FCC TEST REPORT

On Behalf of

VISUAL LAND INC.

8inch TABLET

Model No.: ME-8Q

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

Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
Tel	:	(+86)755-82591330
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Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com

Date of receipt of test sample	:	February 21, 2014
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	February 21, 2014–March 18, 2014
Date of Report	:	March 18, 2014

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FCC TEST REPORT

FCC CFR 47 PART 15 Subpart B: 2012

Report Reference No.	**:**	**LCS140221511TF**
Date Of Issue	:	March 18, 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, China
Testing 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.	**:**	**8inch TABLET**
Trade Mark	:	RANGERFONE
Model/ Type Reference	:	ME-8Q
Ratings.....	:	DC 3.7V by Li-ion battery Recharge Voltage: DC 5V/2A Adapter Parameters: Input AC 100~240V, 50/60Hz 0.35A Output: DC 5V/2A
Result ..... :		**Positive**

Compiled by:	**Supervised by:**	**Approved by:**
Tree Zhan/ File administrators	Fox Zhang/ Technique principal	Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : LCS140221511TF	March 18, 2014 Date of issue

Type / Model.....	: ME-8Q
EUT.....	: 8inch 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.			

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2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	:	8inch TABLET
Model Number	:	ME-8Q
Power Supply	:	DC 3.7V by Li-ion battery Recharge Voltage: DC 5V/2A Adapter Parameters: Input AC 100~240V, 50/60Hz 0.35A 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.)

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2.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
Shenzhen Bestgk Technology Co., Ltd	Adapter	K-E30502000U1	--	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	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
		1000MHz~6000MHz	±4.10dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

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

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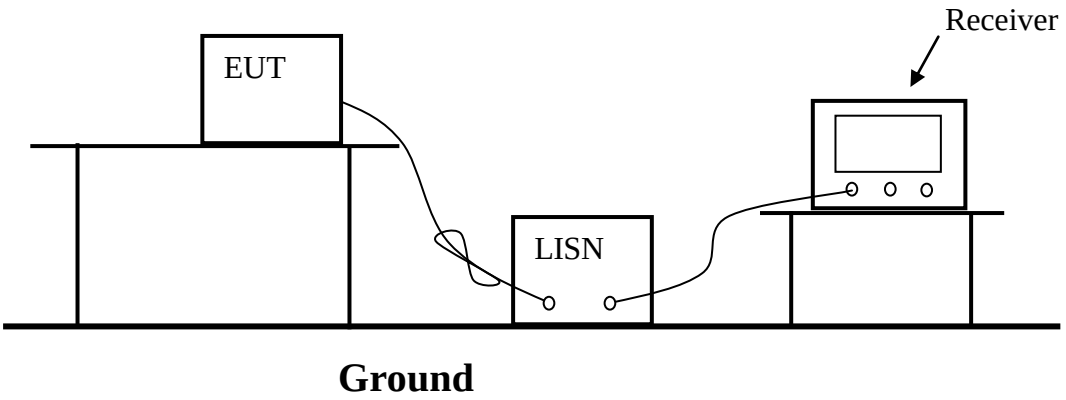
3. POWER LINE CONDUCTED MEASUREMENT

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.

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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).

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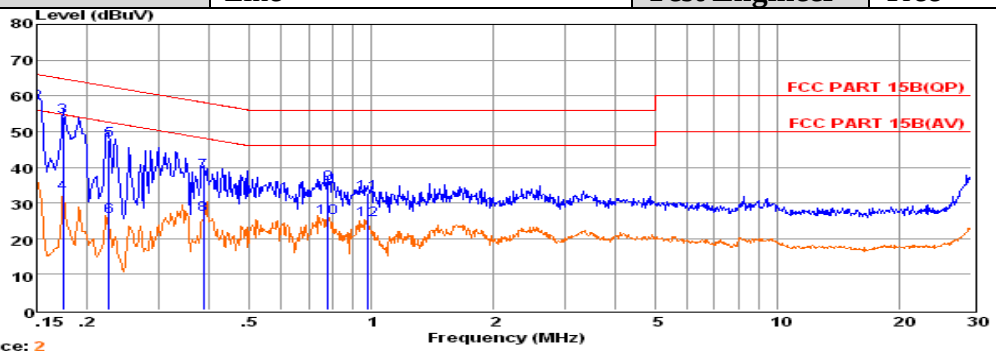
Model No.	ME-8Q	Test Date	March 18, 2014
Environmental Conditions	24℃, 56% RH	Test Mode	Data transmitting
Pol	Line	Test Engineer	Tree



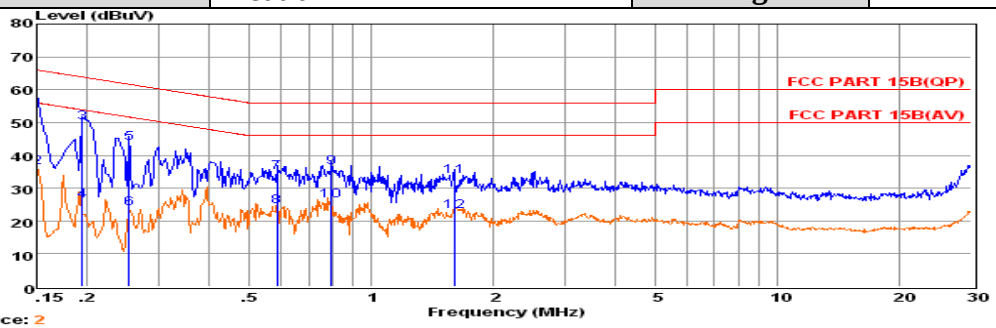
Trace: 2

Env. Ins: 24*/56%
EUT: 8inch TABLET
M/N: ME-8Q
Power Rating: AC 120V/60Hz
Operator: Tree
Memo:
Pol: LINE

	Freq MHz	Reading dBuV	LisnFac dB	CabLos dB	Measured dBuV	Limit dBuV	Over dB	Remark
1	0.15000	26.50	9.57	0.02	36.09	56.00	-19.91	Average
2	0.15000	48.45	9.57	0.02	58.04	66.00	-7.96	QP
3	0.17399	44.52	9.60	0.02	54.14	64.77	-10.63	QP
4	0.17402	23.04	9.60	0.02	32.66	54.77	-22.11	Average
5	0.22556	37.92	9.63	0.03	47.58	62.61	-15.03	QP
6	0.22564	16.60	9.63	0.03	26.26	52.61	-26.35	Average
7	0.38519	28.86	9.62	0.04	38.52	58.17	-19.65	QP
8	0.38520	17.19	9.62	0.04	26.85	48.17	-21.32	Average
9	0.78345	25.61	9.64	0.04	35.29	56.00	-20.71	QP
10	0.78346	16.05	9.64	0.04	25.73	46.00	-20.27	Average
11	0.98391	23.16	9.63	0.05	32.84	56.00	-23.16	QP
12	0.98394	15.50	9.63	0.05	25.18	46.00	-20.82	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-8Q	Test Date	March 18, 2014
Environmental Conditions	24℃, 56% RH	Test Mode	Data transmitting
Pol	Neutral	Test Engineer	Tree



Trace: 2

Env. Ins: 24*/56%
EUT: 8inch TABLET
M/N: ME-8Q
Power Rating: AC 120V/60Hz
Operator: Tree
Memo:
Pol: NEUTRAL

	Freq MHz	Reading dBuV	LisnFac dB	CabLos dB	Measured dBuV	Limit dBuV	Over dB	Remark
1	0.15000	46.65	9.70	0.02	56.37	66.00	-9.63	QP
2	0.15002	26.65	9.70	0.02	36.37	56.00	-19.63	Average
3	0.19447	40.24	9.60	0.02	49.86	63.84	-13.98	QP
4	0.19449	16.45	9.60	0.02	26.07	53.84	-27.77	Average
5	0.25345	34.20	9.60	0.03	43.83	61.64	-17.81	QP
6	0.25346	14.17	9.60	0.03	23.80	51.64	-27.84	Average
7	0.58540	25.14	9.62	0.04	34.80	56.00	-21.20	QP
8	0.58544	14.69	9.62	0.04	24.35	46.00	-21.65	Average
9	0.79600	26.53	9.63	0.04	36.20	56.00	-19.80	QP
10	0.79605	16.35	9.63	0.04	26.02	46.00	-19.98	Average
11	1.60196	24.06	9.63	0.05	33.74	56.00	-22.26	QP
12	1.60296	13.35	9.63	0.05	23.03	46.00	-22.97	Average

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

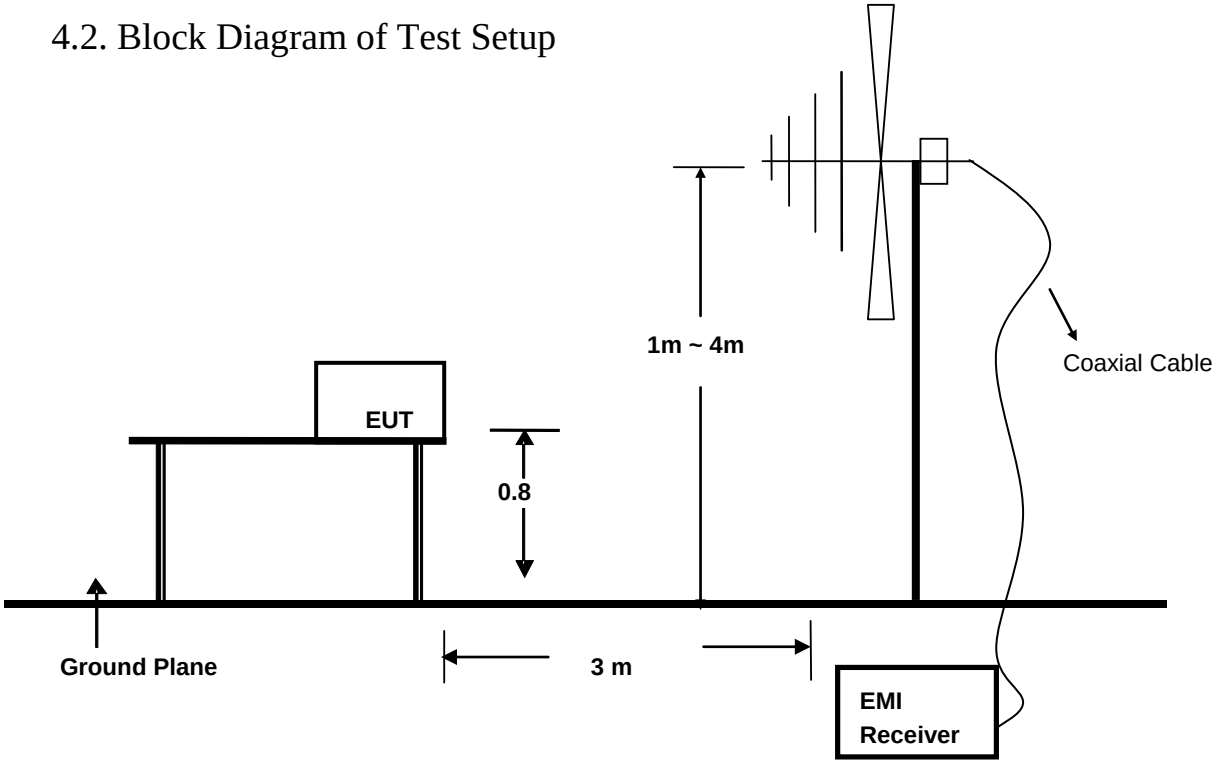
4. RADIATED EMISSION MEASUREMENT

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	
		μV/m	dB(μV)/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 (dB)μV = 20 log Emission level μV/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.

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.

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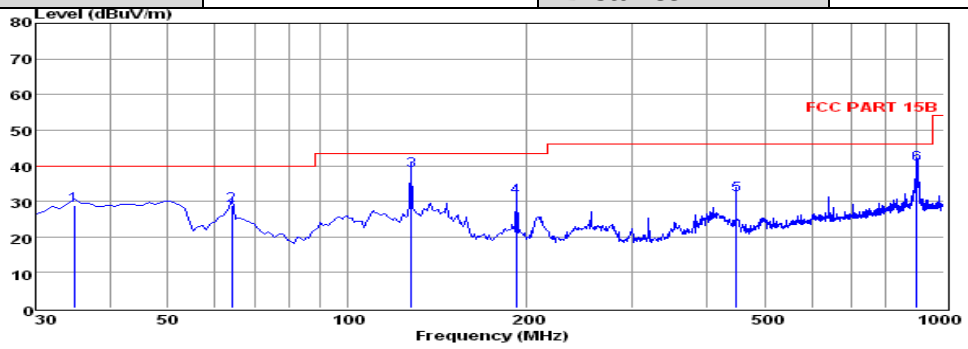
Model No.	ME-8Q	**Test Date**	March 18, 2014
Environmental Conditions	24℃, 56% RH	**Test Mode**	Data transmitting
Pol	Vertical	**Detector Function**	Quasi-peak
Test Engineer	Tree	**Distance**	3m

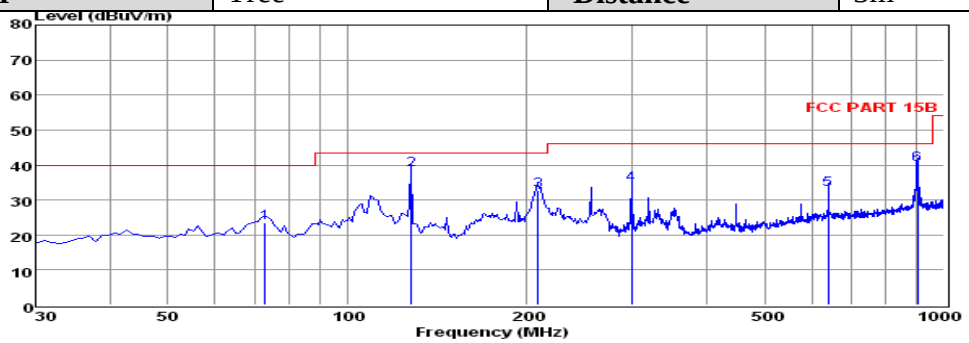


Env./Ins: 24℃/56%
EUT: Sinch TABLET
M/N: ME-8Q
Power Rating: AC 120V/60Hz
Test Mode: OTG
Operator: Tree
Memo:
pol: VERTICAL

	Freq MHz	Reading dBuV	CabLos dB	Antfac dB/m	Measured dBuV/m	Limit dBuV/m	Over dB	Remark
1	34.85	15.99	0.41	12.30	28.70	40.00	-11.30	QP
2	63.95	17.10	0.48	11.13	28.71	40.00	-11.29	QP
3	127.97	28.90	0.67	9.24	38.81	43.50	-4.69	QP
4	191.99	19.82	0.76	10.56	31.14	43.50	-12.36	QP
5	448.07	15.06	1.27	15.57	31.90	46.00	-14.10	QP
6	901.06	17.32	1.88	21.10	40.30	46.00	-5.70	QP

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

Model No.	ME-8Q	**Test Date**	March 18, 2014
Environmental Conditions	24℃, 56% RH	**Test Mode**	Data transmitting
Pol	Horizontal	**Detector Function**	Quasi-peak
Test Engineer	Tree	**Distance**	3m

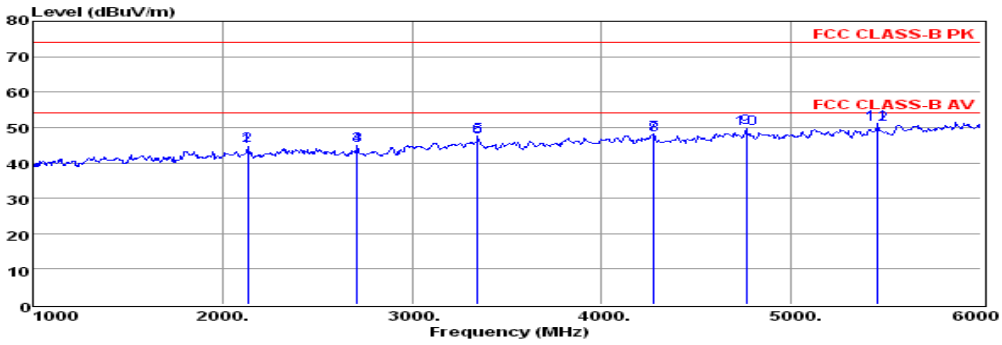


Env./Ins: 24℃/56%
EUT: Sinch TABLET
M/N: ME-8Q
Power Rating: AC 120V/60Hz
Test Mode: OTG
Operator: Tree
Memo:
pol: HORIZONTAL

	Freq MHz	Reading dBuV	CabLos dB	Antfac dB/m	Measured dBuV/m	Limit dBuV/m	Over dB	Remark
1	72.68	14.86	0.55	8.19	23.60	40.00	-16.40	QP
2	127.97	28.66	0.67	9.24	38.57	43.50	-4.93	QP
3	208.48	21.03	0.86	10.84	32.73	43.50	-10.77	QP
4	299.66	20.36	1.13	13.05	34.54	46.00	-11.46	QP
5	640.13	12.78	1.56	18.59	32.93	46.00	-13.07	QP
6	902.03	17.06	1.87	21.10	40.03	46.00	-5.97	QP

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

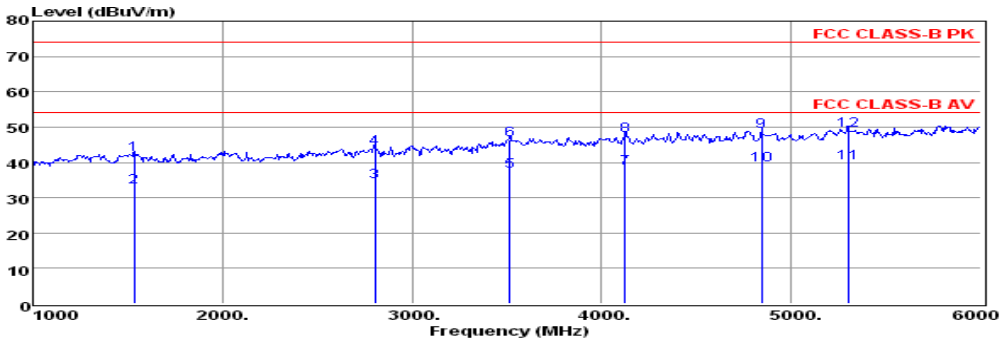
The test data above1GHz:



Env./Ins: 24℃/56%
EUT: Sinch TABLET
M/N: ME-8Q
Power Rating: AC 120V/60Hz
Test Mode: OTG
Operator: Tree
Memo:
pol: VERTICAL

	Freq MHz	Reading dBuV	CabLos dB	Antfac dB/m	Measured dBuV/m	Limit dBuV/m	Over dB	Remark
1	2135.80	48.35	4.69	28.69	44.66	74.00	-29.34	Peak
2	2135.90	48.65	4.69	28.69	44.96	54.00	-9.04	Average
3	2710.50	48.21	5.49	28.30	44.92	74.00	-29.08	Peak
4	2710.70	48.07	5.49	28.30	44.78	54.00	-9.22	Average
5	3345.40	47.79	6.35	30.42	47.62	74.00	-26.38	Peak
6	3345.50	47.58	6.35	30.42	47.41	54.00	-6.59	Average
7	4275.10	44.98	7.37	32.39	48.04	74.00	-25.96	Peak
8	4275.20	44.83	7.37	32.39	47.89	54.00	-6.11	Average
9	4765.50	45.54	7.66	33.21	49.96	74.00	-24.04	Peak
10	4765.60	45.24	7.66	33.21	49.66	54.00	-4.34	Average
11	5455.40	44.58	8.30	34.94	51.18	74.00	-22.82	Peak
12	5455.50	44.26	8.30	34.94	50.86	54.00	-3.14	Average

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



Env./Ins: 24℃/56%
EUT: Sinch TABLET
M/N: ME-8Q
Power Rating: AC 120V/60Hz
Test Mode: OTG
Operator: Tree
Memo:
pol: HORIZONTAL

	Freq MHz	Reading dBuV	CabLos dB	Antfac dB/m	Measured dBuV/m	Limit dBuV/m	Over dB	Remark
1	1535.10	48.26	4.41	26.32	42.08	74.00	-31.92	Peak
2	1535.11	39.23	4.41	26.32	33.05	54.00	-20.95	Average
3	2805.30	37.24	5.63	28.62	34.43	54.00	-19.57	Average
4	2805.40	46.82	5.63	28.62	44.01	74.00	-29.99	Peak
5	3515.70	36.87	6.57	30.99	37.53	54.00	-16.47	Average
6	3515.90	45.82	6.57	30.99	46.48	74.00	-27.52	Peak
7	4125.10	35.42	7.28	32.51	38.40	54.00	-15.60	Average
8	4125.20	44.72	7.28	32.51	47.70	74.00	-26.30	Peak
9	4845.30	43.94	7.71	33.41	48.63	74.00	-25.37	Peak
10	4845.40	34.45	7.71	33.41	39.14	54.00	-14.86	Average
11	5300.00	33.60	8.13	34.55	39.71	54.00	-14.29	Average
12	5300.20	43.06	8.13	34.55	49.17	74.00	-24.83	Peak

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

7. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following identical model(s):

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Belong to the tested device:

Product description : 8inch TABLET

Model name : ME-8Q

Remark: No additional models were tested.

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

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