Test Report

(TR-1209-062-02)

Applicant	**:**	Iriver Limited
Address	**:**	902-5, Bangbase-Dong, Seocho-Gu, Seoul, Korea 137-842
Manufacturer	**:**	Iriver china Co., Ltd.
Address	**:**	SSL Sci.& Tech. North Industry Park Dongguan china
Product Name	**:**	Tablet
Trademark	**:**	iriver, DST, RCA
Model(s)	**:**	MIT800, DMT580D, DDA800R (note: All models of EUT are identical and the different names are for marketing purpose only.)
Standard(s)	**:**	FCC Part 15 Subpart B
Test Result	**:**	Pass
Date of Test	**:**	Oct 10, 2012 to Dec 07, 2012
Report issued Dated	**:**	Dec 07, 2012

The results in this report apply only to the sample(s) tested. The production units are required to conform to the initial sample as received when the units are placed in the market.

Responsible Engineer	:	Phenix Zhang	Approved by	:	CHAN king-chui
			Technical manager		
Date	:	2012.12.07	Date	:	2012.12.07

Table of Contents

Description	Page
1. Description of the Test Site	3
1.1 Test Site Location:	3
1.2 Site Registration	3
1.3 Test Scope	3
2. Description of the Tested Samples	4
2.1 Customer Information	4
2.2 Identification of EUT	4
2.3 Spec of EUT	4
2.4 Test Standards List	4
3. Test Specifications	5
3.1 Standard(s) Used	5
3.2 Deviations from the Test Specification	5
4. Test Result	6
4.1 Radiated Emission	6
4.2 Conducted Emission (mains)	15
5. Test Setup	20
5.1 Ancillary and Accessory Equipment Used	20
5.2 Photographs of the Test Configuration	21
5.3 Photographs of the EUT	24
6. Equipment List	29
7. Test Uncertainty	30
8. Appendix	30
8.1 Confirmation of Compliance within the Limits	30

1. Description of the Test Site

1.1 Test Site Location:

Laboratory	:	TDK South China EMC Center SAE Technologies Development (Dongguan) Co., Ltd. Changan Branch
Address	:	Zhenan Hi-tech Industrial Park, Dongguan City, Guangdong Province, China
Phone no.	:	(86)-769-8564-4678
Fax no.	:	(86)-769-8564-4499
Email	:	emc@cn.tdk.com

1.2 Site Registration

VCCI (November, 2011)	:	Reg. No. R-3733, C-4184
FCC site registration (August, 2011)	:	Reg. No. 732901
IC registration (January, 2011)	:	Reg. No. 7993
CNAS (August, 2010)	:	Reg. No. L4677

1.3 Test Scope

EMC testing according to national / international standards

2. Description of the Tested Samples

2.1 Customer Information

Customer	:	Iriver Limited
Address	:	902-5, Bangbase-Dong, Seocho-Gu, Seoul, Korea 137-842
Phone no.	:	None
Fax no.	:	None

2.2 Identification of EUT

Trademark	:	RCA
Model(s) No.	:	DMT580D
Serial No.	:	None

2.3 Spec of EUT

Description of Antenna	:	FPC type antenna, 1dBi gain
Power Supply	:	5V DC, 2.5A
Description of adaptor	:	Model: DNS-050250E Input: AC 100-240V, 50/60Hz, 0.35A MAX Output: DC 5V 2.5A
Operation Frequency	:	2412 MHz ~ 2462 MHz
Number of Channels	:	11
Modulation	:	DSSS for IEEE 802.11b ; OFDM for IEEE 802.11g OFDM for IEEE 802.11n20
Data Rate	:	IEEE 802.11b: 11Mbps Max. IEEE 802.11g: 54Mbps Max. IEEE 802.11n20: 65Mbps Max.

2.4 Test Standards List

FCC Part 15 (2011)
RADIO FREQUENCY DEVICES

3. Test Specifications

3.1 Standard(s) Used

TEST ITEM		Standard
Radiated emission	:	FCC Part 15 B: 2011
Conducted emission	:	FCC Part 15 B: 2011

3.2 Deviations from the Test Specification

N/A

4. Test Result

4.1 Radiated Emission

4.1.1 Test Summary

Test Room	:	Chamber
Power Source	:	AC 120V /60Hz
Standards:	:	FCC Part15 B : 2011
Antenna Height	:	1-4 m
Antenna Polarization	:	Horizontal & Vertical
EUT Type	:	Table Top
EUT configuration	:	EUT's highest possible emission level

4.1.2 Block diagram of test setup

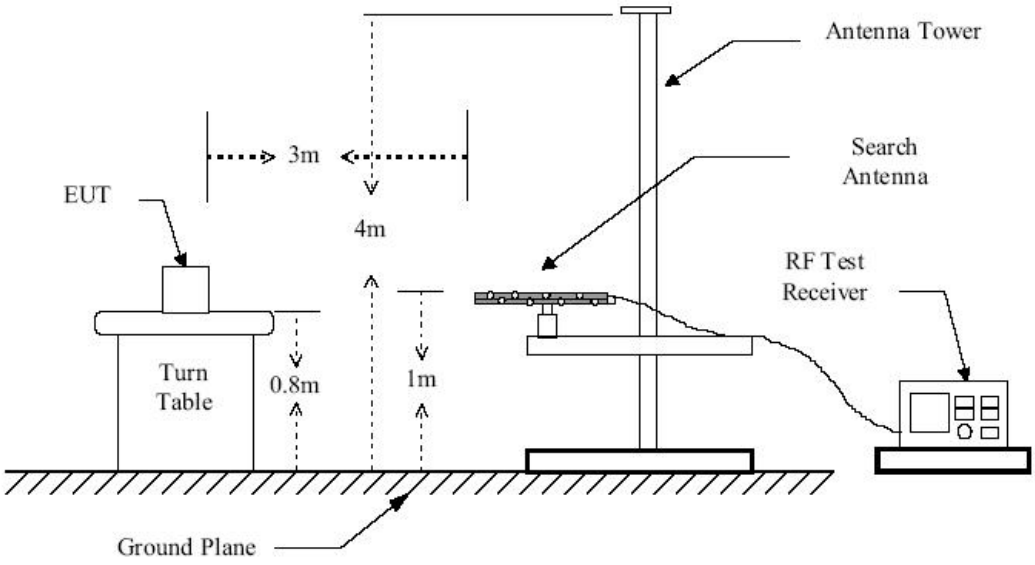


Figure 1 : Frequencies measured below 1 GHz configuration

4.1.3 Measurement method

Radiated emissions from 30 MHz to 1000 MHz were measured according to the methods defined in FCC Part 15 B and ANSI C63.4:2003, The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

4.1.4. Result

PASS

2012/10/12 11:03:22

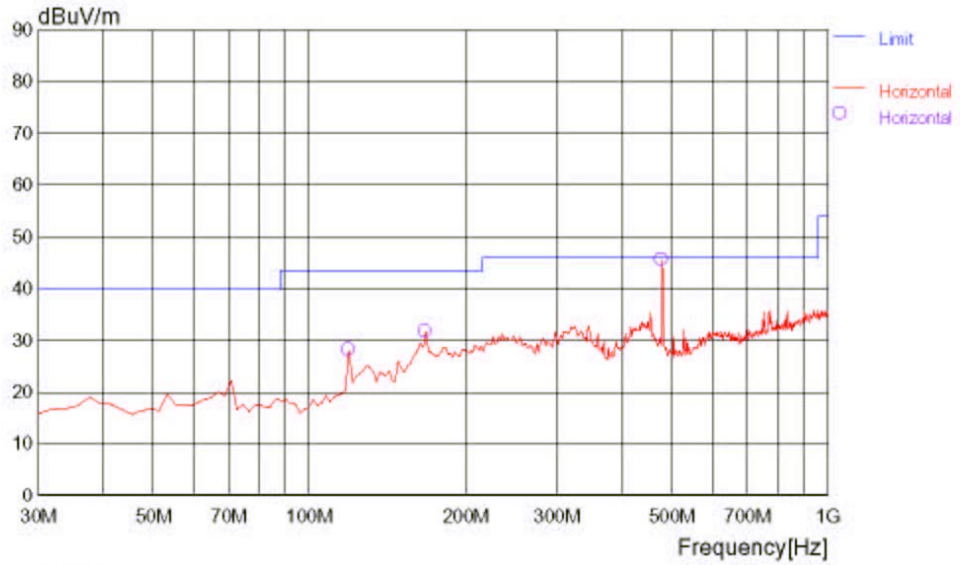
RADIATED EMISSION

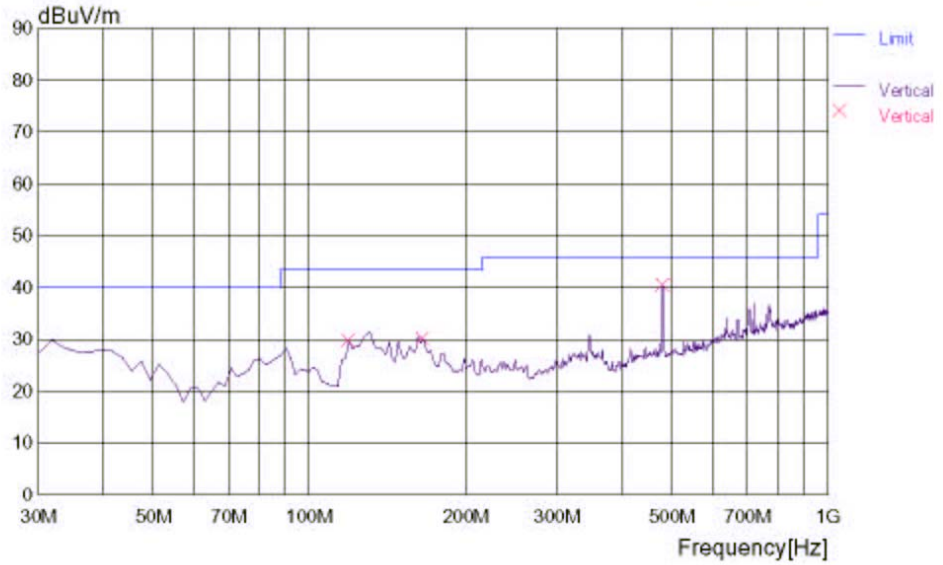
Date : 2012/10/12 11:00:05

Trade Name	:		Document No.	:	
Model Name	:	DMT580D	Power Supply	:	AC 120V60Hz
Product Name	:	Tablet	Temp/Humi	:	27/55RH%
Test Condition	:	USB MODE	Operator	:	pang

Memo :

LIMIT : FCC Part15 Class B(3m)/USA





2012/10/12 11:03:22

RADIATED EMISSION

Date : 2012/10/12 11:00:05

Trade Name	:		Document No.	:	
Model Name	:	DMT580D	Power Supply	:	AC 120V60Hz
Product Name	:	Tablet	Temp/Humi	:	27/55RH%
Test Condition	:	USB MODE	Operator	:	pang

Memo :

LIMIT : FCC Part15 Class B(3m)/USA

No.	FREQ	READING PEAK	ANT FACTOR	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE	COMMENT
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]	
--- Horizontal ---											
1	119.419	41.5	10.6	7.6	31.6	28.1	43.5	15.4	300	166	
2	168.016	43.3	12.1	8.0	31.6	31.8	43.5	11.7	200	242	
3	479.037	48.9	18.4	9.5	31.4	45.4	46	0.6	100	22	
--- Vertical ---											
4	119.419	42.9	10.6	7.6	31.6	29.5	43.5	14.0	100	236	
5	166.072	41.5	12.1	8.0	31.6	30.0	43.5	13.5	100	359	
6	480.981	43.7	18.4	9.5	31.4	40.2	46	5.8	200	358	

2012/12/07 09:55:36

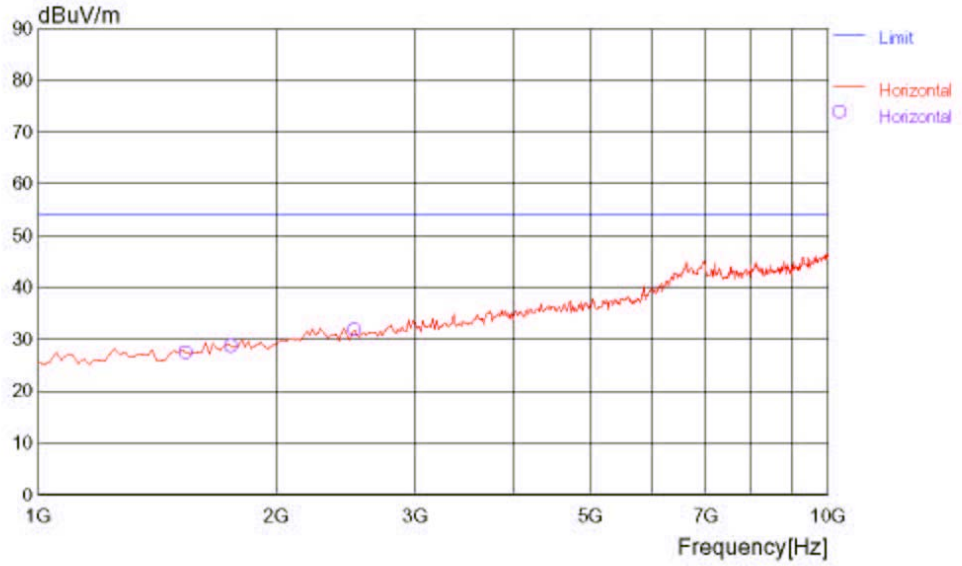
RADIATED EMISSION

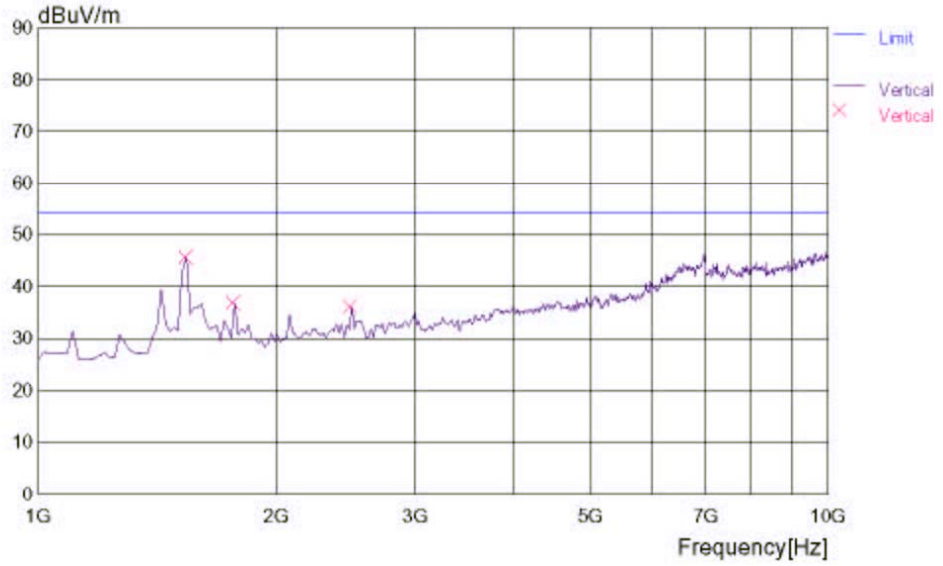
Date : 2012/12/07 09:54:40

Trade Name	:		Document No.	:	
Model Name	:	DMT580D	Power Supply	:	AC 120V/60Hz
Product Name	:	Tablet	Temp/Humi	:	27/55RH%
Test Condition	:	USB mode	Operator	:	Eliy zhang

Memo :

LIMIT : FCC Part15 Class B(3m)





2012/12/07 09:55:36

RADIATED EMISSION

Date : 2012/12/07 09:54:40

Trade Name	:		Document No.	:	
Model Name	:	DMT580D	Power Supply	:	AC 120V/60Hz
Product Name	:	Tablet	Temp/Humi	:	27/55RH%
Test Condition	:	USB mode	Operator	:	Eliy zhang

Memo :

LIMIT : FCC Part15 Class B(3m)

Frequency [MHz]	Meter (PK) [dBuV]	Ant. Type	Detector	Antenna Factor [dB/m]	Total Loss [dB]	Level (PK) [dBuV/m]	Angle [degree]	Height [m]	Pola.	Limit [dBuV/m]	Margin [dB]
1541.084	34.0	HRN	PK	29.0	-35.7	27.3	236	1.00	Hori.	54.0	26.7
1541.084	52.3	HRN	PK	29.0	-35.7	45.6	36	1.00	Vert.	54.0	8.4
1757.517	34.2	HRN	PK	29.6	-35.2	28.6	319	1.00	Hori.	54.0	25.4
1775.553	42.3	HRN	PK	29.7	-35.2	36.8	207	1.00	Vert.	54.0	17.2
2496.999	38.7	HRN	PK	31.2	-33.8	36.1	336	1.00	Vert.	54.0	17.9
2515.035	34.3	HRN	PK	31.2	-33.7	31.8	335	1.00	Hori.	54.0	22.2

2012/10/12 10:30:47

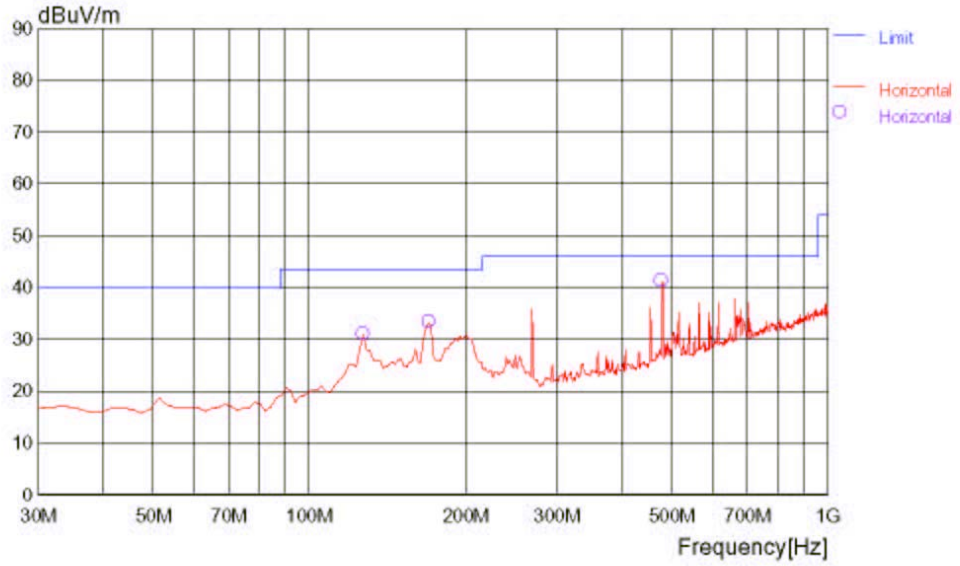
RADIATED EMISSION

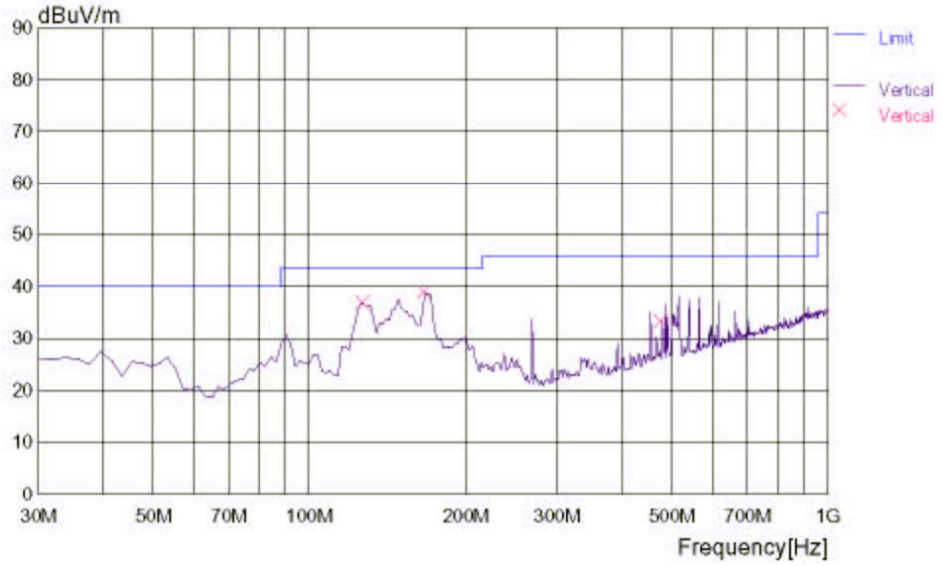
Date : 2012/10/12 10:30:30

Trade Name	:		Document No.	:	
Model Name	:	DMT580D	Power Supply	:	AC 120V60Hz
Product Name	:	Tablet	Temp/Humi	:	27/55RH%
Test Condition	:	SD card (HDMI)	Operator	:	pang

Memo :

LIMIT : FCC Part15 Class B(3m)/USA





2012/10/12 10:30:47

RADIATED EMISSION

Date : 2012/10/12 10:30:30

Trade Name	:		Document No.	:	
Model Name	:	DMT580D	Power Supply	:	AC 120V60Hz
Product Name	:	Tablet	Temp/Humi	:	27/55RH%
Test Condition	:	SD card (HDMI)	Operator	:	pang

Memo :

LIMIT : FCC Part15 Class B(3m)/USA

No.	FREQ [MHz]	READING PEAK [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]	COMMENT
--- Horizontal ---											
1	127.194	43.6	11.2	7.7	31.6	30.9	43.5	12.6	200	185	
2	169.960	44.5	12.2	8.0	31.6	33.1	43.5	10.4	100	244	
3	479.037	44.6	18.4	9.5	31.4	41.1	46	4.9	100	359	
--- Vertical ---											
4	127.194	49.4	11.2	7.7	31.6	36.7	43.5	6.8	100	308	
5	168.016	50.1	12.1	8.0	31.6	38.6	43.5	4.9	100	11	
6	479.037	36.8	18.4	9.5	31.4	33.3	46	12.7	100	255	

2012/12/07 09:38:11

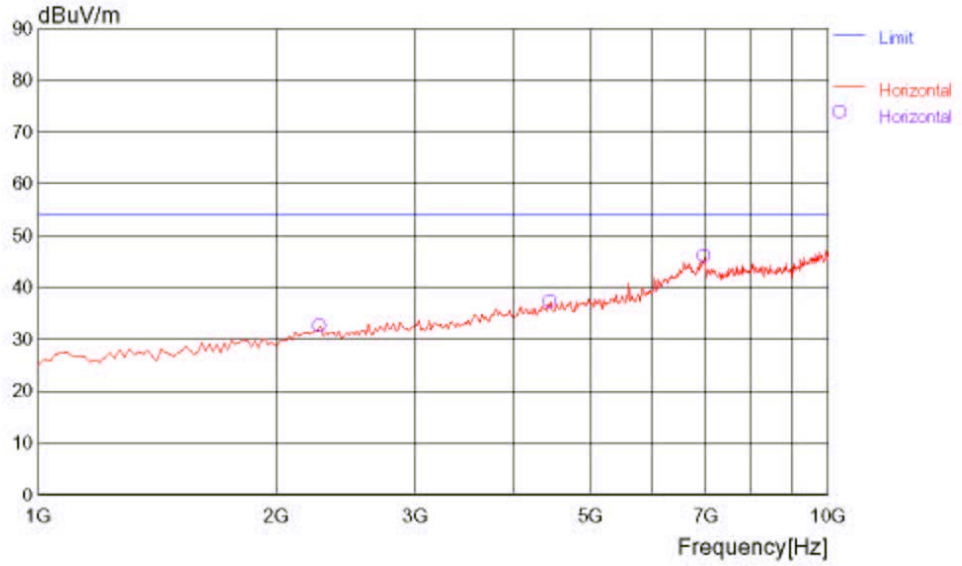
RADIATED EMISSION

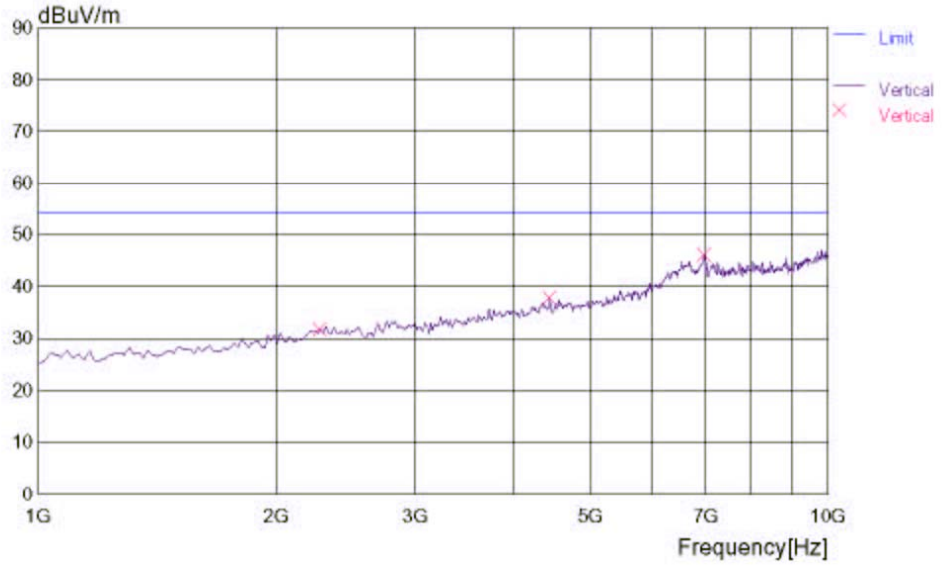
Date : 2012/12/07 09:33:15

Trade Name	:		Document No.	:	
Model Name	:	DMT580D	Power Supply	:	AC 120V/60Hz
Product Name	:	Tablet	Temp/Humi	:	27/55RH%
Test Condition	:	HDMI	Operator	:	Eliy zhang

Memo :

LIMIT : FCC Part15 Class B(3m)





2012/12/07 09:38:11

RADIATED EMISSION

Date : 2012/12/07 09:33:15

Trade Name	:		Document No.	:	
Model Name	:	DMT580D	Power Supply	:	AC 120V/60Hz
Product Name	:	Tablet	Temp/Humi	:	27/55RH%
Test Condition	:	HDMI	Operator	:	Eliy zhang

Memo :

LIMIT : FCC Part15 Class B(3m)

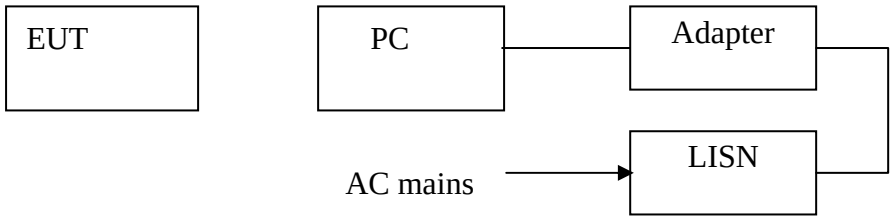
Frequency [MHz]	Meter (PK) [dBuV]	Ant. Type	Detector	Antenna Factor [dB/m]	Total Loss [dB]	Level (PK) [dBuV/m]	Angle [degree]	Height [m]	Pola.	Limit [dBuV/m]	Margin [dB]
2280.565	34.7	HRN	PK	31.8	-34.1	32.4	129	1.00	Hori.	54.0	21.6
2280.565	34.0	HRN	PK	31.8	-34.1	31.7	251	1.00	Vert.	54.0	22.3
4444.901	32.5	HRN	PK	36.6	-31.4	37.7	48	1.00	Vert.	54.0	16.3
4462.937	32.1	HRN	PK	36.6	-31.4	37.3	55	1.00	Hori.	54.0	16.7
6987.996	34.4	HRN	PK	41.0	-29.6	45.8	57	1.00	Vert.	54.0	8.2
6987.996	34.4	HRN	PK	41.0	-29.6	45.8	121	1.00	Hori.	54.0	8.2

4.2 Conducted Emission (mains)

4.2.1 Test Summary

Test Room	:	Shielded Room
Power Source	:	AC 120V / 60Hz
Standards:	:	FCC Part15 B : 2011
EUT Type	:	Table Top
EUT configuration	:	EUT's highest possible emission level

4.2.2 Block diagram of test setup



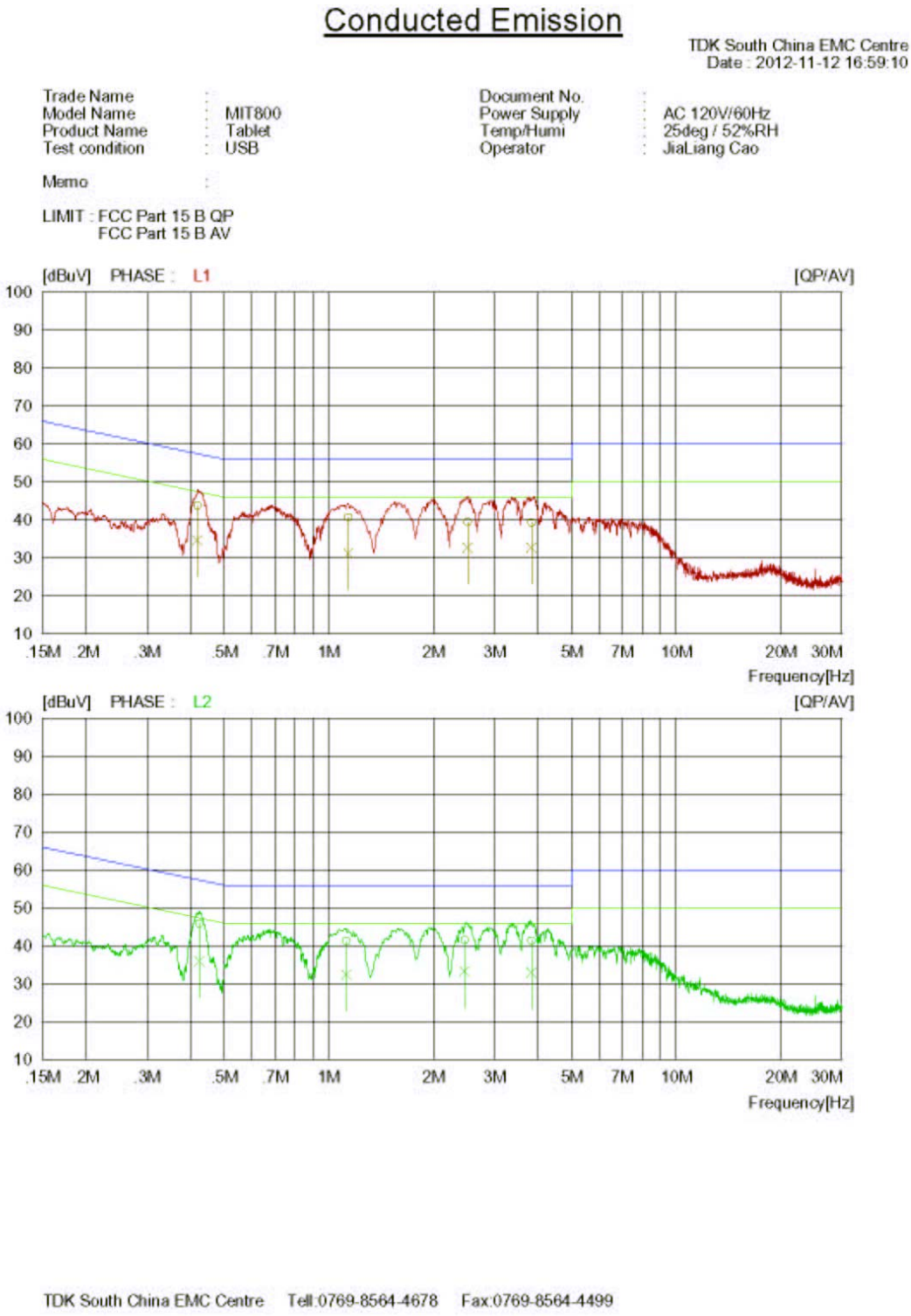
4.2.3 Measurement method

The EUT along with its peripherals were placed on a 1.0m (W) x 1.5m(L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4m space from a vertical reference plane. The EUT was connected to power mains through a Artificial Mains Network(AMN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.

The excess power cable between the EUT and the AMN was bundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

4.2.4. Result

PASS



Conducted Emission

TDK South China EMC Centre
Date : 2012-11-12 16:59:10

Trade Name	:		Document No.	:	
Model Name	:	MIT800	Power Supply	:	AC 120V/60Hz
Product Name	:	Tablet	Temp/Humi	:	25deg / 52%RH
Test condition	:	USB	Operator	:	JiaLiang Cao

Memo :

LIMIT : FCC Part 15 B QP
FCC Part 15 B AV

NO	FREQ	READING		C.FACTOR	RESULT		LIMIT		MARGIN		PHASE
		QP	AV		QP	AV	QP	AV	QP	AV	
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.41900	33.9	24.7	9.9	43.8	34.6	57.5	47.5	13.7	12.9	L1
2	1.14000	30.8	21.3	9.9	40.7	31.2	56.0	46.0	15.3	14.8	L1
3	2.51200	29.5	22.8	9.9	39.4	32.7	56.0	46.0	16.6	13.3	L1
4	3.83300	29.3	22.7	10.0	39.3	32.7	56.0	46.0	16.7	13.3	L1
5	0.42500	36.0	25.9	9.9	45.9	35.8	57.3	47.3	11.4	11.5	L2
6	1.12600	31.3	22.4	9.9	41.2	32.3	56.0	46.0	14.8	13.7	L2
7	2.46100	31.5	23.3	9.9	41.4	33.2	56.0	46.0	14.6	12.8	L2
8	3.83500	31.3	22.8	10.0	41.3	32.8	56.0	46.0	14.7	13.2	L2

TDK South China EMC Centre Tell:0769-8564-4678 Fax:0769-8564-4499

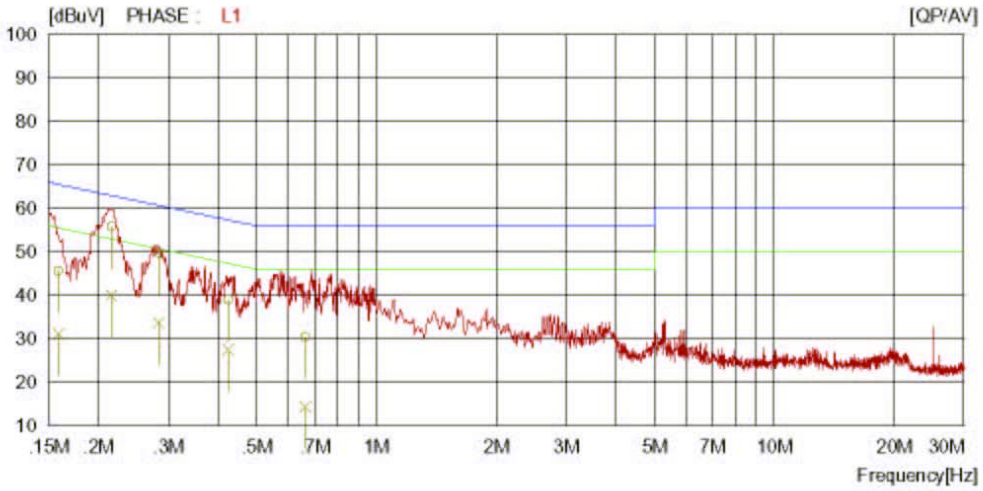
Conducted Emission

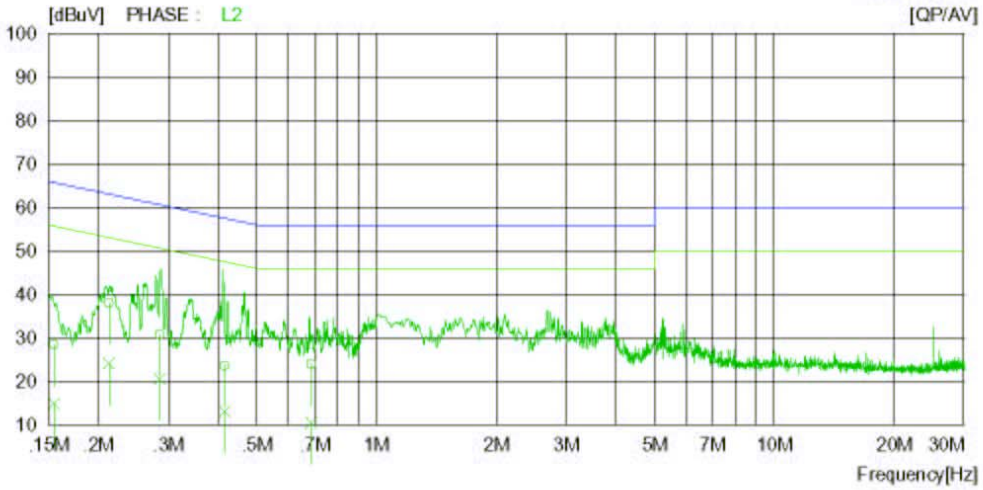
TDK South China EMC Centre
Date : 2012-10-10 14:51:07

Trade Name	:	Document No.	:
Model Name	: MIT800	Power Supply	: AC 120V/60Hz
Product Name	: Tablet	Temp/Humi	: 25deg / 52%RH
Test condition	: HDMI	Operator	: JiaLiang Cao

Memo :

LIMIT : FCC Part 15 B QP
FCC Part 15 B AV





TDK South China EMC Centre Tell:0769-8564-4678 Fax:0769-8564-4499

Conducted Emission

TDK South China EMC Centre
Date : 2012-10-10 14:51:07

Trade Name	:		Document No.	:	
Model Name	:	MIT800	Power Supply	:	AC 120V/60Hz
Product Name	:	Tablet	Temp/Humi	:	25deg / 52%RH
Test condition	:	HDMI	Operator	:	JiaLiang Cao

Memo :

LIMIT : FCC Part 15 B QP
FCC Part 15 B AV

NO	FREQ	READING		C.FACTOR	RESULT		LIMIT		MARGIN		PHASE
		QP	AV		QP	AV	QP	AV	QP	AV	
	[MHz]	[dBuV]	[dBuV]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	
1	0.15900	35.7	21.1	10.0	45.7	31.1	65.5	55.5	19.8	24.4	L1
2	0.21600	45.8	30.0	10.0	55.8	40.0	63.0	53.0	7.2	13.0	L1
3	0.28400	39.8	23.8	9.9	49.7	33.7	60.7	50.7	11.0	17.0	L1
4	0.42500	29.1	17.5	9.9	39.0	27.4	57.3	47.3	18.4	19.9	L1
5	0.66300	20.4	4.5	9.9	30.3	14.4	56.0	46.0	25.7	31.6	L1
6	0.15500	18.5	4.8	10.0	28.5	14.8	65.7	55.7	37.3	40.9	L2
7	0.21300	28.0	14.1	10.0	38.0	24.1	63.1	53.1	25.1	29.0	L2
8	0.28600	20.9	10.7	9.9	30.8	20.6	60.6	50.6	29.8	30.0	L2
9	0.41600	13.7	3.2	9.9	23.6	13.1	57.5	47.5	33.9	34.4	L2
10	0.68600	14.0	0.4	9.9	23.9	10.3	56.0	46.0	32.1	35.7	L2

TDK South China EMC Centre Tell:0769-8564-4678 Fax:0769-8564-4499

5. Test Setup

5.1 Ancillary and Accessory Equipment Used

No.	Description	Specification	Quantity
1.	Laptop	DELL, M/N:Vostro 1400	1
2.	Monitor	SHARP, M/N: LCD-19A35-BK, S/N: 806915210	1

5.2 Photographs of the Test Configuration

5.2.1 Radiated emission

Below 1G:

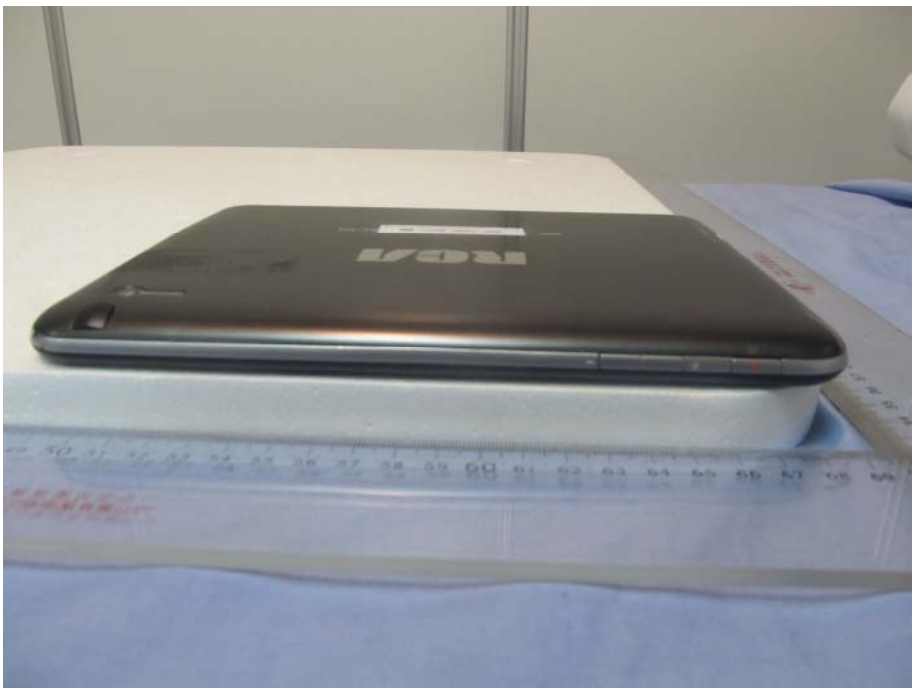
Above 1G:

5.2.2 Conducted emission

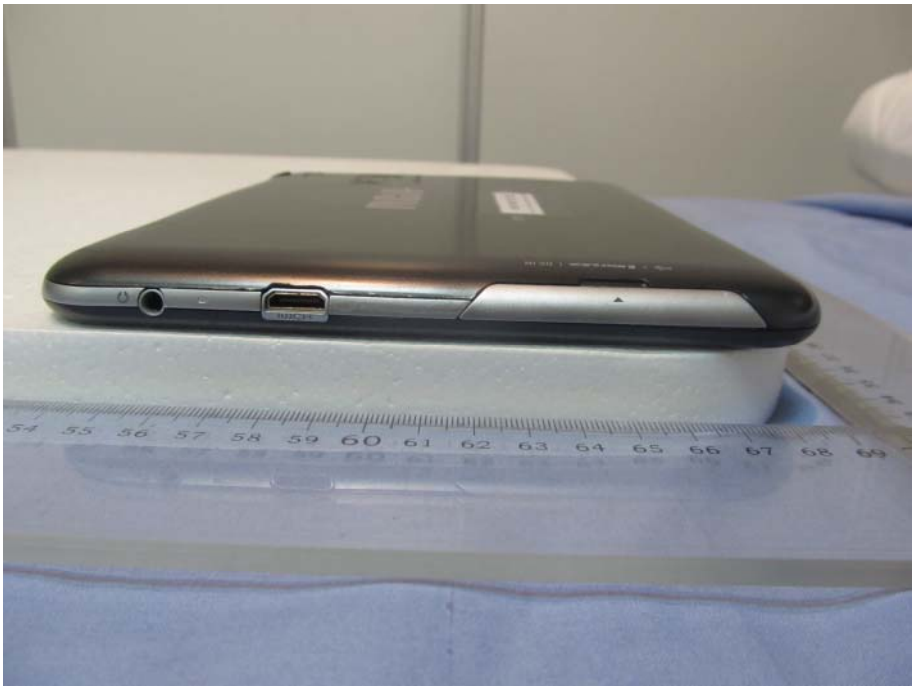
5.3 Photographs of the EUT

Enclosure of EUT

Enclosure of EUT

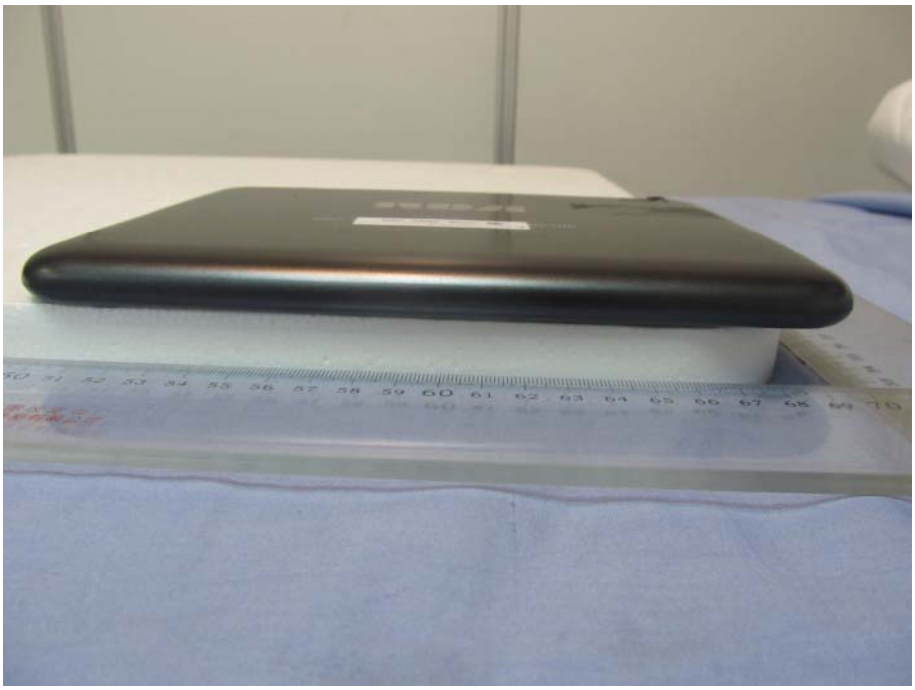


Side part of EUT

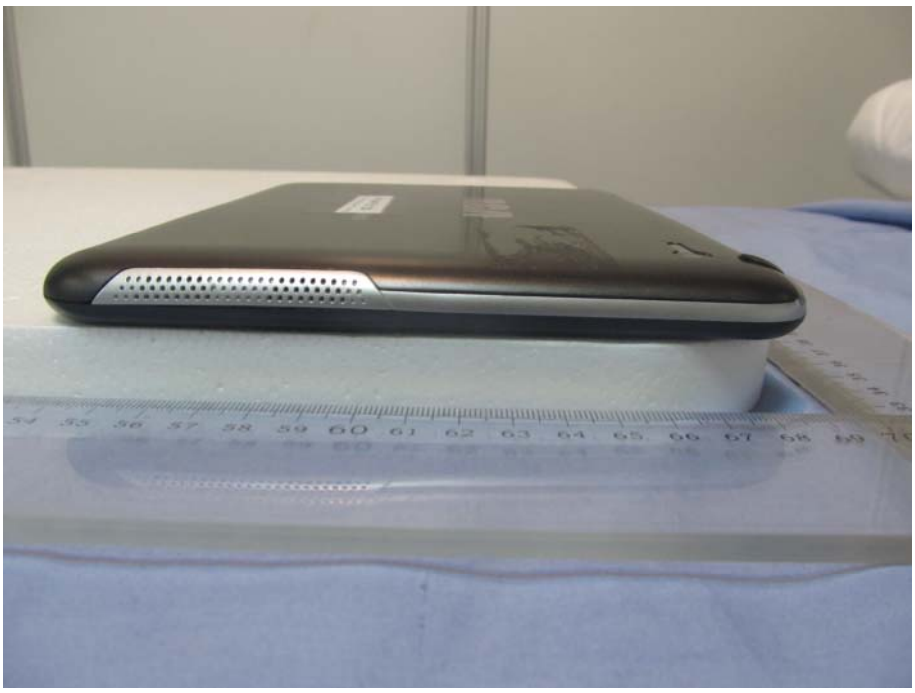


Side part of EUT

Side part of EUT



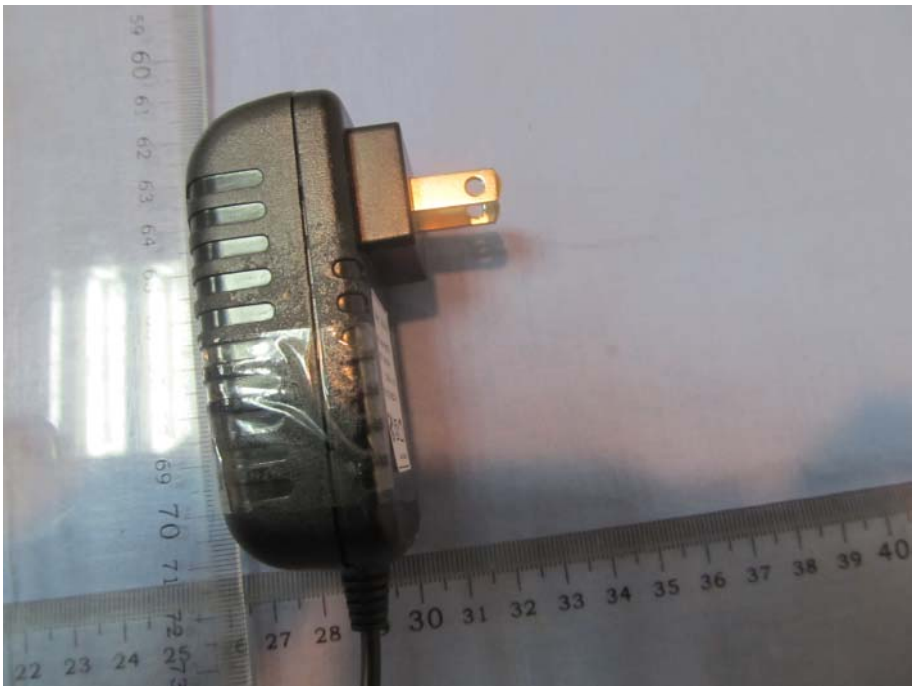
Side part of EUT



Side part of EUT

Enclosure of adaptor

Enclosure of adaptor



Enclosure of adaptor

6. Equipment List

No.	Equipment	Manufacturer	Model	Serial No.	Last Cal. Date	Cal. Period
1	Precision Biconical Antenna	TDK Co.	PBA-2030	090500	2012-09-18	1Y
2	Precision Log Periodic Antenna	TDK Co.	PLP-3003	061001	2012-09-18	1Y
3	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130174	2012-09-18	1Y
4	Horn antenna	TDK	HRN-0118	130186	2012-04-07	1Y
5	Attenuator 6 dB	Agilent	8491B	MY39260147	2012-09-18	1Y
6	Preamplifier	TDK Sonoma	310	242803	2012-04-07	1Y
7	Preamplifier	ELENA	EAU-3718 GXA	A070701	2012-04-07	1Y
8	EMI Receiver	Rohde & Schwarz	ESIB26	100234	2012-04-07	1Y
9	EMI Receiver	Rohde & Schwarz	ESCS30	100350	2012-04-07	1Y
10	Spectrum Analyzer	Agilent	E4403B	MY44210199	2012-04-07	1Y
11	Art. Mains Network	EMCO	3816/2	00044921	2012-04-07	1Y
12	Transient Limiter(10 dB)	Agilent	11947A	3107A03736	2012-04-07	1Y
13	Personal Computer	HP	DX2000MT	MXD4250FZM	N/A	
14	Personal Computer	HP	DX2000MT	MXD4130B2N	N/A	
15	Semi-Anechoic Chamber	TDK Co.	N/A	N/A	2012-04-07	1Y
16	Shielded Room	TDK Co.	N/A	N/A	N/A	

7. Test Uncertainty

Test	Range	Confidence Level	Calculated Uncertainty
Radiated emission(3m)	30-1000MHz	95%	4.3dB
Radiated emission(3m)	1-25GHz	95%	5.4dB
Conducted emission	0.15-30MHz	95%	3.3dB

8. Appendix

8.1 Confirmation of Compliance within the Limits

8.1.1 Method of calculating measurement result

Radiated Emission

	Reading	+	Antenna factor	+	Cable loss	-	Gain	=	Result
Example	44.7	+	10.1	+	7.2	-	31.6	=	30.4

Conducted Emission

	Reading	+	C. FACTOR	=	Result
Example	30.6	+	10.0	=	40.6