

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: CDMA TSX05

FCC ID: WVS-CN11-J01

Report No.: EI/2010/40014

Issue Date: May 24, 2010

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Toshiba Corporation, Mobile Communications
Co., Quality Management Division
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VERIFICATION OF COMPLIANCE

Applicant: Toshiba Corporation, Mobile Communications Co.,
Quality Management Division
1-1, Asahigaoka 3-Chome, Hino-Shi, Tokyo, 191-8555, Japan

Product Name: CDMA TSX05

FCC ID: WVS-CN11-J01

File Number: EI/2010/40014

Date of test: Apr. 26, 2010~ May 13, 2010

Date of EUT Received: Apr. 26, 2010

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:

Bear Huang

Date:

May 24, 2010

Bear Huang / Engineer

Prepared By:

Eva Kao

Date:

May 24, 2010

Eva Kao / Asst. Supervisor

Approved By:

Vincent Su

Date:

May 24, 2010

Vincent Su / Manager

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Version

Version No.	Date	Description
00	May 24, 2010	Initial creation of document

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1. GENERAL INFORMATION

General:

Product Name:	CDMA TSX05		
FCC ID:	WVS-CN11-J01		
Software Version:	N/A		
Hardware Version:	Ver.1.5.0		
Data Cable:	N/A		
Simple Hands-free (SHF)	N/A		
Power Supply:	3.7 Vdc re-chargeable battery or 5Vdc by AC/DC power adapter		
	Battery:	Model: 53TSUAA; Supplier: SANYO Electric	
	Adapter:	Model: 0202PQA; Supplier: MITSUMI ELECTRIC	

GSM and CDMA:

GSM and CDMA:				
	Operating Frequency			Rated Power
Cellular Phone Standards Frequency Range and Power:	CDMA2000 Cellular	TX:	824.70-848.31 MHz	24.5 dBm
		RX:	869.70-893.31 MHz	
	GSM/GPRS 900, Class 10	880.2MHz – 914.8MHz		33 dBm
	GSM/GPRS 1800, Class 10	1710.2MHz-1784.8MHz		30 dBm
	GSM/GPRS 1900, Class 10	1850.2MHz – 1909.8MHz		29 dBm
IMEI:	990000256806805			

Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
DCS 1900	3.7Vdc	485
CDMA Cellular	3.7Vdc	1010

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Bluetooth:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Channel number:	79 channels
Transmit Power:	3.95 dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum
Antenna Designation:	PIFA Antenna / antenna gain: -0.6dBi

The EUT is compliance with Bluetooth 2.1 + EDR Standard.

FeliCa Receive Frequency:	13.56MHz
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The FeliCa only support receiving function.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: WVS-CN11-J01 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-1

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 through CMU200, Bluetooth Headset and Data Link mode with Notebook.

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.

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

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2.5 Configuration of Tested System

Fig. 1-1 Configuration of Tested System (config 1)

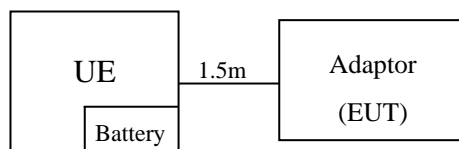


Fig. 1-2 Configuration of Tested System (config 2)

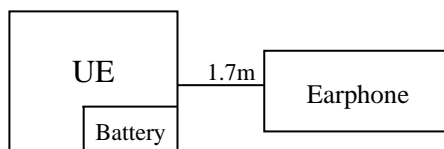


Fig. 1-3 Configuration of Tested System (config 3)

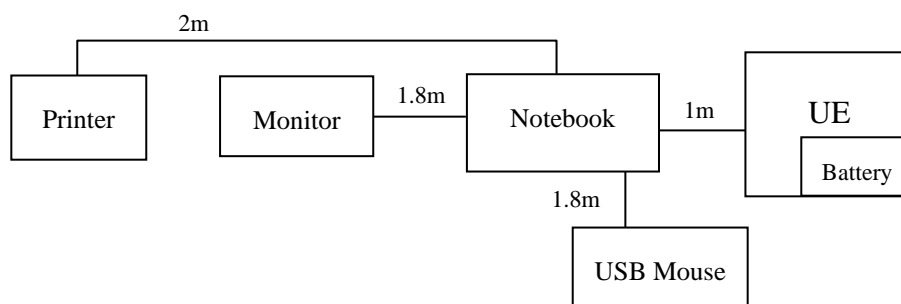


Fig. 1-4 Configuration of Tested System (Remote Side)



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Table 1-1 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	L3DK794	DoC	N/A	Un-shielded
2.	Radio Communication Analyzer	R&S	CMU200	102189	N/A	N/A	Un-shielded
3.	Bluetooth Headphone	BlueExpert	BES102	N/A	N/A	N/A	N/A
4.	Monitor	HP	Vf51	R33001	DoC	1.8 Un-shielded	Un-shielded
5.	USB Mouse	HP	MO19UCA	020506990	N/A	1.8m Un-shielded	N/A
6.	Printer	HP	DJ3820	CN34L181B1	N/A	2m, Un-Shielded	Un-shielded
7.	Earphone	Hoshiden	HDH0669-010 221	N/A	N/A	1.7m 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:

	Config 1	Config 2	Config 3
Applicable standard (FCC)	Part 15B		
Accessories	UE + Battery + AC Adaptor	UE + Battery + SHF	UE + Battery + Data Cable
Description	Video	Music	Data Cable
radiated emission	Charge + REC mode	Play mode	Data link
conducted emission (AC Power)	Charge + REC mode	N/A	Data link

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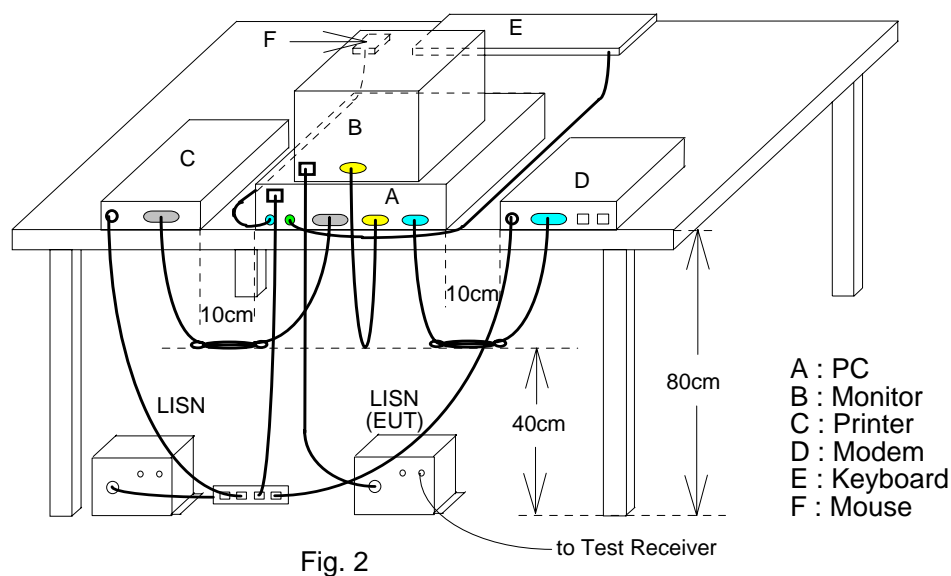
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5. Conducted Emissions Test

5.1 Measurement Procedure:

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

5.2 Test SET-UP (Block Diagram of Configuration)



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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	09/15/2009	09/14/2010
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	11/28/2009	11/27/2010

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.

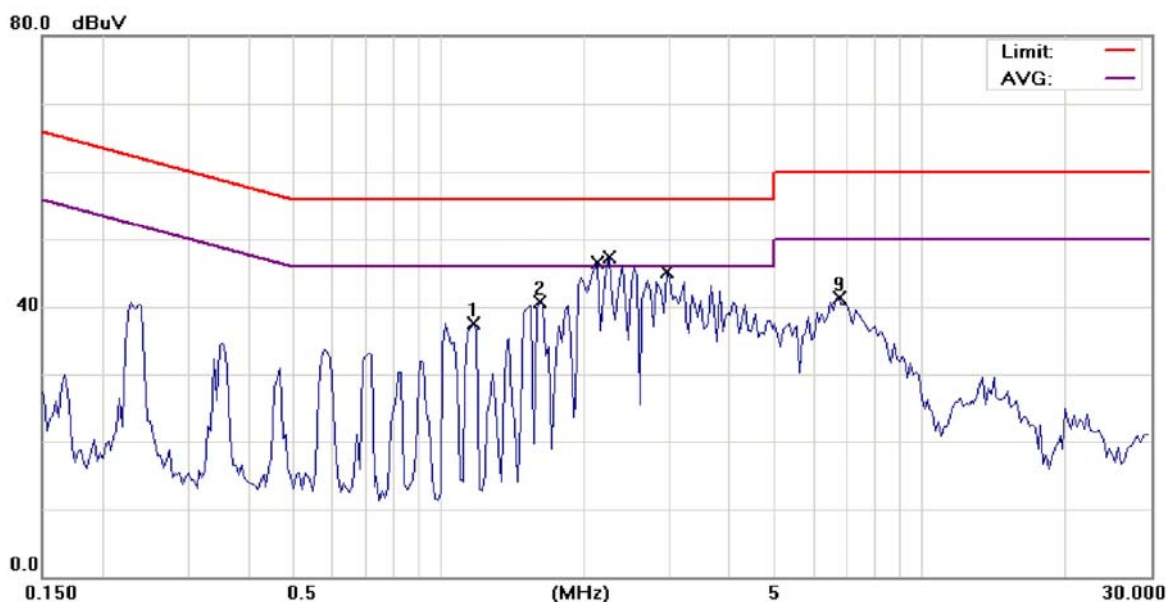
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Apr. 30, 2010
		Test By:	Bear



Site SGS CONDUCTED #1

Phase: L1

Temperature: 22 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Mobile Phone

Distance:

Air Pressure: hpa

M/N: KD54

Note: Charge + REC mode_config1

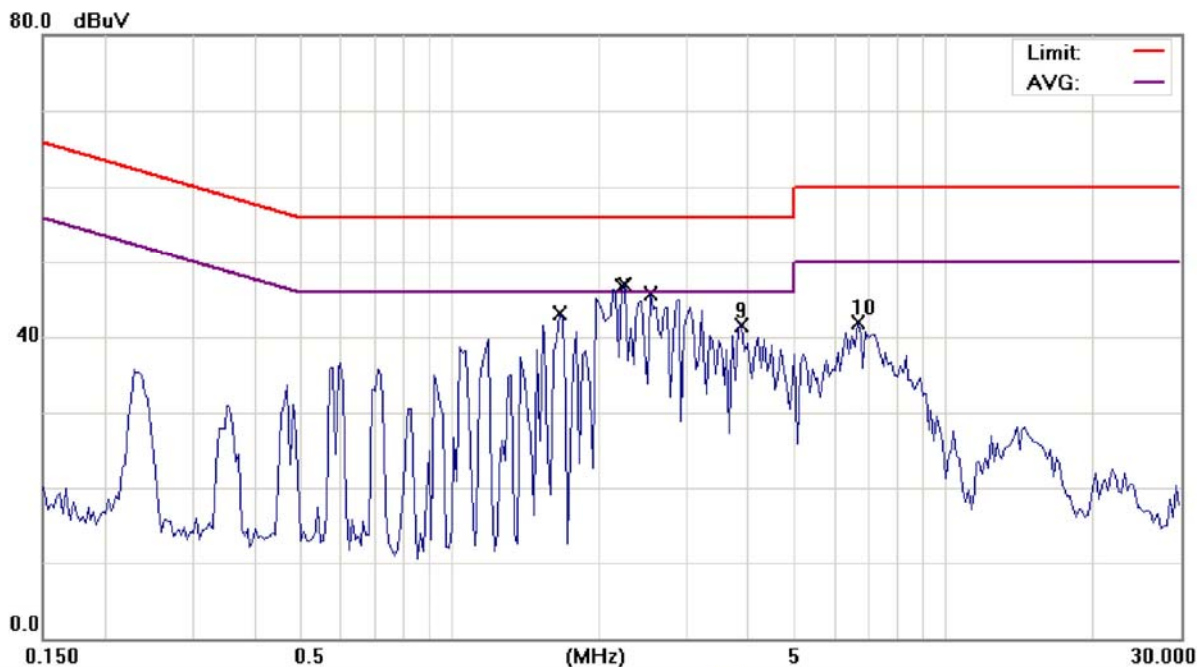
IMEI : 990000256806813

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1.1844	37.45	0.13	37.58	56.00	-18.42	peak	
2		1.6276	40.65	0.15	40.80	56.00	-15.20	peak	
3		2.1747	43.10	0.16	43.26	56.00	-12.74	QP	
4		2.1747	24.30	0.16	24.46	46.00	-21.54	AVG	
5	*	2.3026	44.80	0.17	44.97	56.00	-11.03	QP	
6		2.3026	24.10	0.17	24.27	46.00	-21.73	AVG	
7		2.9920	29.50	0.18	29.68	56.00	-26.32	QP	
8		2.9920	14.10	0.18	14.28	46.00	-31.72	AVG	
9		6.8051	41.09	0.31	41.40	60.00	-18.60	peak	

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Site SGS CONDUCTED #1
Limit: FCC Class B Conduction(QP)
EUT: Mobile Phone
M/N: KD54
Note: Charge + REC mode_config1
IMEI : 990000256806813

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

Temperature: 22 °C
Humidity: 58 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		1.7021	40.20	0.15	40.35	56.00	-15.65	QP	
2		1.7021	19.50	0.15	19.65	46.00	-26.35	AVG	
3		2.1774	42.80	0.16	42.96	56.00	-13.04	QP	
4		2.1774	24.50	0.16	24.66	46.00	-21.34	AVG	
5	*	2.3034	44.30	0.17	44.47	56.00	-11.53	QP	
6		2.3034	25.80	0.17	25.97	46.00	-20.03	AVG	
7		2.5764	40.50	0.17	40.67	56.00	-15.33	QP	
8		2.5764	17.30	0.17	17.47	46.00	-28.53	AVG	
9		3.9014	41.21	0.20	41.41	56.00	-14.59	peak	
10		6.7155	41.53	0.30	41.83	60.00	-18.17	peak	

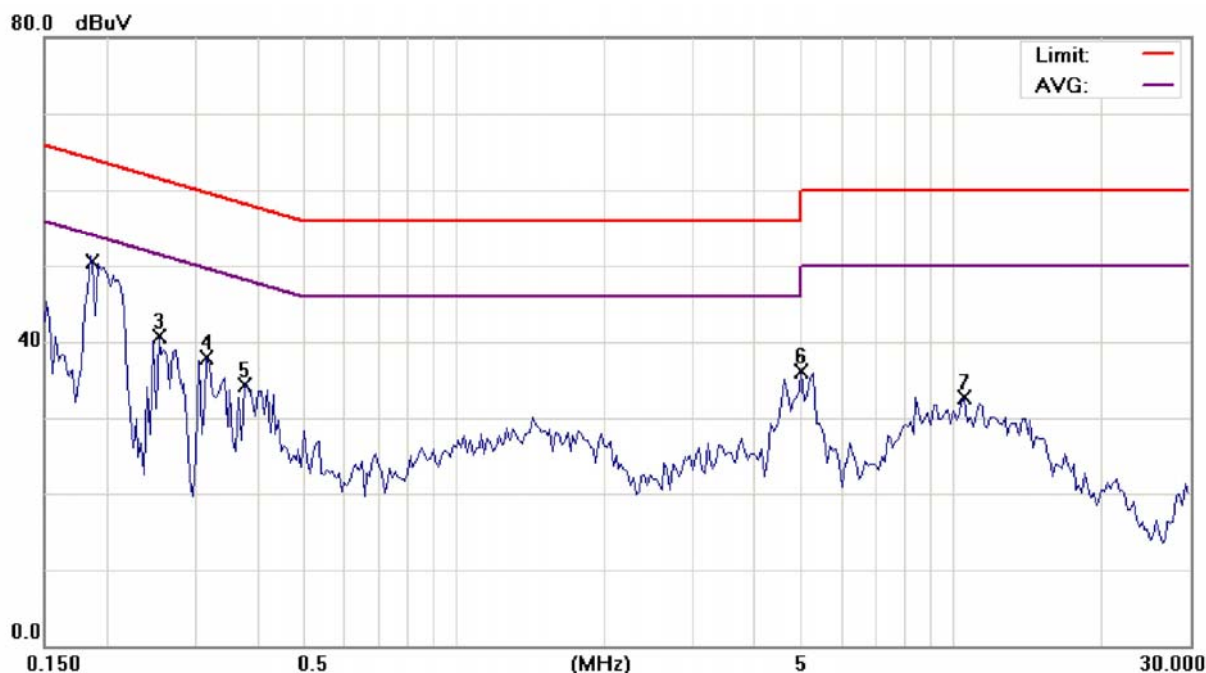
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Apr. 30, 2010
		Test By:	Bear



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Mobile Phone

M/N: KD54

Note: Data link_config3

IMEI : 990000256806813

Phase: L1

Power: AC 120V/60Hz

Distance:

Temperature: 22 °C

Humidity: 58 %

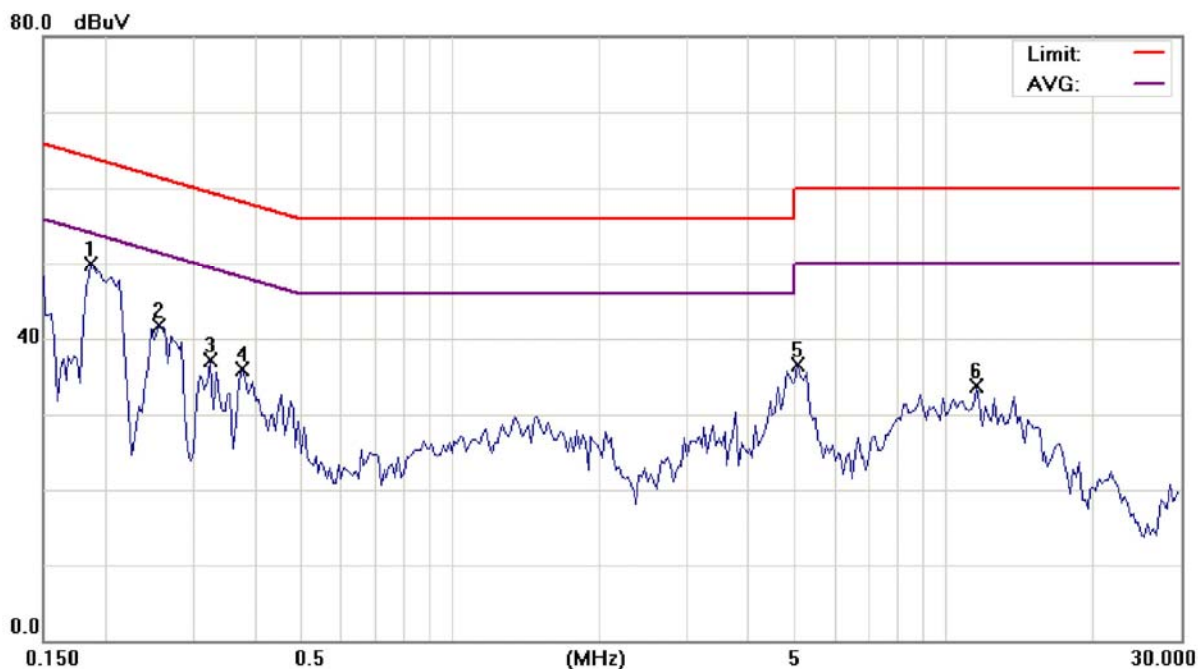
Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1912	46.50	0.12	46.62	63.98	-17.36	QP	
2		0.1912	30.20	0.12	30.32	53.98	-23.66	AVG	
3		0.2548	40.50	0.12	40.62	61.60	-20.98	peak	
4		0.3191	37.76	0.12	37.88	59.73	-21.85	peak	
5		0.3791	34.25	0.12	34.37	58.30	-23.93	peak	
6		5.0179	35.80	0.22	36.02	60.00	-23.98	peak	
7		10.6763	32.12	0.53	32.65	60.00	-27.35	peak	

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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 22 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 58 %

EUT: Mobile Phone

Distance:

Air Pressure: hpa

M/N: KD54

Note: Data link _config3

IMEI : 990000256806813

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1879	49.79	0.13	49.92	64.13	-14.21	peak	
2		0.2582	41.66	0.13	41.79	61.49	-19.70	peak	
3		0.3277	36.98	0.12	37.10	59.51	-22.41	peak	
4		0.3791	35.71	0.12	35.83	58.30	-22.47	peak	
5		5.0848	36.32	0.22	36.54	60.00	-23.46	peak	
6		11.7135	33.16	0.51	33.67	60.00	-26.33	peak	

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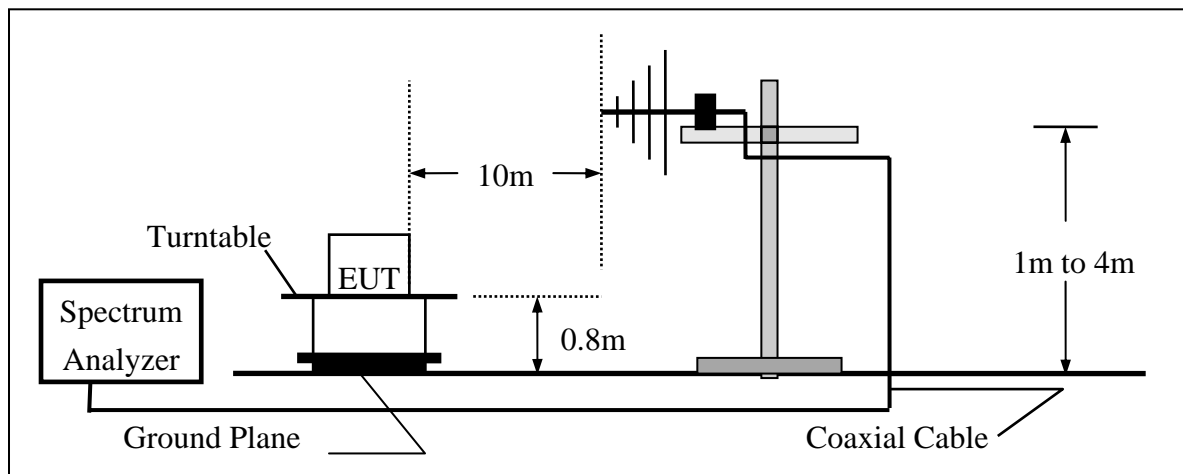
6. Radiated Emission Test

6.1 Measurement Procedure

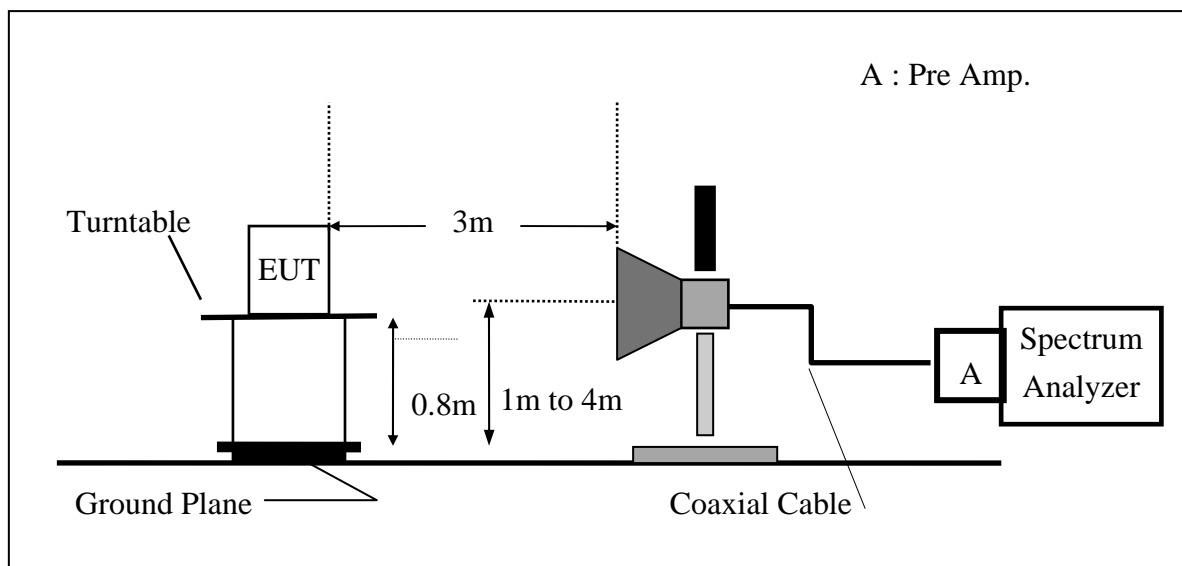
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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	11/30/2009	11/29/2010
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	03/11/2010	03/02/2011
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	11/30/2009	11/29/2010

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	02/12/2010	02/11/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	03/09/2009	03/08/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/27/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011

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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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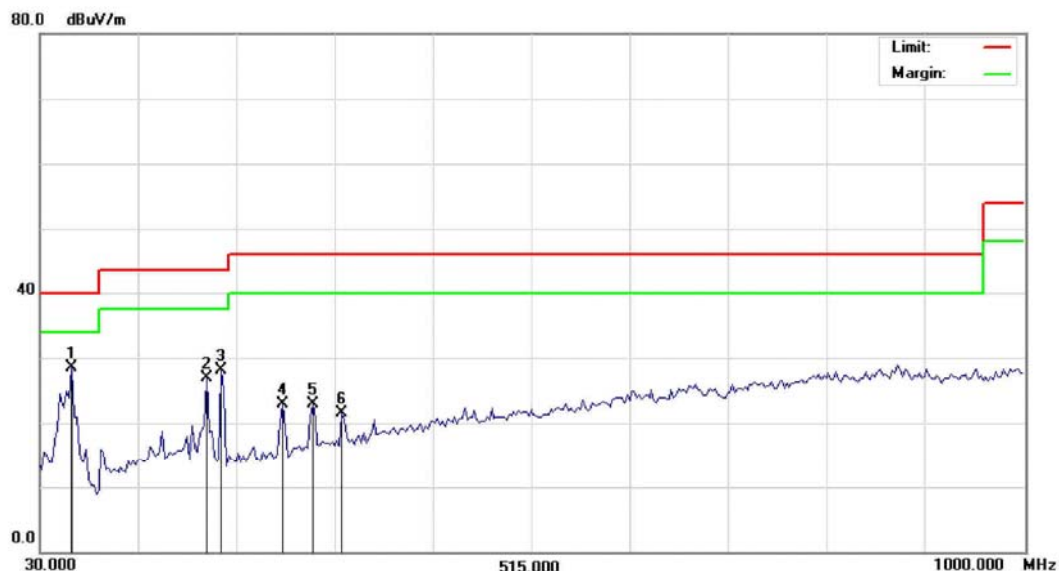
6.5 Measurement Result (below 1G)

Test Mode: Config 1

Test Date : Apr. 30, 2010

Frequency Range: 30MHz-1GHz

Test By: Bear



Site : 966 Chamber

Polarization: **Vertical**

Temperature: 26 °C

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60%

EUT: MobilePhone

Distance: 3m

Air Pressure: hpa

M/N: KD54

Note: Charge + REC mode_config1

IMEI : 990000256806813

No.	Mk.	Freq.	Reading Level	Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	61.5250	42.90	-14.45	28.45	40.00	-11.55	QP	
2		194.9000	41.33	-14.46	26.87	43.50	-16.63	QP	
3		209.4500	42.37	-14.31	28.06	43.50	-15.44	QP	
4		270.0750	35.12	-12.22	22.90	46.00	-23.10	QP	
5		299.1750	34.03	-11.12	22.91	46.00	-23.09	QP	
6		328.2750	32.05	-10.51	21.54	46.00	-24.46	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 and above 1GHz was 1MHz

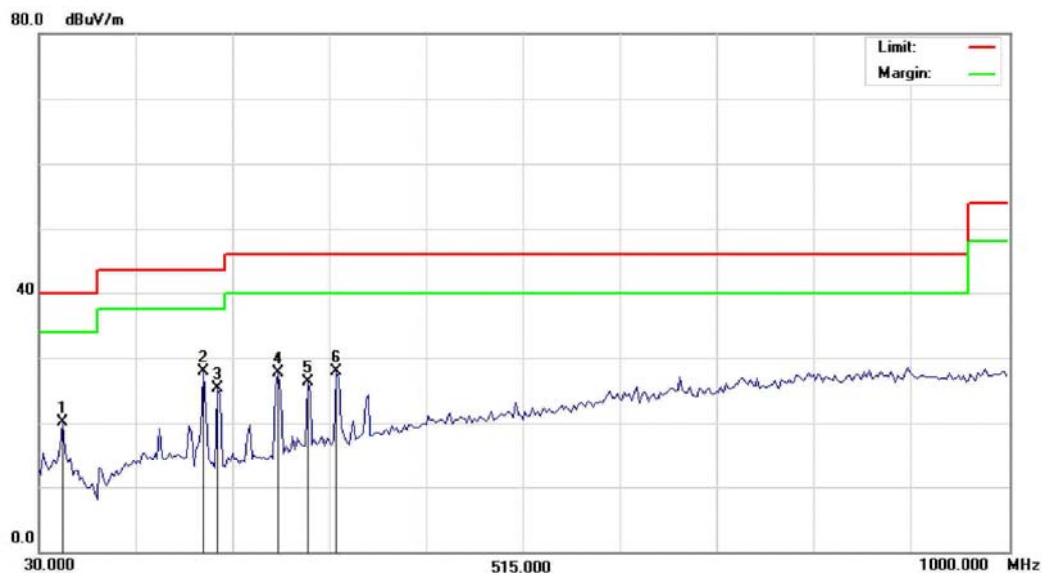
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Test Mode: Config 1
Frequency Range: 30MHz-1GHz

Test Date : Apr. 30, 2010
Test By: Bear



Site : 966 Chamber

Polarization: **Horizontal**

Temperature: 26 °C

Limit: FCC Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 60%

EUT: MobilePhone

Distance: 3m

Air Pressure: hpa

M/N: KD54

Note: Charge + REC mode _config1

IMEI : 990000256806813

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBuV	dB	ment	dBuV/m	dB	Detector	Comment
1		54.2500	34.01	-13.95	20.06	40.00	-19.94	QP	
2	*	194.9000	42.34	-14.46	27.88	43.50	-15.62	QP	
3		209.4500	39.66	-14.31	25.35	43.50	-18.15	QP	
4		270.0750	39.84	-12.22	27.62	46.00	-18.38	QP	
5		299.1750	37.40	-11.12	26.28	46.00	-19.72	QP	
6		328.2750	38.32	-10.51	27.81	46.00	-18.19	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 and above 1GHz was 1MHz

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

Test Date: Apr. 30, 2010
Test By: Bear



Site: 966 Chamber

Limit: FCC Class B 3M Radiation

EUT: MobilePhone

M/N: KD54

Note: Play mode_config2

IMEI: 990000256806813

Polarization: Vertical

Power: AC 120V/60Hz

Distance: 3m

Temperature: 26 °C

Humidity: 60%

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		54.2500	32.73	-13.95	18.78	40.00	-21.22	QP	
2		102.7500	30.42	-16.50	13.92	43.50	-29.58	QP	
3		168.2250	28.19	-12.58	15.61	43.50	-27.89	QP	
4		255.5250	29.39	-12.87	16.52	46.00	-29.48	QP	
5		354.9500	29.59	-9.88	19.71	46.00	-26.29	QP	
6	*	735.6750	28.97	-0.90	28.07	46.00	-17.93	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 and above 1GHz was 1MHz

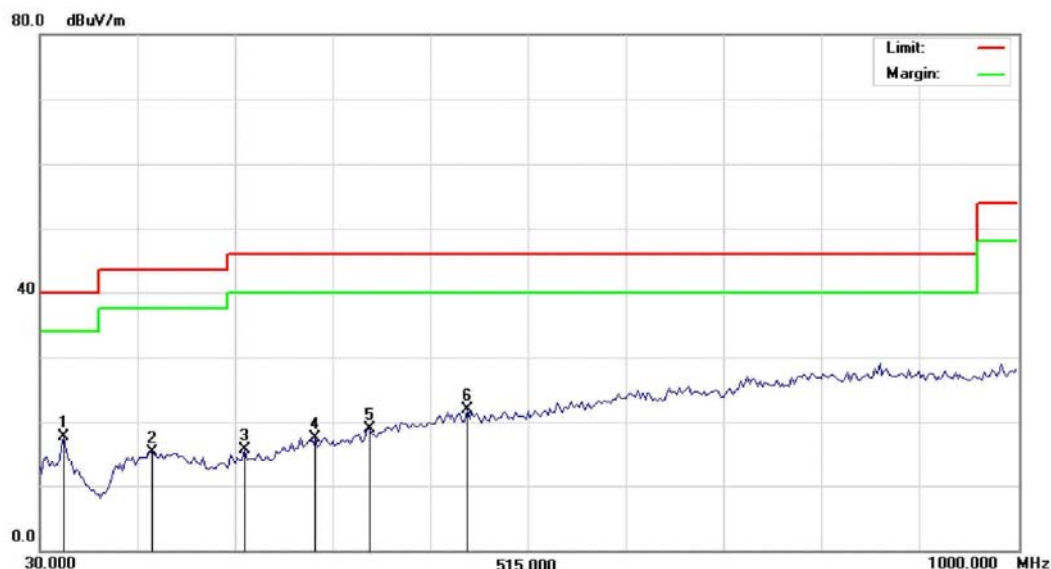
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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date: Apr. 30, 2010
Test By: Bear



Site: 966 Chamber
Limit: FCC Class B 3M Radiation
EUT: MobilePhone
M/N: KD54
Note: Play mode_config2
IMEI: 990000256806813

Polarization: **Horizontal**
Power: AC 120V/60Hz
Distance: 3m

Temperature: 26 °C
Humidity: 60%
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	54.2500	31.64	-13.95	17.69	40.00	-22.31	QP	
2		141.5500	27.73	-12.37	15.36	43.50	-28.14	QP	
3		233.7000	28.93	-13.29	15.64	46.00	-30.36	QP	
4		304.0250	28.61	-11.01	17.60	46.00	-28.40	QP	
5		357.3750	28.70	-9.80	18.90	46.00	-27.10	QP	
6		454.3750	28.99	-7.04	21.95	46.00	-24.05	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 and above 1GHz was 1MHz

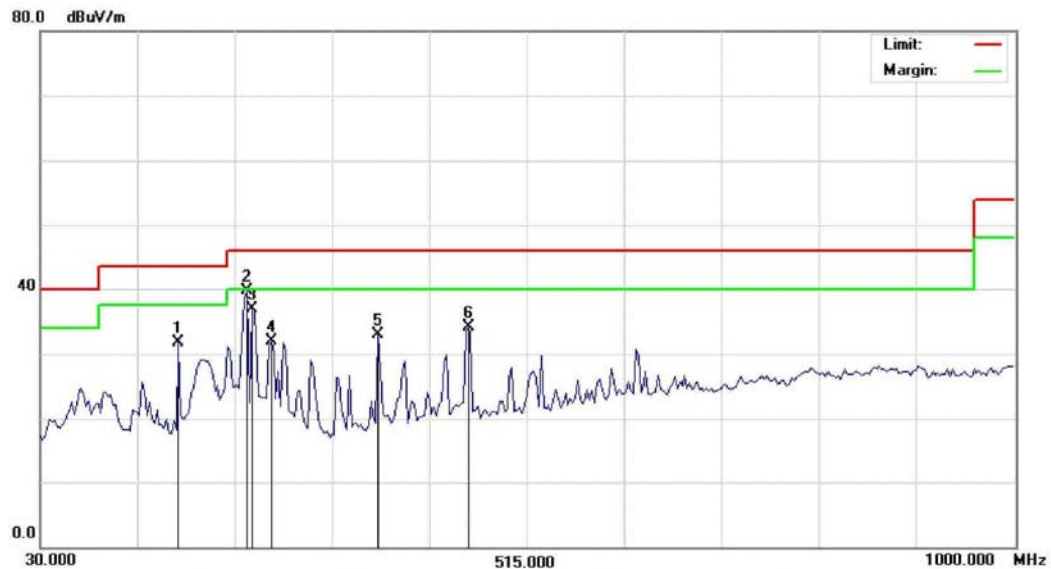
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Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date : Apr. 30, 2010
Test By: Bear



Site : 966 Chamber
Limit: FCC Class B 3M Radiation
EUT: MobilePhone
M/N: KD54
Note: Data link_config3
IMEI : 990000256806813

Polarization: **Vertical**
Power: AC 120V/60Hz
Distance: 3m

Temperature: 26 °C
Humidity: 60%
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		168.2250	44.34	-12.58	31.76	43.50	-11.74	QP	
2	*	236.1250	52.91	-13.27	39.64	46.00	-6.36	QP	
3		240.9750	50.07	-13.20	36.87	46.00	-9.13	QP	
4		260.3750	44.60	-12.74	31.86	46.00	-14.14	QP	
5		367.0750	42.44	-9.49	32.95	46.00	-13.05	QP	
6		456.8000	41.08	-7.04	34.04	46.00	-11.96	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 and above 1GHz was 1MHz

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

Test Date: Apr. 30, 2010
Test By: Bear



Site: 966 Chamber

Limit: FCC Class B 3M Radiation

EUT: MobilePhone

M/N: KD54

Note: Data link_config3

IMEI: 990000256806813

Polarization: Horizontal

Power: AC 120V/60Hz

Distance: 3m

Temperature: 26 °C

Humidity: 60%

Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		233.2030	49.62	-13.30	36.32	46.00	-9.68	QP	
2	*	240.0120	54.56	-13.21	41.35	46.00	-4.65	QP	
3		260.3750	46.10	-12.74	33.36	46.00	-12.64	QP	
4		299.1750	44.96	-11.12	33.84	46.00	-12.16	QP	
5		367.0750	42.82	-9.49	33.33	46.00	-12.67	QP	
6		432.5500	40.51	-7.53	32.98	46.00	-13.02	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 and above 1GHz was 1MHz

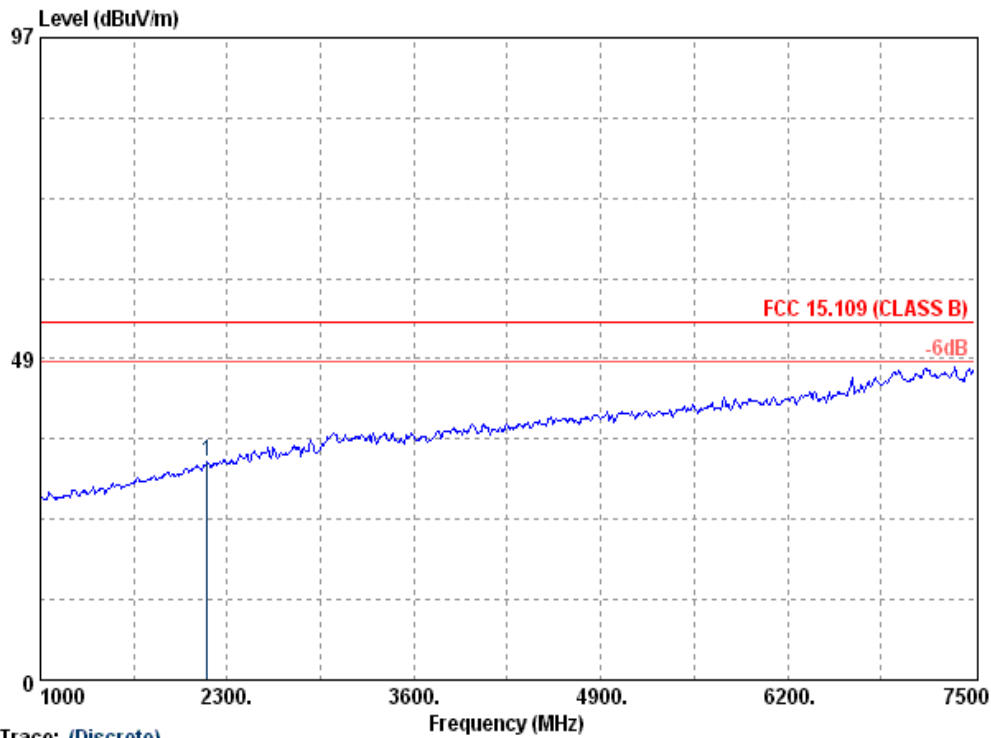
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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)

Condition : BBHA9120D VERTICAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Charge+REC Mode_Config 1
Temp./Humid. : 22/58
Operator : Bear

	Freq	Read Level	Antenna Factor	Preamplifier Factor	Cable Loss	Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2163.50	35.53	26.41	33.97	4.96	-2.60	32.93	53.98	-21.05	Peak

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 and above 1GHz was 1MHz

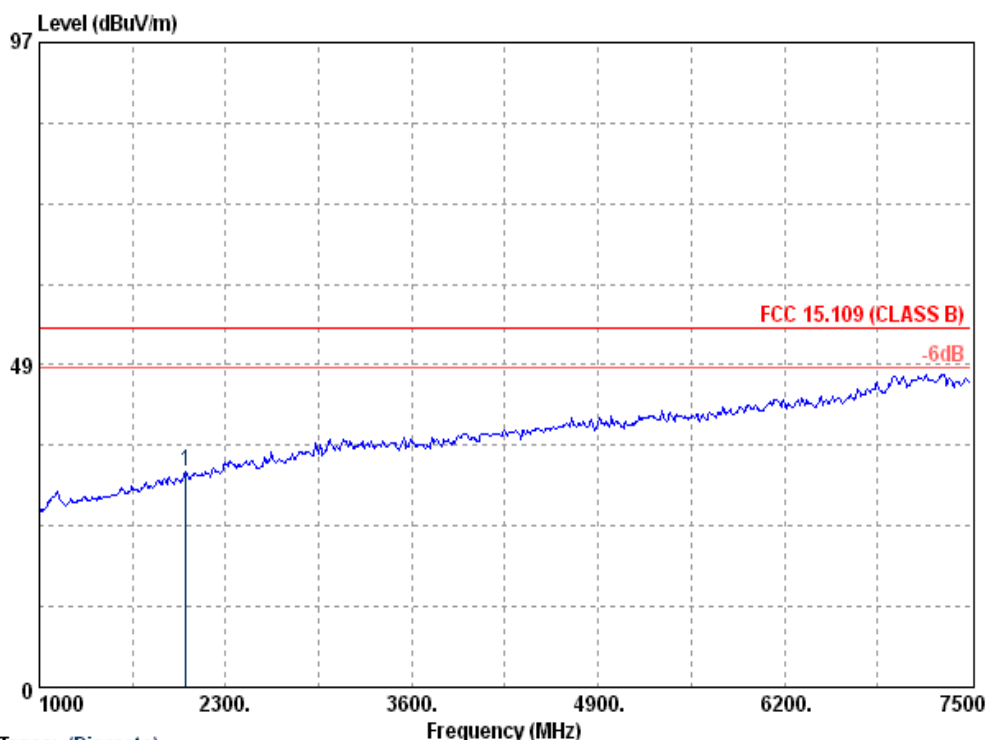
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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)

Condition : BBHA9120D HORIZONTAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Charge+REC Mode_Config 1
Temp./Humid. : 22/58
Operator : Bear

	Freq	Read	Antenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2020.50	35.67	25.95	34.07	4.78	-3.34	32.33	53.98	-21.65	Peak

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 and above 1GHz was 1MHz

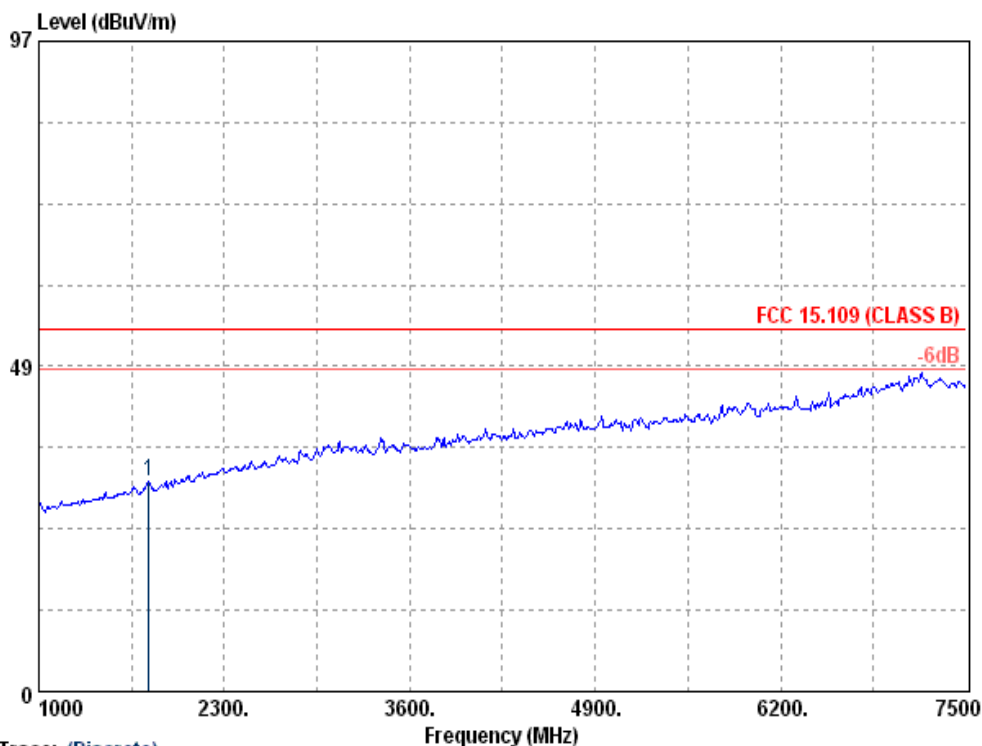
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Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)

Condition : BBHA9120D VERTICAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Play Mode_Config 2
Temp./Humid. : 22/58
Operator : Bear

	Freq	Read	Antenna	Preamp	Cable		Limit	Over	
	MHz	Level	Factor	Factor	Loss	Level	Line	Limit	Remar
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	1773.50	35.95	25.46	34.44	4.40	-4.58	31.37	53.98	-22.61 Peak

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 and above 1GHz was 1MHz

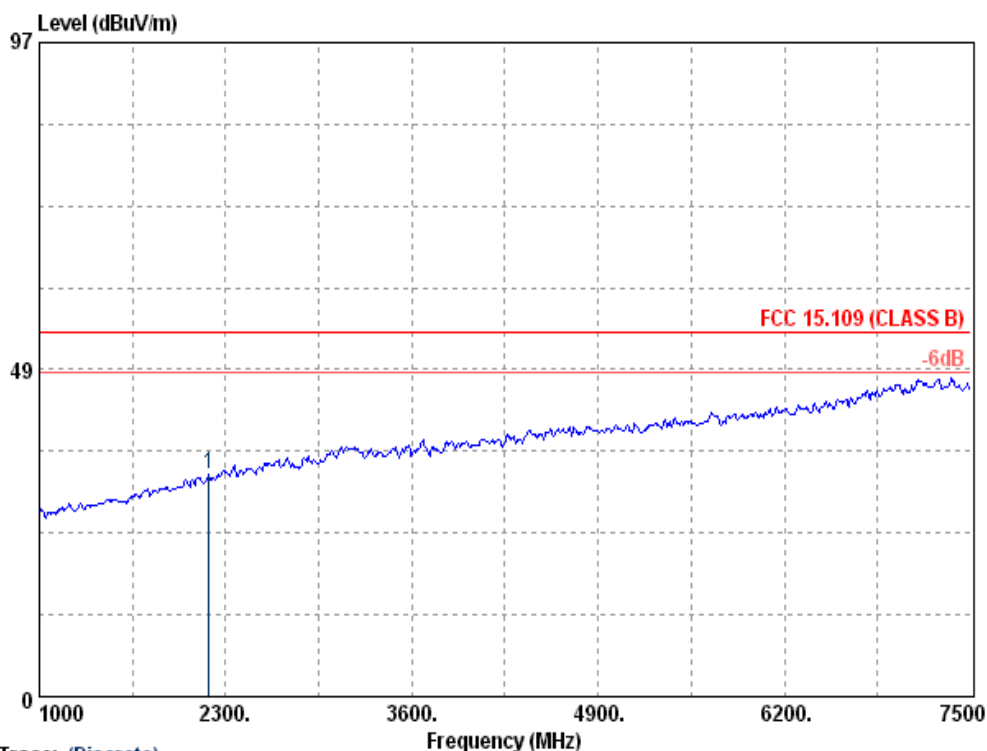
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Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)

Condition : BBHA9120D HORIZONTAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Play Mode_Config 2
Temp./Humid. : 22/58
Operator : Bear

	Freq	Read	Antenna	Preamp	Cable		Limit	Over	
	MHz	Level	Factor	Factor	Loss	Level	Line	Limit	Remar
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	2183.00	35.39	26.53	33.97	4.99	-2.45	32.94	53.98	-21.04 Peak

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 and above 1GHz was 1MHz

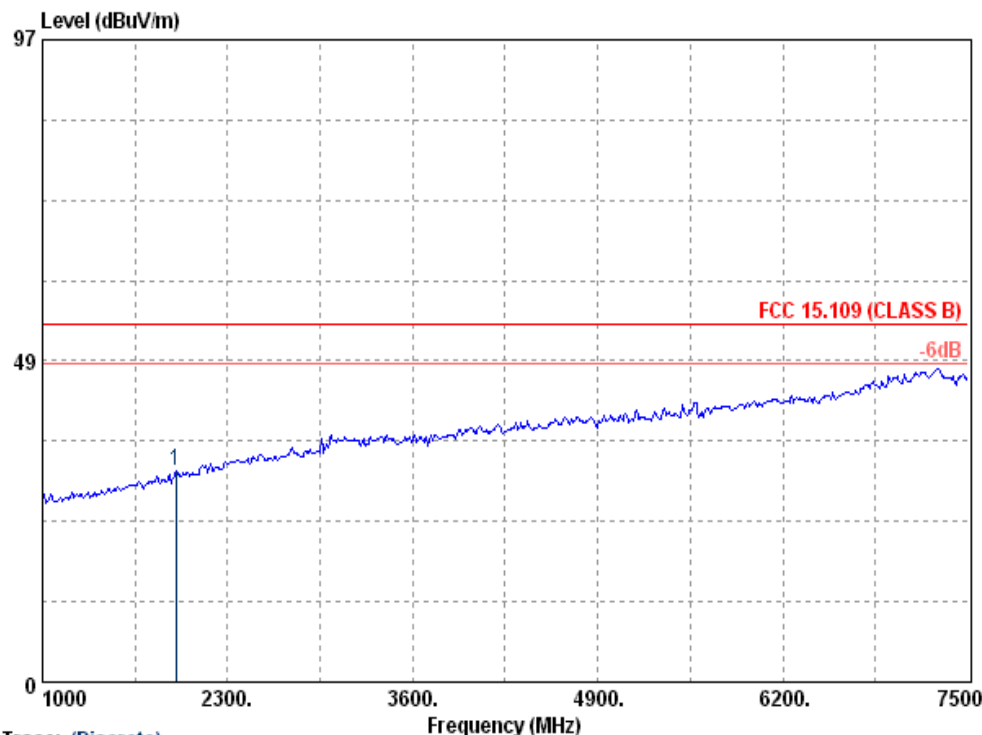
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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)
Condition : BBHA9120D VERTICAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Date Link Mode_Config 3
Temp./Humid. : 22/58
Operator : Bear

	Freq	ReadAntenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	dBuV/m	Line	Limit	Remar
		dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	1936.00	35.51	25.76	34.16	4.67	-3.73	31.78	53.98	-22.20 Peak

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 and above 1GHz was 1MHz

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

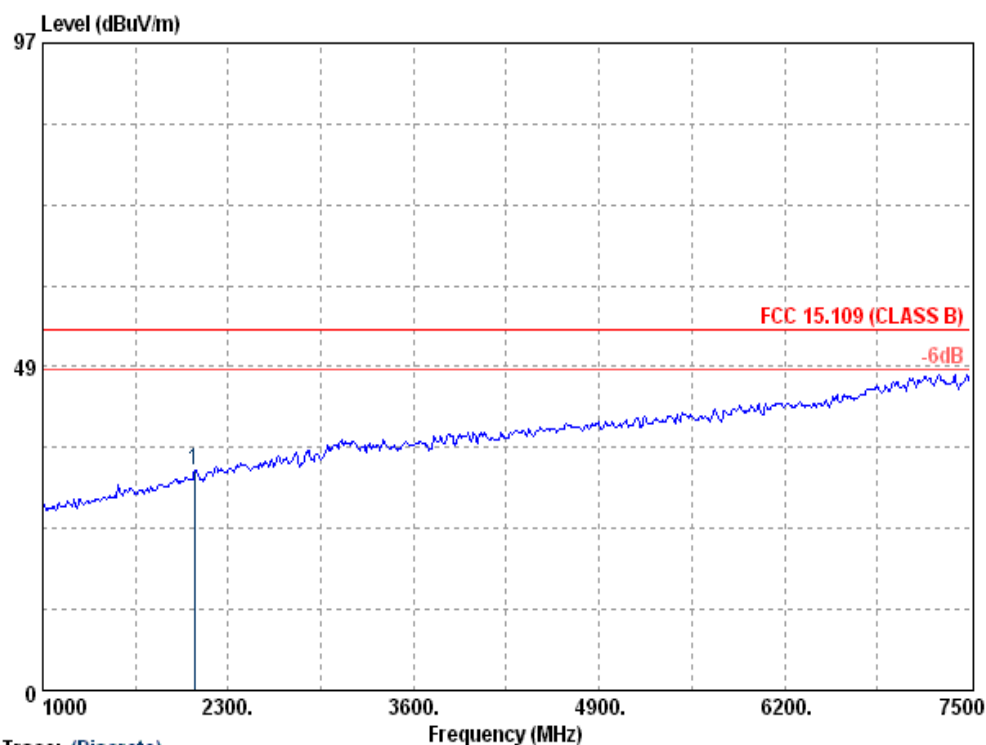
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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date: Apr. 30, 2010
Test By: Bear



Condition : BBHA9120D HORIZONTAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Data Link Mode_Config 3
Temp./Humid. : 22/58
Operator : Bear

	Freq	Read	Antenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2066.00	36.10	26.12	34.04	4.84	-3.08	33.02	53.98	-20.96	Peak

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 and above 1GHz was 1MHz

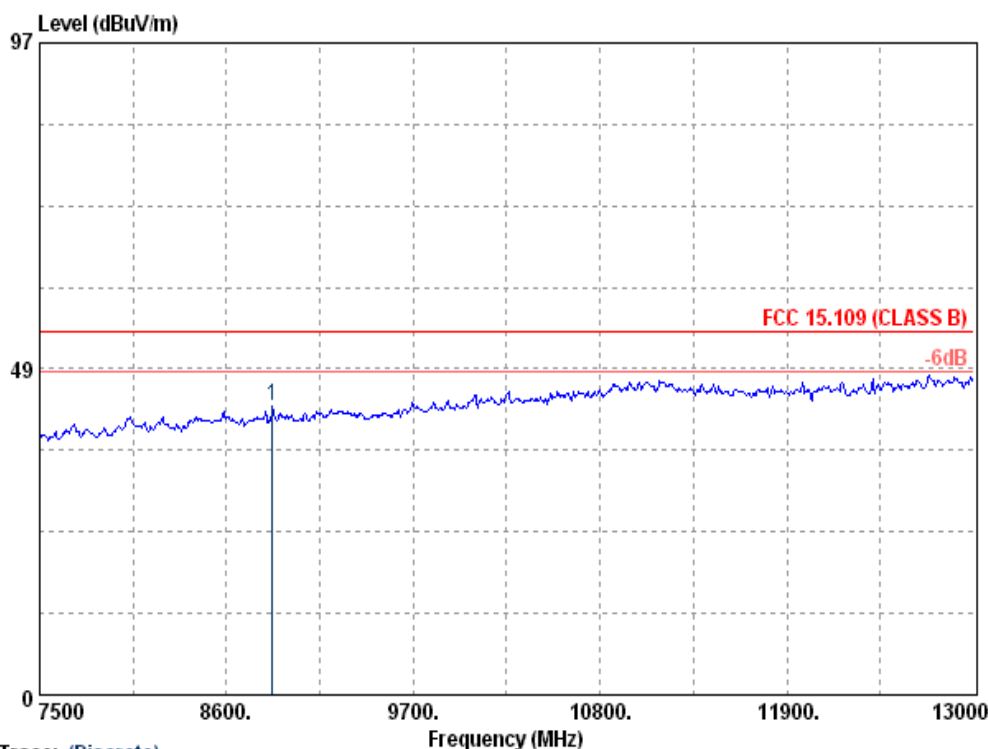
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Test Mode: Config 1
Frequency Range: 7.5GHz – 13GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)

Condition : BBHA9120D VERTICAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Charge+REC Mode_Config 1
Temp./Humid. : 22/58
Operator : Bear

	Freq	ReadAntenna	Preamp	Cable	Limit	Over		
	MHz	Level	Factor	Factor	Loss	Factor	Level	Line
		dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m
1	8869.50	28.00	37.34	33.34	11.04	15.04	43.04	53.98
								-10.94
								Peak

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 and above 1GHz was 1MHz

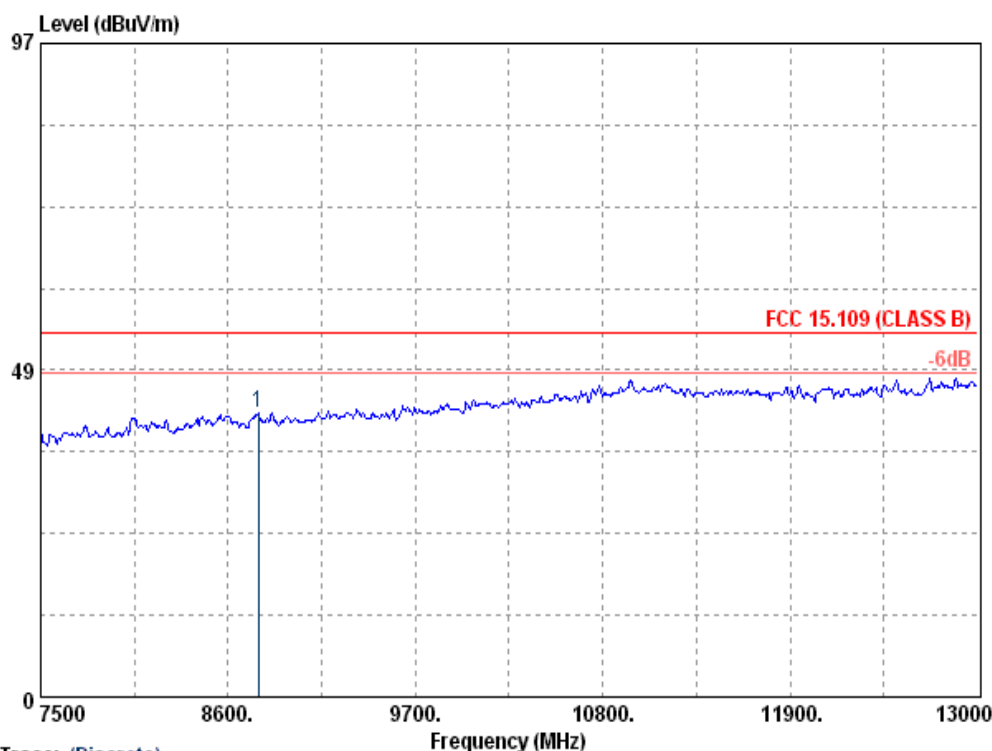
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Test Mode: Config 1
Frequency Range: 7.5GHz – 13GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)

Condition : BBHA9120D HORIZONTAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Charge+REC Mode_Config 1
Temp./Humid. : 22/58
Operator : Bear

	Freq	Read	Antenna	Preamp	Cable		Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	Line	Limit	Remar
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	8776.00	27.01	37.29	33.21	10.98	15.06	42.07	53.98	-11.91 Peak

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 and above 1GHz was 1MHz

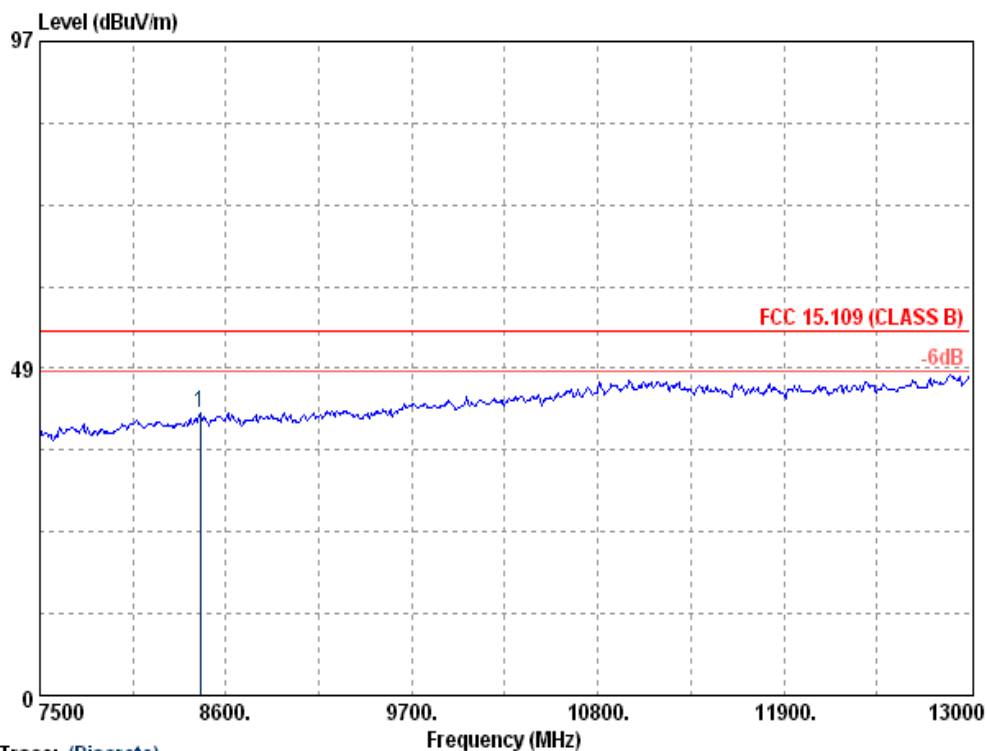
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Test Mode: Config 2
Frequency Range: 7.5GHz – 13GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)
Condition : BBHA9120D VERTICAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Play Mode_Config 2
Temp./Humid. : 22/58
Operator : Bear

	Freq	Read	Antenna	Preamp	Cable		Limit	Over	
	MHz	Level	Factor	Factor	Loss	Level	Line	Limit	Remar
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	8446.00	26.75	37.15	32.92	10.77	15.00	41.75	53.98	-12.23 Peak

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 and above 1GHz was 1MHz

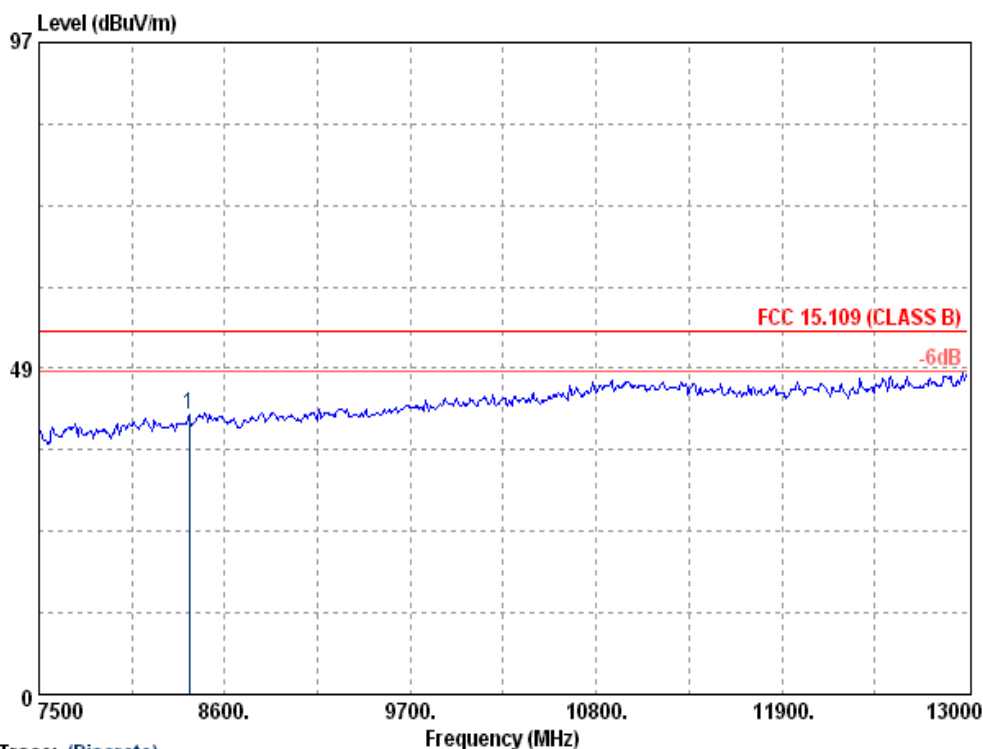
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Test Mode: Config 2
Frequency Range: 7.5GHz – 13GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)

Condition : BBHA9120D HORIZONTAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Play Mode_Config 2
Temp./Humid. : 22/58
Operator : Bear

	Freq	Read	Antenna	Preamp	Cable		Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	8391.00	26.74	37.14	32.97	10.74	14.91	41.65	53.98	-12.33 Peak

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 and above 1GHz was 1MHz

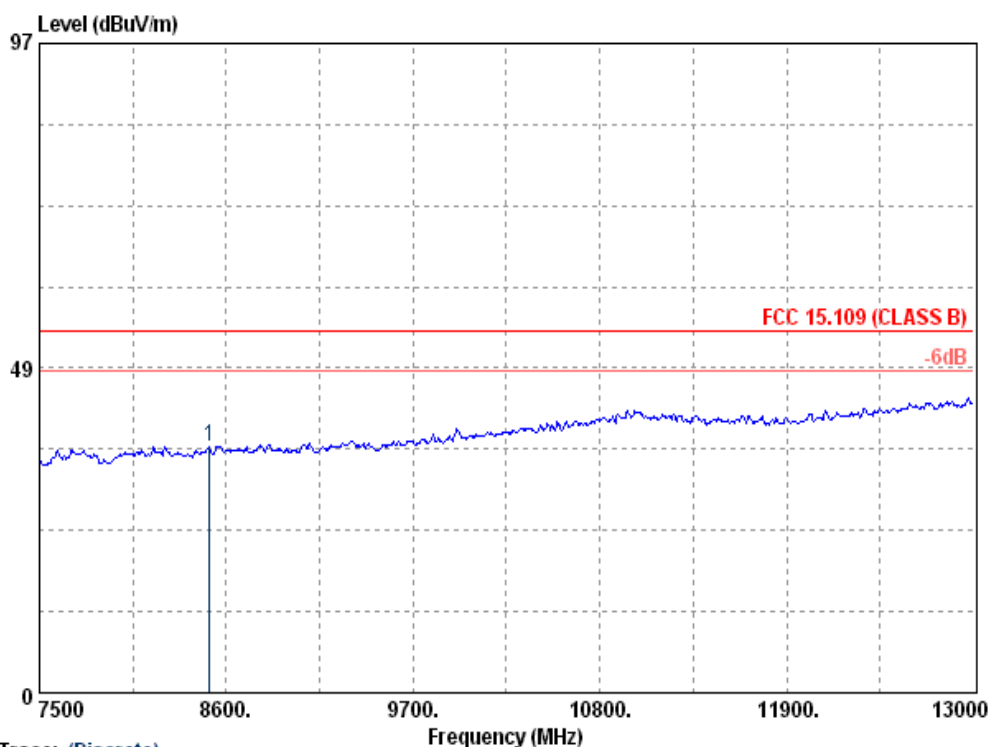
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Test Mode: Config 3
Frequency Range: 7.5GHz – 13GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)

Condition : BBHA9120D VERTICAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Date Link Mode_Config 3
Temp./Humid. : 22/58
Operator : Bear

	Freq	Read	Antenna	Preamp	Cable		Limit	Over	
	MHz	Level	Factor	Factor	Loss	Level	Line	Limit	Remar
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1	8501.00	21.64	37.17	32.87	10.80	15.10	36.74	53.98	-17.24 Peak

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 and above 1GHz was 1MHz

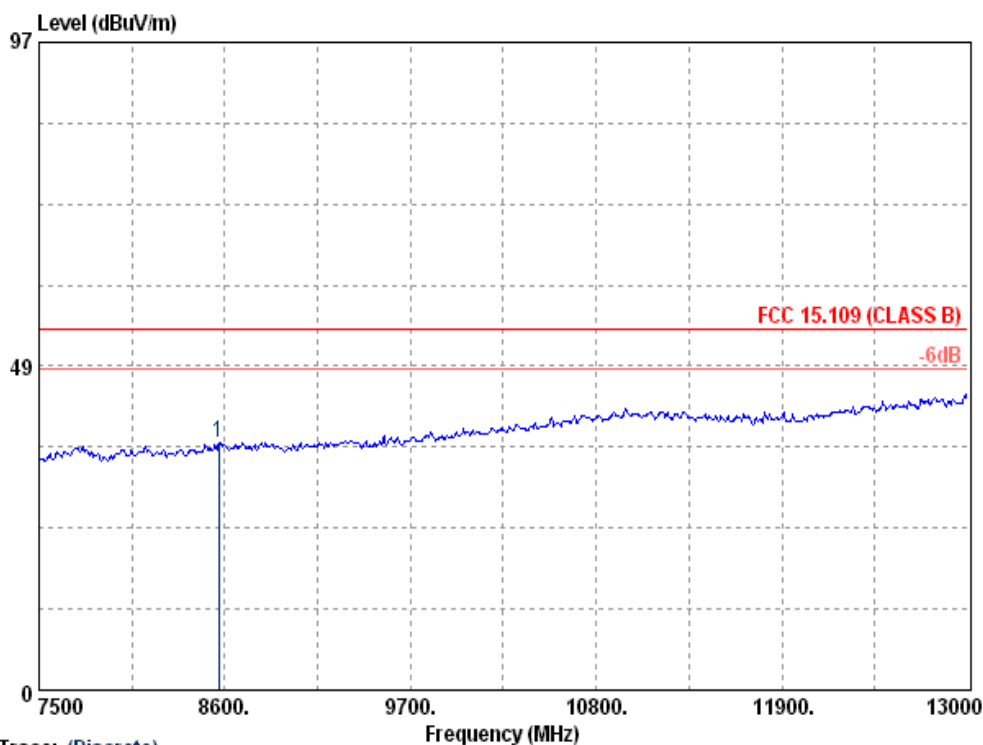
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Test Mode: Config 3
Frequency Range: 7.5GHz – 13GHz

Test Date : Apr. 30, 2010
Test By: Bear



Trace: (Discrete)

Condition : BBHA9120D HORIZONTAL
Project No. : EI-2010-40014
Applicant : Toshiba
EUT Description : Mobile Phone
EUT Model : KD54
Test Mode : Date Link Mode_Config 3
Temp./Humid. : 22/58
Operator : Bear

	Freq	ReadAntenna	Preamp	Cable	Factor	Level	Limit	Over	Remar
	MHz	dBuV	dB/m	dB	dB/m	dBuV/m	dBuV/m	dB	
1	8567.00	22.00	37.19	32.96	10.85	15.08	53.98	-16.90	Peak

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 and above 1GHz was 1MHz

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