

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: TG03

FCC ID: YUW-TU12-J01

Report No.: EI/2010/80006

Issue Date: Sep. 23, 2010

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Fujitsu Toshiba Mobile Communications Limited
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VERIFICATION OF COMPLIANCE

Applicant: Fujitsu Toshiba Mobile Communications Limited
1-1, Kamiodanaka 4, Nakahara, Kawasaki, 211-8588, JAPAN

Product Name: TG03

FCC ID: YUW-TU12-J01

File Number: EI/2010/80006

Date of test: Aug. 05, 2010 ~ Sep. 21, 2010

Date of EUT Received: Aug. 05, 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:

Nick Lin

Date:

Sep. 23, 2010

Nick Lin / Engineer

Prepared By:

Tiffany Kao

Date:

Sep. 23, 2010

Tiffany Kao / Clerk

Approved By:

Arno Hsieh

Date:

Sep. 23, 2010

Arno Hsieh / Asst. Supervisor

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Version

Version No.	Date	Description
00	Sep. 23, 2010	Initial creation of document

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1. GENERAL INFORMATION

1.1 Product Description

Product Name:	TG03	
FCC ID:	YUW-TU12-J01	
Data Cable (USB)	Model: HPC1579-010910(Type B), Supplier: Hoshiden	
Power Supply:	3.9 Vdc re-chargeable battery	
	Battery:	Model No.: UF424261F-HMN, Supplier: Sanyo

GSM and WCDMA:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GSM/GPRS 850 Class 12	824.2 MHz– 848.8MHz	33 dBm
	GSM/GPRS 1900 Class 12	1850.2MHz – 1909.8MHz	30 dBm
	EDGE 850 Class 12	824.2 MHz– 848.8MHz	27 dBm
	EDGE 1900 Class 12	1850.2MHz – 1909.8MHz	26 dBm
	WCDMA/HSUPA/HSDPA Band V	826.4MHz –846.6MHz	24 dBm
IMEI:	353861040000133		

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Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.9Vdc	340
PCS 1900	3.9Vdc	265
EDGE 850	3.9Vdc	205
EDGE 1900	3.9Vdc	180
WCDMA B5	3.9Vdc	535
HSUPA B5	3.9Vdc	530

WLAN:

Frequency Range & Channel number:	802.11 b/g: 2412 – 2462 MHz
Rated Power:	802.11 b: 15.94 dBm 802.11 g: 21.89 dBm
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Transmission Rate:	802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps
Antenna Designation:	Chip Antenna / Gain: -0.85 dBi

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

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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:	8.52 dBm (Peak)
Modulation type:	Frequency Hopping Spread Spectrum
Antenna Designation:	Chip Antenna / antenna gain: -0.85dBi

The EUT is compliance with Bluetooth 2.1 + EDR Standard.

GPS:

Receiver Frequency	L1 Band, 1575.42MHz
Frequency Conversion oscillator	19.2MHz
Antenna Designation	PIFA Antenna

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

This test report applies for digital full function.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: YUW-TU12-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 in below condition:

1. Play 1kHz audio through the SHF and Speaker.
2. BT link with NB.
3. Data link with NB.

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 $\mu\text{V/m}$	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 $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$

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

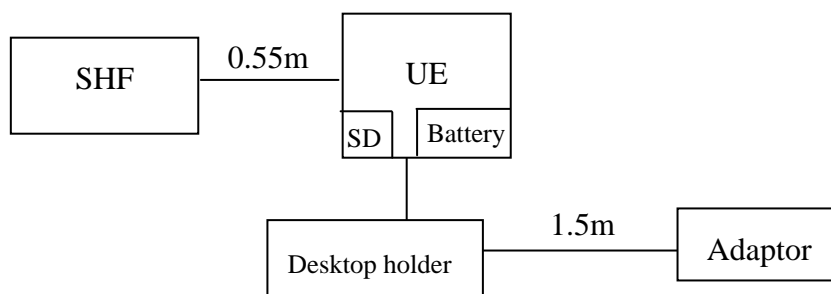


Fig. 2-2 Configuration of Tested System (config 2, 3)

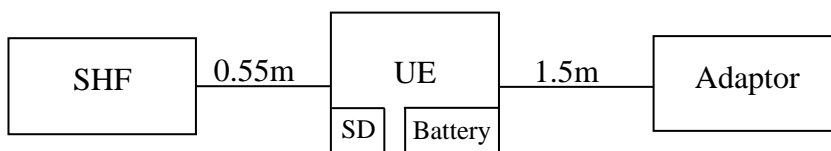
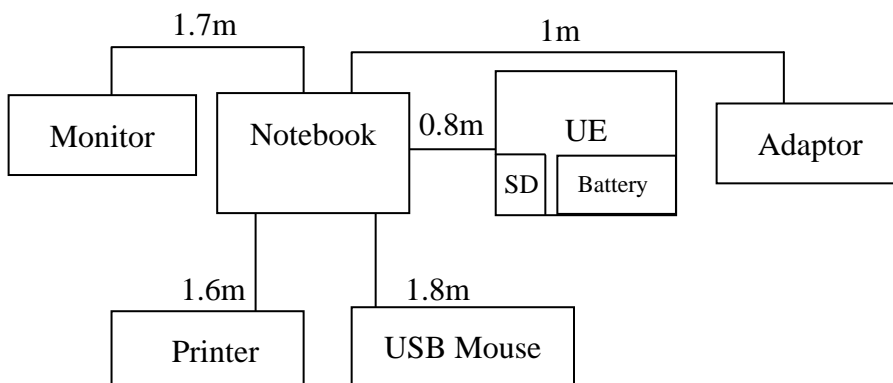


Fig. 2-3 Configuration of Tested System (config 4)



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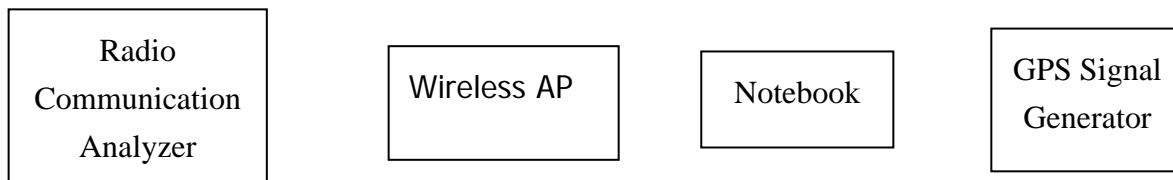
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Fig. 2-4 Configuration of Tested System (Remote Side)

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	N/A	N/A	1.6m Un-shielded
2.	Radio Communication Analyzer	R&S	CMU200	102189	N/A	N/A	Un-shielded
3.	Monitor	HP	HSTND-2F02	CND7122S7B	DoC	1.6 Un-shielded	Un-shielded
4.	USB Mouse	HP	MO19UCA	020506990	N/A	1.8m Un-shielded	N/A
5.	Printer	HP	DJ640C	TH12QE110Y	N/A	1.6m, Un-Shielded	Un-shielded
6.	SHF	Hoshiden	HDH0669-010221(earphone), KRJ0003-010020(mic)	N/A	N/A	0.55m, Un-shielded	N/A
7.	Adaptor	Cosmos HosiDEN	0203PQA	N/A	N/A	N/A	1.5 m Un-shielded,
8.	Data cable (USB)	Hoshiden	HPC1579-010910(Type B	N/A	N/A	0.8m Un-shielded	N/A
9.	Micro SD	SanDisk	2G	N/A	N/A	N/A	N/A
10.	Wireless AP	D-Link	DIR-300	P1DY29A0001 33	KA2DIR3 00B1	Un-Shielded	Un-shielded
11.	GPS Signal Generator	WELNAVI GATE INC.	GS 50	607492	N/A	N/A	N/A
12.	Desktop holder	Eikou / Fujitsu Toshiba	T02	N/A	N/A	N/A	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:

TG03		Config 1	Config 2	Config 3	Config 4
	Applicable standard (FCC)	part 15B			
	Accessories	UE + Battery + SHF + Desktop holder + AC Adaptor	UE + Battery + AC Adaptor + SHF	UE + Battery + AC Adaptor + SHF	UE + Battery + Data Cable(Type B)
		Charge	Camera	Music	Data link
EN No.	Description	GSM+WLAN + BT + GPS	GSM+WLAN + BT + GPS	GSM+WLAN + BT + GPS	GSM+WLAN + BT + GPS
8.2	radiated emission (30M-1GHz)(1-13GHz)	Charge mode	Charge + camera mode	Charge + play mode	Data link
8.4	conducted emission (AC Power)	Charge mode	Charge + camera mode	Charge + play mode	Data link

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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	09/15/2010	09/14/2011
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	11/28/2009	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:	Sep. 20, 2010
		Test By:	Nick



Site SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: TG03
 M/N: TU12-J01
 Note: Charge mode _config1
 IMEI: 353861040004374

Phase: L1
 Power: AC 120V/60Hz
 Distance:

Temperature: 24 °C
 Humidity: 56 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1506	43.15	0.14	43.29	65.97	-22.68	QP	
2		0.1506	27.74	0.14	27.88	55.97	-28.09	AVG	
3		0.2122	42.51	0.12	42.63	63.12	-20.49	QP	
4		0.2122	23.28	0.12	23.40	53.12	-29.72	AVG	
5		0.3158	39.47	0.12	39.59	59.82	-20.23	QP	
6		0.3158	23.43	0.12	23.55	49.82	-26.27	AVG	
7	*	1.1482	51.29	0.13	51.42	56.00	-4.58	QP	
8		1.1482	31.99	0.13	32.12	46.00	-13.88	AVG	
9		2.2500	39.97	0.17	40.14	56.00	-15.86	peak	
10		4.3000	28.04	0.21	28.25	56.00	-27.75	peak	

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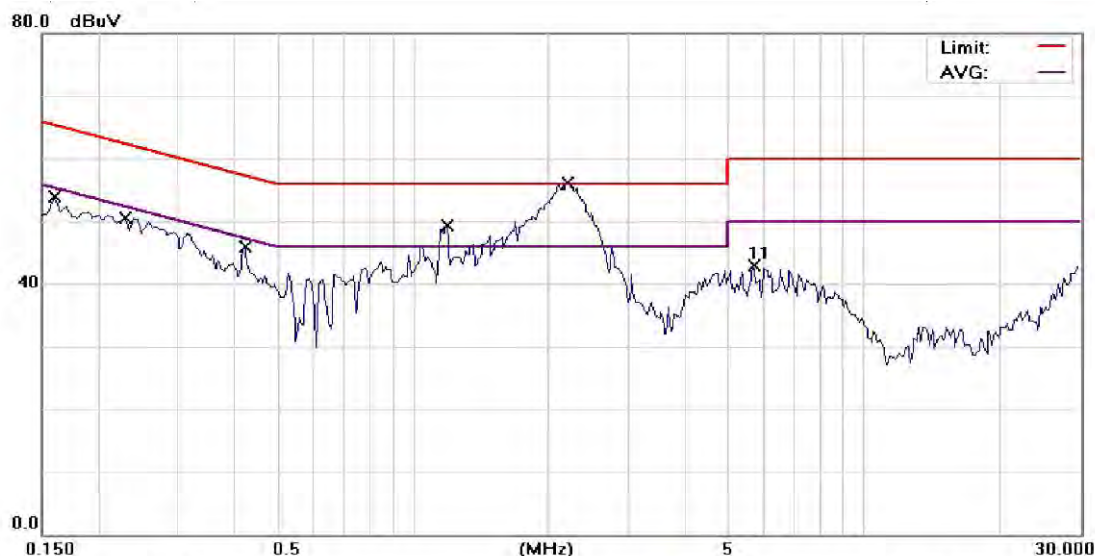
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Site SGS CONDUCTED #1
 Limit: FCC Class B Conduction(QP)
 EUT: TG03
 M/N: TU12-J01
 Note: Charge mode _config1
 IMEI: 353861040004374

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

Temperature: 24 °C
 Humidity: 56 %
 Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1598	42.63	0.14	42.77	65.47	-22.70	QP	
2		0.1598	22.35	0.14	22.49	55.47	-32.98	AVG	
3		0.2292	42.64	0.13	42.77	62.48	-19.71	QP	
4		0.2292	18.47	0.13	18.60	52.48	-33.88	AVG	
5		0.4238	40.89	0.12	41.01	57.37	-16.36	QP	
6		0.4238	23.09	0.12	23.21	47.37	-24.16	AVG	
7		1.1853	45.17	0.14	45.31	56.00	-10.69	QP	
8		1.1853	23.59	0.14	23.73	46.00	-22.27	AVG	
9	*	2.1993	52.88	0.16	53.04	56.00	-2.96	QP	
10		2.1993	35.57	0.16	35.73	46.00	-10.27	AVG	
11		5.7000	42.59	0.25	42.84	60.00	-17.16	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 2	Test Date:	Sep. 20, 2010
		Test By:	Nick



Site SGS CONDUCTED #1

Phase: L1

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 56 %

EUT: TG03

Distance:

Air Pressure: hpa

M/N: TU12-J01

Note: Charge + Camera mode _config2

IMEI: 353861040004374

No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	40.55	0.14	40.69	66.00	-25.31	peak	
2	*	0.1900	41.46	0.12	41.58	64.04	-22.46	peak	
3		0.2450	37.75	0.12	37.87	61.92	-24.05	peak	
4		0.7100	30.59	0.12	30.71	56.00	-25.29	peak	
5		0.9500	28.96	0.12	29.08	56.00	-26.92	peak	
6		1.4300	28.72	0.14	28.86	56.00	-27.14	peak	

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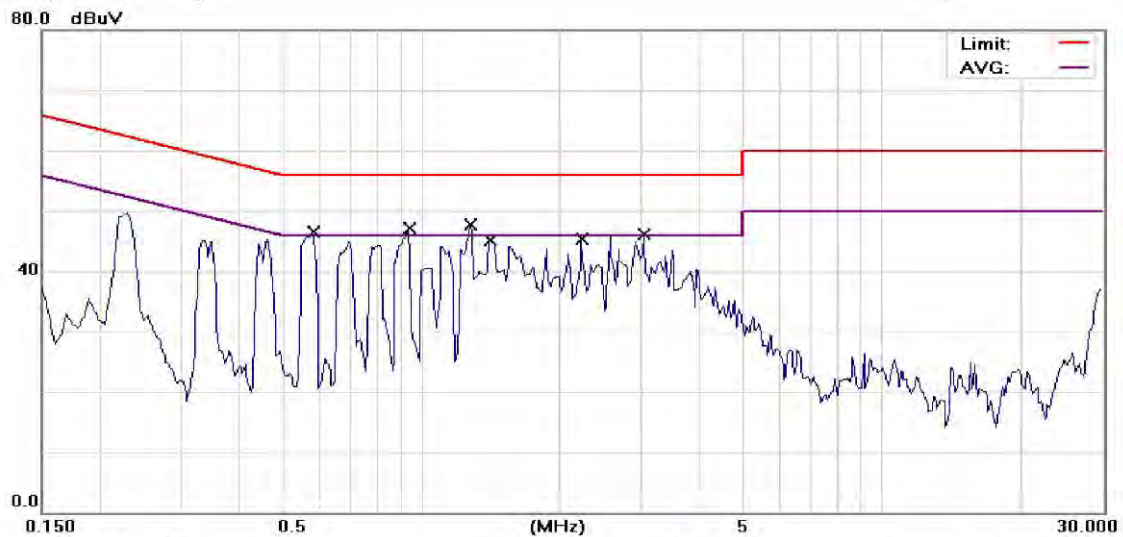
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Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: TG03

M/N: TU12-J01

Note: Charge + Camera mode _config2

IMEI: 353861040004374

Phase: N

Power: AC 120V/60Hz

Distance:

Temperature: 24 °C

Humidity: 56 %

Air Pressure: hpa

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5786	39.40	0.12	39.52	56.00	-16.48	QP	
2		0.5786	29.80	0.12	29.92	46.00	-16.08	AVG	
3		0.9370	40.43	0.13	40.56	56.00	-15.44	QP	
4		0.9370	26.39	0.13	26.52	46.00	-19.48	AVG	
5	*	1.2757	41.49	0.14	41.63	56.00	-14.37	QP	
6		1.2757	26.37	0.14	26.51	46.00	-19.49	AVG	
7		1.4070	37.98	0.14	38.12	56.00	-17.88	QP	
8		1.4070	21.45	0.14	21.59	46.00	-24.41	AVG	
9		2.2240	37.23	0.16	37.39	56.00	-18.61	QP	
10		2.2240	21.42	0.16	21.58	46.00	-24.42	AVG	
11		3.0394	37.57	0.18	37.75	56.00	-18.25	QP	
12		3.0394	20.59	0.18	20.77	46.00	-25.23	AVG	

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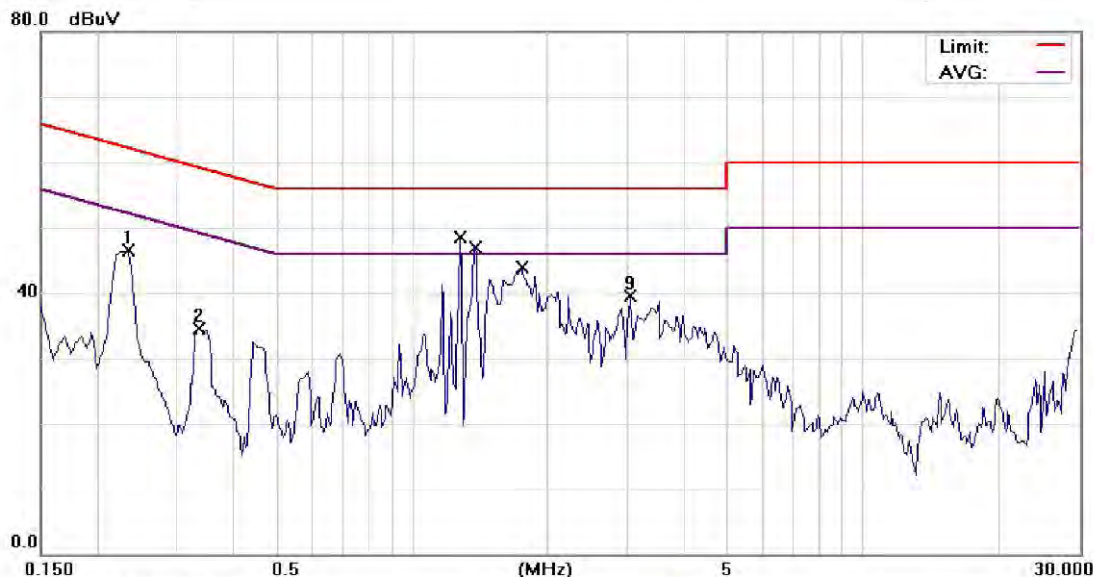
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Sep. 20, 2010
		Test By:	Nick



Site SGS CONDUCTED #1
Limit: FCC Class B Conduction(QP)
EUT: TG03
M/N: TU12-J01
Note: Charge + Play mode _config3
IMEI: 353861040004374

Phase: L1
Power: AC 120V/60Hz
Distance:
Temperature: 24 °C
Humidity: 56 %
Air Pressure: hpa

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2350	46.41	0.12	46.53	62.27	-15.74	peak	
2		0.3350	34.44	0.12	34.56	59.33	-24.77	peak	
3	*	1.2802	45.05	0.13	45.18	56.00	-10.82	QP	
4		1.2802	25.26	0.13	25.39	46.00	-20.61	AVG	
5		1.3761	44.22	0.14	44.36	56.00	-11.64	QP	
6		1.3761	26.40	0.14	26.54	46.00	-19.46	AVG	
7		1.7527	40.83	0.15	40.98	56.00	-15.02	QP	
8		1.7527	23.23	0.15	23.38	46.00	-22.62	AVG	
9		3.0500	39.36	0.18	39.54	56.00	-16.46	peak	

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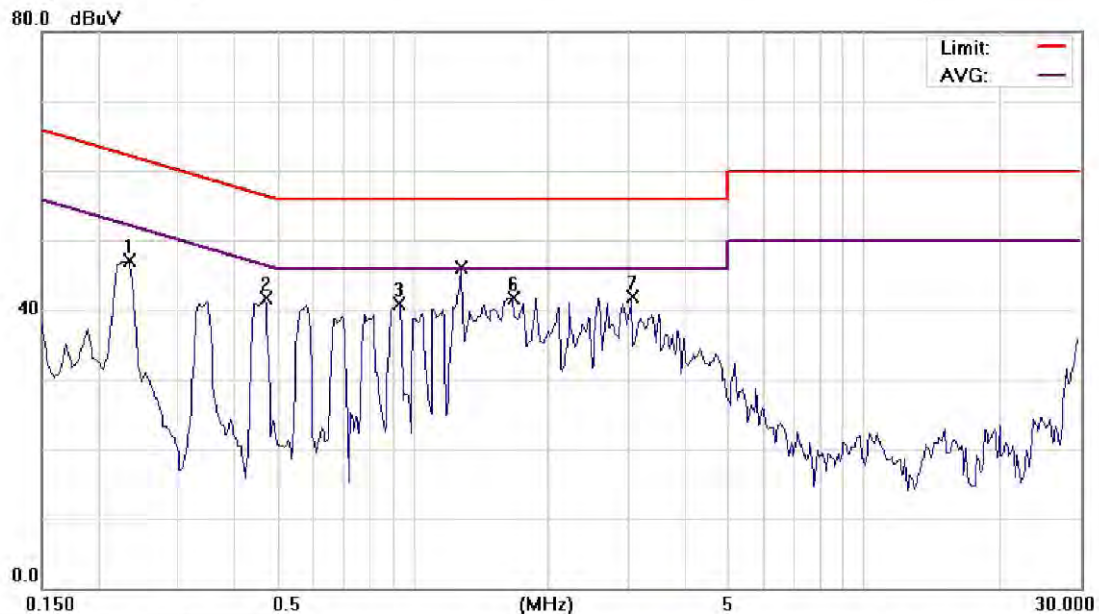
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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 56 %

EUT: TG03

Distance:

Air Pressure: hpa

M/N: TU12-J01

Note: Charge + Play mode _config3

IMEI: 353861040004374

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2350	46.96	0.13	47.09	62.27	-15.18	peak	
2		0.4700	41.54	0.12	41.66	56.51	-14.85	peak	
3		0.9300	40.82	0.13	40.95	56.00	-15.05	peak	
4 *		1.2780	43.62	0.14	43.76	56.00	-12.24	QP	
5		1.2780	27.17	0.14	27.31	46.00	-18.69	AVG	
6		1.6700	41.62	0.15	41.77	56.00	-14.23	peak	
7		3.0600	41.81	0.18	41.99	56.00	-14.01	peak	

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 4	Test Date:	Sep. 20, 2010
		Test By:	Nick



Site: SGS CONDUCTED #1

Phase: L1

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 56 %

EUT: TG03

Distance:

Air Pressure: hpa

M/N: TU12-J01

Note: Data Link _config4

IMEI: 353861040004374

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2050	47.60	0.12	47.72	63.41	-15.69	peak	
2		0.2750	41.19	0.12	41.31	60.97	-19.66	peak	
3		0.4100	34.46	0.12	34.58	57.65	-23.07	peak	
4		3.9112	39.84	0.20	40.04	56.00	-15.96	QP	
5		3.9112	27.38	0.20	27.58	46.00	-18.42	AVG	
6	*	4.9378	41.60	0.22	41.82	56.00	-14.18	QP	
7		4.9378	31.20	0.22	31.42	46.00	-14.58	AVG	
8		8.9200	39.08	0.45	39.53	60.00	-20.47	peak	

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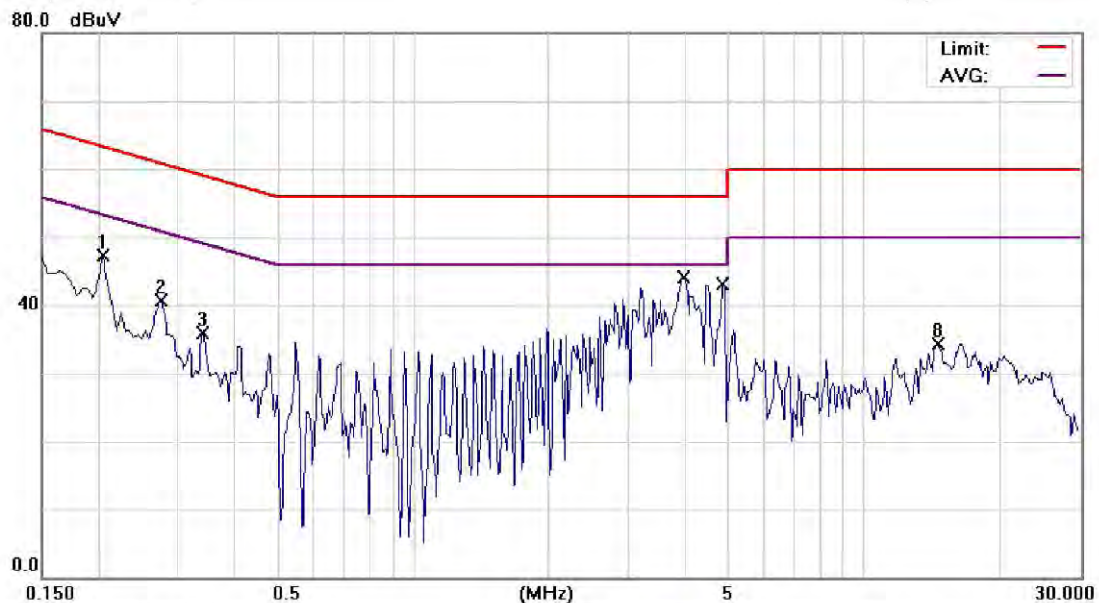
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Site SGS CONDUCTED #1

Phase: **N**

Temperature: 24 °C

Limit: FCC Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 56 %

EUT: TG03

Distance:

Air Pressure: hpa

M/N: TU12-J01

Note: Data Link _config4

IMEI: 353861040004374

No.	Mk.	Freq.	Reading	Factor	Measure-	Limit	Over		
		MHz	Level		ment			Detector	Comment
			dBuV	dB	dBuV	dBuV	dB		
1	*	0.2050	47.17	0.13	47.30	63.41	-16.11	peak	
2		0.2750	40.63	0.13	40.76	60.97	-20.21	peak	
3		0.3400	35.80	0.12	35.92	59.20	-23.28	peak	
4		3.9725	37.87	0.20	38.07	56.00	-17.93	QP	
5		3.9725	27.15	0.20	27.35	46.00	-18.65	AVG	
6		4.8620	30.90	0.22	31.12	56.00	-24.88	QP	
7		4.8620	17.10	0.22	17.32	46.00	-28.68	AVG	
8		14.5400	33.73	0.51	34.24	60.00	-25.76	peak	

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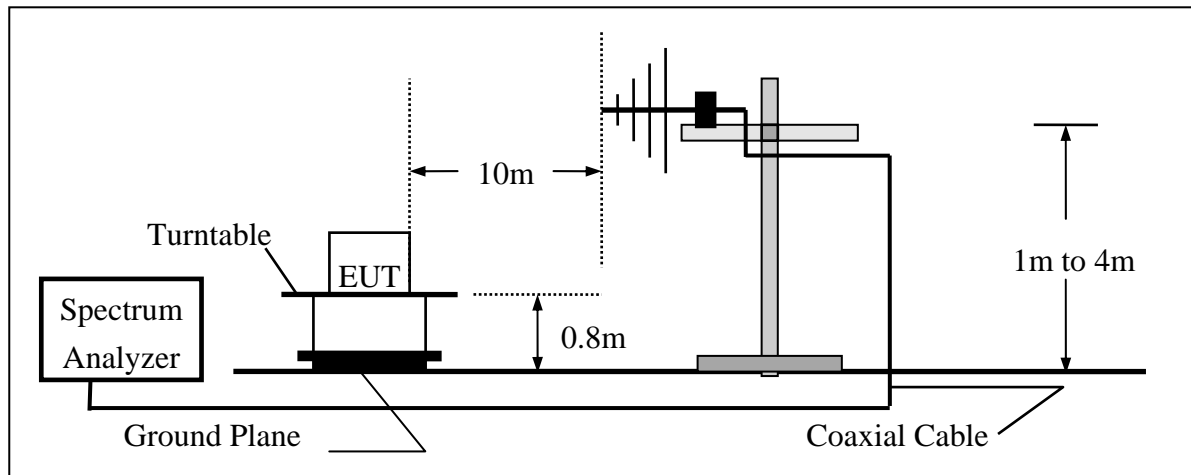
6. Radiated Emission Test

6.1 Measurement Procedure

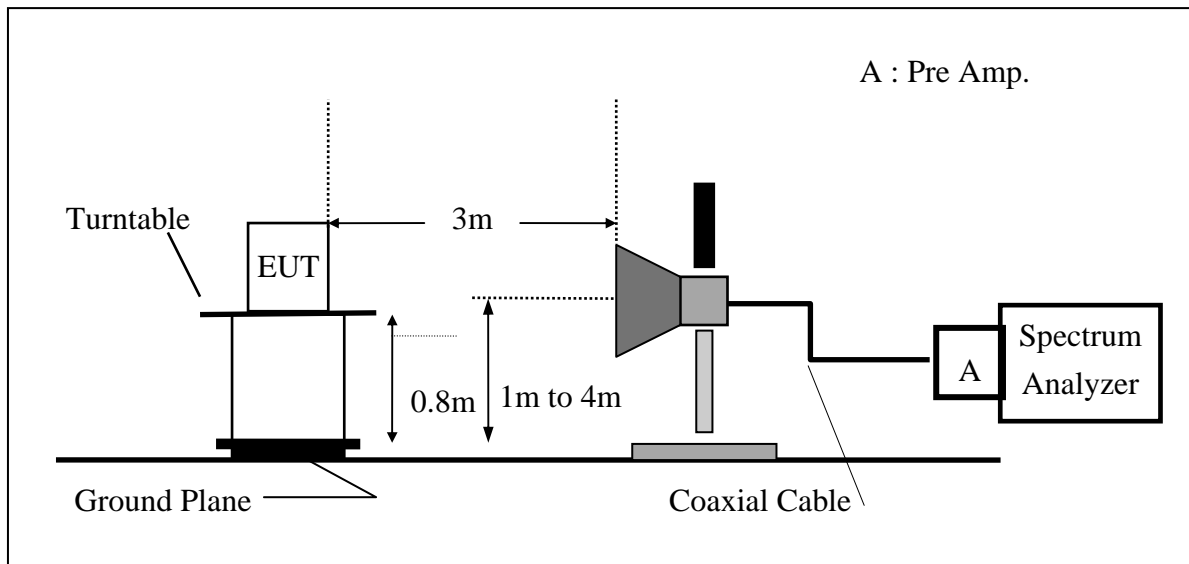
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above 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 30MHz-40MHz



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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	11/19/2009	11/18/2010
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2009	03/08/2011
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2009	11/28/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
Radio Communication Analyzer	R & S	CMU200	111787	10/31/2008	10/30/2010
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	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

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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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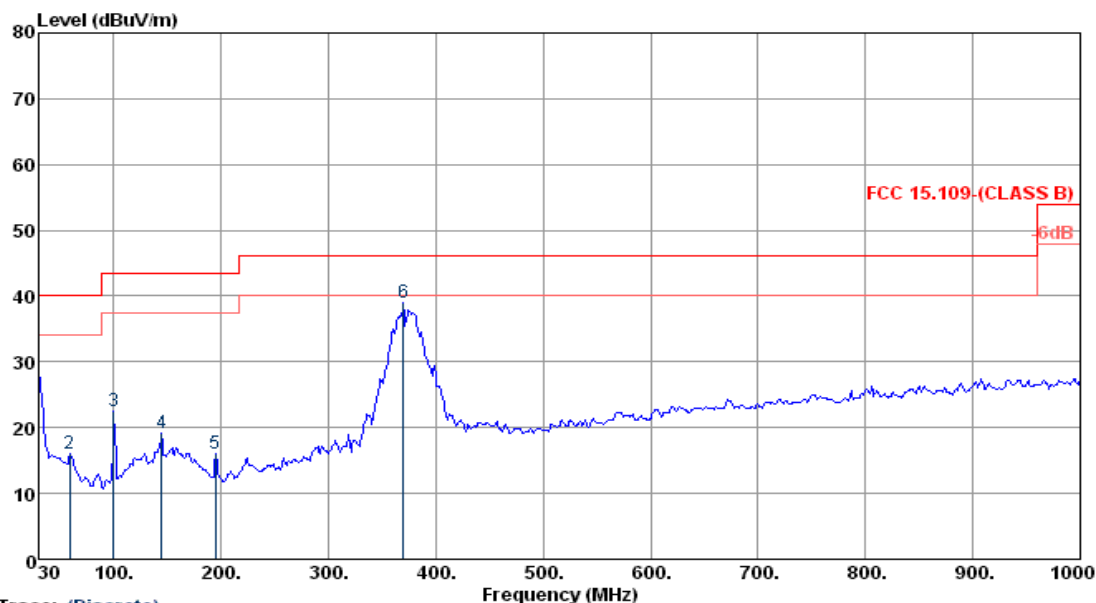
6.5 Measurement Result (below 1G)

Test Mode: Config 1

Test Date : Sep. 20, 2010

Frequency Range: 30MHz-1GHz

Test By: Nick



Trace: (Discrete)

Site : RF site 3
 Condition : FCC 15.109-(CLASS B) VULB9168(20W-2G)-966 VERTICAL
 Project No. : (EI-2010-80005-6)Toshiba_TG03
 Applicant : Toshiba Information Systems (UK) Ltd.
 EUT Description: TG03
 EUT Model : TU12-J01
 Test Mode : Charge mode _config1
 Temp./Humid. : 24/60
 Operator : Nick
 IMEI : 353861040004374

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss		dBuV/m	dBuV/m	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	30.00	42.49	13.22	27.85	0.38	-14.25	28.24	40.00	-11.76	QP
2	59.10	30.55	12.75	27.82	0.55	-14.52	16.03	40.00	-23.97	QP
3	99.84	39.11	10.15	27.57	0.72	-16.70	22.41	43.52	-21.11	QP
4	144.46	31.79	13.77	27.38	0.95	-12.66	19.13	43.52	-24.39	QP
5	194.90	31.69	10.24	27.08	1.17	-15.67	16.02	43.52	-27.50	QP
6 p	369.50	50.08	14.24	27.17	1.74	-11.19	38.89	46.02	-7.13	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 1GHz to 13GHz was 1MHz

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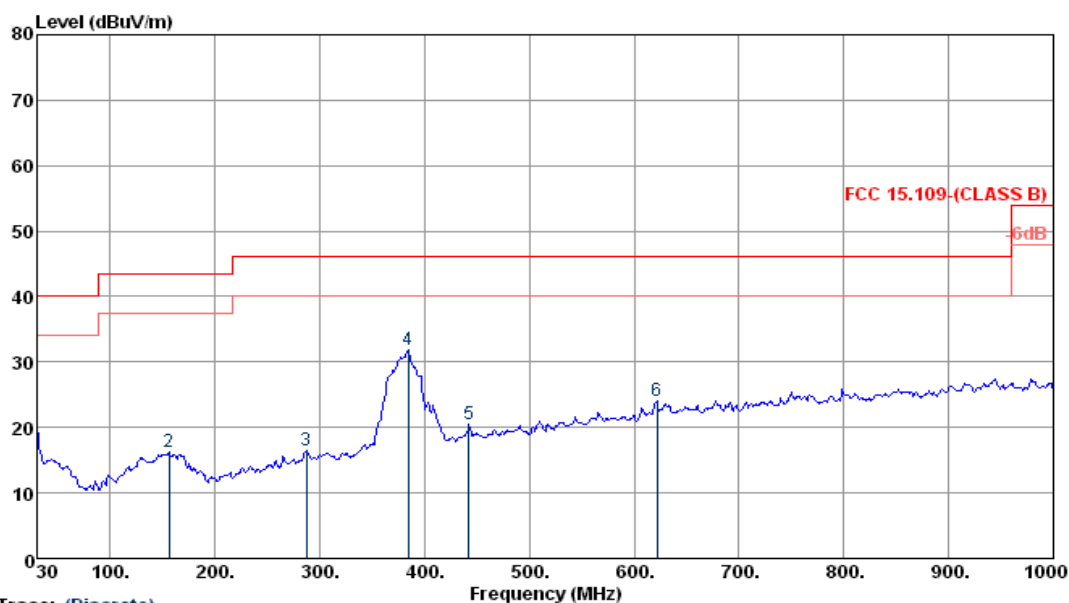
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Test Mode: Config 1
Frequency Range: 30MHz-1GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20MHz-2G)-966 HORIZONTAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge mode _config1
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	ReadAntenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	30.00	34.34	13.22	27.85	0.38	-14.25	20.09	40.00	-19.91 QP
2	156.10	28.23	14.15	27.26	1.10	-12.01	16.22	43.52	-27.30 QP
3	287.05	29.30	12.54	26.74	1.43	-12.77	16.53	46.02	-29.49 QP
4 p	384.05	42.93	14.48	27.30	1.74	-11.08	31.85	46.02	-14.17 QP
5	442.25	30.53	15.77	27.60	1.82	-10.01	20.52	46.02	-25.50 QP
6	621.70	30.70	18.73	27.46	2.18	-6.55	24.15	46.02	-21.87 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 1GHz to 13GHz was 1MHz

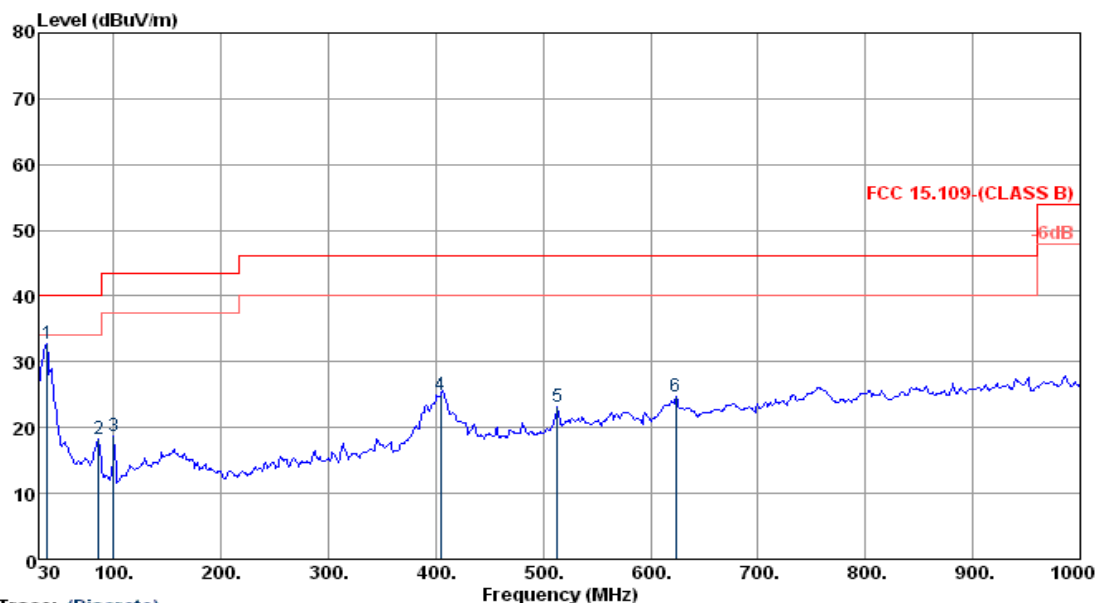
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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20W+2G)-966 VERTICAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge + Camera mode _config2
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	Read	Antenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
	MHz	Level	Factor	Factor	Loss		dBuV/m	Line	Limit	
		dBuV	dB/m		dB	dB/m		dBuV/m	dB	
1 p	37.76	46.54	13.73	27.84	0.38	-13.73	32.81	40.00	-7.19	QP
2	86.26	35.83	9.38	27.65	0.72	-17.55	18.28	40.00	-21.72	QP
3	99.84	35.38	10.15	27.57	0.72	-16.70	18.68	43.52	-24.84	QP
4	404.42	35.81	14.84	27.45	1.78	-10.83	24.98	46.02	-21.04	QP
5	513.06	32.07	16.75	27.60	1.97	-8.88	23.19	46.02	-22.83	QP
6	623.64	31.15	18.76	27.45	2.18	-6.51	24.64	46.02	-21.38	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 1GHz to 13GHz was 1MHz

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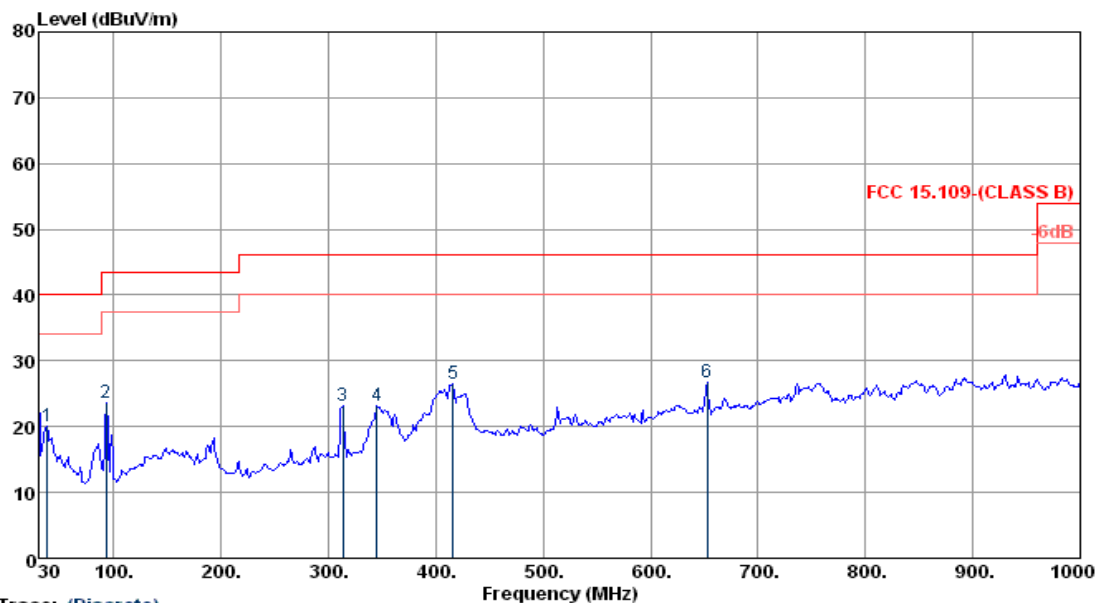
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Test Mode: Config 2
Frequency Range: 30MHz-1GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20W-2G)-966 HORIZONTAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge + Camera mode _config2
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	Remark
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	
		dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	37.76	33.77	13.73	27.84	0.38	-13.73	20.04	40.00	-19.96	QP
2	93.05	40.70	9.72	27.62	0.72	-17.18	23.52	43.52	-20.00	QP
3	313.24	35.38	13.14	26.80	1.48	-12.18	23.20	46.02	-22.82	QP
4	345.25	34.70	13.74	26.98	1.64	-11.60	23.10	46.02	-22.92	QP
5	416.06	37.07	15.13	27.49	1.78	-10.58	26.49	46.02	-19.53	QP
6 p	652.74	32.62	19.14	27.36	2.25	-5.97	26.65	46.02	-19.37	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 1GHz to 13GHz was 1MHz

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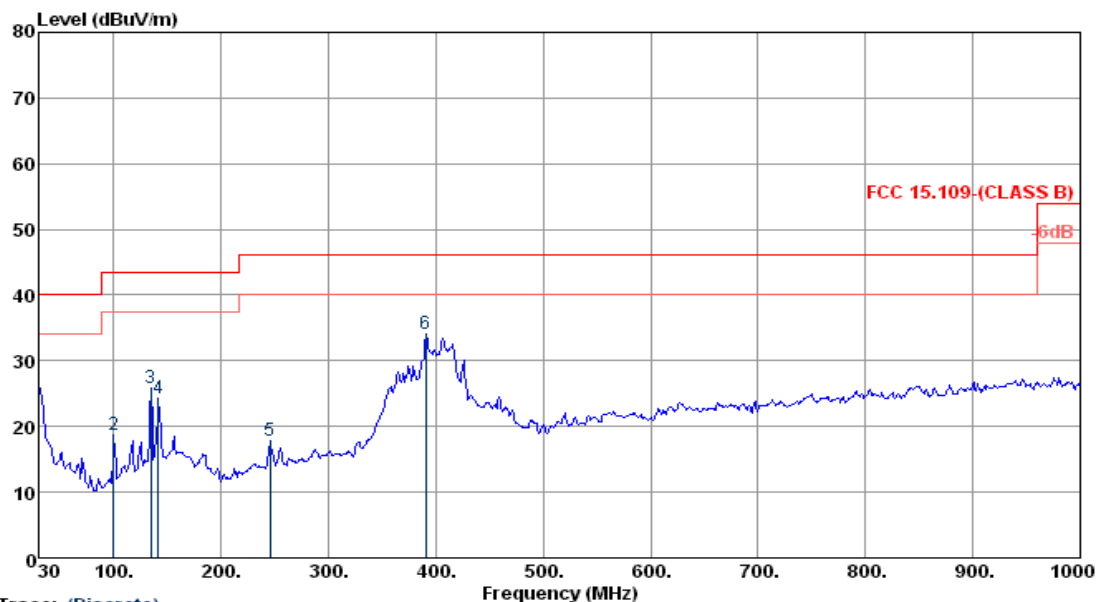
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Test Mode: Config 3
Frequency Range: 30MHz-1GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20W-2G)-966 VERTICAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge + Play mode _config3
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	Remark
		dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1	30.00	40.52	13.22	27.85	0.38	-14.25	26.27	40.00	-13.73	QP
2	99.84	35.40	10.15	27.57	0.72	-16.70	18.70	43.52	-24.82	QP
3	134.76	39.23	13.08	27.44	0.95	-13.41	25.82	43.52	-17.70	QP
4	141.55	37.17	13.51	27.41	0.95	-12.95	24.22	43.52	-19.30	QP
5	245.34	31.75	11.52	26.80	1.32	-13.96	17.79	46.02	-28.23	QP
6 p	390.84	45.20	14.58	27.35	1.74	-11.03	34.17	46.02	-11.85	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 1GHz to 13GHz was 1MHz

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

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20W-2G)-966 HORIZONTAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge + Play mode _config3
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	Remark
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	
		dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p	34.85	39.46	13.33	27.85	0.38	-14.14	25.32	40.00	-14.68	QP
2	99.84	33.75	10.15	27.57	0.72	-16.70	17.05	43.52	-26.47	QP
3	127.00	34.60	12.57	27.49	0.83	-14.09	20.51	43.52	-23.01	QP
4	135.73	37.83	13.08	27.44	0.95	-13.41	24.42	43.52	-19.10	QP
5	202.66	36.40	9.93	27.04	1.17	-15.94	20.46	43.52	-23.06	QP
6	408.30	38.75	14.94	27.46	1.78	-10.74	28.01	46.02	-18.01	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 1GHz to 13GHz was 1MHz

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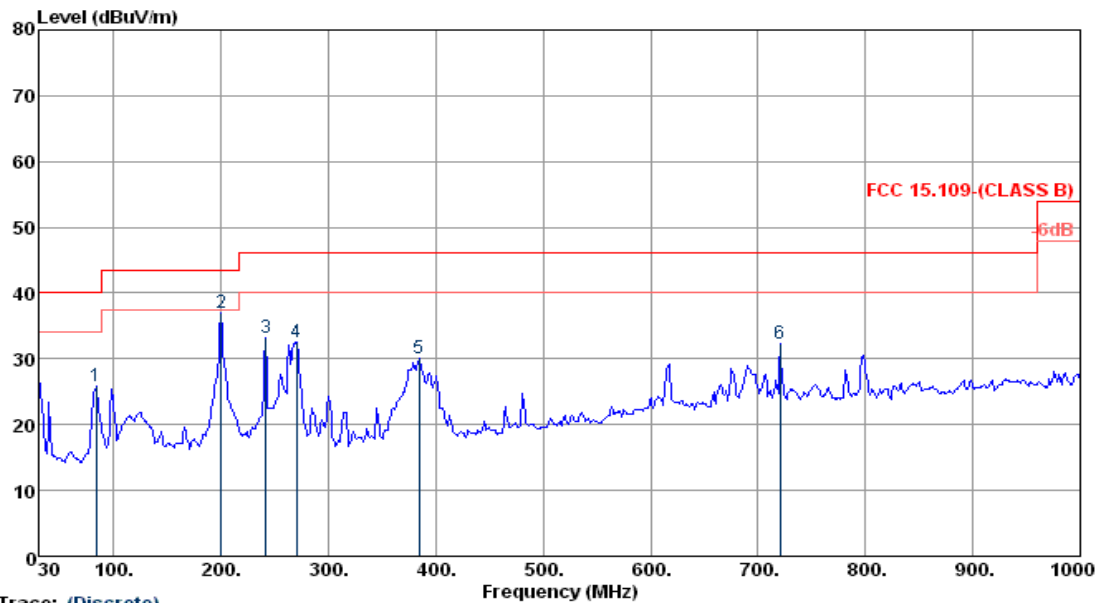
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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20W-2G)-966 VERTICAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Data Link _config4
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	ReadAntenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
	MHz	dBuV	Factor	Loss	dB/m	dBuV/m	dBuV/m	dB	
1	83.35	43.36	9.35	27.66	0.72	-17.59	25.77	40.00	-14.23 QP
2 p	199.75	52.88	9.90	27.06	1.17	-15.99	36.89	43.52	-6.63 QP
3	241.46	47.14	11.47	26.82	1.32	-14.03	33.11	46.02	-12.91 QP
4	270.56	45.76	12.15	26.75	1.43	-13.17	32.59	46.02	-13.43 QP
5	384.05	41.11	14.48	27.30	1.74	-11.08	30.03	46.02	-15.99 QP
6	720.64	37.30	19.92	27.24	2.40	-4.92	32.38	46.02	-13.64 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 1GHz to 13GHz was 1MHz

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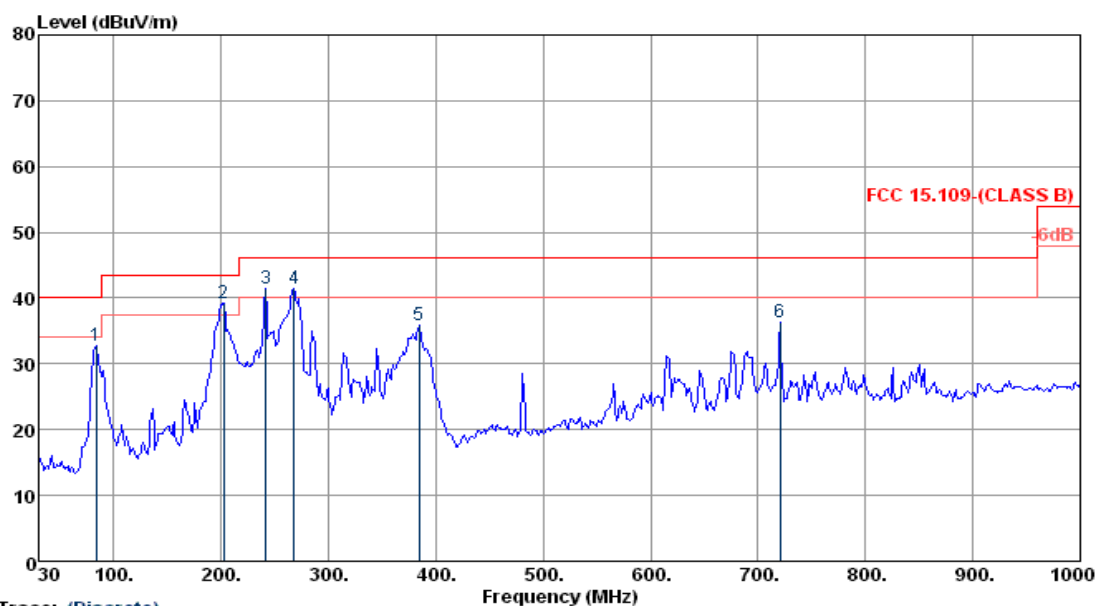
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Test Mode: Config 4
Frequency Range: 30MHz-1GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) VULB9168(20W-2G)-966 HORIZONTAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Data Link _config4
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	Read	Antenna	Preamp	Cable		Level	Limit	Over	Remark
	MHz	Level	Factor	Factor	Loss	Factor	dBuV/m	Line	Limit	
		dBuV	dB/m					dBuV/m		
1	83.35	50.33	9.35	27.66	0.72	-17.59	32.74	40.00	-7.26	QP
2 p	202.66	55.14	9.93	27.04	1.17	-15.94	39.20	43.52	-4.32	QP
3 !	241.46	55.53	11.47	26.82	1.32	-14.03	41.50	46.02	-4.52	QP
4 !	267.65	54.69	12.03	26.76	1.43	-13.30	41.39	46.02	-4.63	QP
5	384.05	46.95	14.48	27.30	1.74	-11.08	35.87	46.02	-10.15	QP
6	720.64	41.33	19.92	27.24	2.40	-4.92	36.41	46.02	-9.61	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 1GHz to 13GHz was 1MHz

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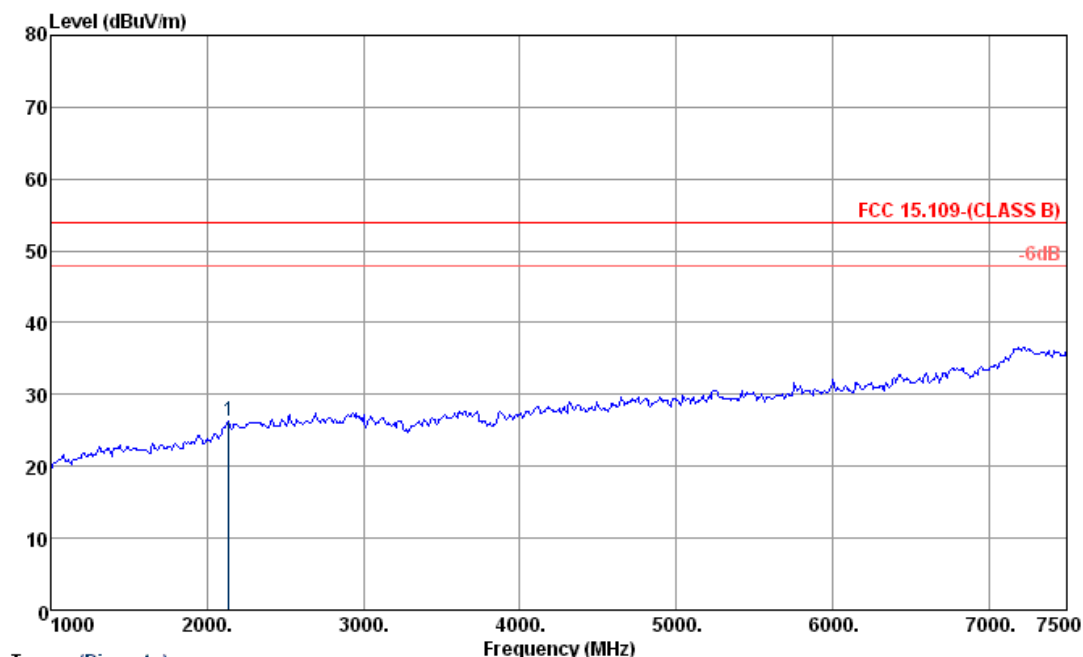
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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge mode _config1
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Read	Antenna	Preamp	Cable		Limit	Over	
Freq	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
-----MHz	-----dBuV	-----dB/m	-----dB	-----dB	-----dB/m	-----dBuV/m	-----dBuV/m	-----dB
1 p 2137.50	28.47	27.37	34.00	4.41	-2.22	26.25	54.00	-27.75 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 13GHz was 1MHz

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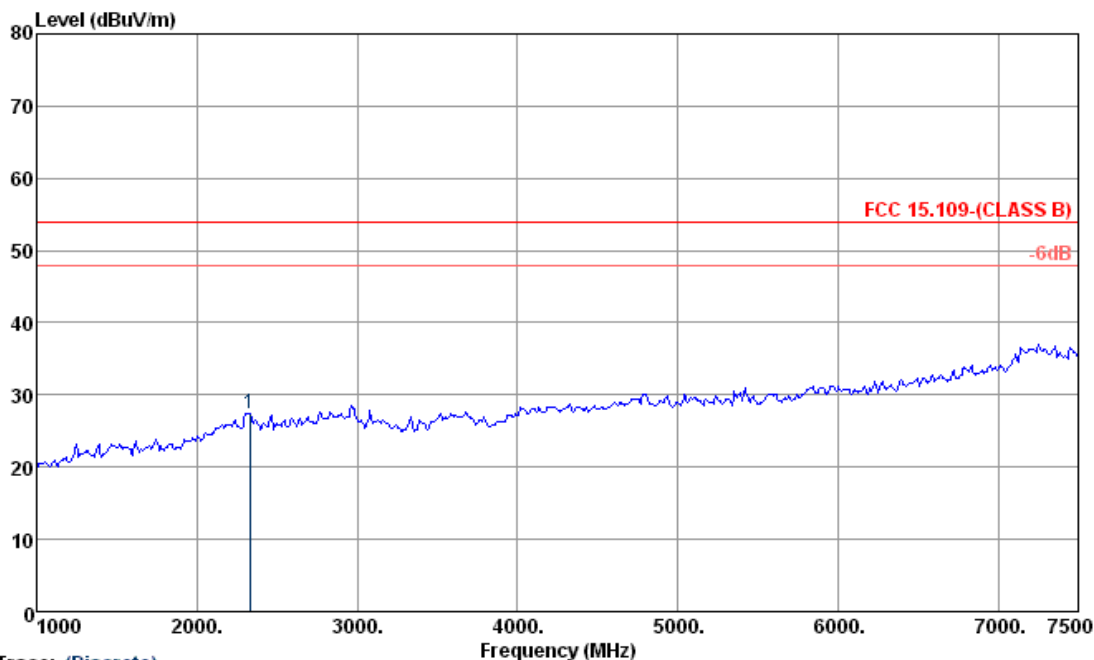
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Test Mode: Config 1
Frequency Range: 1GHz – 7.5GHz

Test Date : Sep. 20, 2010
Test By: Nick



Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge mode _config1
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

Freq	Level	Antenna	Preamp	Cable	Limit	Over	Remark
MHz	dBuV	Factor	Factor	Loss	Line	Limit	
	dBuV/m	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 p 2332.50	29.03	27.74	34.05	4.65	-1.66	27.37	54.00 -26.63 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 13GHz was 1MHz

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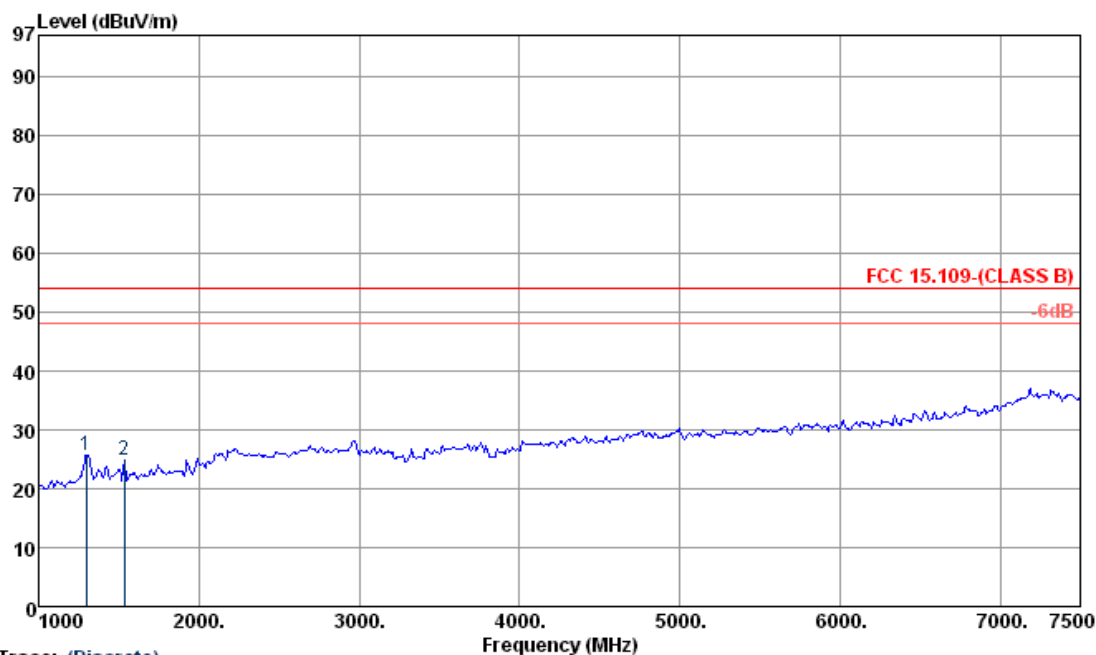
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Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge + Camera mode _config2
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	Read	Antenna	Preamp	Cable	Limit	Over	
	MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1 p	1299.00	31.78	25.03	34.54	3.40	-6.11	25.67	54.00 -28.33 Peak
2	1533.00	30.72	24.89	34.35	3.67	-5.79	24.93	54.00 -29.07 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 13GHz was 1MHz

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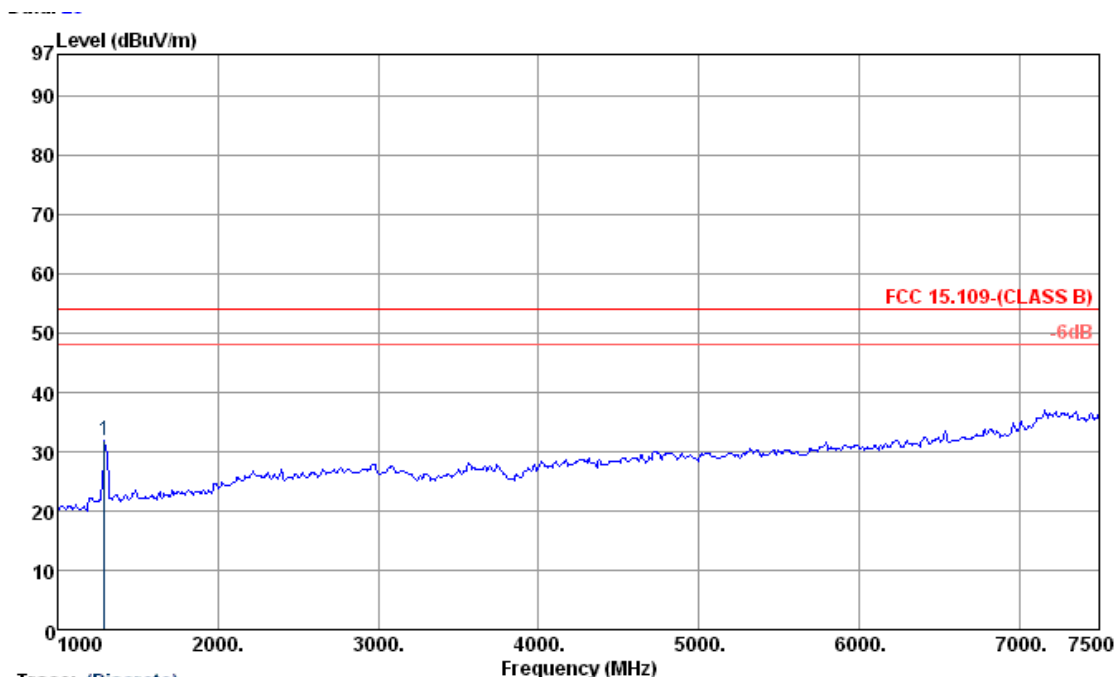
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Test Mode: Config 2
Frequency Range: 1GHz – 7.5GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge + Camera mode _config2
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Read	Antenna	Preamp	Cable		Limit	Over	
Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit Remark
-----	-----	-----	-----	-----	-----	-----	-----	-----
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB
1 p 1292.50	38.10	24.92	34.56	3.37	-6.27	31.83	54.00	-22.17 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 13GHz was 1MHz

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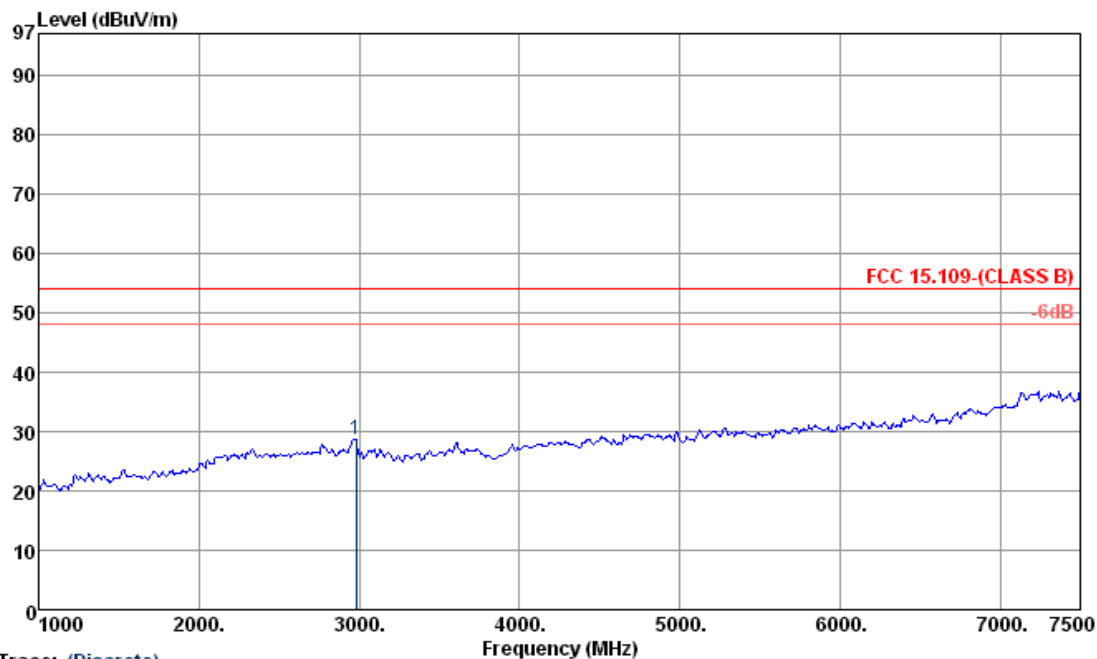
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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
Project No. : (EI-2010-80005-6) Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge + play mode _config3
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Read	Antenna	Preamp	Cable		Limit	Over	
Freq	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
-----MHz	-----dBuV	-----dB/m	-----dB	-----dB	-----dB/m	-----dBuV/m	-----dBuV/m	-----dB
1 p 2982.50	29.35	28.20	34.20	5.38	-0.62	28.73	54.00	-25.27 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 13GHz was 1MHz

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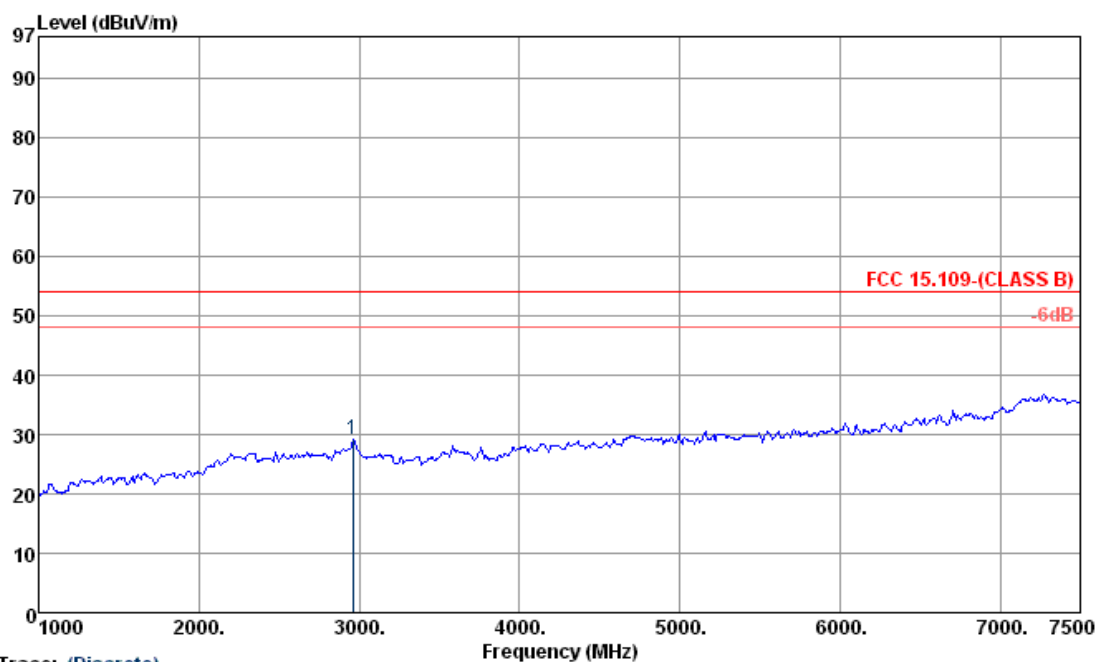
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Test Mode: Config 3
Frequency Range: 1GHz – 7.5GHz

Test Date : Sep. 20, 2010
Test By: Nick



Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-80005-6) Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge + play mode _config3
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

Freq	Read	Antenna	Preamp	Cable	Limit	Over	
MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m
1 p 2963.00	30.01	28.13	34.20	5.25	-0.82	29.19	54.00 -24.81 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 13GHz was 1MHz

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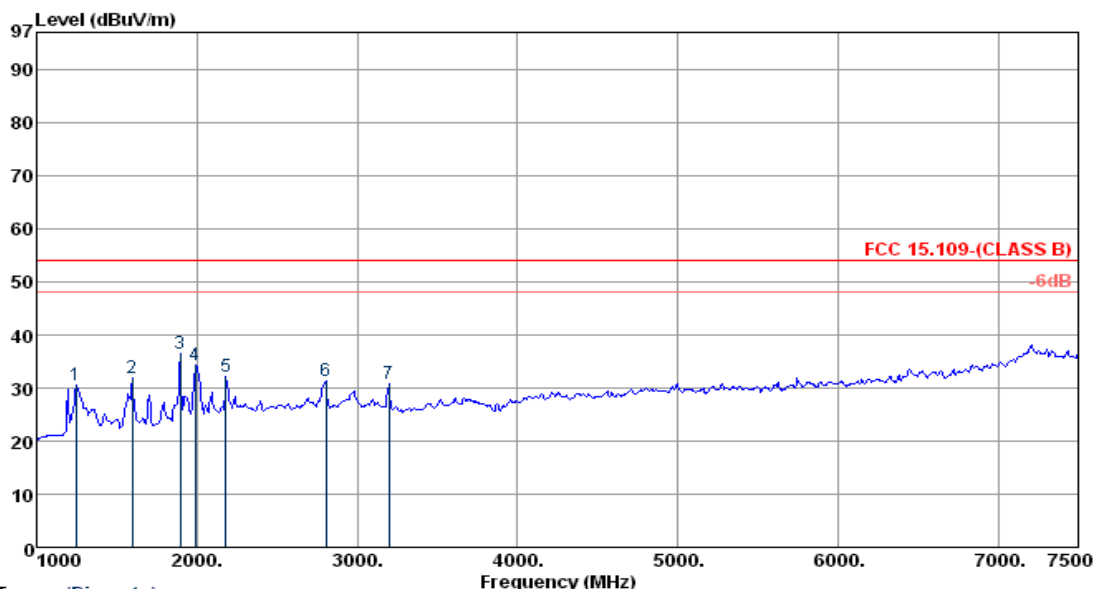
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Test Mode: Config 4
Frequency Range: 1GHz – 7.5GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Data link _config4
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	Read	Antenna	Preamp	Cable		Limit	Over	
	MHz	Level	Factor	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB	
1	1247.00	37.18	24.69	34.58	3.35	-6.54	30.64	54.00	Peak
2	1598.00	37.55	24.86	34.31	3.75	-5.70	31.85	54.00	Peak
3 p	1897.00	40.96	25.35	34.05	4.14	-4.56	36.40	54.00	Peak
4	1988.00	38.34	25.80	33.97	4.25	-3.92	34.42	54.00	Peak
5	2183.00	34.07	27.72	34.01	4.44	-1.85	32.22	54.00	Peak
6	2807.00	32.55	27.90	34.16	5.08	-1.18	31.37	54.00	Peak
7	3197.00	31.15	28.21	34.14	5.52	-0.41	30.74	54.00	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 13GHz was 1MHz

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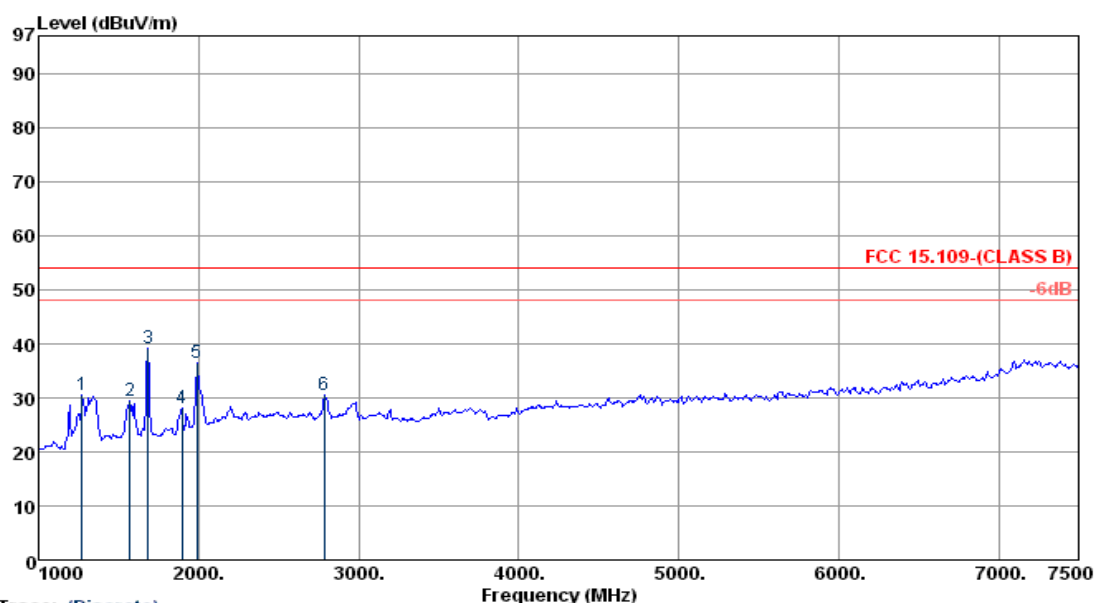
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Test Mode: Config 4
Frequency Range: 1GHz – 7.5GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Data link _config4
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

	Freq	Level	ReadAntenna	Preampl	Cable	Limit	Over	
	MHz	dBuV	Factor	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1	1273.00	36.87	24.80	34.56	3.37	-6.39	30.48	54.00 -23.52 Peak
2	1572.00	35.32	24.87	34.33	3.72	-5.74	29.58	54.00 -24.42 Peak
3 p	1682.50	44.89	24.72	34.22	3.90	-5.60	39.29	54.00 -14.71 Peak
4	1897.00	32.72	25.35	34.05	4.14	-4.56	28.16	54.00 -25.84 Peak
5	1988.00	40.38	25.80	33.97	4.25	-3.92	36.46	54.00 -17.54 Peak
6	2787.50	31.60	27.90	34.16	5.08	-1.18	30.42	54.00 -23.58 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 13GHz was 1MHz

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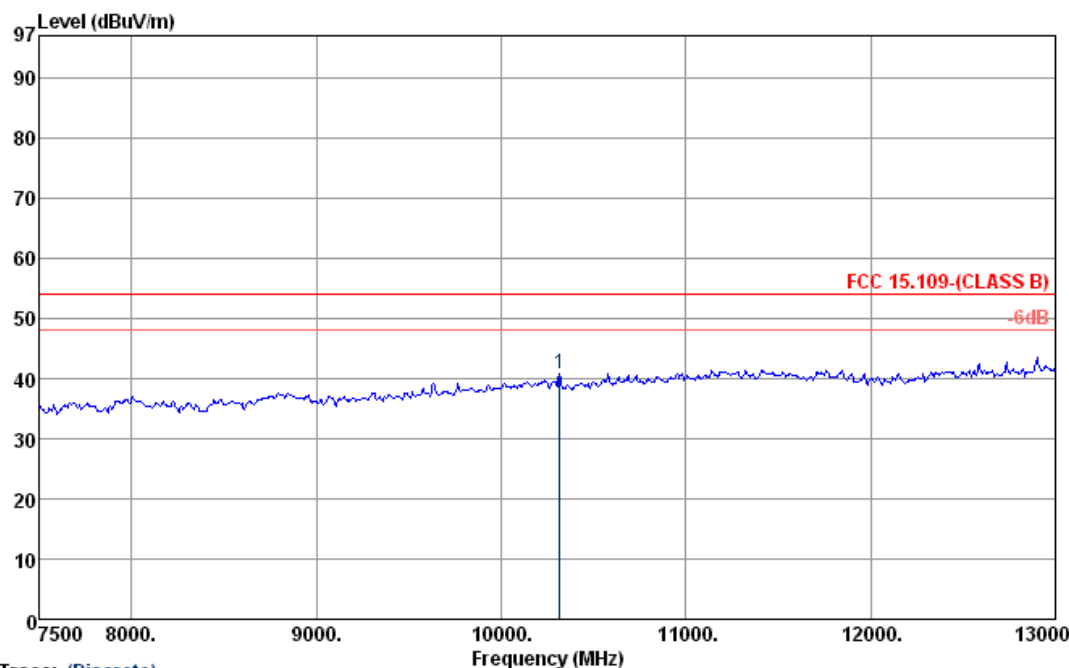
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Test Mode: Config 1

Test Date: Sep. 20, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : RF site 3
 Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
 Project No. : (EI-2010-80005-6)Toshiba_TG03
 Applicant : Toshiba Information Systems (UK) Ltd.
 EUT Description: TG03
 EUT Model : TU12-J01
 Test Mode : Charge mode _config1
 Temp./Humid. : 24/60
 Operator : Nick
 IMEI : 353861040004374

Freq	Read	Antenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
MHz	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dBuV/m	dB	
1 p 10316.00	25.29	38.67	33.82	10.66	15.51	40.80	54.00	-13.20	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 13GHz was 1MHz

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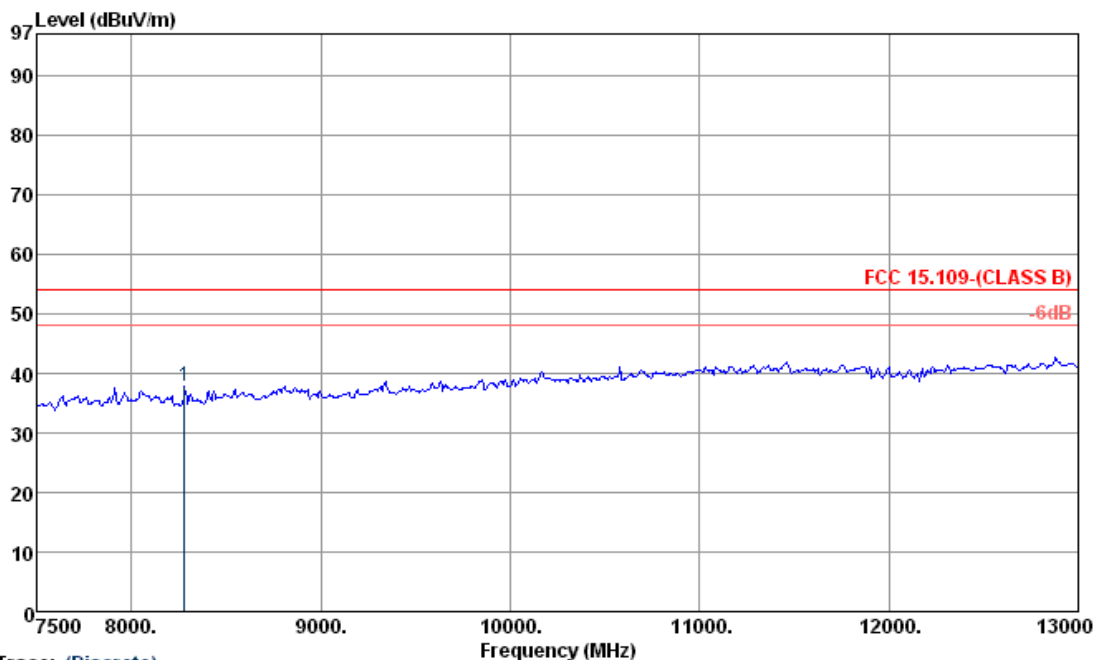
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Test Mode: Config 1
Frequency Range: 7.5GHz – 13GHz

Test Date : Sep. 20, 2010
Test By: Nick



Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge mode _config1
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

Freq	Level	Antenna	Preamp	Cable	Factor	Level	Limit	Over	Remark
MHz	dBuV	Factor	Factor	Loss	dB/m	dBuV/m	dBuV/m	dB	
1 p 8281.00	26.46	36.68	34.80	9.40	11.28	37.74	54.00	-16.26	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 13GHz was 1MHz

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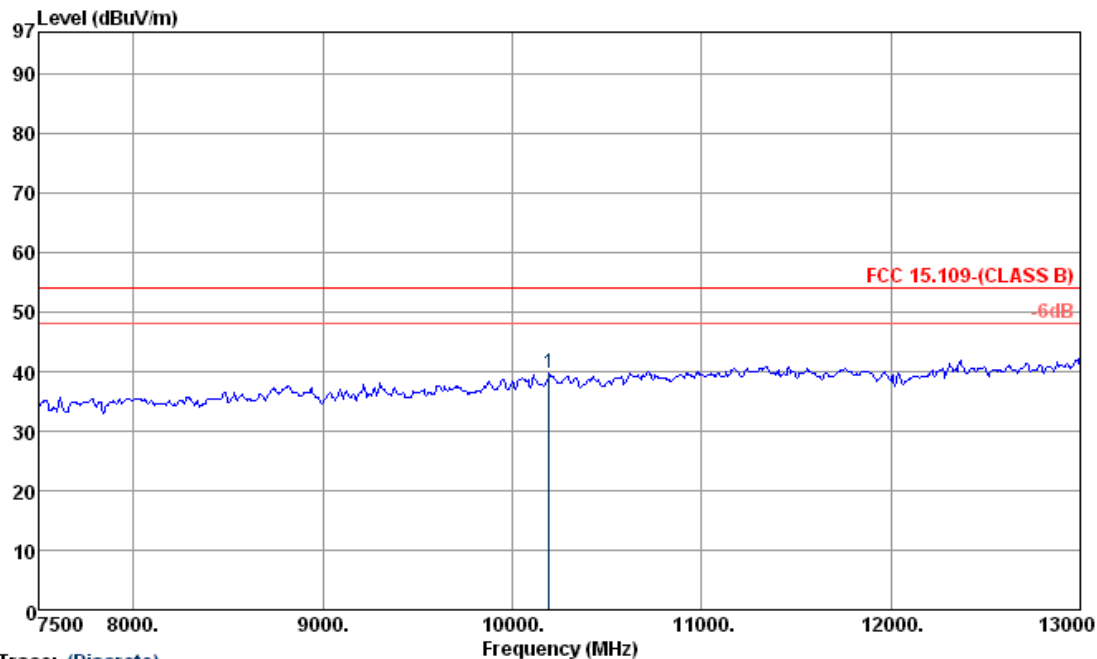
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Test Mode: Config 2

Test Date : Sep. 20, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : RF site 3
 Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
 Project No. : (EI-2010-80005-6)Toshiba_TG03
 Applicant : Toshiba Information Systems (UK) Ltd.
 EUT Description: TG03
 EUT Model : TU12-J01
 Test Mode : Charge + Camera mode _config2
 Temp./Humid. : 24/60
 Operator : Nick
 IMEI : 353861040004374

Freq	Read	Antenna	Preampl	Cable	Limit	Over	
MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	
1 p 10195.00	24.67	38.47	33.94	10.58	15.11	39.78	54.00 -14.22 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 13GHz was 1MHz

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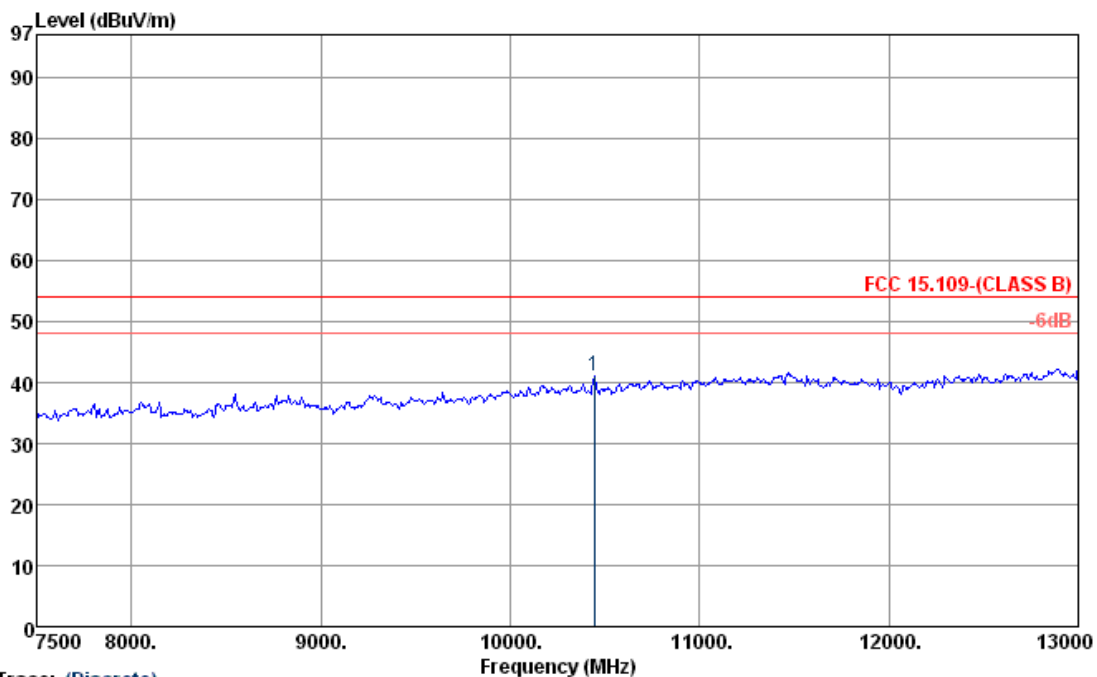
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Test Mode: Config 2

Test Date : Sep. 20, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : RF site 3
 Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
 Project No. : (EI-2010-80005-6) Toshiba_TG03
 Applicant : Toshiba Information Systems (UK) Ltd.
 EUT Description: TG03
 EUT Model : TU12-J01
 Test Mode : Charge + Camera mode _config2
 Temp./Humid. : 24/60
 Operator : Nick
 IMEI : 353861040004374

Freq	Read	Antenna	Preamp	Cable	Limit	Over	
MHz	Level	Factor	Factor	Loss	Line	Limit	Remark
	dBuV	dB/m	dB	dB	dB/m	dBuV/m	dB
1 p 10442.50	25.00	38.88	33.66	10.75	15.97	40.97	54.00 -13.03 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 13GHz was 1MHz

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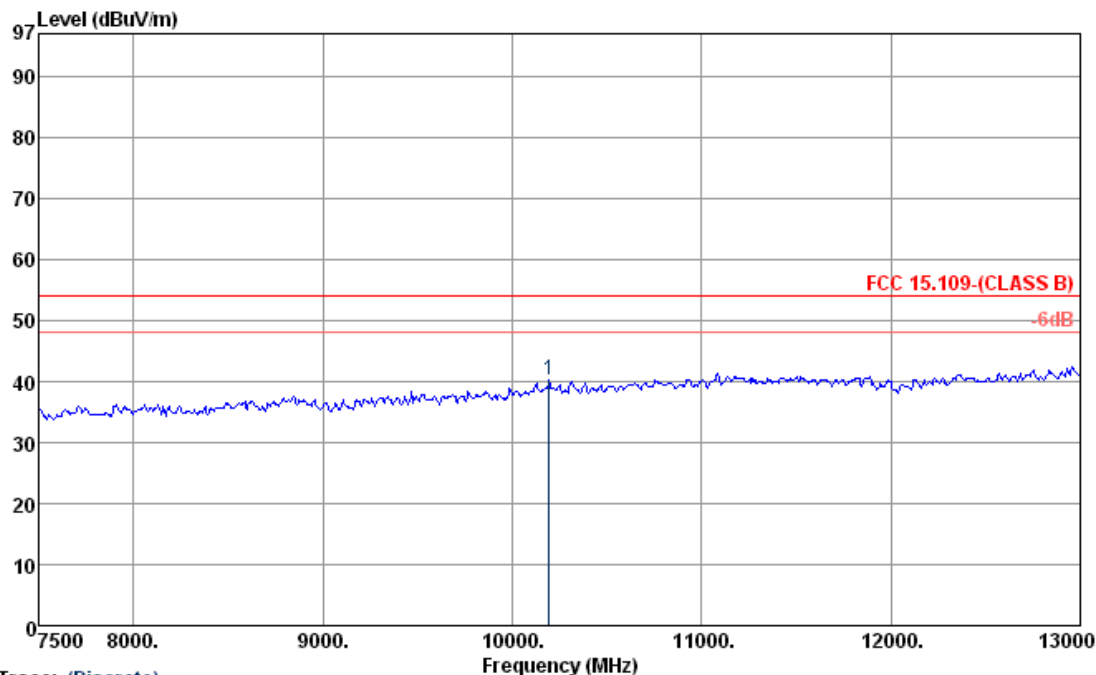
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Test Mode: Config 3
Frequency Range: 7.5GHz – 13GHz

Test Date : Sep. 20, 2010
Test By: Nick



Trace: (Discrete)

Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Charge + play mode _config3
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

Freq	Level	Antenna	Preamp	Cable	Limit	Over	Remark
MHz	dBuV	Factor	Factor	Loss	Line	Limit	
		dB/m	dB	dB	dB/m	dBuV/m	
1 p 10195.00	25.25	38.47	33.94	10.58	15.11	40.36	54.00 -13.64 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 13GHz was 1MHz

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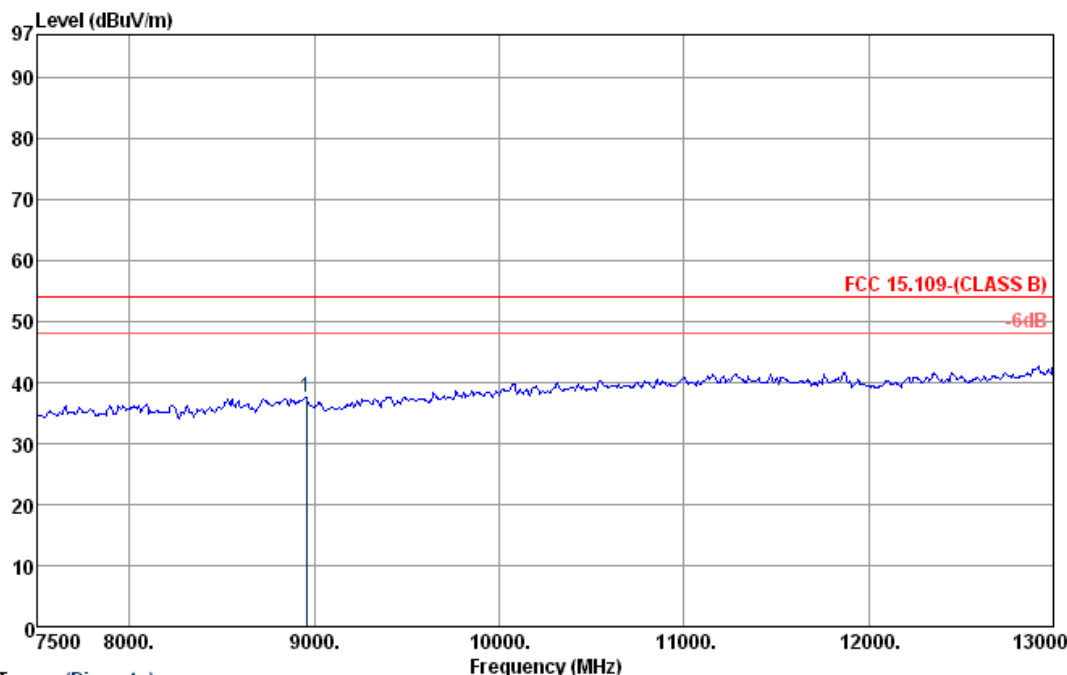
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Test Mode: Config 3

Test Date : Sep. 20, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : RF site 3
 Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
 Project No. : (EI-2010-80005-6)Toshiba_TG03
 Applicant : Toshiba Information Systems (UK) Ltd.
 EUT Description: TG03
 EUT Model : TU12-J01
 Test Mode : Charge + play mode _config3
 Temp./Humid. : 24/60
 Operator : Nick
 IMEI : 353861040004374

Freq	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 8957.50	24.86	37.44	34.54	9.90	12.80	37.66	54.00	-16.34 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 13GHz was 1MHz

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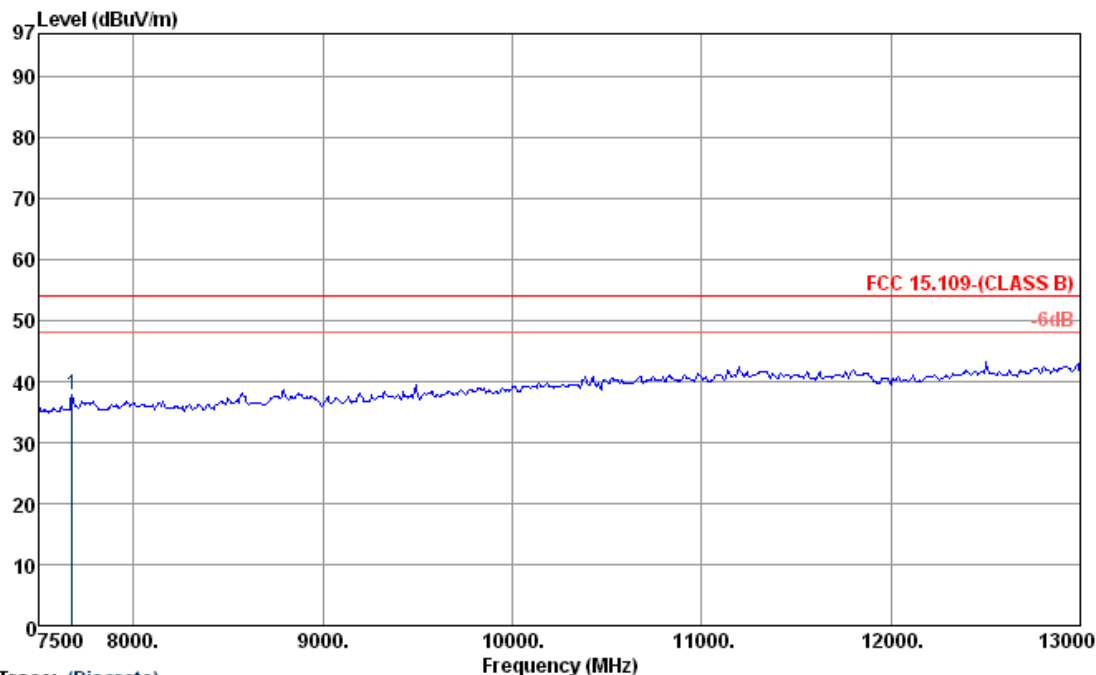
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Test Mode: Config 4

Test Date: Sep. 20, 2010

Frequency Range: 7.5GHz – 13GHz

Test By: Nick



Trace: (Discrete)

Site : RF site 3
 Condition : FCC 15.109-(CLASS B) BBHA9120D(966) VERTICAL
 Project No. : (EI-2010-80005-6)Toshiba_TG03
 Applicant : Toshiba Information Systems (UK) Ltd.
 EUT Description: TG03
 EUT Model : TU12-J01
 Test Mode : Data link _config4
 Temp./Humid. : 24/60
 Operator : Nick
 IMEI : 353861040004374

Freq	Level	Antenna	Preamp	Cable	Limit	Over	Remark
MHz	dBuV	Factor	Factor	Loss	Line	Limit	
		dB/m	dB	dB	dB/m	dBuV/m	
1 p 7676.00	27.16	36.48	34.84	9.00	10.64	37.80	54.00 -16.20 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 13GHz was 1MHz

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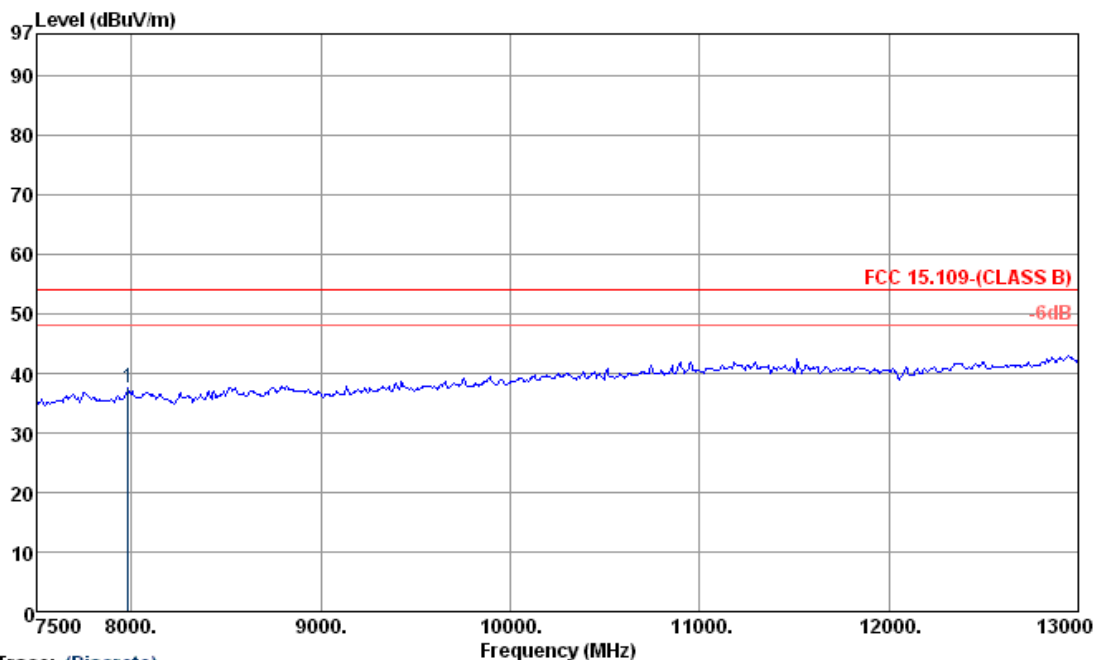
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Test Mode: Config 4
Frequency Range: 7.5GHz – 13GHz

Test Date : Sep. 120, 2010
Test By: Nick



Site : RF site 3
Condition : FCC 15.109-(CLASS B) BBHA9120D(966) HORIZONTAL
Project No. : (EI-2010-80005-6)Toshiba_TG03
Applicant : Toshiba Information Systems (UK) Ltd.
EUT Description: TG03
EUT Model : TU12-J01
Test Mode : Data link _config4
Temp./Humid. : 24/60
Operator : Nick
IMEI : 353861040004374

Freq	Level	Antenna	Preamp	Cable	Limit	Over	Remark
MHz	dBuV	Factor	Factor	Loss	Line	Limit	
	dBuV/m	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 p 7984.00	26.16	36.99	34.90	9.21	11.30	37.46	54.00 -16.54 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 13GHz was 1MHz

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