

Report No.: EI/2011/50011-01 Issue Date: Nov. 28, 2011

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Brand Name: Motorola

Model Name: MB865

Model Different: N/A

FCC ID: IHDT56MV2

Report No.: EI/2011/50011-01

Issue Date: Nov. 28, 2011

FCC Rule Part: Part 15 B, Class B

Filing Type: Certification

Prepared for: Motorola Mobility, Inc.

600 North U.S. Highway 45, Libertyville, IL

60048-5343

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

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

Taipei County, Taiwan





0513

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VERIFICATION OF COMPLIANCE

Applicant: Motorola Mobility, Inc.

600 N. U.S. Highway 45 Libertyville, IL 60048-5343

Brand Name: Motorola

Model No.: MB865

Model Difference: N/A

FCC ID: IHDT56MV2

Model Name: N/A

File Number: EI/2011/50011

Date of test: May. 31, 2011 ~ Jun. 13, 2011

Date of EUT Receive: May. 31, 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:	Nov. 28, 2011
Prepared By:	Nick Lin / Engineer	Date:	Nov. 28, 2011
Approved By:	Tiffany Kao / Clerk Jun Chang	Date:	Nov. 28, 2011
	Jim Chang / Supervisor	-	

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Version

Version No.	Date	Description
00	Nov. 28, 2011	Initial creation of document

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1. GENERAL INFORMATION

General:

Brand Name	Motorola		
Model Name	MB865		
Model Difference	N/A		
Data Cable (USB)	Model No	.: SKN6378A, Supplier: Motorola	
SHF (Simple Hands-Free)	Model No	.: SJYN0234B, Supplier: Motorola	
	3.8 Vdc re	e-chargeable battery or 5Vdc by AC/DC power adapter	
Power Supply	Battery:	Model No.: SNN5892A, Supplier: Motorola	
	Adapter:	Model:FMP5202C, Supplier: Motorola	
Processor Speed	1.0 GHz		
Xtal	26MHz, 3	2.768KHz	
TCXO	26MHz		
Memory Size	1GB LPDDR2 SDRAM, 8GB eMMC.		
Video Resolution	1080p Full HD		
Video Clock	Max 148.5 MHz @ 1080p		
Refresh rate	60Hz		

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GSM and WCDMA:

	Operating Frequency		Rated Power		
	GSM / GPRS 850, Class 12	824 MHz– 849MHz	33 dBm		
	EDGE 850, Class 12	824 MHz- 849MHz	27 dBm		
Cellular Phone Standards	GSM / GPRS 1900, Class 12	1850MHz – 1910MHz	30 dBm		
Frequency Range and Power:	EDGE 1900, Class 12	1850MHz – 1910MHz	26 dBm		
Tower.	WCDMA/HSUPA/HSDPA Band II	1852.4MHz – 1907.6MHz	24 dBm		
	WCDMA/HSUPA/HSDPA Band V	826.4MHz – 846.6 MHz	24 dBm		
	WCDMA/HSUPA/HSDPA Band VIII	882.4MHz – 912.6 MHz	24 dBm		
Hardware Version:	P3				
Software Version:	Edison-eng 2.3.3.5.5.1_79eng	5			
	GPRS 850: 245KGXW, GPRS 1900 :248KGXW				
Type of Emission	EDGE 850: 245KG7W, EDGE 1900:252KG7W				
	WCDMA Band II: 4M18F9W,HSUPA Band II: 4M17F9W				
	WCDMA Band V: 4M17F9W,HSUPA Band V: 4M16F9W				
IMEI:	3563780400400081				

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WLAN:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b : 18.74dBm g : 18.88dBm	DSSS, OFDM	b : 13M9G1D g : 16M4G1D
11n	HT20 2412-2462	11	n:18.80dBm	OFDM	n : 17M6G1D
Antenna Designation:		ILA Antenna, 0dBi.			
Modulation type:			CCK, DQPSK, DBPSK for DSSS 64QAM. 16QAM, QPSK, BPSK for OFDM		
Transition Rate:			C	5.5/11 Mbps; 12/18/24/36/48/54 M Hz: 6.5 – 72.2Mbp	1

Bluetooth:

Bluetooth Version:	$V2.1 + EDR (GFSK + \pi/4DQPSK + 8DPSK)$
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	11.73dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Operating Mode:	Point-to-Point
Antenna Designation:	ILA Antenna, 0dBi.

FM Receiver:

Operating Frequency	87.5-108MHz
Modulation Technique	Frequency Modulation
Operating Mode	Point-to-Point

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: IHDT56MV2 filing to comply with Part15 Subpart B, class B of the FCC CFR 47 Rules.

1.3 Test Methodology

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

1.4 Test Facility

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

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

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

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System Test Configuration

2.1 EUT Configuration

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

2.2 EUT Exercise

The EUT was operated in the normal continuous transmitting.

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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

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2.4 Limitation

(1) Conducted Emission

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

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

Note

(2) Radiated Emission

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

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

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

2. Measurement was performed at an antenna to the closed point of EUT distance of 3 meters.

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^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (config 1, 2, 3, 5, 7)

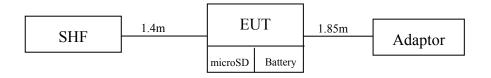


Fig. 2-1 Configuration of Tested System (config 4)

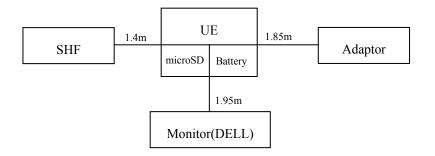
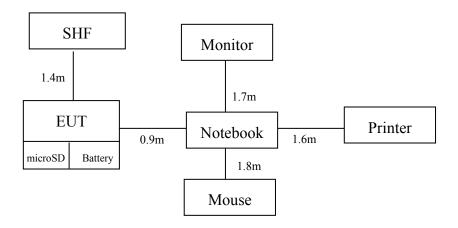


Fig. 2-2 Configuration of Tested System (config 6)



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Fig. 2-3 Configuration of Tested System (Remote Side)

Radio
Communication
Analyzer

Notebook
Wireless AP
GPS Signal
Generator

Table 2-1 Support Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	FCC ID	Data Cable	Power Cord
	Radio						
1.	Communication	R&S	CMU200	102189	N/A	N/A	N/A
	Analyzer						
2	Notabook	Lanava	L412	LR-ZYMYD	N/A	0.9m	Un shielded
2.	Notebook	otebook Lenovo	L412	10/12	IN/A	Un-shielded	Un-shielded
3.	Monitor	НР	Vf51	TWTFG01092	N/A	1.9m Un-shielded	Un-shielded
4.	Monitor	DELL	U2410-3Y	082WXD	N/A	Un-shielded	Un-shielded
5.	Printer	HP	DJ640C	TH12QE110Y	N/A	1.6m Un-shielded	Un-shielded
6.	Mouse	HP	MO19UCA	020507020	N/A	1.8m, Un-Shielded	Un-shielded
7.	GPS Signal	WELNAVIGAT	GS 50	607492	N/A	Un-Shielded	Un-shielded
7.	Generator	E INC.	G5 50	007432	1 \ //A	OII-SIIICIUCU	OII-SIIICIQEQ
8.	Wireless AP	Window AD D Link DD 200	DIR-300	P1DY29A000	KA2DIR300B	1.46m,	Un-shielded
		wireless AP D-Lir	D-Link	DIK-300	133	1	Un-Shielded

Table 2-2 Support Equipment: Notebook Key Part

NO.	Equipment	Trade Name	Model Name
1	CPU	Intel	M380 (2.53GHz)
2	Memory	N/A	N/A (1.86GHz)

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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:

ME	3865	Config 1	Config 2	Config 3	Config 4
	Applicable standard (FCC)		Part 1	5B	
	Accessories	UE + Battery + AC Adaptor + SHF	UE + Battery + AC Adaptor + SHF	UE + Battery + AC Adaptor + SHF	UE + Battery + AC Adaptor + SHF + HDMI Cable
		1KHz & Color bar	FM	Camera	НОМІ
EN	Description				
No.					
8.2	radiated emission	Play mode	FM mode	REC mode	Play mode
8.3	conducted emission (DC Power)	NA	N/A	NA	NA
8.4	conducted emission (AC Power)	cted emission (AC Play mode		REC mode	Play mode

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ME	3865	Config 5	Config 6	Config 7
	Applicable standard (FCC)		Part 15B	
	Accessories	UE + Battery + AC Adaptor + SHF	UE + Battery + Data cable + SHF	UE + Battery + AC Adaptor
		Data (SD & Internal storage)	Data (PC link)	GPS
		Play Music	Camera REC	Camera REC
EN No.	Description			
8.2	radiated emission	Data link	Data link	GPS mode
8.3	conducted emission (DC Power)	N/A	N/A	N/A
8.4	conducted emission (AC Power)	Data link	Data link	GPS mode

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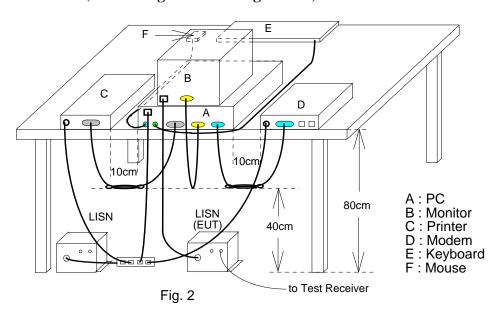
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5. Conducted Emissions Test

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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Measurement Equipment Used:

Conducted Emission Test Site										
EQUIPMENT	EQUIPMENT MFR MODEL SERIAL									
TYPE		NUMBER	NUMBER	CAL.						
EMI Test Receiver	R&S	ESCS30	828985/004	09/23/2010	09/22/2011					
LISN	Rolf-Heine	NNB-2/16Z	99012	03/31/2011	03/30/2012					
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/31/2011	03/30/2012					
Coaxial Cables	N/A	WK CE Cable	N/A	11/27/2010	11/26/2011					

5.4 **Measurement Result**

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

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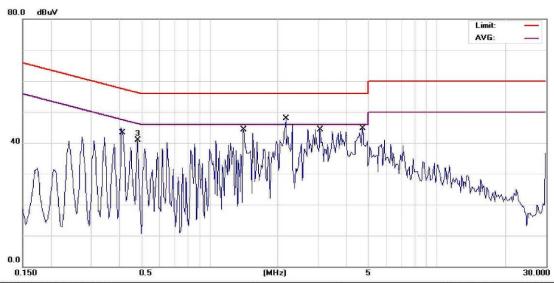


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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 1	Test Date:	Jun. 13, 2011
		Test By:	Nick



Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Full Function (Play mode) _config1

Phase:	L1	Temperature:	24 ℃	,
Power:	AC 120V/60Hz	Humidity: 6	61%	

Distance: Air Pressure: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1		0.4159	43.89	0.12	44.01	57.53	-13.52	QP	
2	*	0.4159	36.99	0.12	37.11	47.53	-10.42	AVG	
3		0.4800	40.77	0.12	40.89	56.34	-15.45	peak	
4		1.4164	35.29	0.13	35.42	56.00	-20.58	QP	
5		1.4164	7.63	0.13	7.76	46.00	-38.24	AVG	
6		2.1581	40.37	0.15	40.52	56.00	-15.48	QP	
7		2.1581	30.33	0.15	30.48	46.00	-15.52	AVG	
8		3.0653	38.67	0.16	38.83	56.00	-17.17	QP	
9		3.0653	22.62	0.16	22.78	46.00	-23.22	AVG	
10		4.7020	34.02	0.18	34.20	56.00	-21.80	QP	
11		4.7020	21.05	0.18	21.23	46.00	-24.77	AVG	

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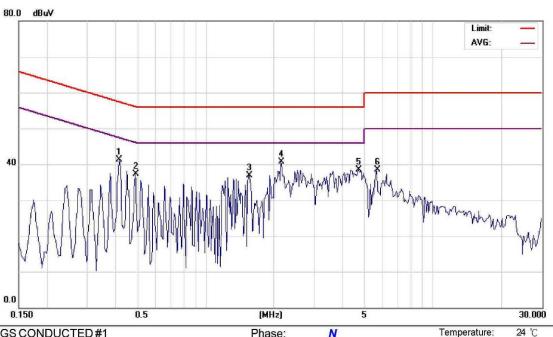


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Humidity: Air Pressure:

hpa



N

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Full Function (Play mode) _config1

No. Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dВ	Detector	Comment
1	0.4150	41.15	0.12	41.27	57.55	-16.28	peak	
2	0.4900	37.23	0.12	37.35	56.17	-18.82	peak	
3	1.5600	36.75	0.13	36.88	56.00	-19.12	peak	
4 *	2.1500	40.54	0.15	40.69	56.00	-15.31	peak	
5	4.7000	38.34	0.18	38.52	56.00	-17.48	peak	
6	5.7000	38.21	0.21	38.42	60.00	-21.58	peak	

Power:

Distance:

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Humidity:

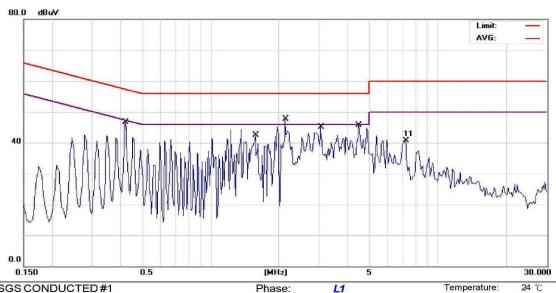
Air Pressure:

61%

hpa

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 2	Test Date:	Jun. 13, 2011
		Test By:	Nick



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Full Function (FM mode) _config2

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1		0.4200	44.80	0.12	44.92	57.45	-12.53	QP	
2	*	0.4200	36.54	0.12	36.66	47.45	-10.79	AVG	
3		1.5775	38.45	0.13	38.58	56.00	-17.42	QР	
4		1.5775	23.29	0.13	23.42	46.00	-22.58	AVG	
5		2.1352	38.44	0.15	38.59	56.00	-17.41	QP	
6		2.1352	18.83	0.15	18.98	46.00	-27.02	AVG	
7		3.0608	39.30	0.16	39.46	56.00	-16.54	QP	
8		3.0608	26.40	0.16	26.56	46.00	-19.44	AVG	
9		4.4992	40.13	0.18	40.31	56.00	-15.69	QP	
10		4.4992	24.67	0.18	24.85	46.00	-21.15	AVG	
11		7.2400	40.37	0.28	40.65	60.00	-19.35	peak	

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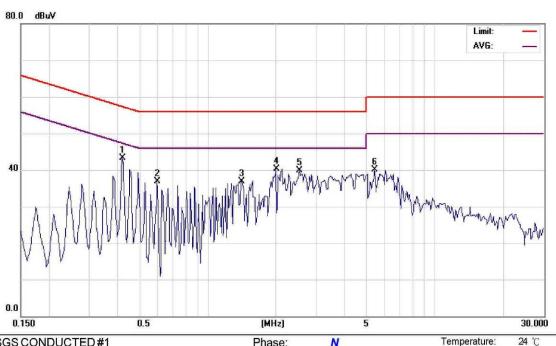
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Temperature:

Air Pressure:

hpa

Humidity:



Phase:

Power:

Distance:

N

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison

M/N: MB865

Note: Full Function (FM mode) _config2

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment	
1	*	0.4200	43.27	0.12	43.39	57.45	-14.06	peak		
2		0.6000	36.70	0.12	36.82	56.00	-19.18	peak		
3		1.4100	36.84	0.13	36.97	56.00	-19.03	peak		
4		2.0100	40.20	0.15	40.35	56.00	-15.65	peak		
5		2.5400	39.68	0.16	39.84	56.00	-16.16	peak		
6		5.4400	39.89	0.20	40.09	60.00	-19.91	peak		

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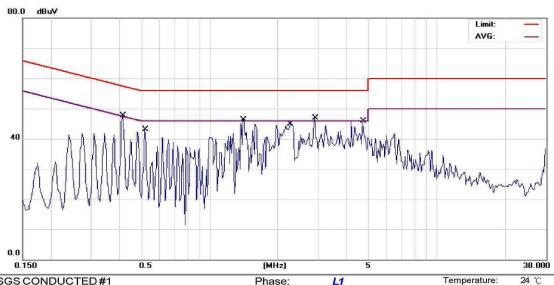
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61%

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 3	Test Date:	Jun. 13, 2011
		Test By:	Nick



Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Full Function (REC mode) config3

Phase:	L1	Temperatur
Power:	AC 120V/60Hz	Humidity:

Air Pressure: Distance: hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1		0.4149	44.52	0.12	44.64	57.55	-12.91	QP	
2	*	0.4149	37.66	0.12	37.78	47.55	-9.77	AVG	
3		0.5191	40.69	0.12	40.81	56.00	-15.19	QP	
4		0.5191	30.42	0.12	30.54	46.00	-15.46	AVG	
5		1.4108	39.56	0.13	39.69	56.00	-16.31	QP	
6		1.4108	23.80	0.13	23.93	46.00	-22.07	AVG	
7		2.2685	36.94	0.15	37.09	56.00	-18.91	QP	
8		2.2685	18.12	0.15	18.27	46.00	-27.73	AVG	
9		2.8918	37.99	0.16	38.15	56.00	-17.85	QP	
10		2.8918	19.80	0.16	19.96	46.00	-26.04	AVG	
11		4.7324	38.58	0.18	38.76	56.00	-17.24	QP	
12		4.7324	24.02	0.18	24.20	46.00	-21.80	AVG	

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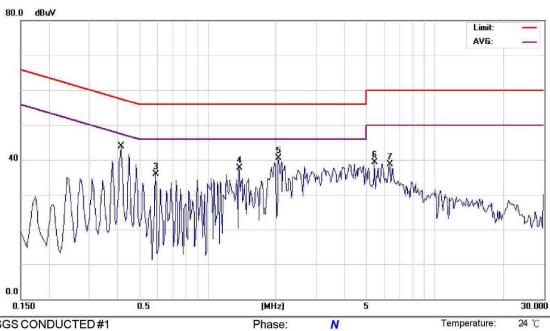
Report No.: EI/2011/50011-01 Issue Date: Nov. 28, 2011

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Humidity:

Air Pressure:

hpa



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Full Function (REC mode) _config3

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment	
1		0.4147	42.85	0.12	42.97	57.55	-14.58	QP		
2	*	0.4147	35.85	0.12	35.97	47.55	-11.58	AVG		
3		0.5900	35.71	0.12	35.83	56.00	-20.17	peak		
4		1.3800	37.51	0.13	37.64	56.00	-18.36	peak		
5		2.0500	40.27	0.15	40.42	56.00	-15.58	peak		
6		5.4200	39.14	0.20	39.34	60.00	-20.66	peak		
7		6.3200	38.53	0.24	38.77	60.00	-21.23	peak		

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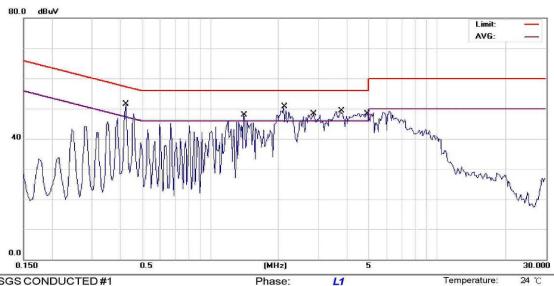
Humidity:

Air Pressure:

hba

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 4	Test Date:	Jun. 13, 2011
Resolution:	Low (HD-480-272)	Test By:	Nick



Power:

Distance:

L1

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Play mode(HDMI-480*272) config4

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1	*	0.4249	50.99	0.12	51.11	57.35	-6.24	QP	
2		0.4249	40.13	0.12	40.25	47.35	-7.10	AVG	
3		1.4149	42.63	0.13	42.76	56.00	-13.24	QP	
4		1.4149	30.05	0.13	30.18	46.00	-15.82	AVG	
5		2.1213	45.65	0.15	45.80	56.00	-10.20	QP	
6		2.1213	32.40	0.15	32.55	46.00	-13.45	AVG	
7		2.8665	43.40	0.16	43.56	56.00	-12.44	QP	
8		2.8665	29.59	0.16	29.75	46.00	-16.25	AVG	
9		3.7872	43.75	0.17	43.92	56.00	-12.08	QP	
10		3.7872	32.37	0.17	32.54	46.00	-13.46	AVG	
11		4.8917	45.04	0.18	45.22	56.00	-10.78	QP	
12		4.8917	34.03	0.18	34.21	46.00	-11.79	AVG	

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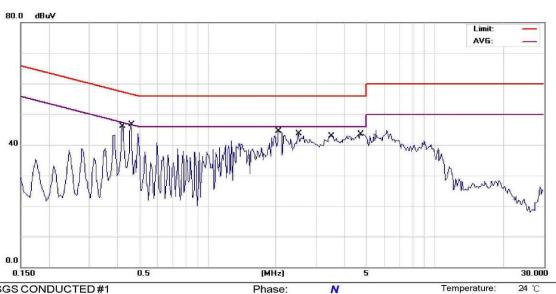
Report No.: EI/2011/50011-01 Issue Date: Nov. 28, 2011

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Humidity:

Air Pressure:

hpa



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Play mode(HDMI-480*272) config4

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1		0.4254	45.96	0.16	46.12	57.34	-11.22	QP	
2		0.4254	38.65	0.16	38.81	47.34	-8.53	AVG	
3		0.4597	42.72	0.16	42.88	56.70	-13.82	QP	
4	*	0.4597	38.88	0.16	39.04	46.70	-7.66	AVG	
5		2.0497	42.71	0.18	42.89	56.00	-13.11	QP	
6		2.0497	32.58	0.18	32.76	46.00	-13.24	AVG	
7		2.5142	42.27	0.19	42.46	56.00	-13.54	QP	
8		2.5142	28.18	0.19	28.37	46.00	-17.63	AVG	
9		3.5059	40.60	0.20	40.80	56.00	-15.20	QP	
10		3.5059	28.47	0.20	28.67	46.00	-17.33	AVG	
11		4.6989	37.73	0.22	37.95	56.00	-18.05	QP	
12		4.6989	28.79	0.22	29.01	46.00	-16.99	AVG	

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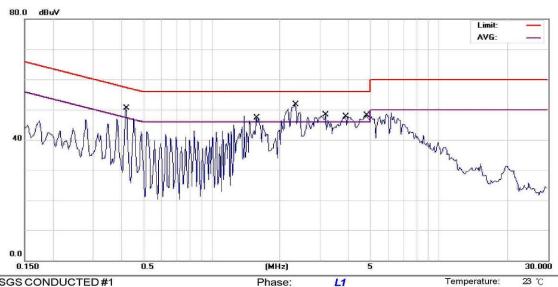
Humidity:

Air Pressure:

hpa

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 4	Test Date:	Jun. 13, 2011
Resolution:	Mid (HD-1280-720)	Test By:	Nick



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison

M/N: MB865

Note: Play mode (HDMI-1280*720) config4

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1		0.4199	48.99	0.12	49.11	57.45	-8.34	QP	
2	*	0.4199	43.35	0.12	43.47	47.45	-3.98	AVG	
3		1.5708	41.82	0.13	41.95	56.00	-14.05	QP	
4		1.5708	35.84	0.13	35.97	46.00	-10.03	AVG	
5		2.3377	48.10	0.15	48.25	56.00	-7.75	QP	
6		2.3377	36.39	0.15	36.54	46.00	-9.46	AVG	
7		3.1535	39.20	0.16	39.36	56.00	-16.64	QP	
8		3.1535	26.55	0.16	26.71	46.00	-19.29	AVG	
9		3.8862	43.94	0.17	44.11	56.00	-11.89	QP	
10		3.8862	24.18	0.17	24.35	46.00	-21.65	AVG	
11		4.8123	37.93	0.18	38.11	56.00	-17.89	QP	
12		4.8123	24.44	0.18	24.62	46.00	-21.38	AVG	

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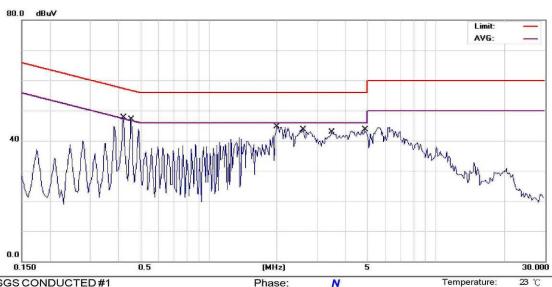
Page: 26 of 83

Humidity:

Air Pressure:

59%

hpa



Phase:

Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Play mode(HDMI-1280*720) _config4

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment
1		0.4224	45.98	0.16	46.14	57.40	-11.26	QP	
2		0.4224	38.77	0.16	38.93	47.40	-8.47	AVG	
3		0.4565	46.23	0.16	46.39	56.76	-10.37	QP	
4	*	0.4565	38.51	0.16	38.67	46.76	-8.09	AVG	
5		2.0030	42.37	0.18	42.55	56.00	-13.45	QP	
6		2.0030	27.49	0.18	27.67	46.00	-18.33	AVG	
7		2.5977	41.02	0.19	41.21	56.00	-14.79	QP	
8		2.5977	31.81	0.19	32.00	46.00	-14.00	AVG	
9		3.4753	39.67	0.20	39.87	56.00	-16.13	QP	
10		3.4753	28.82	0.20	29.02	46.00	-16.98	AVG	
11		4.8701	37.91	0.22	38.13	56.00	-17.87	QP	
12		4.8701	26.95	0.22	27.17	46.00	-18.83	AVG	

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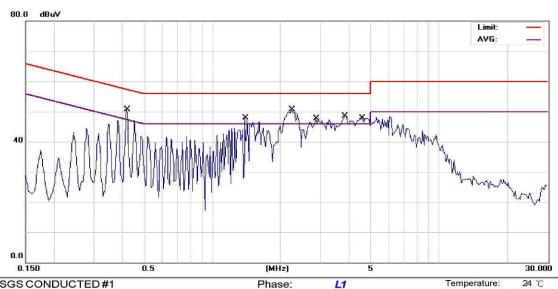
Humidity:

Air Pressure:

hpa

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 4	Test Date:	Jun. 13, 2011
Resolution:	High (HD-1920-1080)	Test By:	Nick



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison

M/N: MB865

Note: Play mode(HDMI_1920*1080) _config4

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1		0.4194	45.24	0.12	45.36	57.46	-12.10	QP	
2	*	0.4194	37.37	0.12	37.49	47.46	-9.97	AVG	
3		1.3986	45.36	0.13	45.49	56.00	-10.51	QP	
4		1.3986	35.45	0.13	35.58	46.00	-10.42	AVG	
5		2.2333	41.47	0.15	41.62	56.00	-14.38	QP	
6		2.2333	27.31	0.15	27.46	46.00	-18.54	AVG	
7		2.8691	43.29	0.16	43.45	56.00	-12.55	QP	
8		2.8691	26.24	0.16	26.40	46.00	-19.60	AVG	
9		3.8520	39.65	0.17	39.82	56.00	-16.18	QP	
10		3.8520	24.68	0.17	24.85	46.00	-21.15	AVG	
11		4.5779	44.87	0.18	45.05	56.00	-10.95	QP	
12		4.5779	26.98	0.18	27.16	46.00	-18.84	AVG	

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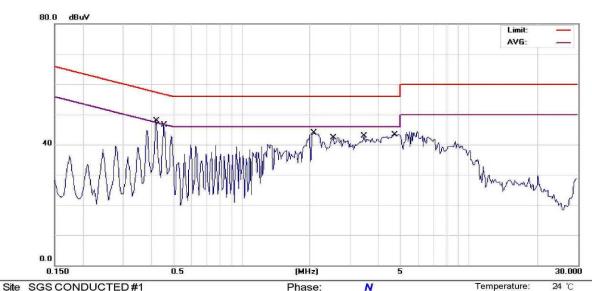
Report No.: EI/2011/50011-01 Issue Date: Nov. 28, 2011

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Humidity:

Air Pressure:

61%



Power:

Distance:

AC 120V/60Hz

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Play mode(HDMI_1920*1080) _config4

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment
1		0.4213	46.26	0.16	46.42	57.42	-11.00	QP	
2	*	0.4213	38.12	0.16	38.28	47.42	-9.14	AVG	
3		0.4572	46.05	0.16	46.21	56.74	-10.53	QP	
4		0.4572	36.71	0.16	36.87	46.74	-9.87	AVG	
5		2.0680	41.15	0.18	41.33	56.00	-14.67	QP	
6		2.0680	30.01	0.18	30.19	46.00	-15.81	AVG	
7		2.5326	39.58	0.19	39.77	56.00	-16.23	QP	
8		2.5326	23.72	0.19	23.91	46.00	-22.09	AVG	
9		3.4760	39.65	0.20	39.85	56.00	-16.15	QP	
10		3.4760	28.99	0.20	29.19	46.00	-16.81	AVG	
11		4.7129	39.72	0.22	39.94	56.00	-16.06	QP	
12		4.7129	24.43	0.22	24.65	46.00	-21.35	AVG	

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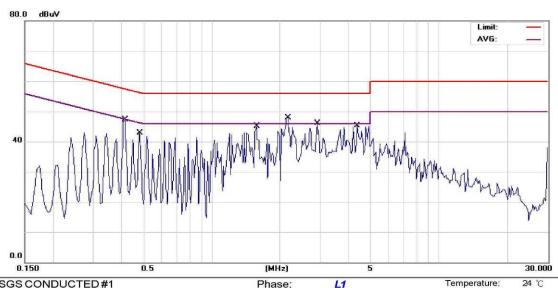
Humidity:

Air Pressure:

61%

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 5	Test Date:	Jun. 13, 2011
		Test By:	Nick



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison

M/N: MB865

Note: Full Function (Data link) _config5 _Flash to SD

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment
1		0.4140	43.81	0.12	43.93	57.57	-13.64	QP	
2	*	0.4140	36.54	0.12	36.66	47.57	-10.91	AVG	
3		0.4803	37.87	0.12	37.99	56.33	-18.34	QP	
4		0.4803	28.04	0.12	28.16	46.33	-18.17	AVG	
5		1.5734	37.04	0.13	37.17	56.00	-18.83	QP	
6		1.5734	18.89	0.13	19.02	46.00	-26.98	AVG	
7		2.1561	36.62	0.15	36.77	56.00	-19.23	QP	
8		2.1561	20.18	0.15	20.33	46.00	-25.67	AVG	
9		2.9080	33.81	0.16	33.97	56.00	-22.03	QP	
10		2.9080	27.64	0.16	27.80	46.00	-18.20	AVG	
11		4.3684	36.97	0.18	37.15	56.00	-18.85	QP	
12		4.3684	21.85	0.18	22.03	46.00	-23.97	AVG	

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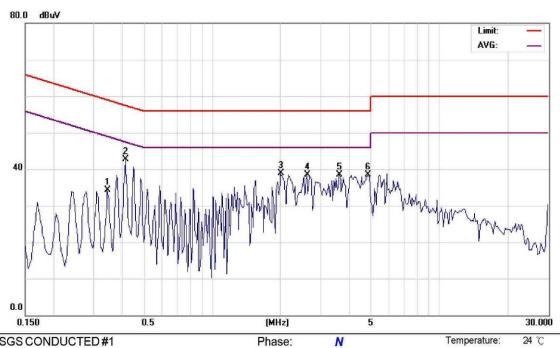


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Humidity:

Air Pressure:



AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison

M/N: MB865

Note: Full Function (Data link) _config5 _Flash to SD

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment	
1		0.3450	34.17	0.12	34.29	59.08	-24.79	peak		
2	*	0.4150	42.61	0.12	42.73	57.55	-14.82	peak		
3		2.0100	38.75	0.15	38.90	56.00	-17.10	peak		
4		2.6100	38.32	0.16	38.48	56.00	-17.52	peak		
5		3.6400	38.43	0.17	38.60	56.00	-17.40	peak		
6		4.8700	38.33	0.18	38.51	56.00	-17.49	peak		

Power:

Distance:

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24 ℃

Temperature:

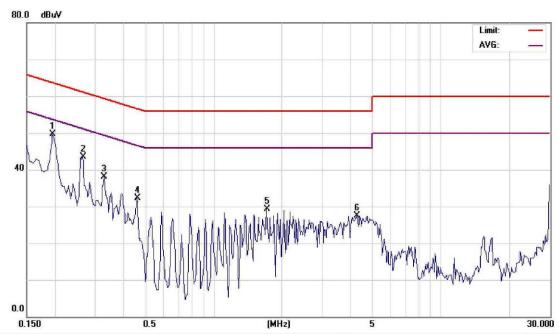
Air Pressure:

Humidity:

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 6	Test Date:	Jun. 13, 2011
		Test By:	Nick



Phase:

Power:

Distance:

L1

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Full Function (Data link) config6

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment	
1	*	0.1950	49.60	0.12	49.72	63.82	-14.10	peak		
2		0.2650	43.37	0.12	43.49	61.27	-17.78	peak		
3		0.3300	37.99	0.12	38.11	59.45	-21.34	peak		
4		0.4600	32.09	0.12	32.21	56.69	-24.48	peak		
5		1.7100	29.21	0.14	29.35	56.00	-26.65	peak		
6		4.2900	27.43	0.17	27.60	56.00	-28.40	peak		

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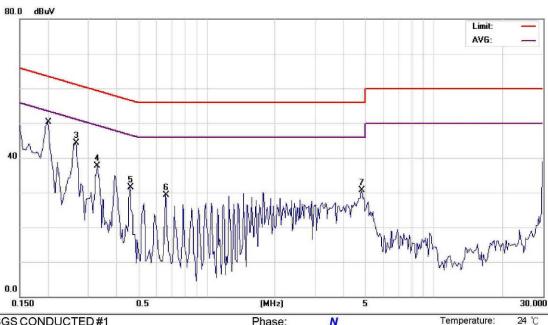


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Humidity:

Air Pressure:



Phase:

Power:

Distance:

N

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: Full Function (Data link) _config6

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dΒ	dBuV	dBuV	dВ	Detector	Comment	
1	*	0.1995	48.93	0.12	49.05	63.63	-14.58	QP		
2		0.1995	38.90	0.12	39.02	53.63	-14.61	AVG		
3		0.2650	44.14	0.12	44.26	61.27	-17.01	peak		
4		0.3300	37.63	0.12	37.75	59.45	-21.70	peak		
5		0.4600	31.48	0.12	31.60	56.69	-25.09	peak		
6		0.6600	29.20	0.12	29.32	56.00	-26.68	peak		
7		4.8100	30.56	0.18	30.74	56.00	-25.26	peak		

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Humidity:

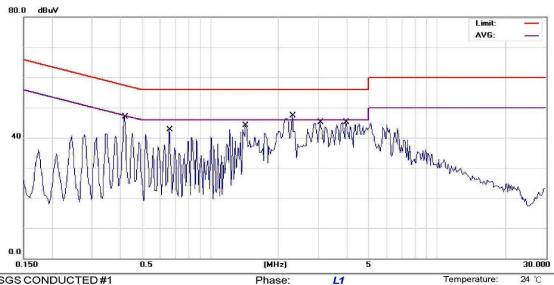
Air Pressure:

61%

hpa

AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Config 7	Test Date:	Jun. 13, 2011
		Test By:	Nick



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: Edison M/N: MB865

Note: GPS mode_config7

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment
1		0.4178	42.85	0.12	42.97	57.49	-14.52	QP	
2	*	0.4178	37.05	0.12	37.17	47.49	-10.32	AVG	
3		0.6626	38.23	0.12	38.35	56.00	-17.65	QP	
4		0.6626	29.23	0.12	29.35	46.00	-16.65	AVG	
5		1.4292	38.67	0.13	38.80	56.00	-17.20	QP	
6		1.4292	28.45	0.13	28.58	46.00	-17.42	AVG	
7		2.2989	40.58	0.15	40.73	56.00	-15.27	QP	
8		2.2989	29.19	0.15	29.34	46.00	-16.66	AVG	
9		3.0535	33.41	0.16	33.57	56.00	-22.43	QP	
10		3.0535	17.52	0.16	17.68	46.00	-28.32	AVG	
11		3.9665	35.09	0.17	35.26	56.00	-20.74	QP	
12		3.9665	21.45	0.17	21.62	46.00	-24.38	AVG	

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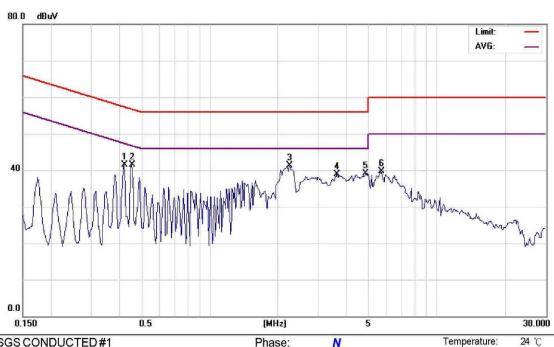
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Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

Reading

Level

dBuV

41.40

41.42

41.13

38.69

38.86

39.46

Factor

ďΒ

0.16

0.16

0.18

0.20

0.22

0.25

38.89

39.08

39.71

56.00

56.00

60.00

-17.11

-16.92

-20.29

peak

peak

peak

EUT: Edison M/N: MB865

No. Mk.

1 2

3

4

5

6

Note: GPS mode_config7

Freq.

MHz

0.4200

0.4550

2.2400

3.6400

4.8600

5.7000

Measure- ment	Limit	Over			,
dBuV	dBuV	dΒ	Detector	Comment	
41.56	57.45	-15.89	peak		
41.58	56.78	-15.20	peak		
41.31	56.00	-14.69	peak		

Humidity:

Air Pressure:

61%

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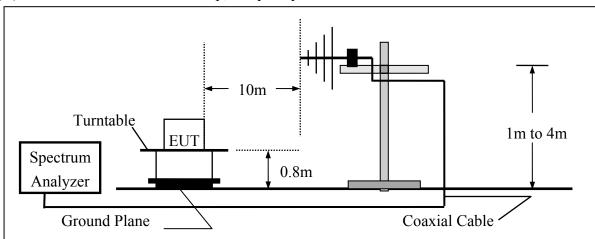
6. Radiated Emission Test

6.1 Measurement Procedure

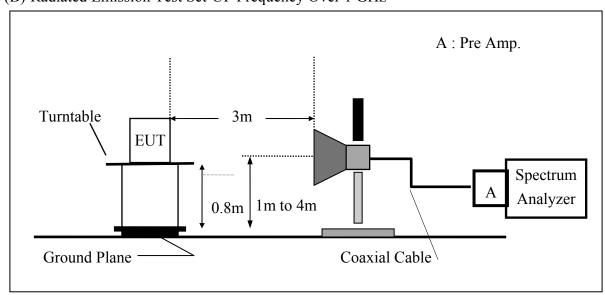
- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat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

6.2 Test SET-UP (Block Diagram of Configuration)

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



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



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6.3 Measurement Equipment Used:

10m Open Area Test Site										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
EMI Test Receiver	R&S	ESCI	100335	02/05/2011	02/04/2012					
RF-Amplifier	Agilent	8447D	2944A09469	11/27/2010	11/26/2011					
Broadband Antenna	SCHWAZBECK	VULB9160	9160-3224	04/21/2011	04/20/2012					
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	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	R&S	FSP 40	100034	03/30/2011	03/29/2012
Bilog Antenna	SCHWAZBECK	VULB9160	3136	11/19/2010	11/18/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	309/320	03/09/2011	03/08/2012
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/27/2011
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012
Radio Communication Analyzer	R & S	CMU200	102189	08/12/2010	08/11/2012
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2011	01/04/2012
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2011	01/04/2012
3m Site	SGS	966 chamber	N/A	09/06/2010	09/05/2011

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6.4 Field Strength Calculation

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

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

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

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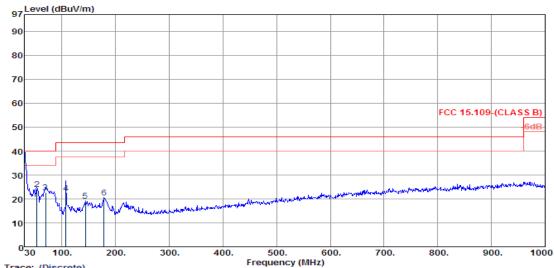
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6.5 Measurement Result (below 1G)

Config 1 Test Date: Jun. 13, 2011 Test Mode:

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



Trace: (Discrete)

966 Chamber

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

Project No. EI-2011-50011

Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model MB865

Play mode _config1 Test Mode

Temp./Humid. 22/58

0pe

perator			Antenna	Preamp Factor		Factor		Limit Line	Over Limit	Remark
	MHz	dBu₹	dB/m	dB	dB	dB/m	dBu∀/m	dBu∀7m	d₿	
1 q 2 3 4 5 6	30.63 53.28 69.77 107.60 143.49 178.41	48.34 38.26 39.14 38.30 31.97 34.64	10.82 10.93 13.64	27.85	0.55 0.55 0.83 0.95	-16.37 -15.79 -12.80	24.18 22.77	40.00 40.00 43.52 43.52	-17.23	QP QP QP QP

Remark:

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

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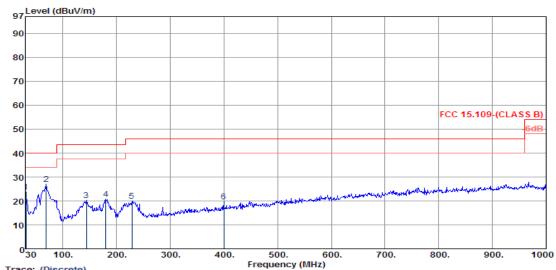


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Test Mode: Config 1 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

966 Chamber Site

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

: EI-2011-50011 Project No.

Applicant Motorola Mobility, Inc.

EUT Description: Edison EUT Model MB865

Test Mode Play mode _config1

Temp./Humid. : 22/58

perator	•	: Nick Read		Preamp	Cable			Limit	Over		
	Freq			Factor			Level			Remark	
	MHz	−dBuV	dB/m	dB	dB	dB/m	āBū∀7m	dBu∀7m	d₿		
	30.97 68.80 143.49 180.35 228.85 399.57	54.57 47.93 48.55 47.88	0.00 0.00 0.00 0.00	27.74 27.66 27.78 27.77 27.85 28.21	0.00 0.00 0.00 0.00	-27.78 -27.77 -27.85	26.91 20.15 20.78 20.03	40.00 40.00 43.52 43.52 46.02 46.02	-13.09 -23.37 -22.74 -25.99	QP QP QP QP	

Remark:

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

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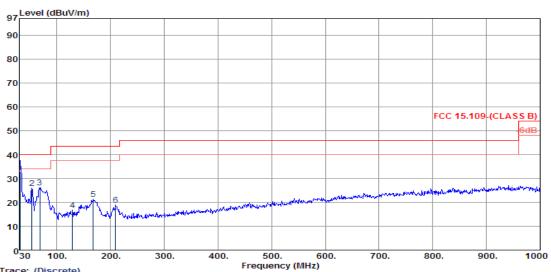


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Test Mode: Config 2 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

966 Chamber Site

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

FT-2011-50011 Project No.

Applicant Motorola Mobility, Inc.

EUT Description: Edison EUT Model MB865

Test Mode : FM mode _config2

Temp./Humid. : 22/58

perator	•	: Nick Beada		Preamp	Cable			Limit	0ver		
	Freq			Factor						Remark	
	MHz	−dBuV	dB/m	dB	dB	dB/m	āBū∀7m	āBū⊽7m	dB		-
	128.94 167.74	53.84 44.47 49.18	0.00 0.00 0.00 0.00	27.79 27.67 27.75	0.00 0.00 0.00 0.00	-27.79 -27.67 -27.75 -27.78	25.96 26.17 16.72 21.40	43.52	-14.04 -13.83 -26.80 -22.12	QP QP QP QP	

Remark:

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

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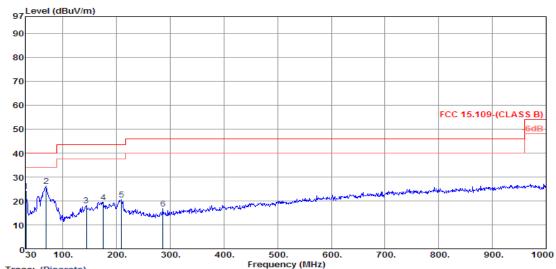


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Test Mode: Config 2 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

966 Chamber Site

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

: EI-2011-50011 Project No.

Applicant Motorola Mobility, Inc. EUT Description: Edison

EUT Model MB865

Test Mode FM mode _config2

Temp./Humid. : 22/58

perator	Freq		Antenna	Preamp Factor				Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB/m	dBu∀/m	āBū∀7m	dB	
1 2 q 3 4 5 6	30.97 68.80 143.49 175.50 209.45 286.08	51.72 53.84 45.79 47.29 48.30 44.81	0.00	27.74 27.66 27.78 27.77 27.78 27.93	0.00 0.00 0.00 0.00	-27.74 -27.66 -27.78 -27.77 -27.78 -27.93	26.18 18.01 19.52 20.52	43.52	-13.82 -25.51 -24.00 -23.00	QP QP QP QP

Remark:

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

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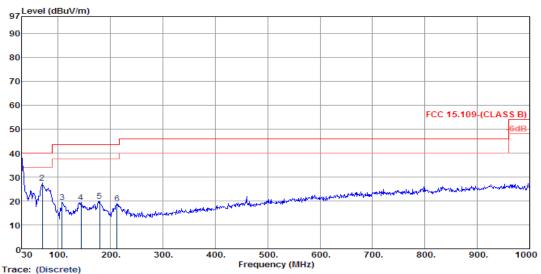


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Config 3 Jun. 13, 2011 Test Mode: Test Date:

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



966 Chamber

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

Project No. EI-2011-50011

Motorola Mobility, Inc. Applicant

Edison EUT Description: EUT Model : MB865

REC mode _config3 Test Mode

Temp./Humid. 22/58 Operator Nick

ReadAntenna Preamp Freq Level Factor Factor Cable Limit Over Loss Factor Limit Remark Level Line MHz dBu∀ dB/m ₫B ₫B --dB/m dBu√/m dBuV/m ₫B -14.25 -27.65 -27.71 -27.78 -27.77 -27.79 30.73 69.77 107.60 143.49 179.38 27.85 27.65 27.71 27.78 27.77 27.79 0.38 0.00 0.00 0.00 31.52 27.44 19.40 19.40 19.95 -8.48 -12.56 -24.12 -24.12 -23.57 -24.74 13.22 0.00 0.00 0.00 40.00 .48 QP 123456 45.77 55.09 47.11 47.18 47.72 46.57 40.00 40.00 43.52 43.52 43.52 43.52 QP QP QP 18.78

Remark:

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

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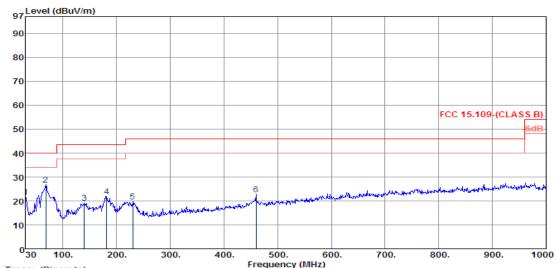


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Test Mode: Config 3 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

966 Chamber Site

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

: EI-2011-50011 Project No.

Applicant Motorola Mobility, Inc. EUT Description: Edison

EUT Model MB865

Test Mode REC mode _config3

Temp./Humid. : 22/58

Оре

perator				Preamp Factor				Limit Line	Over Limit	Remark
	MHz	−−dBuV	dB/m	ā <u>ā</u>	dB	dB/m	āBū∀/m	dBuV/m	āB	
3 4	30.00 67.83 139.61 181.32 229.82 459.71	46.86 49.71 47.55	0.00 0.00 0.00	27.67 27.77	0.00 0.00 0.00 0.00	-27.74 -27.67 -27.77 -27.77 -27.85 -28.29	26.63 19.09 21.94 19.70	40.00 43.52 43.52 46.02	-13.37 -24.43 -21.58 -26.32	QP QP QP QP

Remark:

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

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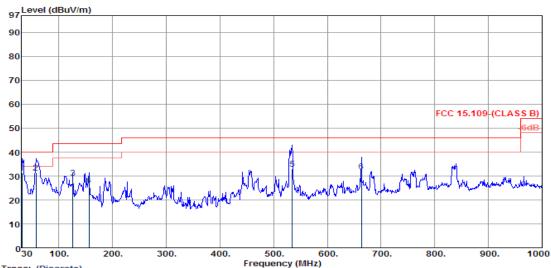
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Config 4 Test Date: Jun. 13, 2011 Test Mode:

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

Resolution: Low (HD-480-272)



Trace: (Discrete)

Site 966 Chamber

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

: EI-2011-50011 Project No.

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model MB865

Test Mode : Play mode _config4 (HD-480*272)

Temp./Humid. : 22/58 Operator Nick

er a cor	Freq			Preamp Factor				Limit Line	Over Limit	Remark	
	MHz	āĒu₹	dB/m	āB	ā <u>ā</u>	<u>d</u> B/m	āBū∀7m	āBūV∕m	āB		
	30.97 57.16 126.03 156.10 534.80	43.14 38.32 41.29	12.91 12.57 14.15 17.13	27.83 27.49 27.26 27.60	0.55 0.83 1.10 2.03	-14.09 -12.01	31.32 29.05 26.31 32.85	40.00 43.52 43.52 46.02	-14.47 -17.21	QP QP QP QP	

Remark:

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

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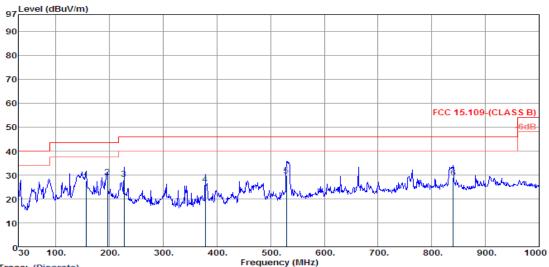
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Test Mode: Config 4 Test Date: Jun. 13, 2011

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

Resolution: Low (HD-480-272)



Trace: (Discrete)
Site

: 966 Chamber

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

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Play mode _config4 (HD-480*272)

Temp./Humid. : 22/58

Operator : Nick

	Freq			Preamp Factor		Factor		Limit Line	Over Limit	Remark
	MHz	dBu∀	dB/m	dB	dB	dB/m	dBu∀7m	dBu∀7m	dB	
1 2 q 3 4 5 6	156.10 195.87 226.91 378.23 529.55 839.95	44.94 43.00 37.30	14.15 10.13 10.98 14.38 17.03 20.97	27.26 27.08 26.90 27.25 27.60 26.88	1.17 1.23 1.74 2.03	-12.01 -15.78 -14.69 -11.13 -8.54 -3.34	28.31 26.17	43.52 46.02 46.02 46.02	-15.84 -14.36 -17.71 -19.85 -16.39 -17.02	QP QP QP QP

Remark:

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

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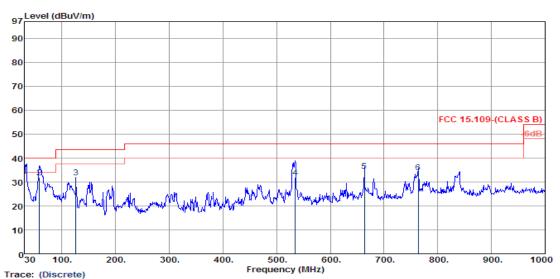
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Test Mode: Config 4 Test Date: Jun. 13, 2011

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

Resolution: Mid (HD-1280-720)



Site : 966 Chamber

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

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Play mode _config4 (HD-1280*720)

Temp./Humid. : 22/58

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

	MHZ	abuv	QB/ III	ав	аь	QB/ III	abuv/III	abuv/III	uБ
1 q 2 3 4 5 6		46.22 45.91 40.22 40.25	17.13 19.26	27.83 27.49 27.60 27.36	0.55 0.83 2.03 2.36	-14.37 -14.09 -8.44 -5.74	31.85 31.82 31.78 34.51	40.00 43.52 46.02 46.02	-7.45 QP -8.15 QP -11.70 QP -14.24 QP -11.51 QP -12.05 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

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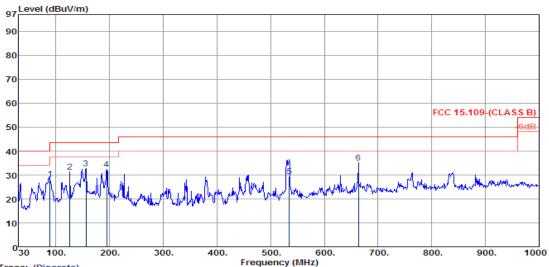
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Test Mode: Config 4 Test Date: Jun. 13, 2011

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

Resolution: Mid (HD-1280-720)



Trace: (Discrete) Site

: 966 Chamber

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

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Play mode _config4 (HD-1280*720)

Temp./Humid. : 22/58

Operator : Nick

perator		: NITCK									
				Preamp				Limit	Over		
	Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBu√	─dB/m	dB	−−−−āB	─dB/m	āBūV7m	dBuV7m	d₿		-
3 q 1 4 1 5 5	156.10 194.90 534.40	45.41 44.76 48.08 37.90	14.15 10.24 17.13	27.49 27.26	0.83 1.10 1.17 2.03	-14.09 -12.01 -15.67 -8.44	28.32 31.32 32.75 32.41 29.46 35.11	43.52 43.52 43.52 46.02	-12.20 -10.77 -11.11 -16.56	QP QP QP QP	

Remark:

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

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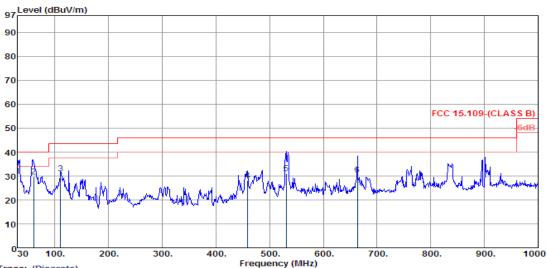
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Test Mode: Config 4 Test Date: Jun. 13, 2011

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

Resolution: High (HD-1920-1080)



Trace: (Discrete)

Site : 966 Chamber

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

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Play mode _config4 (HD-1920*1080)

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

	Freq			Preamp Factor					Over Limit	
	MHz	−−dBuV	dB/m	dB	dB	dB/m	āBū∀/m	dBu∀/m	dB	
2	30.47 60.80 110.51 458.74 530.52 663.41	44.67 46.51 37.72 39.64	12.36 11.32 16.06 17.06	27.81 27.55 27.62 27.60	0.55 0.83 1.88 2.03	-14.90 -15.40 -9.68 -8.51	29.77 31.11 28.04 31.13	43.52 46.02 46.02	-10.23 -12.41 -17.98 -14.89	QP QP QP QP

Remark:

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

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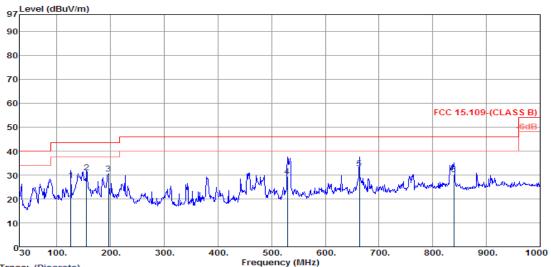
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Config 4 Test Mode: Test Date: Jun. 13, 2011

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

Resolution: High (HD-1920-1080)



Trace: (Discrete) Site

: 966 Chamber

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

Project No. EI-2011-50011

Applicant Motorola Mobility, Inc.

EUT Description: Edison EUT Model MB865

Test Mode : Play mode _config4 (HD-1920*1080)

: 22/58 Temp./Humid.

: Nick Operator |

	Freq			Preamp Factor				Limit Line	Over Limit	Remark
-	MHz	dBu∀	dB/m	dB	dB	dB/m	dBu∀/m	dBu∀/m	dB	
1 2 q 3 4 5 6	195.87 529.55	58.20 37.96 38.36	0.00 0.00 17.03 19.26	27.49 27.79 27.75 27.60 27.36 26.87	0.00 0.00 2.03 2.36	-14.09 -27.79 -27.75 -8.54 -5.74 -3.33	31.17 30.45 29.42 32.62	43.52 43.52 46.02 46.02	-13.07 -16.60	QP QP QP QP

Remark:

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

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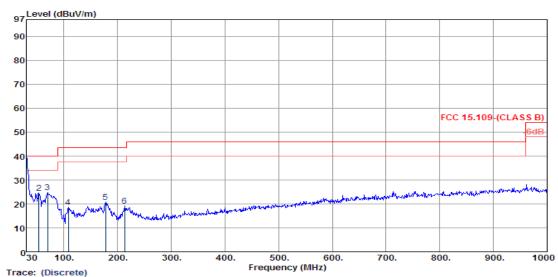


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Test Mode: Config 5 Test Date: Jun. 13, 2011

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



966 Chamber

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

Project No. EI-2011-50011

Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model MB865

Test Mode Data link _config5

Temp./Humid. 22/58

eraτ	or	: NICK									
		Read	Antenna	Preamp	Cable			Limit	Over		
	Freq	Level	Factor	Factor	Loss	Factor	Level	Line	Limit	Remark	
_											
	MHz	dBu∀	dB/m	dB	dB	dB/m	dBu∀/m	dBu∀/m	dB		
1 a	30.67	48.10	13.22	27.85	0.38	-14.25	33.85	40.00	-6.15	QP .	
2	53.28	52.45	0.00	27.79	0.00	-27.79	24.66	40.00	-15.34	QΡ	
2 3	69.77	52.42	0.00	27.65	0.00	-27.65	24.77	40.00	-15.23	QΡ	
4	108.57	46.23	0.00	27.71	0.00	-27.71	18.52	43.52	-25.00	ÓΡ	
4 5	177.44	48.56	0.00	27.77	0.00	-27.77	20.79	43.52	-22.73	QΡ	
6	213.33	47.01	0.00	27.79	0.00	-27.79	19.22	43.52	-24.30	ũΡ	

Remark:

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

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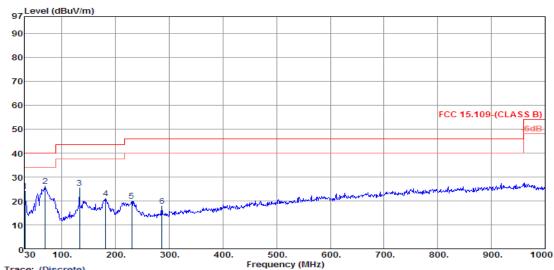


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Test Mode: Config 5 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

966 Chamber Site

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

: EI-2011-50011 Project No.

Applicant Motorola Mobility, Inc. EUT Description: Edison

EUT Model MB865

Test Mode : Data link _config5

Temp./Humid. : 22/58

perator	•	: Nick		Preamp	Cable			Limit	Over			
	Freq			Factor						Remark		
	MHz	−−dBuV	dB/m	dB	dB	dB/m	āBū⊽7m	āBū∀7m	dB			
	30.97 68.80 132.82 181.32 229.82 286.08	39.04 35.37 34.39	12.93 11.68 11.21	27.85 27.75 27.45 27.16 26.89 26.74	0.55 0.95 1.10 1.23	-16.38 -13.57 -14.38 -14.45	26.17 25.47 20.99 19.94	46.02	-13.83 -18.05 -22.53 -26.08	QP QP QP QP		

Remark:

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

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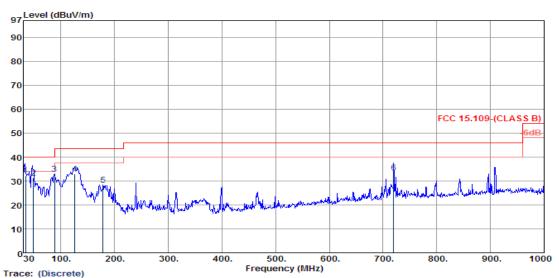


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Test Mode: Config 6 Test Date: Jun. 13, 2011

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



Site : 966 Chamber

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

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Data link _config6

Temp./Humid. : 22/58

Operator : Nick

perator			Antenna	Preamp Factor				Limit Line	Over Limit	Remark	
	MHz	−dBuV	dB/m	dB	−−−−dB	dB/m	dBu∀7m	dBuV/m	dB		•
1 q 2 3 4 5 6	34.52 48.56 88.20 126.03 178.41 719.67	46.20 45.22 50.52 46.94 42.54 38.55	9.41 12.57 11.98	27.84 27.65 27.49 27.17	0.38 0.72 0.83 1.10	-17.52 -14.09 -14.09	31.37 33.00 32.85 28.45	40.00 43.52 43.52	-10.52 -10.67 -15.07	QP QP QP QP	

Remark:

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

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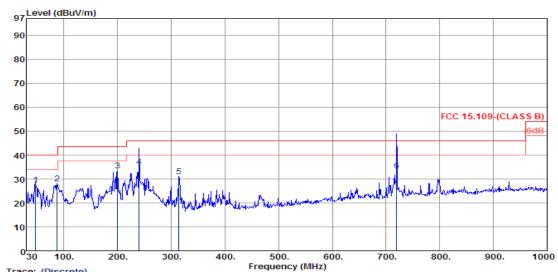


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Test Mode: Config 6 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

966 Chamber Site

: FCC 15.109-(CLASS B) VULB9168(20M~2G) HORIZONTAL Condition : EI-2011-50011 Project No.

Applicant Motorola Mobility, Inc.

EUT Description: Edison MB865

EUT Model

Test Mode : Data link _config6

: 22/58 Temp./Humid.

perator			Antenna	Preamp Factor				Limit Line	Over Limit	Remark
	MHz	dBu∀	dB/m	dB	āB	dB/m	dBu∀/m	dBu∀/m	dB	
3 q 4 5	87.23 199.75 240.02 314.21	49.58 49.14 43.24	9.41 9.90 11.45 13.19	27.84 27.65 27.06 26.83 26.81 27.24	0.72 1.17 1.32 1.48		28.17 33.59 35.08 31.10	40.00 43.52 46.02 46.02	-11.83 -9.93 -10.94 -14.92	QP QP QP QP

Remark:

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

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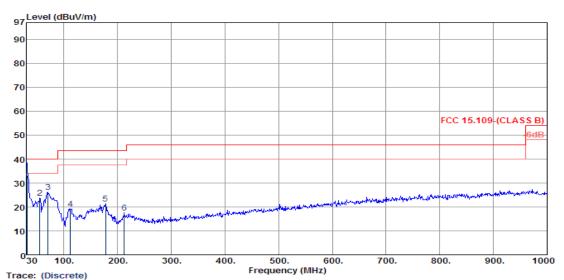


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Test Mode: Config 7 Test Date: Jun. 13, 2011

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



Site : 966 Chamber

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

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : GPS mode _config7

Temp./Humid. : 22/58

Operator : Nick

erator			Antenna	Preamp Factor				Limit Line	Over Limit	Remark	
	MHz	dBu∀	dB/m	dB	dB	dB/m	dBu∀7m	dBu∀7m	d₿		
5	70.74 112.45 177.44	42.82 34.45 35.33	10.51 11.50 11.98	27.84 27.73	0.55 0.55 0.83 1.10	-14.22 -16.67 -15.21 -14.09	26.15 19.24 21.24	40.00 40.00 43.52	-13.85 -24.28 -22.28	QP QP QP QP	

Remark:

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

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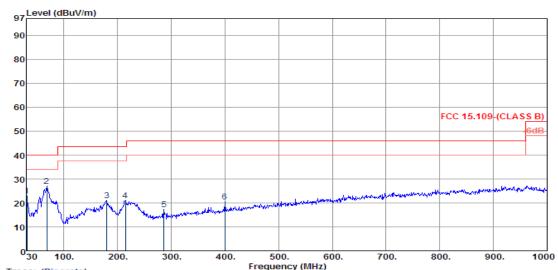


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Test Mode: Config 7 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

966 Chamber Site

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

: EI-2011-50011 Project No.

Applicant Motorola Mobility, Inc.

EUT Description: Edison EUT Model MB865

Test Mode GPS mode _config7

Temp./Humid. 22/58 Operator Nick

ReadAntenna Preamp Limit Freq Level Factor Factor Loss Factor Limit Remark Level Line dB/m dB −dB/m dBuV/m dBuV/m ₫B MHz dBu∀ ₫B 27.74 27.67 27.77 27.80 27.93 28.21 0.00 -27.74 0.00 -27.67 0.00 -27.77 0.00 -27.80 0.00 -27.93 0.00 -28.21 22.85 26.94 21.02 21.04 17.41 20.51 40.00 -17.15 QP 40.00 -13.06 QP 43.52 -22.50 QP 43.52 -22.48 QP 46.02 -28.61 QP 46.02 -25.51 QP 0.00 123456 67.83 180.35 214.30 286.08 399.57 0.00 0.00 0.00 0.00 54.61 48.79 48.84 45.34 48.72

Remark:

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

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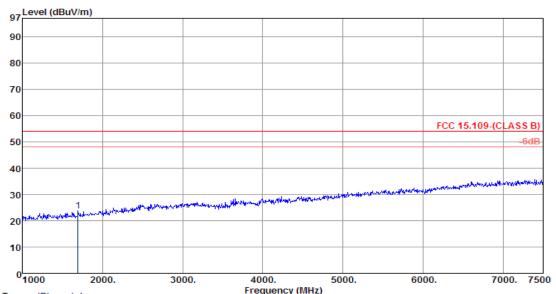


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Jun. 13, 2011 Test Mode: Config 1 Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-50011

: Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model : MB865

Test Mode : Play mode _config1

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

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

-dB -dB/m dBu√/m dBu√/m dBuV dB/m ₫₿

1 p 1695.50 27.92 25.30 33.38 3.94 -4.14 23.78 54.00 -30.22 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

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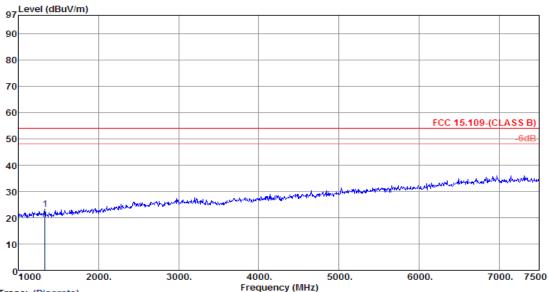


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Test Mode: Config 1 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Play mode _config1

Temp./Humid. : 22/58

Operator : Nick

ReadAntenna 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 1331.50 28.14 24.70 32.91 3.43 -4.78 23.36 54.00 -30.64 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 7.5GHz was 1MHz

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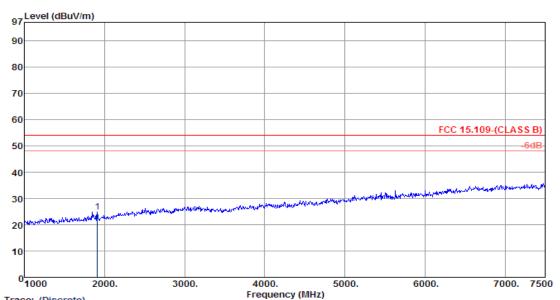


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Jun. 13, 2011 Test Mode: Config 2 Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-50011

: Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model : MB865

Test Mode : FM mode _config2

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

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

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

1 p 1910.00 27.87 25.72 32.96 4.14 -3.10 24.77 54.00 -29.23 Peak

Remark:

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

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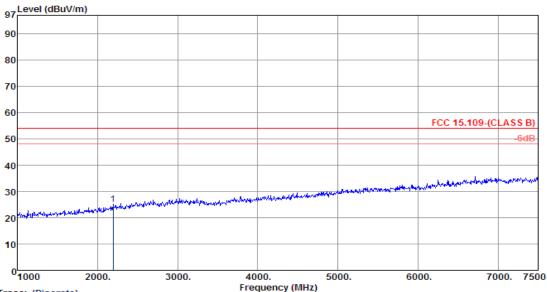


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Test Mode: Config 2 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : FM mode _config2

Temp./Humid. : 22/58

Operator : Nick

ReadAntenna Preamp Cable Limit Over Freq Level Factor Factor Loss Factor Level Line Limit Remark -----MHz dBuV dB/m dB dB/m dBuV/m dBuV/m dB

1 p 2196.00 26.94 26.53 32.73 4.45 -1.75 25.19 54.00 -28.81 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 7.5GHz was 1MHz

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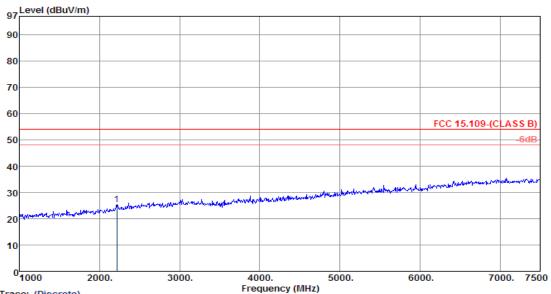


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Jun. 13, 2011 Test Mode: Config 3 Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-50011

: Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model : MB865

Test Mode : REC mode _config3

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

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

dB dB/m dBuV/m dBuV/m dBuV dB/m ₫₿

1 p 2215.50 27.12 26.65 32.81 4.45 -1.71 25.41 54.00 -28.59 Peak

Remark:

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

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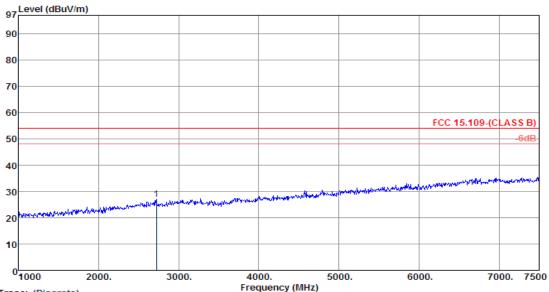


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Test Mode: Config 3 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : REC mode _config3

Temp./Humid. : 22/58

Operator : Nick

ReadAntenna 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 2722.50 26.72 27.87 32.73 5.06 0.20 26.92 54.00 -27.08 Peak

Remark:

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

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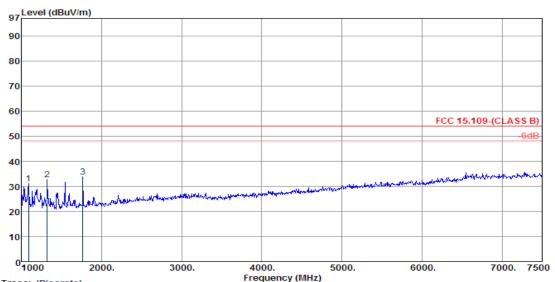
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Config 4 Test Date: Jun. 13, 2011 Test Mode:

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

Resolution: High (HD-1920-1080) Worst Case:



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL

: EI-2011-50011 Project No.

Applicant : Motorola Mobility, Inc.

EUT Description: Edison : MB865 EUT Model

Test Mode : Play mode _config4 (HD-1920*1080)

Temp./Humid. : 22/58

Operator : Nick

	Freq			Preamp Factor						Remark
_	MHz	dBu∀	dB/m	dB	d₿	dB/m	dBu∀/m	dBu∀7m	d₿	
	1091.00 1325.00 1767.00	37.44	24.68	32.91	3.43	-5.87 -4.80 -3.64	32.64	54.00	-21.36	Peak

Remark:

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

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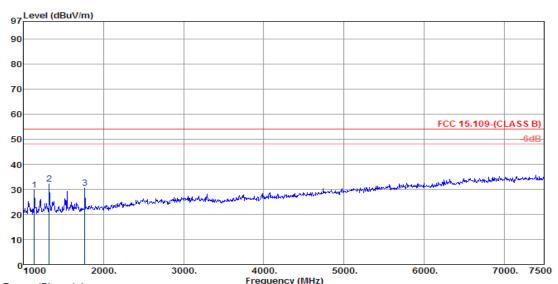
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Test Mode: Config 4 Test Date: Jun. 13, 2011

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

Worst Case: Resolution: High (HD-1920-1080)



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison

EUT Model : MB865

Test Mode : Play mode _config4 (HD-1920*1080)

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

eraco				Preamp Factor			Level		Over Limit	
	MHz	dBu√	dB/m	d <u>B</u>	dB	dB/m	āBū∀/m	āBūV7m	dB	
2 p	1136.50 1325.00	37.07	24.68	32.91	3.43	-4.80	32.27	54.00	-21.73	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 1GHz to 7.5GHz was 1MHz

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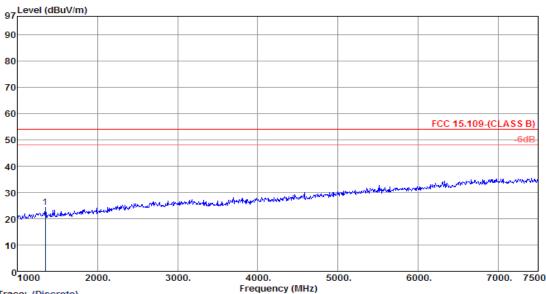


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Jun. 13, 2011 Test Mode: Config 5 Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-50011

: Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model : MB865

Test Mode : Data link _config5

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

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

dB dB/m dBuV/m dBuV/m dBuV dB/m dΒ

1 p 1351.00 29.27 24.72 33.05 3.46 -4.87 24.40 54.00 -29.60 Peak

Remark:

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

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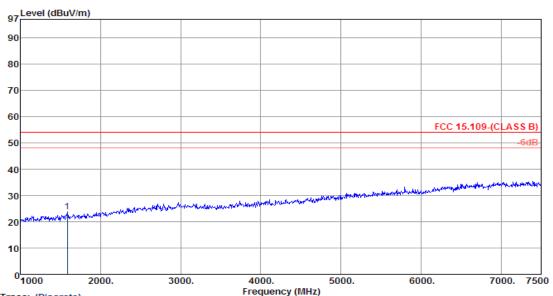


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Test Mode: Config 5 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Data link _config5

Temp./Humid. : 22/58

Operator : Nick

ReadAntenna 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 1585.00 27.87 25.06 32.96 3.72 -4.18 23.69 54.00 -30.31 Peak

Remark:

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

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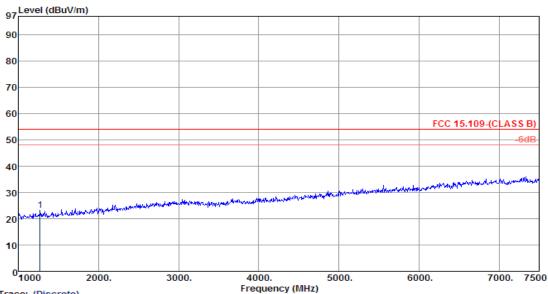


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Jun. 13, 2011 Test Mode: Config 6 Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-50011

: Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model : MB865

Test Mode : Data link _config6

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

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

-dB -dB/m dBuV/m dBuV/m dBuV dB/m ₫₿

1 p 1273.00 28.06 24.61 32.87 3.37 -4.89 23.17 54.00 -30.83 Peak

Remark:

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

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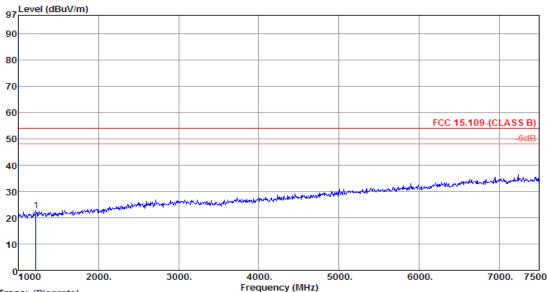


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Test Mode: Config 6 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Data link _config6

Temp./Humid. : 22/58

Operator : Nick

ReadAntenna Preamp Cable Limit Over Freq Level Factor Factor Loss Factor Level Line Limit Remark MHz dBuV dB/m dB dB/m dBuV/m dBuV/m dB

1 p 1221.00 27.80 24.54 33.07 3.33 -5.20 22.60 54.00 -31.40 Peak

Remark:

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

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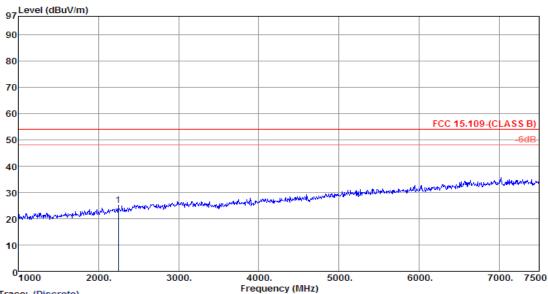


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Jun. 13, 2011 Test Mode: Config 7 Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

Project No. : EI-2011-50011

: Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model : MB865

Test Mode : GPS mode _config7

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

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

dBuV dB/m ₫₿ dB dB/m dBuV/m dBuV/m

1 p 2248.00 26.88 26.71 32.90 4.48 -1.71 25.17 54.00 -28.83 Peak

Remark:

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

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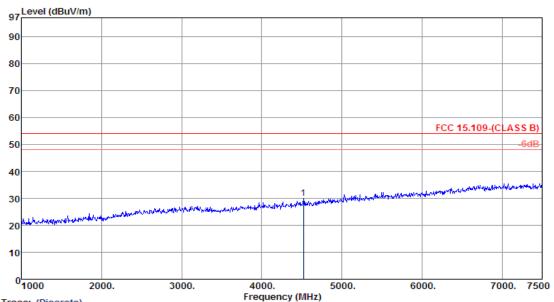


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Test Date: Jun. 13, 2011 Test Mode: Config 7

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



Trace: (Discrete)

: 966 Chamber Site

: FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL Condition

: EI-2011-50011 Project No.

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

: GPS mode _config7 Test Mode

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

ReadAntenna 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

4.41 30.10 54.00 -23.90 Peak 1 p 4523.00 25.69 30.65 32.94 6.70

Remark:

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

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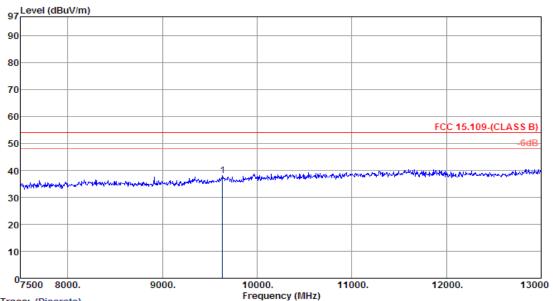


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Test Mode: Config 1 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Play mode _config1

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

ReadAntenna 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 9634.00 22.06 37.94 32.17 10.22 15.99 38.05 54.00 -15.95 Peak

Remark:

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

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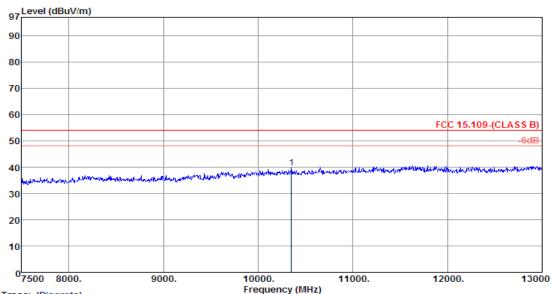


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Test Mode: Config 1 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Play mode _config1

Temp./Humid. : 22/58

Operator : Nick

ReadAntenna 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 10354.50 22.54 38.73 32.37 10.70 17.06 39.60 54.00 -14.40 Peak

Remark:

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

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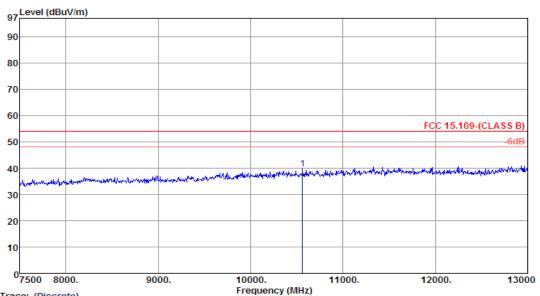


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Jun. 13, 2011 Test Mode: Config 2 Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

: EI-2011-50011 Project No.

: Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model : MB865

Test Mode : FM mode _config2

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

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

dBuV : dB/m ₫B dΒ TdB/m dBuV/m dBuV/m

1 p 10563.50 22.39 39.06 32.51 10.84 17.39 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 7.5GHz to 13GHz was 1MHz

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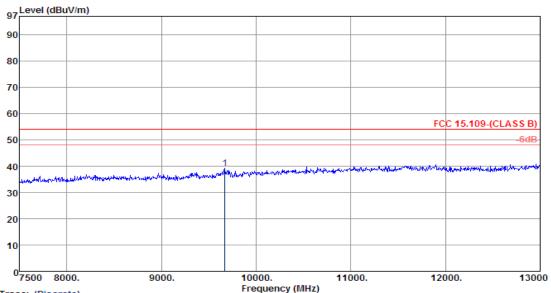


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Test Mode: Config 2 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : FM mode _config2

Temp./Humid. : 22/58

Operator : Nick

ReadAntenna 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 9672.50 23.08 37.96 32.17 10.24 16.03 39.11 54.00 -14.89 Peak

Remark:

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

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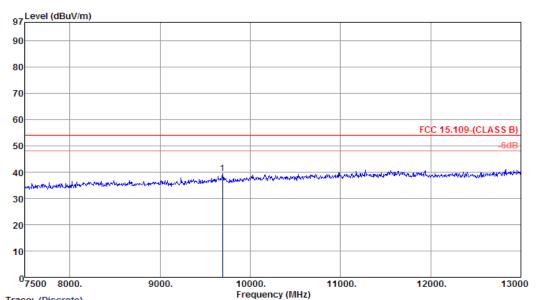


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Config 3 Jun. 13, 2011 Test Mode: Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

: EI-2011-50011 Project No.

: Motorola Mobility, Inc. Applicant

EUT Description: Edison : MB865 EUT Model

Test Mode : REC mode _config3

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

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

1 p 9694.50 23.44 37.97 32.17 10.24 16.04 39.48 54.00 -14.52 Peak

Remark:

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

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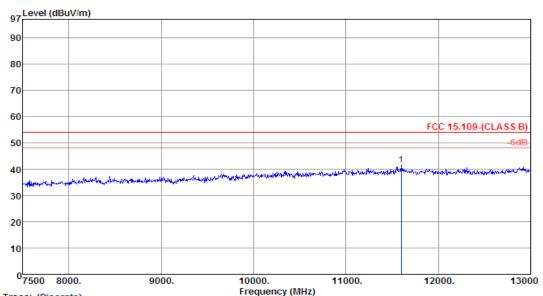


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Jun. 13, 2011 Test Mode: Config 3 Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

: EI-2011-50011 Project No.

Applicant : Motorola Mobility, Inc.

EUT Description: Edison : MB865 EUT Model

Test Mode : REC mode _config3

Temp./Humid. : 22/58

Operator : Nick

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

1 p 11597.50 22.82 39.11 31.81 11.39 18.69 41.51 54.00 -12.49 Peak

Remark:

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

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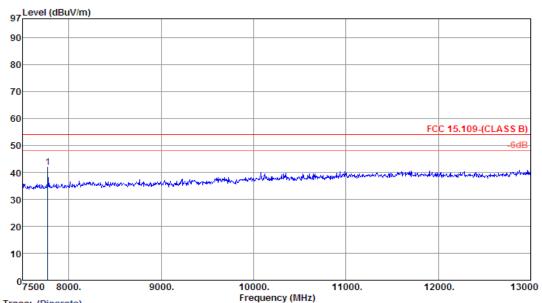
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Jun. 13, 2011 Test Mode: Config 4 Test Date:

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

Worst Case: Resolution: High (HD-1920-1080)



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL

: EI-2011-50011 Project No.

Applicant : Motorola Mobility, Inc.

EUT Description: Edison

EUT Model : MB865

: Play mode _config4 (HD-1920*1080) Test Mode

Temp./Humid. : 22/58

Operator : Nick

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

MHZ dBuV dB/m dB dB dB/m dBuV/m dBuV/m

1 p 7775.00 28.79 36.67 32.61 9.11 13.17 41.96 54.00 -12.04 Peak

Remark:

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

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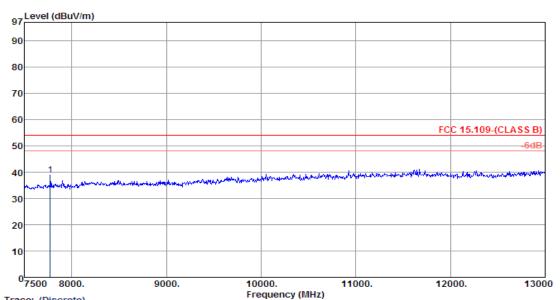
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Test Mode: Config 4 Test Date: Jun. 13, 2011

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

Worst Case: Resolution: High (HD-1920-1080)



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Play mode _config4 (HD-1920*1080)

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

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

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

1 p 7775.00 25.68 36.67 32.61 9.11 13.17 38.85 54.00 -15.15 Peak

Remark:

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

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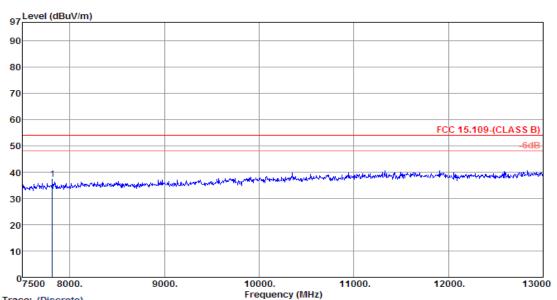


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Test Mode: Config 5 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Data link _config5

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

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

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

1 p 7819.00 24.02 36.73 32.59 9.14 13.28 37.30 54.00 -16.70 Peak

Remark:

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

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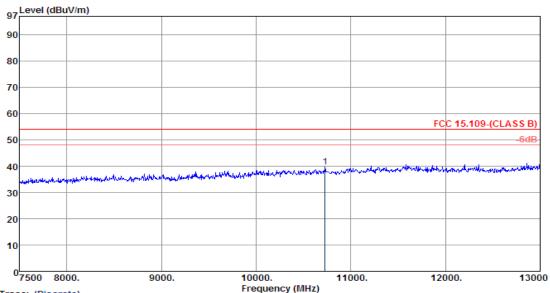


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Test Mode: Config 5 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : Data link _config5

Temp./Humid. : 22/58

Operator : Nick

ReadAntenna 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 10728.50 22.15 39.23 32.53 10.96 17.66 39.81 54.00 -14.19 Peak

Remark:

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

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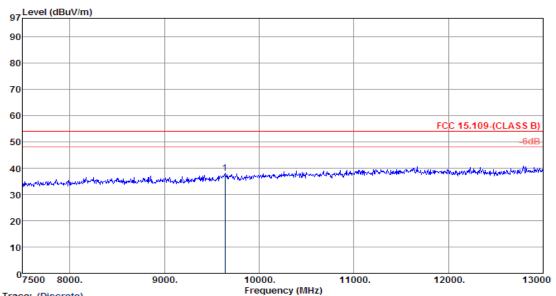


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Jun. 13, 2011 Test Mode: Config 6 Test Date:

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



Trace: (Discrete)

Site : 966 Chamber

: FCC 15.109-(CLASS B) BBHA9120D VERTICAL Condition

: EI-2011-50011 Project No.

: Motorola Mobility, Inc. Applicant

EUT Description: Edison EUT Model : MB865

Test Mode : Data link _config6

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

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

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

1 p 9639.50 22.12 37.94 32.17 10.23 16.00 38.12 54.00 -15.88 Peak

Remark:

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

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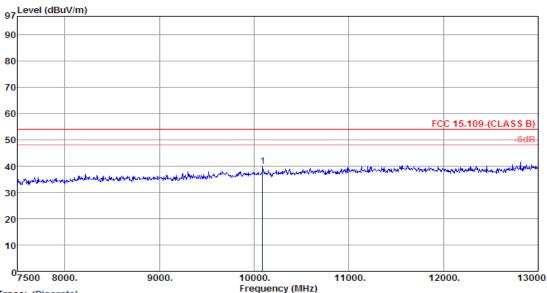


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Jun. 13, 2011 Test Mode: Config 6 Test Date:

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



Trace: (Discrete)

: 966 Chamber Site

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison : MB865 EUT Model

Test Mode : Data link _config6

Temp./Humid. : 22/58

Operator : Nick

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

1 p 10090.50 23.22 38.30 32.13 10.53 16.70 39.92 54.00 -14.08 Peak

Remark:

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

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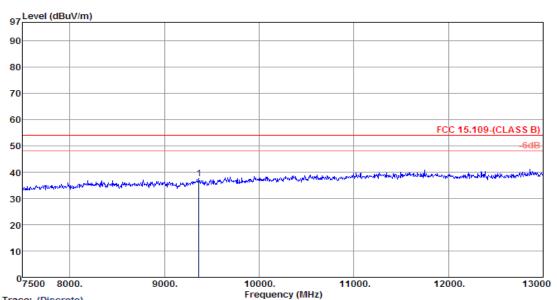


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Test Mode: Config 7 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D VERTICAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : GPS mode _config7

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

ReadAntenna 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 9364.50 22.15 37.72 32.29 10.11 15.54 37.69 54.00 -16.31 Peak

Remark:

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

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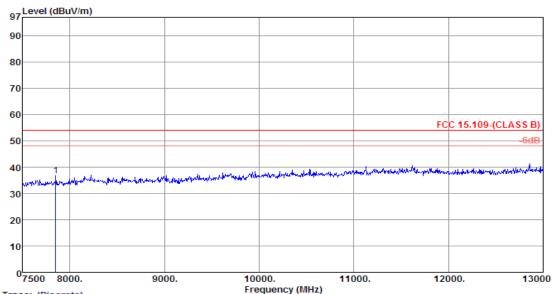


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Test Mode: Config 7 Test Date: Jun. 13, 2011

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



Trace: (Discrete)

Site : 966 Chamber

Condition : FCC 15.109-(CLASS B) BBHA9120D HORIZONTAL

Project No. : EI-2011-50011

Applicant : Motorola Mobility, Inc.

EUT Description: Edison EUT Model : MB865

Test Mode : GPS mode _config7

Temp./Humid. : 22/58

Operator : Nick

ReadAntenna Preamp Cable Limit Over Freq Level Factor Factor Loss Factor Level Line Limit Remark MHz dBuV dB/m dB dB/m dBuV/m dBuV/m dB

1 p 7852.00 23.42 36.78 32.54 9.15 13.39 36.81 54.00 -17.19 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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