

FCC TEST REPORT

On Behalf of
VISUAL LAND INC.

7inch TABLET

Model No.: ME-7Q

Prepared for : VISUAL LAND INC.
Address : 17785 Center Court Dr. Suite 670, Cerritos, CA 90703

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : March 05, 2014
Number of tested samples : 1
Serial number : Prototype
Date of Test : March 05, 2014–March 26, 2014
Date of Report : March 26, 2014

FCC TEST REPORT**FCC CFR 47 PART 15 Subpart B: 2012****Report Reference No. : LCS140221512TF**

Date Of Issue : March 26, 2014

Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,
Bao'an District, Shenzhen, Guangdong, ChinaTesting Location/ Procedure..... : Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing method ☐**Applicant's Name : VISUAL LAND INC.**

Address : 17785 Center Court Dr. Suite 670, Cerritos, CA 90703

Test Specification

Standard..... : FCC CFR 47 PART 15 Subpart B: 2012, ANSI C63.4-2009

Test Report Form No..... : LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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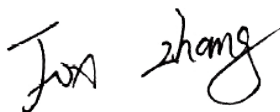
Test Item Description..... : 7inch TABLET

Trade Mark : RANGERFONE

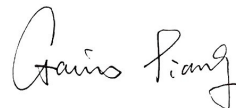
Model/ Type Reference : ME-7Q

Ratings..... : DC 3.7V by Li-ion battery Recharge Voltage: DC 5V/2A
Adapter Parameters: Input AC 100~240V, 50/60Hz 0.68A
Output: DC 5V/2A**Result : Positive****Compiled by:**

Tree Zhan/ File administrators

Supervised by:

Fox Zhang/ Technique principal

Approved by:

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS140221512TFMarch 26, 2014

Date of issue

Type / Model..... : ME-7Q

EUT..... : 7inch TABLET

Applicant..... : VISUAL LAND INC.

Address..... : 17785 Center Court Dr. Suite 670, Cerritos, CA 90703

Telephone..... : /

Fax..... : /

Contact..... : /

Manufacturer..... : MultiElements Co., Ltd.Address..... : Room c, 4F, Buiding 7, Huafeng Industrial Park, Xixiang
Yintian Road, Baoan District, Shenzhen

Telephone..... : /

Fax..... : /

Contact..... : /

Factory..... : MultiElements Co., Ltd.Address..... : Room c, 4F, Buiding 7, Huafeng Industrial Park, Xixiang
Yintian Road, Baoan District, Shenzhen

Telephone..... : /

Fax..... : /

Contact..... : /

Test Result according to the standards on page 5: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC CFR 47 PART 15 Subpart B: 2012	Class B	PASS
Radiated disturbance	FCC CFR 47 PART 15 Subpart B: 2012	Class B	PASS
N/A is an abbreviation for Not Applicable.			

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : 7inch TABLET

Model Number : ME-7Q

Power Supply : DC 3.7V by Li-ion battery
 Recharge Voltage: DC 5V/2A
 Adapter Parameters: Input AC 100~240V, 50/60Hz 0.68A
 Output: DC 5V/2A

WIFI :
 Frequency Range : 2412-2462.00MHz

Channel Spacing : 5MHz

Channel Number : 11 Channels for 20MHz Bandwidth
 7 Channels for 40MHz Bandwidth

Modulation Technology : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)
 IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)
 IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK)

Data Rates : IEEE 802.11b: 1-11Mbps
 IEEE 802.11g: 6-54Mbps
 IEEE 802.11n: MCS0-MCS8

Antenna Type And Gain : Integral antenna, 2.0dBi(Max.)

2.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
Shenzhen Sure-Power Electrical Co., Ltd.	POWER SUPPLY	SW-050200A	--	VOC
Lenovo	Note Book	B470	--	DOC

2.3. External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	1	1.2m, unshielded
Earphone Port	1	N/A
TF Card Slot	1	N/A

2.4. Description of Test Facility

Site Description

EMC Lab.

: Accredited by CNAS, June 04, 2010

The Certificate Registration Number. is L4595.

Accredited by FCC, July 14, 2011

The Certificate Registration Number. is 899208.

Accredited by Industry Canada, May. 02, 2011

The Certificate Registration Number. is 9642A-1

Accredited by VCCI, Japan January 30, 2012

The Certificate Registration Number. is C-4260 and R-3804

Accredited by ESMD, April 24, 2012

The Certificate Registration Number. is ARCB0108.

Accredited by UL, June 11, 2012

The Certificate Registration Number. is 100571-492.

Accredited by TUV, November 21, 2012

The Certificate Registration Number. is SCN1081

Accredited by Intertek, December 21, 2012

The Certificate Registration Number. is 2011-RTL-L1-50.

2.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Radiation Uncertainty :	30MHz~200MHz	$\pm 2.96\text{dB}$	(1)
	200MHz~1000MHz	$\pm 3.10\text{dB}$	(1)
	1000MHz~6000MHz	$\pm 4.10\text{dB}$	(1)
Conduction Uncertainty :	150kHz~30MHz	$\pm 1.63\text{dB}$	(1)
Power disturbance :	30MHz~300MHz	$\pm 1.60\text{dB}$	(1)

1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

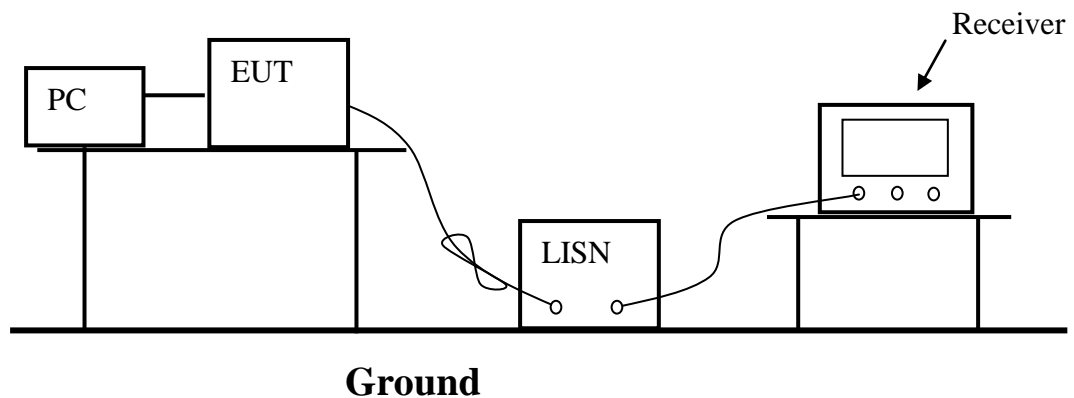
3. POWER LINE CONDUCTED MEASUREMENT

3.1. Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	EMI Test Receiver	R & S	ESCI	101142	2013/06/18	2014/06/17
2	EMI Test Receiver	R & S	ESPI	101840	2013/06/18	2014/06/17
3	Artificial Mains	R & S	ENV216	101288	2013/06/19	2014/06/18
4	EMI Test Software	AUDIX	E3	N/A	2013/06/18	2014/06/17

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Measurement Limits (Class B)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
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.

3.4. 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.

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipment.

3.5.3. Let the EUT work in test mode (ON) and measure it.

3.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram 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 equipment 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 is set at 9kHz.

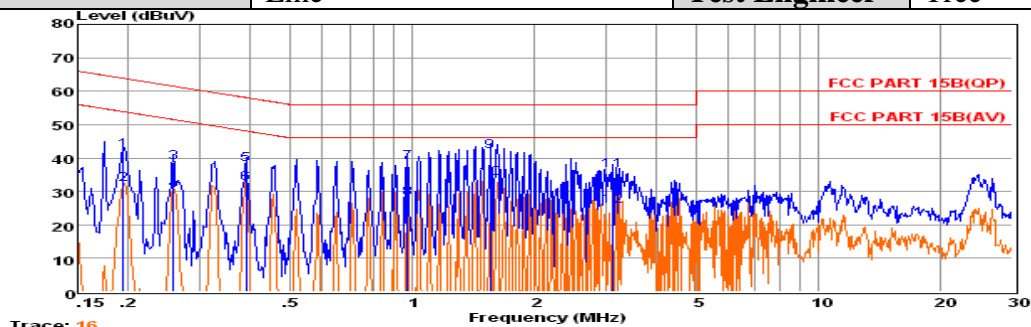
The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Measurement Results

PASS.

All the scanning waveforms for Conducted Emission Measurement are refer to the next page. Only record the worst results(Data transmitting).

Model No.	ME-7Q	Test Date	March 26, 2014
Environmental Conditions	24°C, 56% RH	Test Mode	Data transmitting
Pol	Line	Test Engineer	Tree

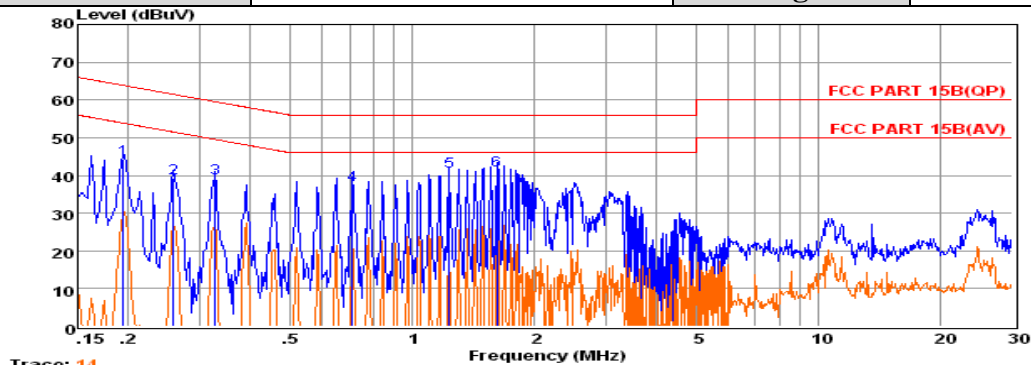


Trace: 16
 Env: Ins: 24*/56%
 EUT: 7inch TABLET
 M/N: ME-7Q
 Power Rating: AC 120V/60Hz
 Test Mode: Data transmitting
 Operator: Tree
 Memo:
 Pol: LINE

	Freq	Reading	LisnFac	CabLos	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.19447	41.99	0.14	0.02	42.15	63.84	-21.69	QP
2	0.19448	31.86	0.14	0.02	32.02	53.84	-21.82	Average
3	0.25751	38.67	0.03	0.03	38.73	61.51	-22.78	QP
4	0.25753	30.36	0.03	0.03	30.42	51.51	-21.09	Average
5	0.38929	38.02	0.03	0.04	38.09	58.08	-19.99	QP
6	0.38931	32.24	0.03	0.04	32.31	48.08	-15.77	Average
7	0.97354	38.70	0.03	0.05	38.78	56.00	-17.22	QP
8	0.97355	27.80	0.03	0.05	27.88	46.00	-18.12	Average
9	1.55184	41.93	0.04	0.05	42.02	56.00	-13.98	QP
10	1.55350	33.79	0.04	0.05	33.88	46.00	-12.12	Average
11	3.10657	36.06	0.06	0.06	36.18	56.00	-19.82	QP
12	3.10765	25.40	0.06	0.06	25.52	46.00	-20.48	Average

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss.
 2. The emission levels that are 20dB below the official limit are not reported.

Model No.	ME-7Q	Test Date	March 26, 2014
Environmental Conditions	24°C, 56% RH	Test Mode	Data transmitting
Pol	Neutral	Test Engineer	Tree



Trace: 14
 Env: Ins: 24*/56%
 EUT: 7inch TABLET
 M/N: ME-7Q
 Power Rating: AC 120V/60Hz
 Test Mode: Data transmitting
 Operator: Tree
 Memo:
 Pol: NEUTRAL

	Freq	Reading	LisnFac	CabLos	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.19447	44.30	0.03	0.02	44.35	63.84	-19.49	QP
2	0.25751	39.35	0.03	0.03	39.41	61.51	-22.10	QP
3	0.32685	39.09	0.03	0.03	39.15	59.53	-20.38	QP
4	0.71219	37.41	0.03	0.04	37.48	56.00	-18.52	QP
5	1.23567	41.03	0.04	0.05	41.12	56.00	-14.88	QP
6	1.61903	41.37	0.04	0.05	41.46	56.00	-14.54	QP

Remarks: 1. Measured = Reading + Lisn Factor +Cable Loss.
 2. The emission levels that are 20dB below the official limit are not reported.

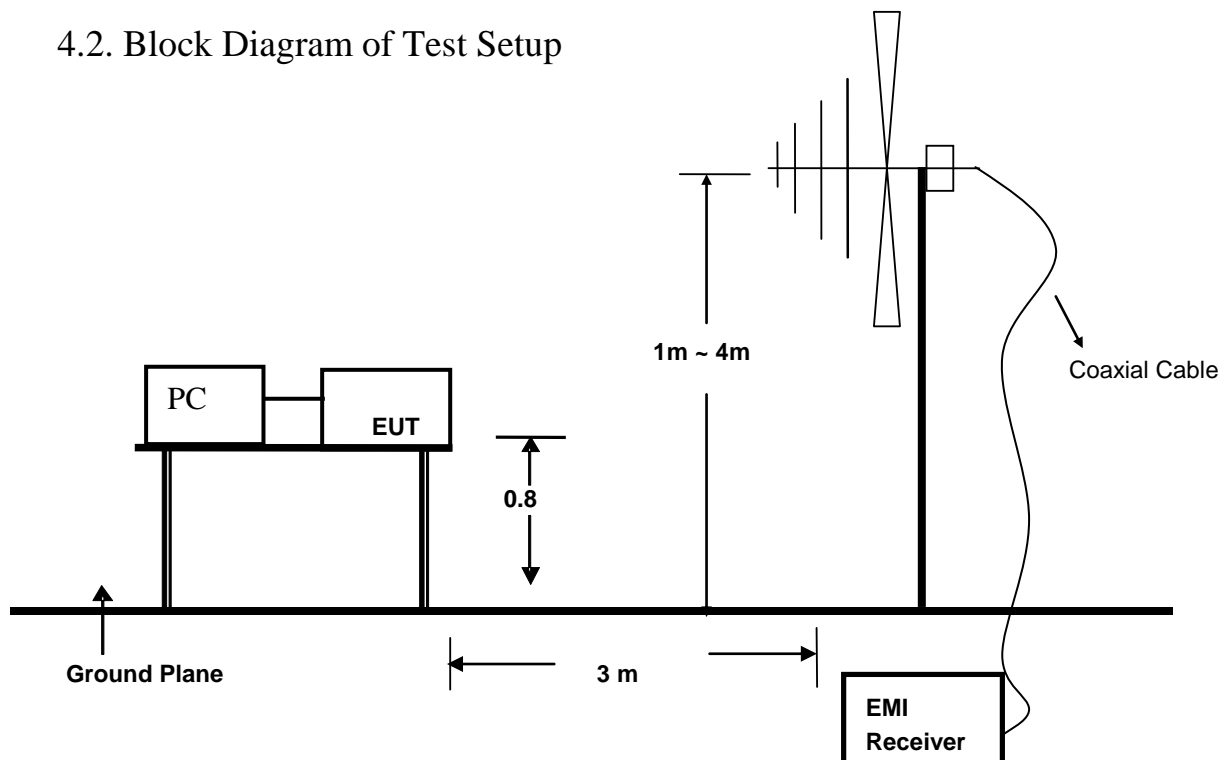
4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	EMI Test Receiver	R & S	ESCI	101142	2013/06/18	2014/06/17
2	EMI Test Receiver	R & S	ESPI	101840	2013/06/18	2014/06/17
3	Log per Antenna	SCHWARZBECK	VULB9163	9163-470	2013/06/21	2014/06/20
4	Amplifier	Compliance Direction	PAP-0102	21001	2013/06/18	2014/06/17
5	Spectrum Analyzer	Agilent	E4407B	MY41440754	2013/07/16	2014/07/15
6	Horn Antenna	ETS.LINDGREN	3115	00034771	2013/12/11	2014/12/10
7	EMI Test Software	AUDIX	E3	N/A	2013/06/18	2014/06/17

4.2. Block Diagram of Test Setup



4.3. Radiated Emission Limit (Class B)

Limits for radiated disturbance Blow 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54

Remark: (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$
 (2) The smaller limit shall apply at the cross point between two frequency bands.
 (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown in Section 4.2.

4.5.2. Let the EUT work in test mode (on) and measure it.

4.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

The bandwidth of the EMI test receiver is set at 120kHz, 1000kHz.

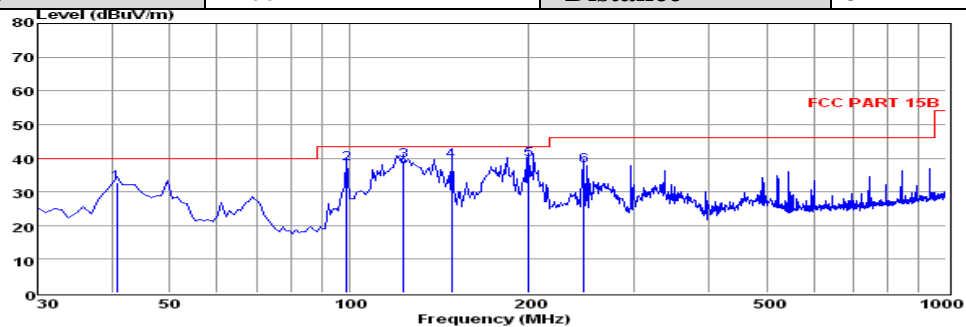
The frequency range from 30MHz to 1000MHz is checked and above 1GHz .

4.7. Radiated Emission Noise Measurement Result

PASS.

The scanning waveforms please refer to the next page. Only record the worst results. Below 30MHz the result is too low so we did not show it.

Model No.	ME-7Q	Test Date	March 26, 2014
Environmental Conditions	24°C, 56% RH	Test Mode	Data transmitting
Pol	Vertical	Detector Function	Quasi-peak
Test Engineer	Tree	Distance	3m

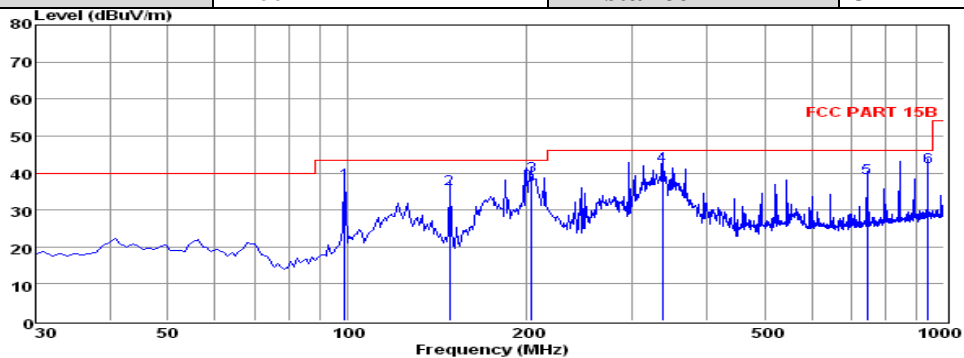


Env./Ins: 24°C/56%
 EUT: 7inch TABLET
 M/N: ME-7Q
 Power Rating: AC 120V/60Hz
 Test Mode: Data transmitting
 Operator: Tree
 Memo:
 pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	40.67	18.49	0.50	13.58	32.57	40.00	-7.43	QP
2	98.87	24.59	0.61	13.09	38.29	43.50	-5.21	QP
3	123.12	28.45	0.70	10.00	39.15	43.50	-4.35	QP
4	148.34	30.22	0.86	8.25	39.33	43.50	-4.17	QP
5	199.75	28.03	0.84	10.57	39.44	43.50	-4.06	QP
6	247.28	24.58	0.97	12.08	37.63	46.00	-8.37	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the official limit are not reported

Model No.	ME-7Q	Test Date	March 26, 2014
Environmental Conditions	24°C, 56% RH	Test Mode	Data transmitting
Pol	Horizontal	Detector Function	Quasi-peak
Test Engineer	Tree	Distance	3m

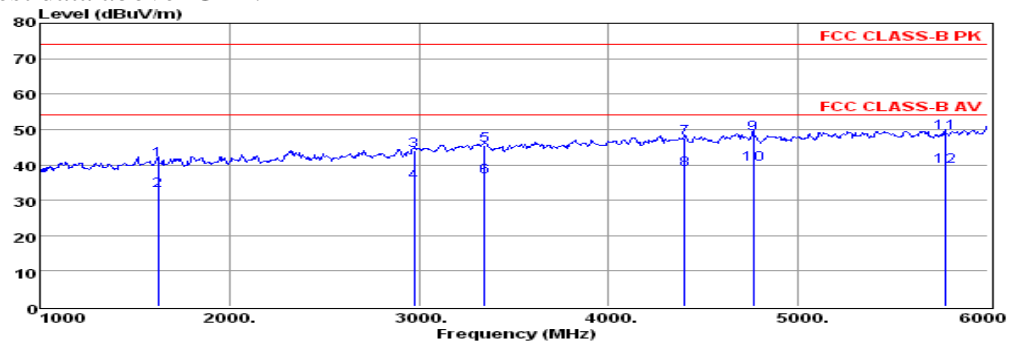


Env./Ins: 24°C/56%
 EUT: 7inch TABLET
 M/N: ME-7Q
 Power Rating: AC 120V/60Hz
 Test Mode: Data transmitting
 Operator: Tree
 Memo:
 pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	98.87	23.86	0.61	13.09	37.56	43.50	-5.94	QP
2	148.34	26.50	0.86	8.25	35.61	43.50	-7.89	QP
3	203.63	27.90	0.82	10.68	39.40	43.50	-4.10	QP
4	337.49	26.73	1.16	14.02	41.91	46.00	-4.09	QP
5	742.95	17.40	1.78	19.35	38.53	46.00	-7.47	QP
6	940.83	18.44	1.94	21.36	41.74	46.00	-4.26	QP

Note: 1. All readings are Quasi-peak values.
 2. Measured= Reading + Antenna Factor + Cable Loss
 3. The emission that ate 20db blow the official limit are not reported

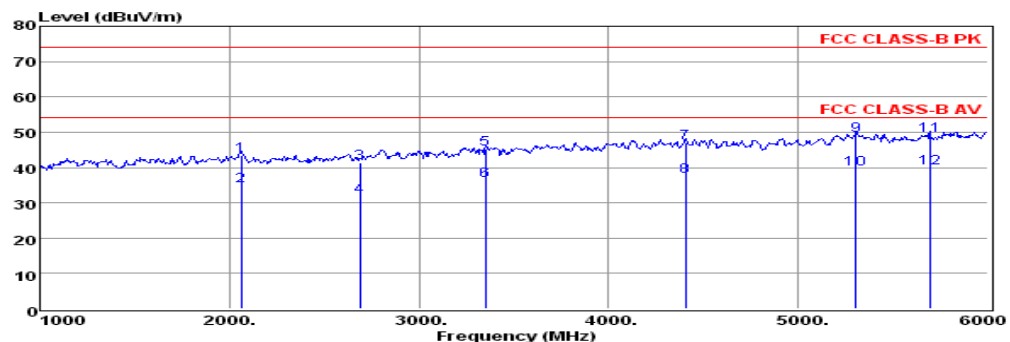
The test data above 1GHz:



Env./Ins: 24°C/56%
EUT: 7inch TABLET
M/N: ME-7Q
Power Rating: AC 120V/60Hz
Test Mode: Data transmitting
Operator: Tree
Memo:
pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	1625.20	47.43	4.43	26.36	41.26	74.00	-32.74	Peak
2	1625.30	38.97	4.43	26.36	32.80	54.00	-21.20	Average
3	2975.50	45.93	5.87	29.18	43.95	74.00	-30.05	Peak
4	2975.55	36.92	5.87	29.19	34.95	54.00	-19.05	Average
5	3345.10	45.79	6.35	30.42	45.62	74.00	-28.38	Peak
6	3345.20	36.72	6.35	30.42	36.55	54.00	-17.45	Average
7	4400.20	44.38	7.44	32.30	47.52	74.00	-26.48	Peak
8	4400.30	35.41	7.44	32.30	38.55	54.00	-15.45	Average
9	4765.40	44.23	7.66	33.21	48.65	74.00	-25.35	Peak
10	4765.47	35.64	7.66	33.21	40.06	54.00	-13.94	Average
11	5775.80	41.49	8.65	35.74	49.09	74.00	-24.91	Peak
12	5775.90	32.05	8.65	35.74	39.65	54.00	-14.35	Average

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that are 20db below the official limit are not reported



Env./Ins: 24°C/56%
EUT: 7inch TABLET
M/N: ME-7Q
Power Rating: AC 120V/60Hz
Test Mode: Data transmitting
Operator: Tree
Memo:
pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2060.60	47.13	4.58	28.92	43.56	74.00	-30.44	Peak
2	2060.70	38.28	4.58	28.92	34.71	54.00	-19.29	Average
3	2690.40	44.83	5.47	28.23	41.45	74.00	-32.55	Peak
4	2690.50	35.16	5.47	28.24	31.79	54.00	-22.21	Average
5	3350.10	45.29	6.36	30.43	45.14	74.00	-28.86	Peak
6	3350.18	36.39	6.36	30.43	36.24	54.00	-17.76	Average
7	4405.70	43.97	7.44	32.31	47.12	74.00	-26.88	Peak
8	4405.74	34.20	7.44	32.31	37.35	54.00	-16.65	Average
9	5305.00	42.89	8.14	34.56	49.01	74.00	-24.99	Peak
10	5305.10	33.45	8.14	34.56	39.57	54.00	-14.43	Average
11	5695.50	41.86	8.57	35.54	49.22	74.00	-24.78	Peak
12	5695.60	32.60	8.57	35.54	39.96	54.00	-14.04	Average

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that are 20db below the official limit are not reported

7. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following identical model(s):

--	--	--	--
----	----	----	----

Belong to the tested device:

Product description : 7inch TABLET

Model name : ME-7Q

Remark: No additional models were tested.

-----THE END OF REPORT-----