FCC TEST REPORT
On Behalf of
T-Link Industrial Development Co., Ltd.

Tablet PC
Model No.: M718 NEXTab 7

Prepared for	:	T-Link Industrial Development Co., Ltd.
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Report Number	:	201307791F-2
Date of Test	:	Jul. 12~ Aug. 07, 2013
Date of Report	:	Aug. 08, 2013

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TEST REPORT VERIFICATION

Applicant	:	T-Link Industrial Development Co., Ltd.
Manufacturer	:	T-Link Industrial Development Co., Ltd.
EUT	:	Tablet PC
Model No.	:	M718 NEXTab 7
Trade Mark	:	NEXGeneration Electronics
Rating :		DC 5V, 2000mA Via Adapter (Input: AC 100-240V, 0.3A, 50/60Hz)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart B 2011 & FCC / ANSI C63.4-2009

The device described above is tested by Shenzhen Anbotek Com pliance Laboratory Limited To determ ine the m aximum em ission levels em anating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both radiated and conducted em issions. The m easurement results are contained in this test report and Shenzhen Anbotek Com pliance Laboratory Lim ited Is assum ed full responsibility for the accuracy and com pleteness of these m easurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sam ple only. This report shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test : Jul. 12~ Aug. 07, 2013

Prepared by : Barak Ban

(Engineer/ Barak Ban)

Reviewer : Sally. Zhang

(Project Manager/ Sally Zhang)

Approved & Authorized Signer : Tom Chen

(Manager/ Tom Chen)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Tablet PC
Model Number	:	M718 NEXTab 7
Test Power Supply	:	AC 120V/60Hz for adapter
Adapter	:	Power Supply Model: BA-520 Input: AC 100-240V, 0.3A, 50/60Hz Output: DC 5V, 2000mA
Applicant	:	T-Link Industrial Development Co., Ltd.
Address	:	2F A4th Bldg., Hekan Industrial Zone, WuHe Road S., Longgang District, Shenzhen, Guangdong, China 518129
Manufacturer	:	T-Link Industrial Development Co., Ltd.
Address	:	2F A4th Bldg., Hekan Industrial Zone, WuHe Road S., Longgang District, Shenzhen, Guangdong, China 518129
Date of Sample received	:	Jul. 11, 2013
Date of Test	:	Jul. 12~ Aug. 07, 2013

1.2. Auxiliary Equipment Used during Test

PC	:	Manufacturer: DELL M/N: OPTIPLEX 380 S/N: 1J63X2X CE , FCC: DOC
MONITOR	:	Manufacturer: DELL M/N: E170Sc S/N: CN-00V539-64180-055-0UPS CE , FCC: DOC
KEYBOARD	:	Manufacturer: DELL M/N: SK-8115 S/N: CN-0DJ313-71616-06C-02XN CE , FCC: DOC Cable: 1m, unshielded
MOUSE	:	Manufacturer: DELL M/N: M-UARDEL7 S/N: N/A CE , FCC: DOC Cable: 1m, unshielded
Printer :		Manufacturer:Brother M/N: MFC-3360C S/N: N/A CE, FCC:DOC
Power Cord of Printer	:	Non-shielded, Detachable, 0.8m, w/o core
USB Cable for Printer	:	Non-Shielded , 1.5m
Power Line		Non-Shielded, 1.5m
VGA Cable	:	Non-Shielded, 1.5m
Network Cable	:	Non-Shielded, 1.5m
USB Cable for EUT	:	Non-Shielded, 1.2m

2. POWER LINE CONDUCTED MEASUREMENT

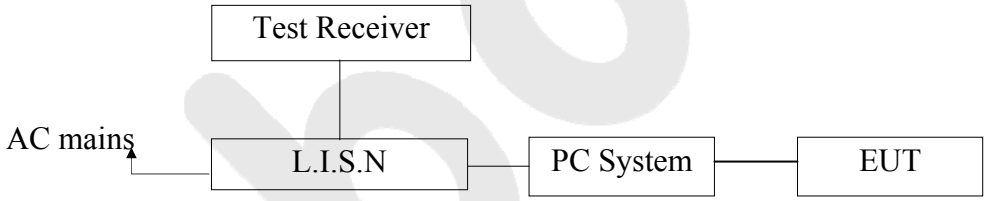
2.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Two-Line V-network	Rohde & Schwarz	ENV216	10055	Apr. 23, 2013	1 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	Apr. 23, 2013	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	Apr. 23, 2013	1 Year

2.2. Block Diagram of Test Setup

2.2.1. Block diagram of connection between the EUT and simulators



(EUT: Tablet PC)

2.3. Power Line Conducted Emission Measurement Limits (FCC Part 15 Class B)

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

2.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

EUT :		Tablet PC
Model Number	:	M718 NEXTab 7
Applicant	:	T-Link Industrial Development Co., Ltd.

2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown as Section 2.2.
2.5.2. Turn on the power of all equipment.
2.5.3. Let the EUT work on mode (Charging to Adapter) measure it.

2.6. Test Procedure

The EUT system is connected to th e power m ains through a line im pedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diag ram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipm ent and all of the interface cables shall be changed according to FCC ANSI C63.4-2009 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9KHz.

The frequency range from 150KHz to 30MHz is checked.

The test result are reported on Section 2.7.

2.7. Power Line Conducted Emission Measurement Results

PASS.

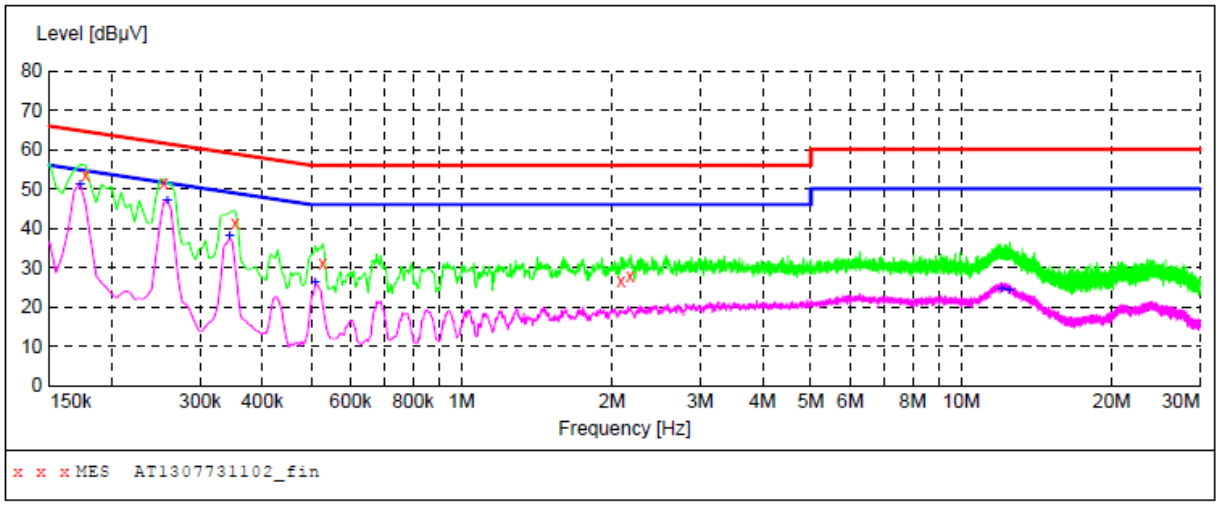
The frequency range from 150KHz to 30 MHz is investigated.

The test curves are shown in the following pages.

CONDUCTED EMISSION TEST DATA

EUT:	Tablet PC M/N:M718 NEXTab 7
Operating Condition:	Charging to Adapter
Test Site:	1# Shielded Room
Operator:	Barak Ban
Test Specification:	AC 120/60Hz for Adapter
Comment:	L
	Tem:25℃ Hum:50%

SCAN TABLE: "Voltage(150K~30M)FIN"
Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1307731102_fin"

7/15/2013 5:29PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.177000	53.70	20.1	65	10.9	QP	L1	GND
0.253500	51.50	20.1	62	10.1	QP	L1	GND
0.352500	41.50	20.1	59	17.4	QP	L1	GND
0.528000	31.10	20.1	56	24.9	QP	L1	GND
2.084500	26.70	20.3	56	29.3	QP	L1	GND
2.179000	27.70	20.3	56	28.3	QP	L1	GND

MEASUREMENT RESULT: "AT1307731102_fin2"

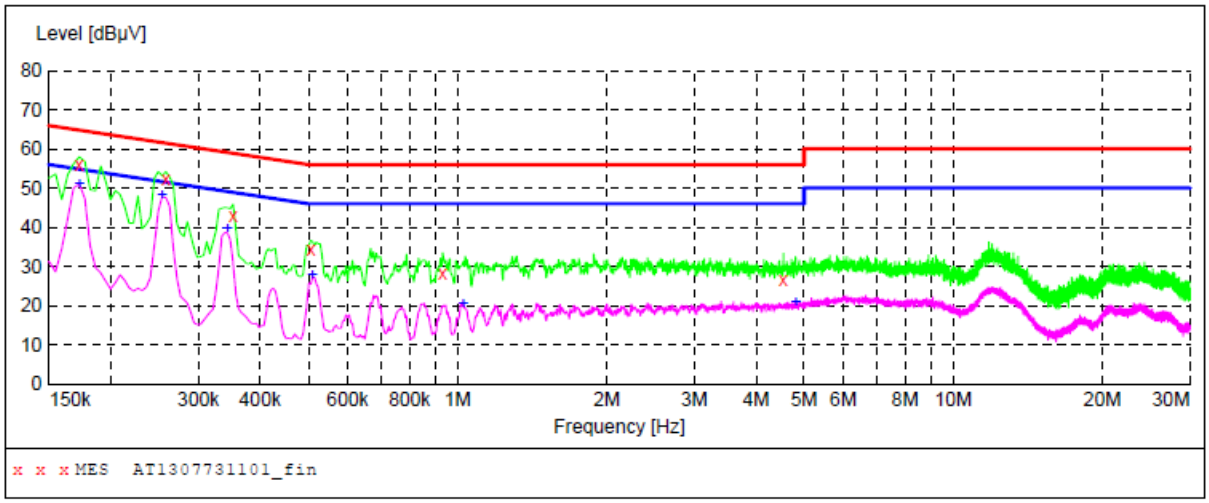
7/15/2013 5:29PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172500	51.30	20.1	55	3.7	AV	L1	GND
0.258000	47.00	20.1	52	4.5	AV	L1	GND
0.343500	37.90	20.1	49	11.2	AV	L1	GND
0.510000	26.30	20.1	46	19.7	AV	L1	GND
12.047500	24.70	20.6	50	25.3	AV	L1	GND
12.452500	24.20	20.7	50	25.8	AV	L1	GND

CONDUCTED EMISSION TEST DATA

EUT:	Tablet PC M/N:M718 NEXTab 7
Operating Condition:	Charging to Adapter
Test Site:	1# Shielded Room
Operator:	Barak Ban
Test Specification:	AC 120/60Hz for Adapter
Comment:	N
	Tem:25℃ Hum:50%

SCAN TABLE: "Voltage(150K~30M)FIN"
Short Description: 150K-30M Disturbance Voltages



MEASUREMENT RESULT: "AT1307731101_fin"

7/15/2013 5:33PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172500	55.90	20.1	65	8.9	QP	N	GND
0.258000	52.30	20.1	62	9.2	QP	N	GND
0.352500	43.10	20.1	59	15.8	QP	N	GND
0.505500	34.30	20.1	56	21.7	QP	N	GND
0.933000	28.20	20.1	56	27.8	QP	N	GND
4.541500	26.40	20.5	56	29.6	QP	N	GND

MEASUREMENT RESULT: "AT1307731101_fin2"

7/15/2013 5:33PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172500	51.10	20.1	55	3.9	AV	N	GND
0.253500	48.40	20.1	52	3.6	AV	N	GND
0.343500	39.50	20.1	49	9.6	AV	N	GND
0.510000	27.70	20.1	46	18.3	AV	N	GND
1.027000	20.40	20.2	46	25.6	AV	N	GND
4.807000	20.70	20.5	46	25.3	AV	N	GND

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

3.1.1. For Anechoic Chamber

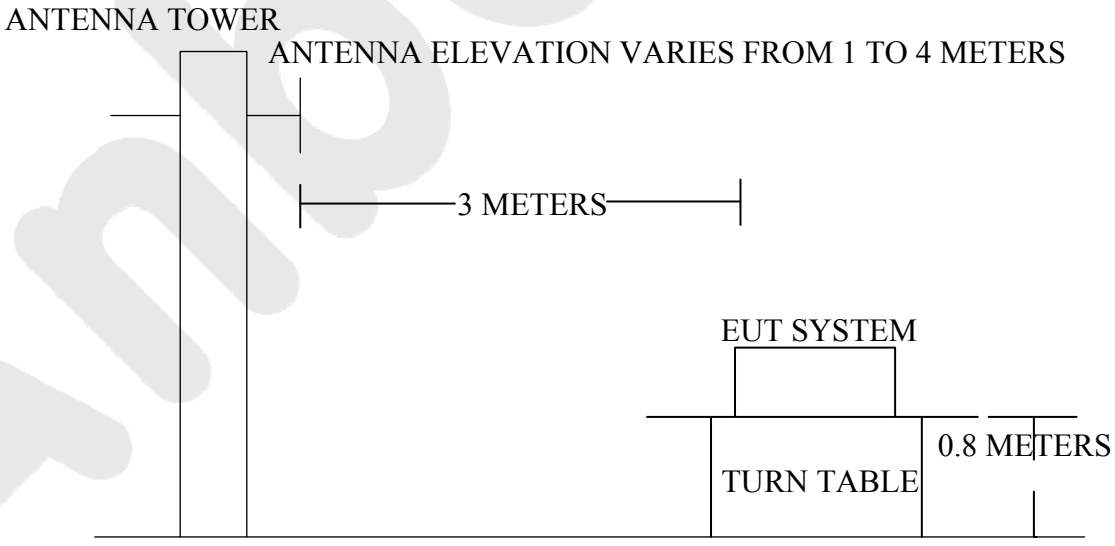
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	EMI Test Receiver	Rohde & Schwarz	ESCI	101604	Apr. 23, 2013	1 Year
2	Bilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	Apr. 23, 2013	1 Year
3	Pre-amplifier	SONOMA	310N	186860	Apr. 23, 2013	1 Year
4	EMI Test Software	SHURPLE N/A		N/A	N/A	N/A

3.2. Block Diagram of Test Setup

3.2.1. Block diagram of connection between the EUT and simulators

(EUT: Tablet PC)

3.2.2. Anechoic Chamber Test Setup Diagram



(EUT: Tablet PC)

3.3. Radiated Emission Limit (Subpart B Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m dB(	μV)/m
30~88 3		100	40.0
88~216 3		150	43.5
216~960 3		200	46.0
Above 960	3	500	54.0

Remark： (1) Emission level (dB)μV = 20 log Emission level μV/m
(2) The sm aller lim it shall appl y at the cross point between two frequency bands.
(3) Distance is the distance in m eters between the m easuring instrument, antenna and the closest point of any part of the device or system.

3.4. EUT Configuration on Measurement

The following equipm ents are installed on Radiated Em ission Measurem ent to meet the com mission requirem ents and ope rating regulations in a m anner which tends to maximize its emission characteristics in normal application.

EUT : Tablet PC
Model Number : M718 NEXTab 7
Applicant : T-Link Industrial Development Co., Ltd.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT as shown in Section 3.2.

3.5.2. Let the EUT work measure it.

3.6. Test Procedure

EUT and its sim ulators are placed on a tu rn table, which is 0.8 m eter high above ground. The turn table can rotate 360 degrees to determ ine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is m ounted on a antenna tower. The antenna can be m oved up and down between 1.0 m eter and 4 m eters to find out the m aximum em ission level. Broadband antenna (Trilog Broadband Ante nna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on m easurement. In order to find the m aximum em ission leve ls, all of the interf ace cables m ust be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

The bandwidth of the EMI test receiver (ESPI) is set at 120kHz.

The frequency range from 30MHz to 1000MHz is checked.

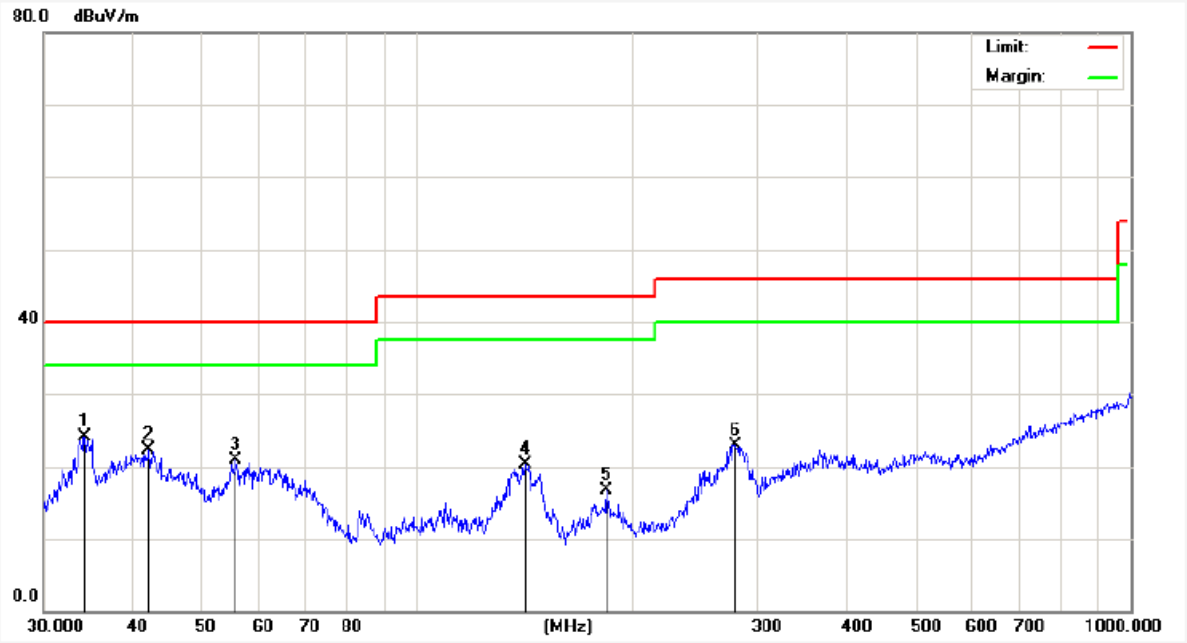
The test mode (Charging to Adapter, Communication) is tested in chamber and all the test results are listed in Section 3.7.

3.7. Radiated Emission Measurement Results

PASS.

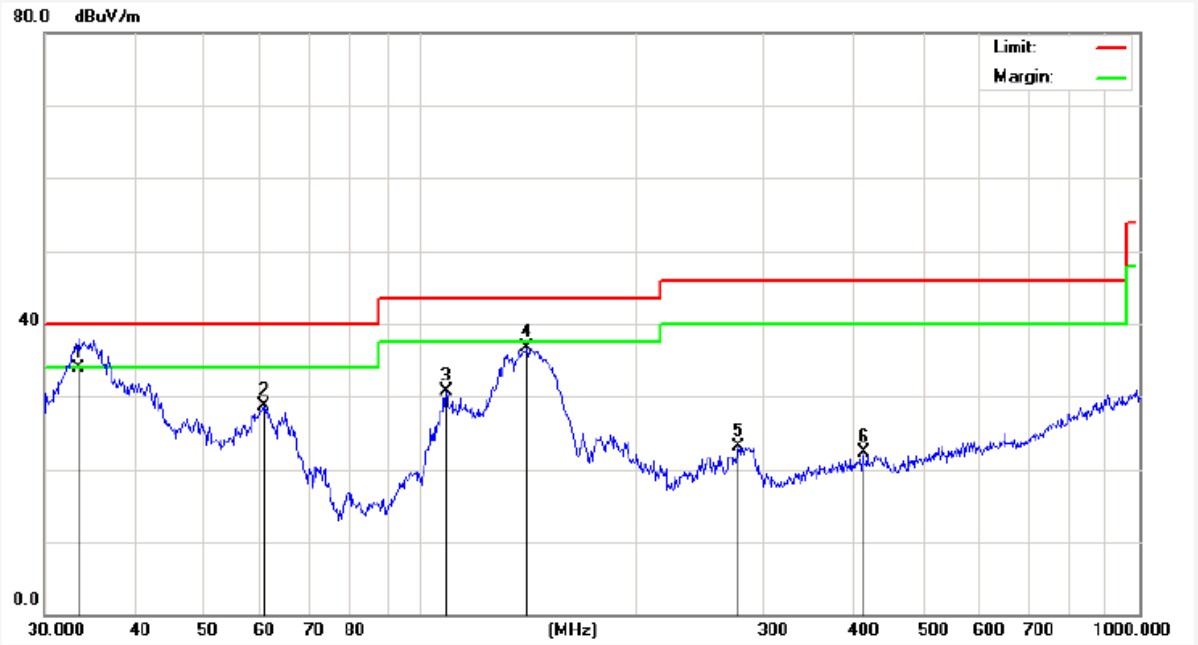
The test curves are shown in the following pages.

Job No.:	**AT1307731F**	**Polarziation:**	**Horizontal**
Standard:	**(RE)FCC PART15 B _3m**	**Power Source:**	**AC 120V/60Hz for Adapter**
Test item:	**Radiation Test**	**Date:**	**2012/07/12**
Temp.(C)/Hum.(%RH):	**24.3(C)/55%RH**	**Time:**	**22/08/46**
EUT:	**Tablet PC**	**Test By:**	**Barak Ban**
Model:	**M718 NEXTab 7**	**Distance:**	**3m**
Note:	**Charging to Adapter**		



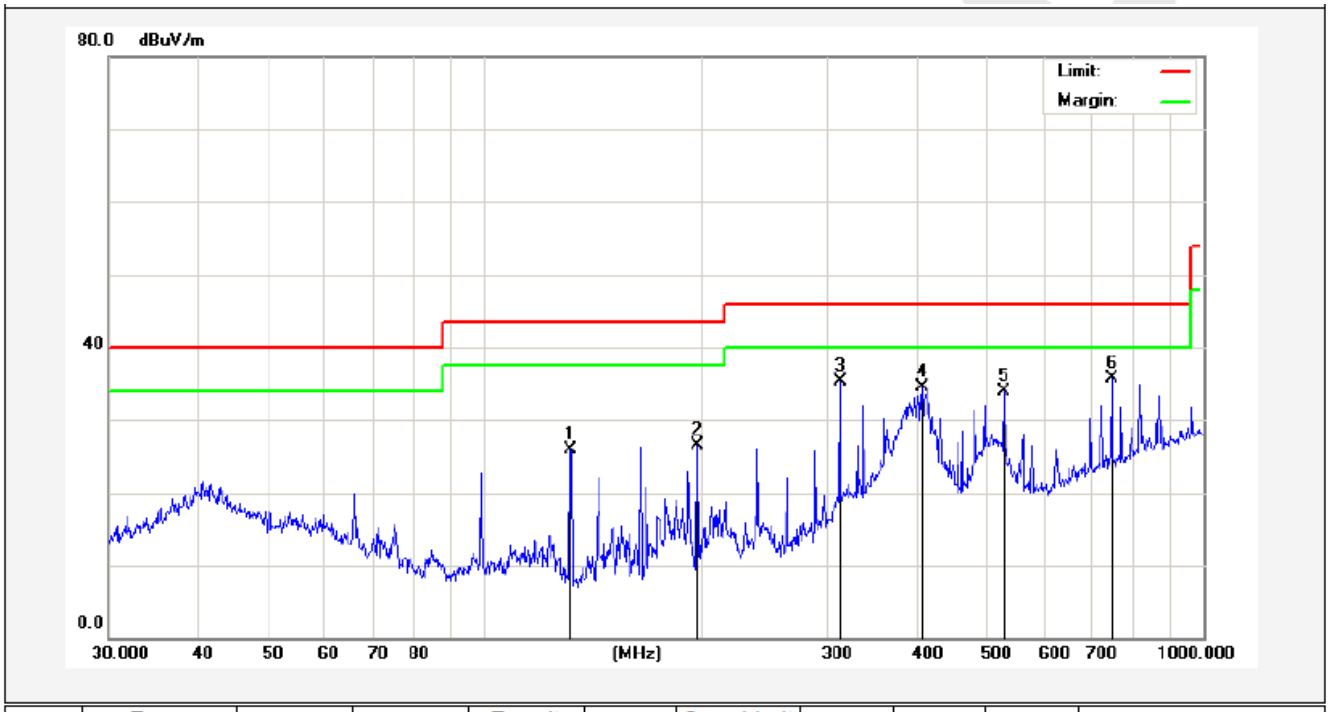
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	34.2760	38.81	-14.68	24.13	40.00	-15.87	peak			
2	42.1542	33.56	-11.21	22.35	40.00	-17.65	peak			
3	55.8047	35.85	-15.00	20.85	40.00	-19.15	peak			
4	141.8262	43.70	-23.47	20.23	43.50	-23.27	peak			
5	184.4898	38.11	-21.43	16.68	43.50	-26.82	peak			
6	279.0436	41.23	-18.26	22.97	46.00	-23.03	peak			

Job No.:	**AT1307731F**	**Polarziation:**	**Vertical**
Standard:	**(RE)FCC PART15 B _3m**	**Power Source:**	**AC 120V/60Hz for Adapter**
Test item:	**Radiation Test**	**Date:**	**2012/07/12**
Temp.(C)/Hum.(%RH):	**24.3(C)/55%RH**	**Time:**	**22/05/57**
EUT:	**Tablet PC**	**Test By:**	**Barak Ban**
Model:	**M718 NEXTab 7**	**Distance:**	**3m**
Note:	**Charging to Adapter**		



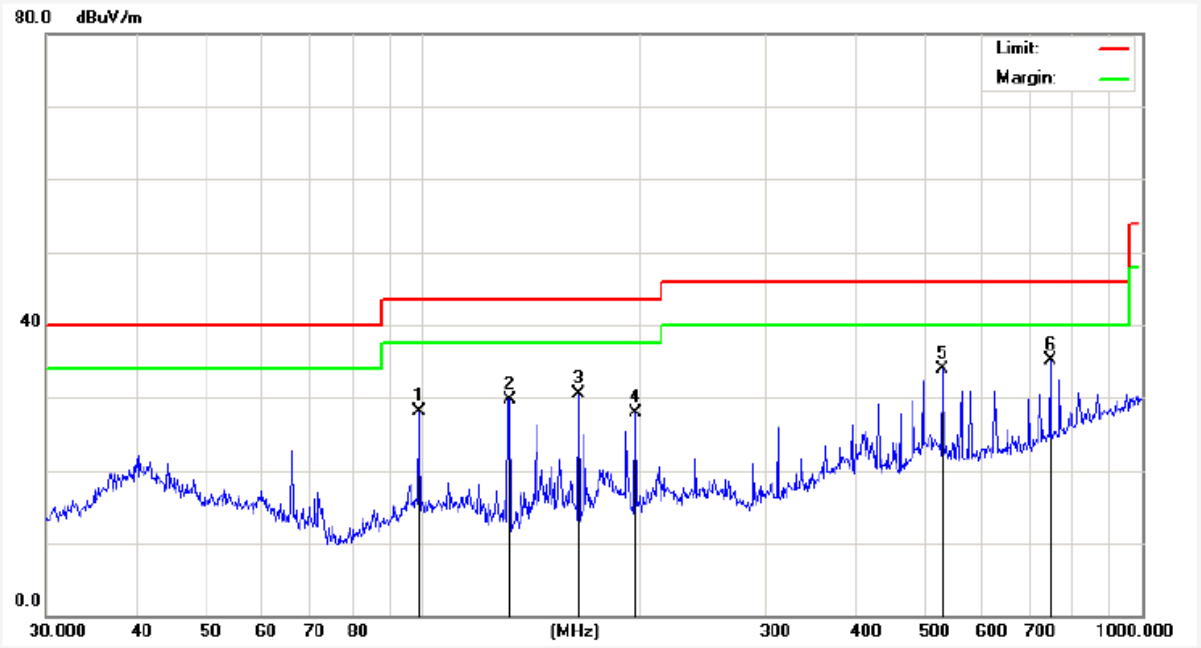
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	33.4449	48.94	-15.12	33.82	40.00	-6.18	QP	100	360	
2	60.7044	44.32	-15.69	28.63	40.00	-11.37	peak			
3	108.6470	46.37	-15.64	30.73	43.50	-12.77	peak			
4	140.8351	55.12	-18.46	36.66	43.50	-6.84	peak			
5	277.0935	38.07	-15.04	23.03	46.00	-22.97	peak			
6	413.2706	33.69	-11.48	22.21	46.00	-23.79	peak			

Job No.:	**AT1307731F**	**Polarziation:**	**Horizontal**
Standard:	**(RE)FCC PART15 B _3m**	**Power Source:**	**DC 3.7V Battery**
Test item:	**Radiation Test**	**Date:**	**2012/07/12**
Temp.(C)/Hum.(%RH):	**24.3(C)/55%RH**	**Time:**	**22/15/28**
EUT:	**Tablet PC**	**Test By:**	**Barak Ban**
Model:	**M718 NEXTab 7**	**Distance:**	**3m**
Note:	**Communication**		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	131.7577	48.80	-22.93	25.87	43.50	-17.63	peak			
2	197.8928	47.47	-20.88	26.59	43.50	-16.91	peak			
3	312.1794	51.51	-16.21	35.30	46.00	-10.70	peak			
4	406.0880	47.25	-12.72	34.53	46.00	-11.47	peak			
5	528.2458	44.99	-11.04	33.95	46.00	-12.05	peak			
6	744.8661	43.31	-7.58	35.73	46.00	-10.27	peak			

Job No.:	**AT1307731F**	**Polarziation:**	**Vertical**
Standard:	**(RE)FCC PART15 B _3m**	**Power Source:**	**DC 3.7V Battery**
Test item:	**Radiation Test**	**Date:**	**2012/07/12**
Temp.(C)/Hum.(%RH):	**24.3(C)/55%RH**	**Time:**	**22/14/52**
EUT:	**Tablet PC**	**Test By:**	**Barak Ban**
Model:	**M718 NEXTab 7**	**Distance:**	**3m**
Note:	**Communication**		

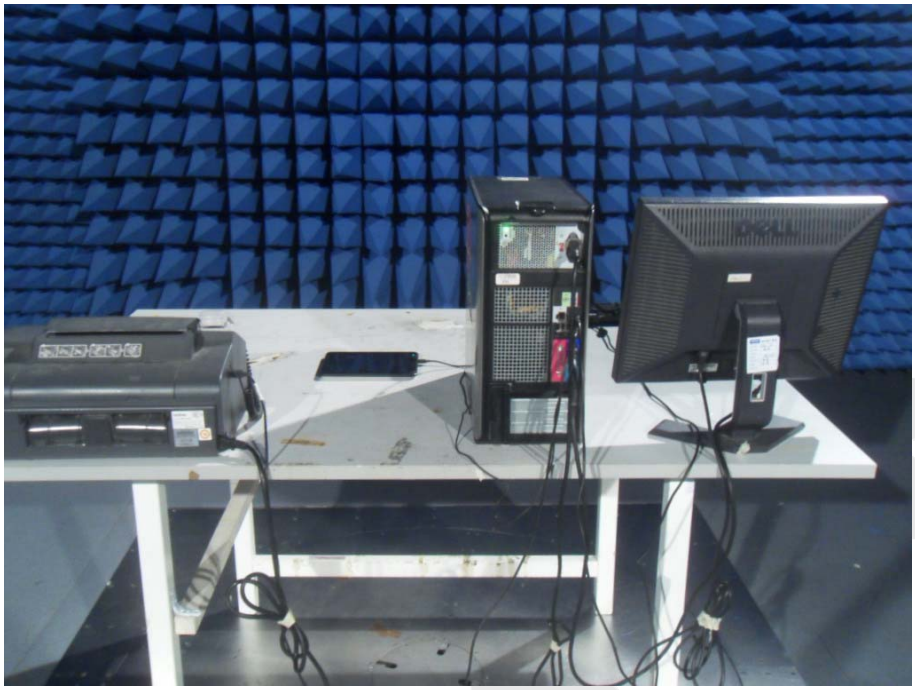


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/	Over Limit (dB)	Detector	Height (cm)	degree (deg)	Remark
1	98.8324	43.88	-15.82	28.06	43.50	-15.44	peak			
2	132.2205	47.76	-17.96	29.80	43.50	-13.70	peak			
3	164.9074	48.12	-17.71	30.41	43.50	-13.09	peak			
4	197.8926	43.86	-15.88	27.98	43.50	-15.52	peak			
5	528.2458	44.41	-10.47	33.94	46.00	-12.06	peak			
6	744.8660	42.23	-7.13	35.10	46.00	-10.90	peak			

4. PHOTOGRAPH

4.1. Photo of Power Line Conducted Emission Test

4.2. Photo of Radiated Emission Test



Appendix Ⅰ (External Photos)

Figure 1
The EUT-Overall View

Figure 2
The EUT-Front View

Figure 3
The EUT-Back View

Figure 4
The EUT-Port View

Figure 5
The EUT-Port View

Figure 6
The Label of Adapter View

Appendix Ⅱ (Internal Photos)

Figure 7
The EUT-Inside View

Figure 8
PCB of the EUT-Front View

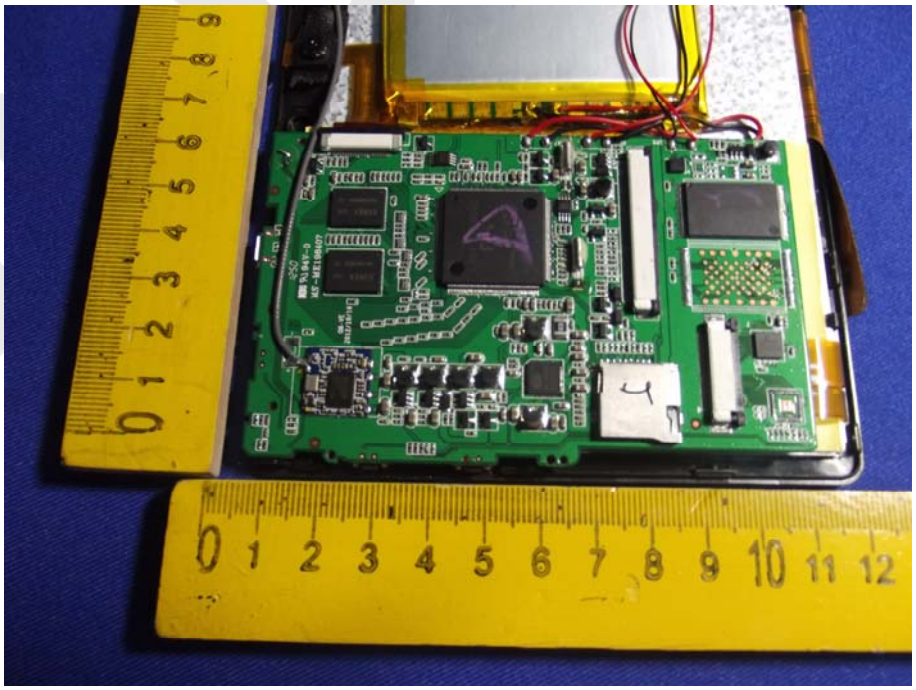


Figure 9
PCB of the EUT-Back View

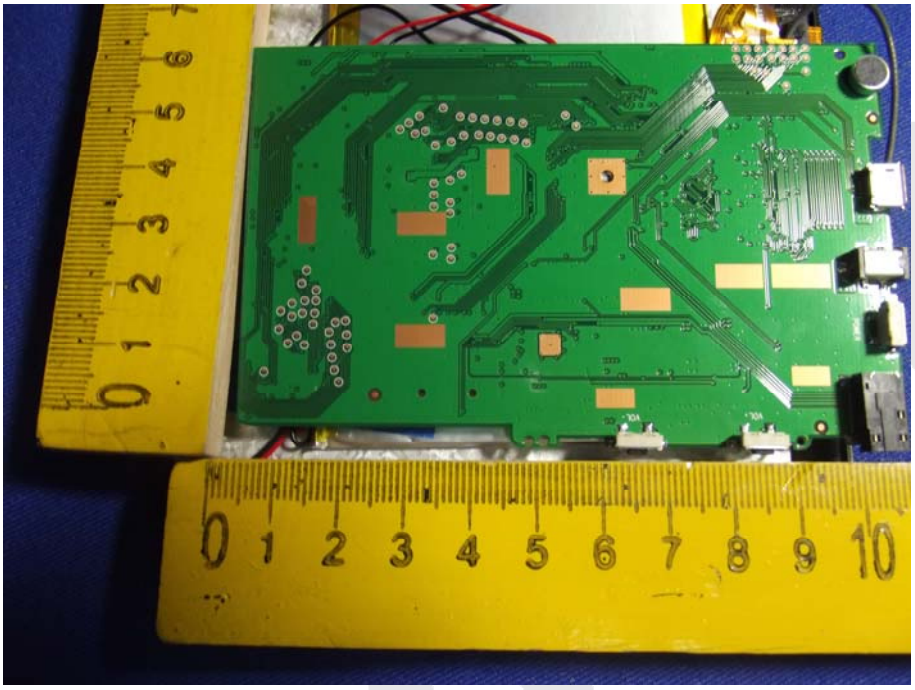


Figure 10
PCB of the EUT-Battery View

Figure 11
PCB of the EUT-Front View