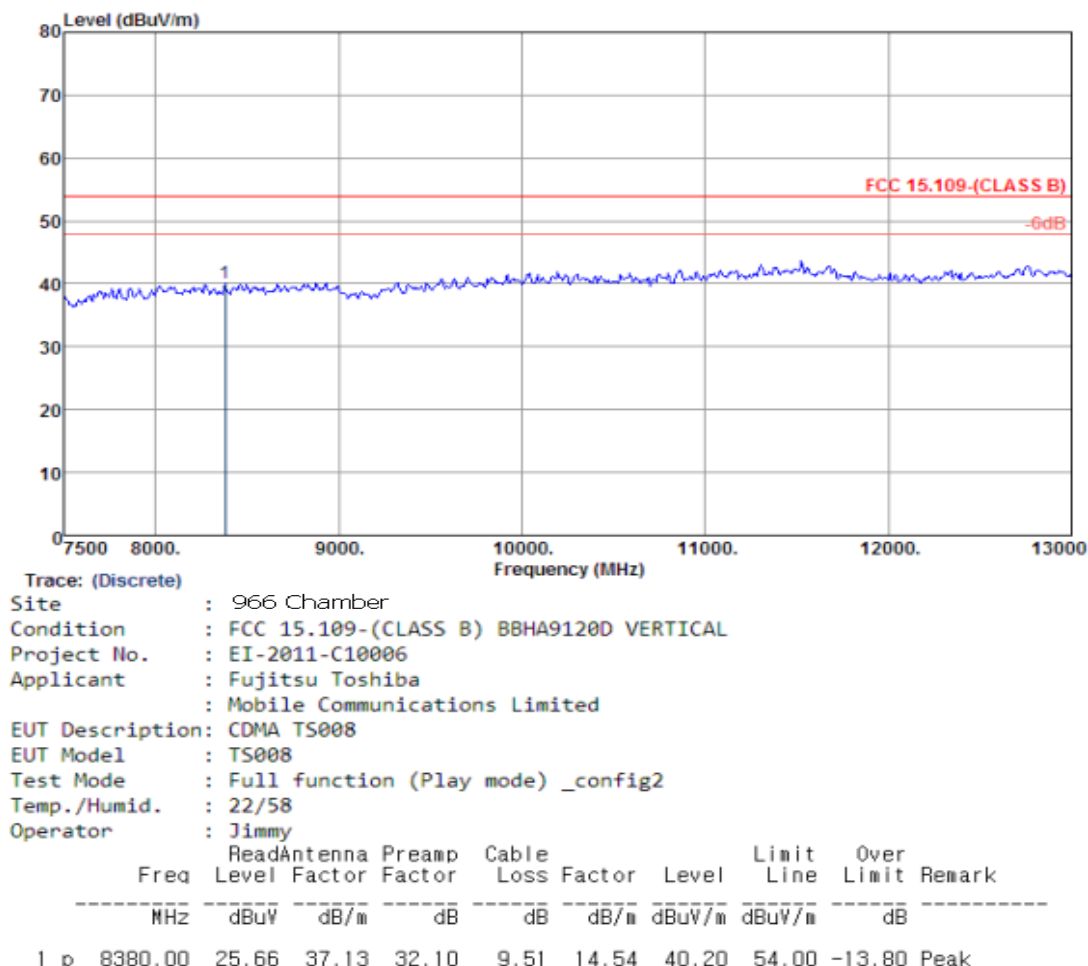
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Test Mode: Config 2
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011
Test By: Nick



Remark :

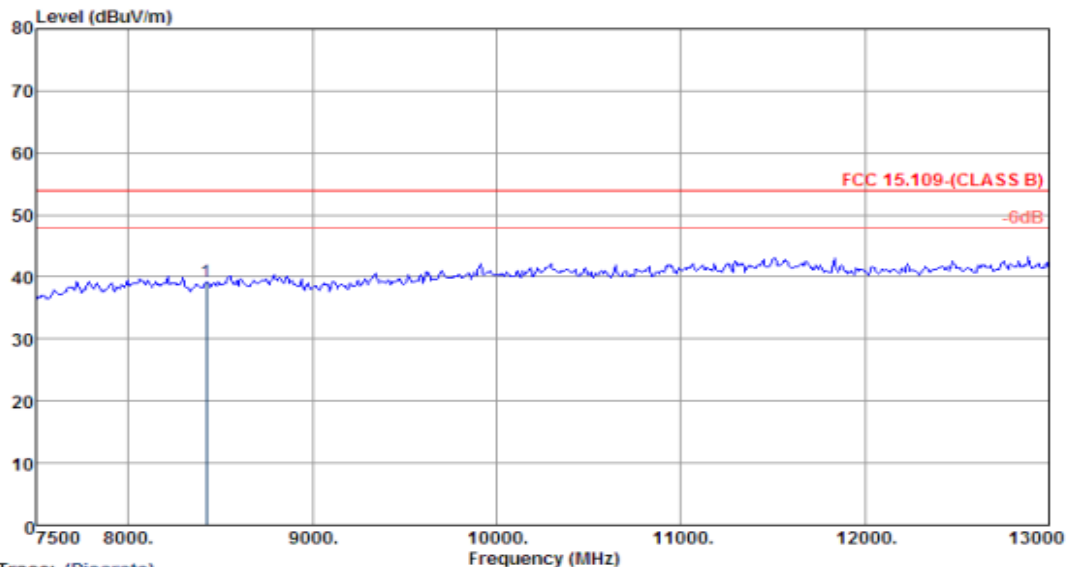
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 2
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011

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

	Freq	Read Level	Antenna Factor	Preamplifier	Cable Loss	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	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

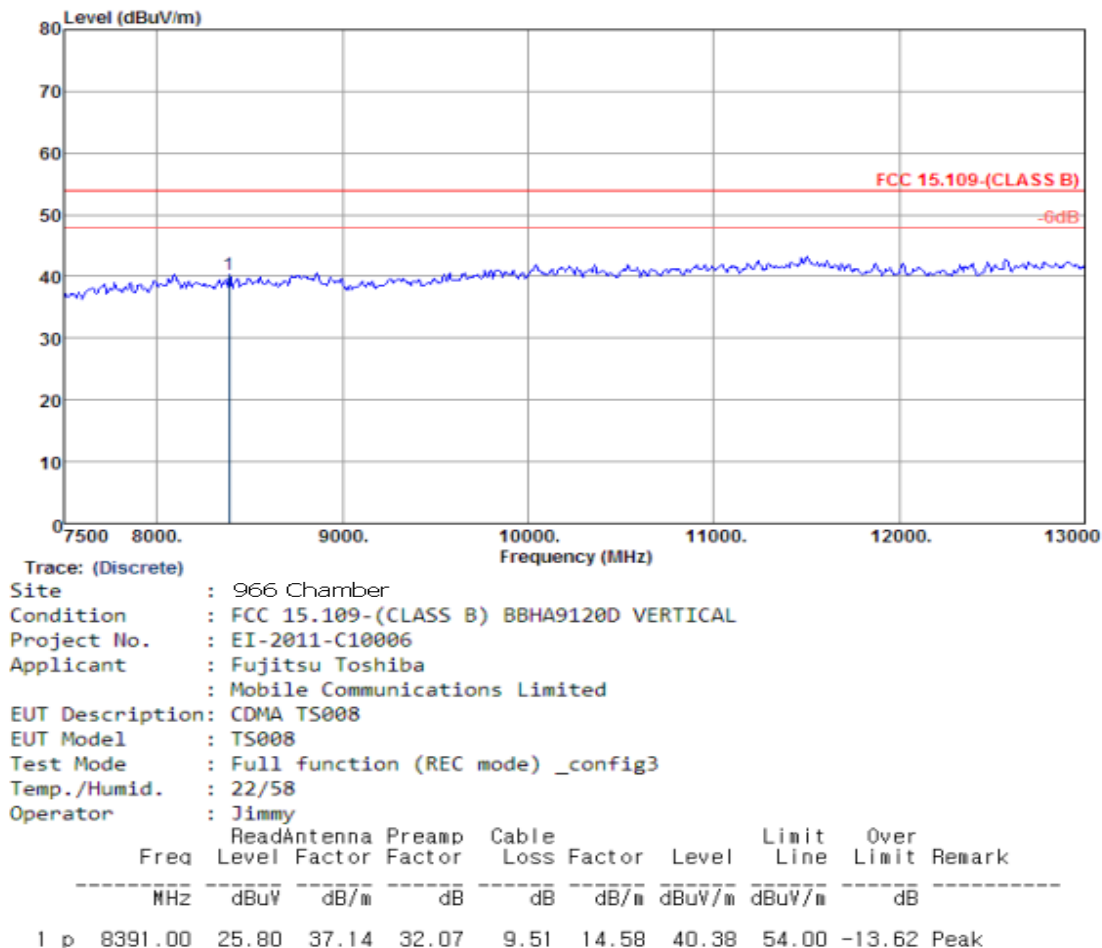
Remark :

- (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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Test Mode: Config 3
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011
Test By: Nick



Remark :

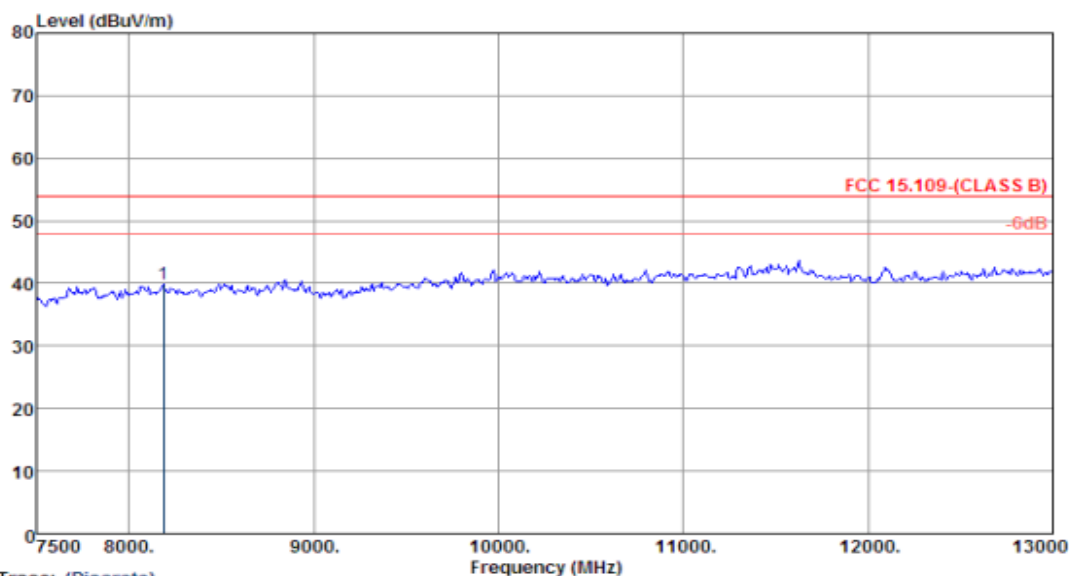
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 3
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011

Test By: Nick



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) _config3
Temp./Humid. : 22/58
Operator : Jimmy

	Freq	Read Level	Antenna Factor	Preamplifier	Cable Loss	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p	8187.50	25.69	37.08	32.30	9.34	14.12	39.81	54.00	-14.19	Peak

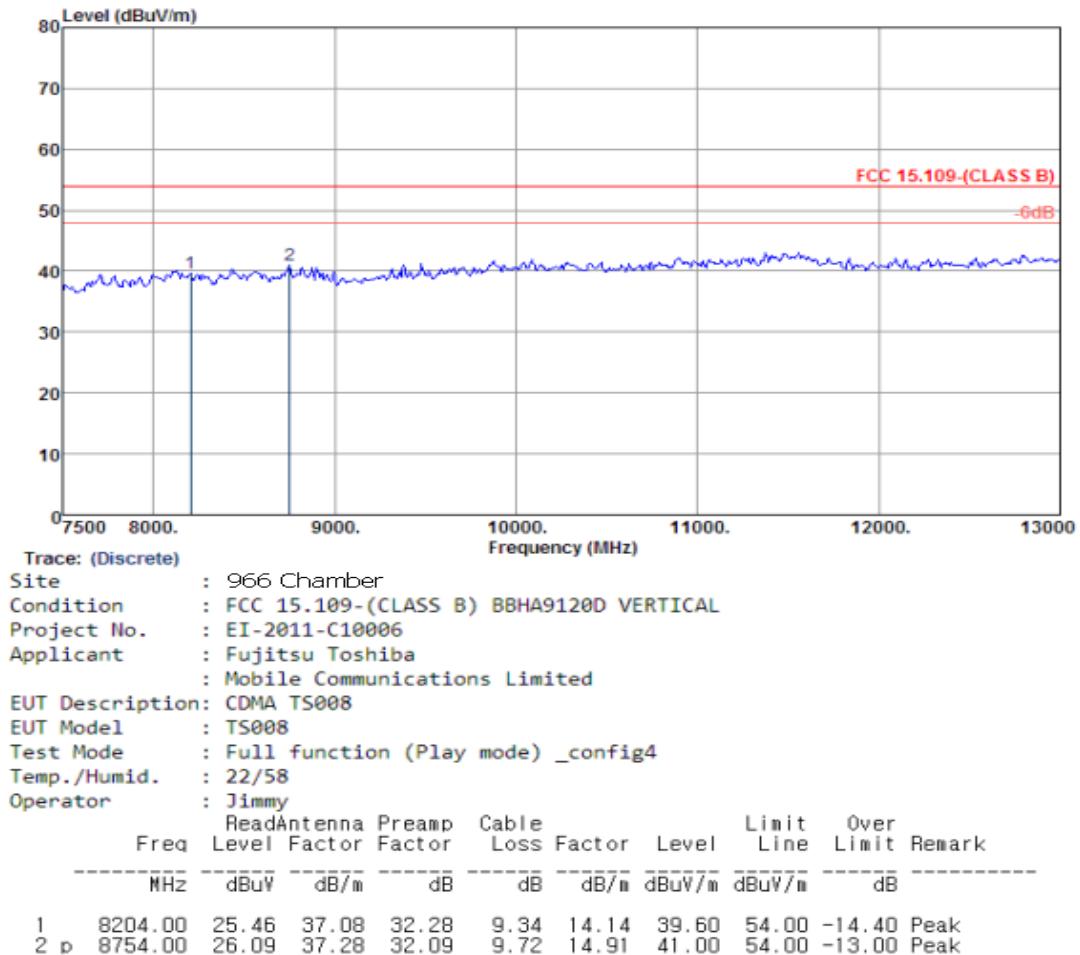
Remark :

- (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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Test Mode: Config 4
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011
Test By: Nick



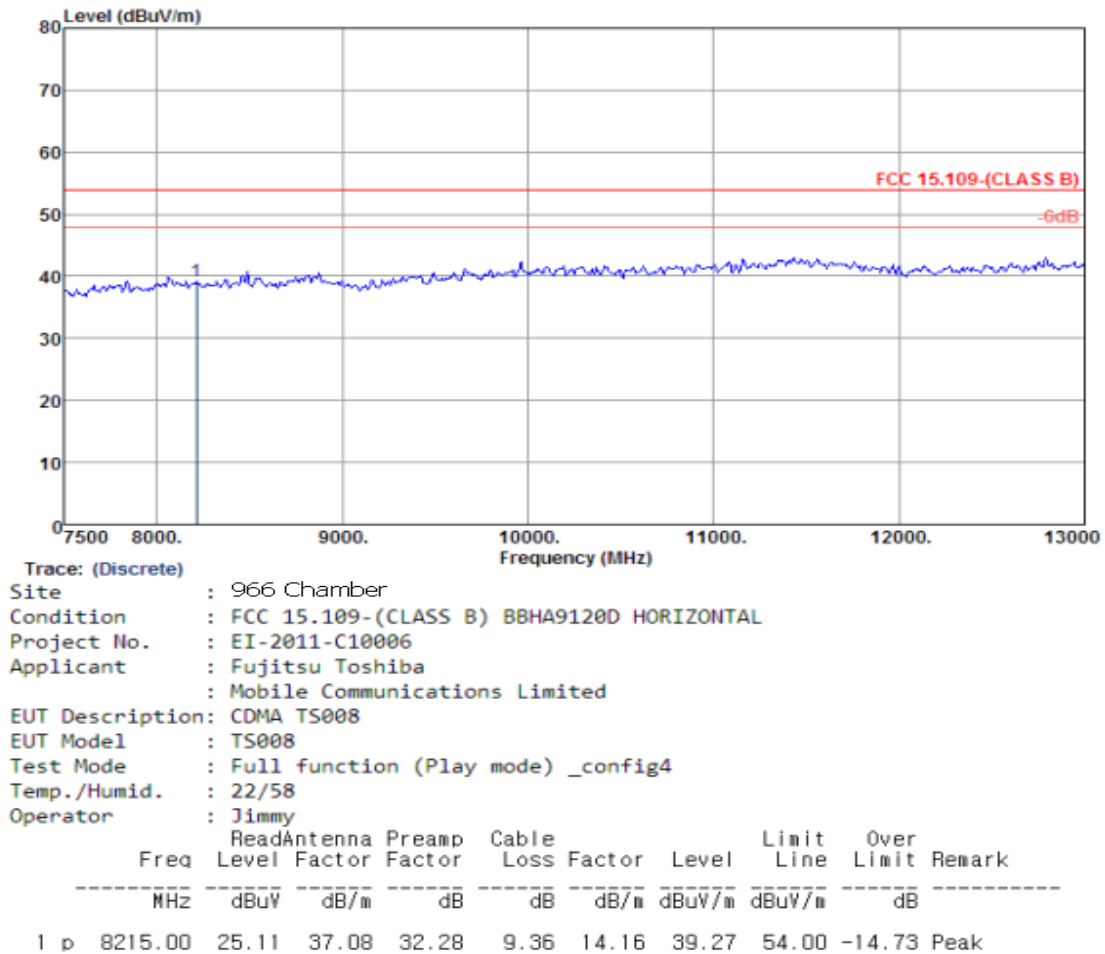
Remark :

- (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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Test Mode: Config 4
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011
Test By: Nick



Remark :

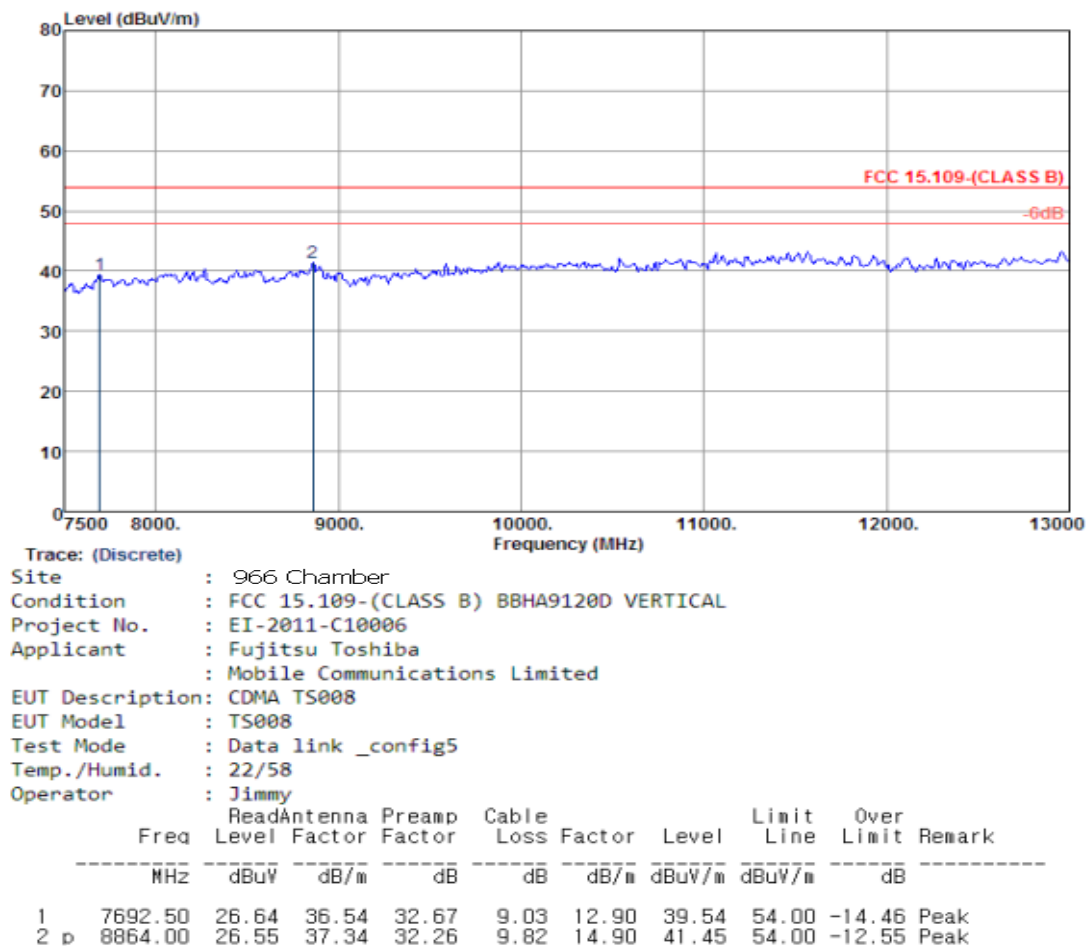
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 5
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011

Test By: Nick



Remark :

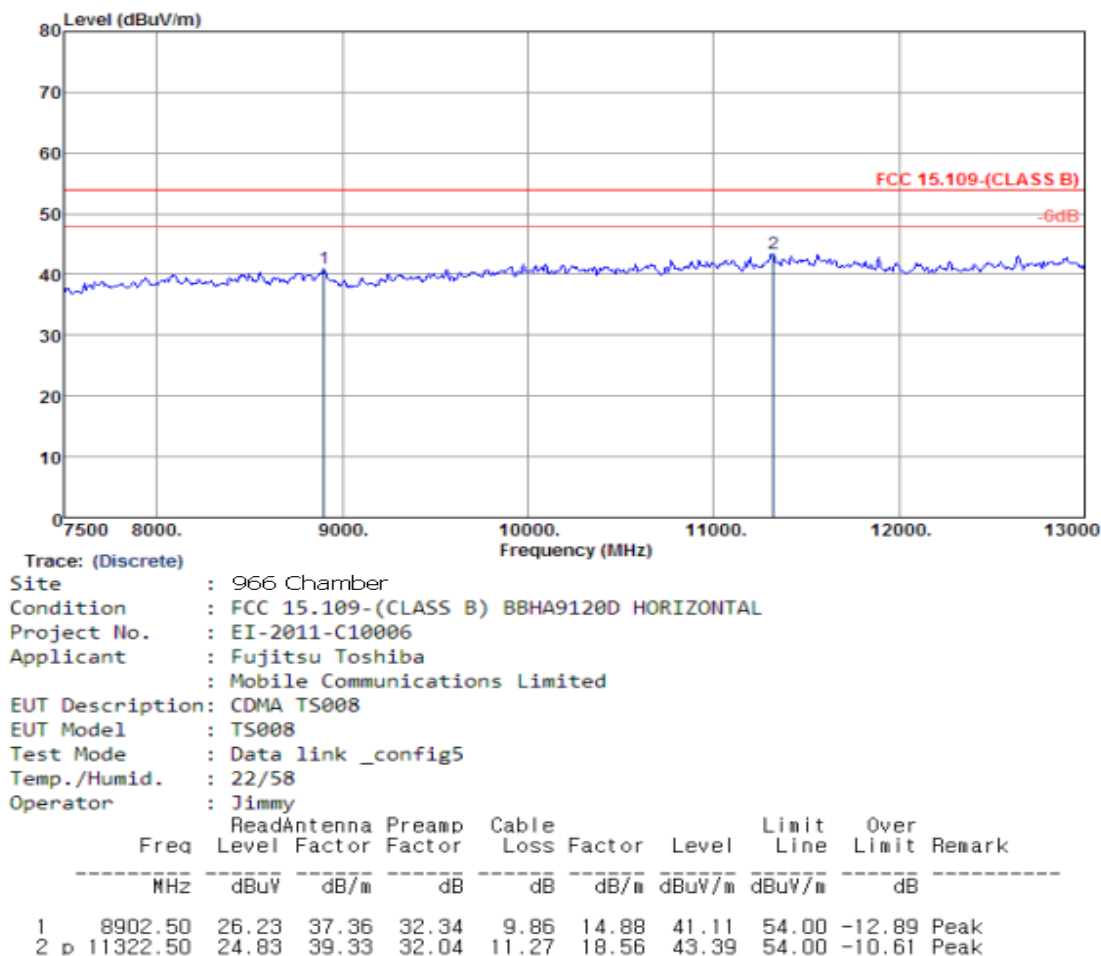
- (1) All Readings above 1GHz are Peak and Average measurement as necessary.
- (2) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz and 7.5GHz to 13GHz was 1MHz

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Test Mode: Config 5
Frequency Range: 7.5GHz – 13GHz

Test Date : Jan. 20, 2011

Test By: Nick



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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