FCC 47 CFR PART 15 SUBPART B

TEST REPORT

For

Applicant:	**3Q Technology Limited**
Address:	**3/F Jonsim Place, 228 Queen's Road East Wanchai, Hong Kong**
Product Name:	**7" Tablet PC**
Model Number:	**RC0718C**
Brand Name:	**Qoo!**
FCC ID:	**RONRC0718C**
Report No.:	**MTE/EAH/T13010112**
Date of Issue:	**January 30, 2013**

Issued by:	**Most Technology Service Co., Ltd.**
Address:	**No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China**
Tel:	**86-755-8617 0306**
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1. VERIFICATION OF CONFORMITY

Equipment Under Test:	7” Tablet PC
Brand Name:	Qoo!
Model Number:	RC0718C
Series Number:	N/A
FCC ID:	RONRC0718C
Applicant:	3Q Technology Limited
	3/F Jonsim Place, 228 Queen’s Road East Wanchai, Hong Kong
Manufacturer:	3Q Technology Limited
	3/F Jonsim Place, 228 Queen’s Road East Wanchai, Hong Kong
Factory:	Wanlida Group Co., Ltd.
	Wanlida Industry Zone, Nanjing ,Zhangzhou Fujian,China.363601
Technical Standards:	FCC Part 15 B
File Number:	MTE/EAH/T13010112
Date of test:	January 23-25, 2013
Deviation:	None
Condition of Test Sample:	Normal

The above equipment was tested by MOST for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature): Dona

Dona Liu January 29, 2013

Review by (+ signature):

Elva Wong January 30, 2013

MOST TECHNOLOGY SERVICE CO., LTD. APPROVED EMC & SAFETY

Approved by (+ signature):

Yvetter Zhou(Manager) January 30, 2013

2. GENERAL INFORMATION

2.1 PRODUCT INFORMATION

Description:	7” Tablet PC
Model Name:	RC0718C
Series Number:	N/A
Model Difference description:	N/A
I/O Ports:	Output Port: MIC Port Input Port: SD Port, USB Port, DC Power Port
Power Supply:	DC 5V by AC adapter 100~240V 50/60Hz DC 3.7V by battery
Temperature Range:	-20°C ~ +60°C

NOTE:

1. For a more detailed features description about the EUT, please refer to User’s Manual.

2.2 OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

EMISSION			
Standard	**Item**	**Result**	**Remarks**
FCC 47 CFR Part 15 Subpart B	Conducted	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

Note: 1. The test result judgment is decided by the limit of measurement standard
2. The information of measurement uncertainty is available upon the customer's request.

2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35ºC
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

2.5 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

The report uncertainty of measurement y±U, where expended uncertainly U is based on a standard uncertainty multiplied by a coverage factor of k=2,Providing a level of confidence of approximately 95%

- Uncertainty of Conducted Emission, Uc = ±1.8dB
- Uncertainty of Radiated Emission, Uc = ±3.2dB

3. TEST METHODOLOGY

3. 1TEST FACILITY

Test Site:	Most Technology Service Co., Ltd.
Location:	No.5, Langshan 2nd Rd, North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China
Description:	There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR 16 requirements. The FCC Registration Number is **490827.** The **CNAS** Registration Number is **CNAS L3573.**
Site Filing:	The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.
Ground Plane:	Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

3.2 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2009,Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable 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 maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41			

[1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

[2] Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

4 SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 SUPPORT EQUIPMENT

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Notebook	Lenovo	E425	R9-KZL4B	1.6m Un-shielded	1.8m Un-shielded
MONITOR	Philips	220EW8FB/93	CJ2A0727038455	1.6M Un-Shielded	1.8M Un-Shielded
Micro SD CARD	Kingston	1G	0907T139090	N/A	

Remark:

All the equipment/cables were placed in the worst-case [-configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4. 3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2013/03/14
2	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2013/03/14
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2013/03/14
4	Terminator	Hubersuhner	50Ω	No.1	2013/03/14
5	RF Cable	SchwarzBeck	N/A	No.1	2013/03/14
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2013/03/14
7	Bilog Antenna	Sunol	JB3	A121206	2013/03/14
8	Horn Antenna	SCHWARZBECK	BBHA9120D	756	2012/03/14
9	8 Loop Antenna	ARA	PLA-1030/B	1029	2012/02/19
10	Cable	Resenberger	N/A	NO.1	2013/03/14
11	Cable	SchwarzBeck	N/A	NO.2	2013/03/14
12	Cable	SchwarzBeck	N/A	NO.3	2013/03/14
13	DC Power Filter	DuoJi	DL2×30B	N/A	2013/03/14
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2013/03/14
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2013/03/14
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2013/03/14
17	Absorbing Clamp	Luthi	MDS21	3635	2013/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2013/03/14
19	AC Power Source	Kikusui	AC40MA	LM003232	2013/03/14
20	Test Analyzer	Kikusui	KHA1000	LM003720	2013/03/14
21	Line Impendence Network	Kikusui	LIN40MA-PCR-L	LM002352	2013/03/14
22	ESD Tester	Kikusui	KES4021	LM003537	2013/03/14
23	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2013/03/14
24	Signal Generator	IFR	2032	203002/100	2013/03/14
25	Amplifier	A&R	150W1000	301584	2013/03/14
26	CDN	FCC	FCC-801-M2-25	47	2013/03/14
27	CDN	FCC	FCC-801-M3-25	107	2013/03/14
28	EM Injection Clamp	FCC	F-203I-23mm	403	2013/03/14
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2013/03/14
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2013/03/14
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2013/03/14

NOTE: *Equipments listed above have been calibrated and are in the period of validation.*

5. 47 CFR PART 15B REQUIREMENTS

5.1 GENERAL INFORMATION

The EUT has been tested under normal operating（TX）and standby（RX）condition.

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

EUT Test Procedure:

1. Put EUT on the test table.
2. Power on the EUT.
3. Make sure the EUT operates normally during the test.

Mode 1: Idle Mode

The MS was registered to the base station simulator but no function was set up.

The EUT configuration of the emission test was **EUT+ Battery.**

Mode 2: HDMI Mode

During the test, the EUT was Connected to Monitor playing the HDMI Output function continuously.

The EUT configuration of the emission test was **EUT+ Battery+ Charger+Monitor.**

Mode 3: USB Playing Mode

During the test, the EUT was playing the USB function continuously.

The EUT configuration of the emission test was **EUT+ Battery.**

Mode 4: USB Mode

During the test, the EUT was connected to Notebook with data exchange Continuously.

The EUT configuration of the emission test was **EUT+ Battery+ Notebook.**

Mode 5: Charging Mode

During the test, the EUT was Playing Charger function Continuously.

The EUT configuration of the emission test was **EUT+ Battery+ Charger.**

Mode 6: Camera Mode

During the test, the EUT was Playing Camera function Continuously.

The EUT configuration of the emission test was **EUT+ Battery+Charger.**

6. LINE CONDUCTED EMISSION TEST

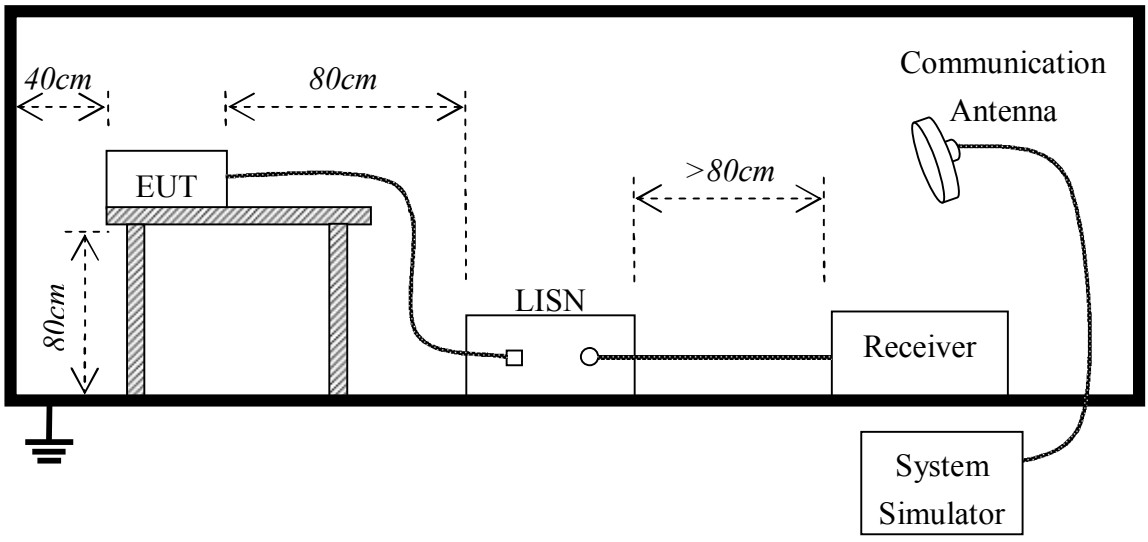
6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

***Note:** 1. the lower limit shall apply at the transition frequency.*

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

6.2. BLOCK DIAGRAM OF TEST SETUP



6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2) Support equipment, if needed, was placed as per FCC Part 15.
3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
4) The EUT through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
8) During the above scans, the emissions were maximized by cable manipulation.
9) The following test mode(s) were scanned during the preliminary test:

Preliminary Conducted Emission Test				
Frequency Range Investigated		150KHz TO 30 MHz		
Mode of operation	Date	Report No.	Data#	Worst Mode
Idle Mode	2013-01-25	MTE/EAH/T13010112	RC0718C_1_(L, N)	☐
USB Mode	2013-01-25	MTE/EAH/T13010112	RC0718C _2_(L, N)	☒
USB Playing Mode	2013-01-25	MTE/EAH/T13010112	RC0718C _3_(L, N)	☐
Camera Mode	2013-01-25	MTE/EAH/T13010112	RC0718C_4_(L, N)	☐
Charger Mode	2013-01-25	MTE/EAH/T13010112	RC0718C _5_(L, N)	☐
HDMI Mode	2013-01-25	MTE/EAH/T13010112	RC0718C _6_(L, N)	☒

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

EUT and support equipment was set up on the test bench as per step 9 of the preliminary test.
A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –20dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

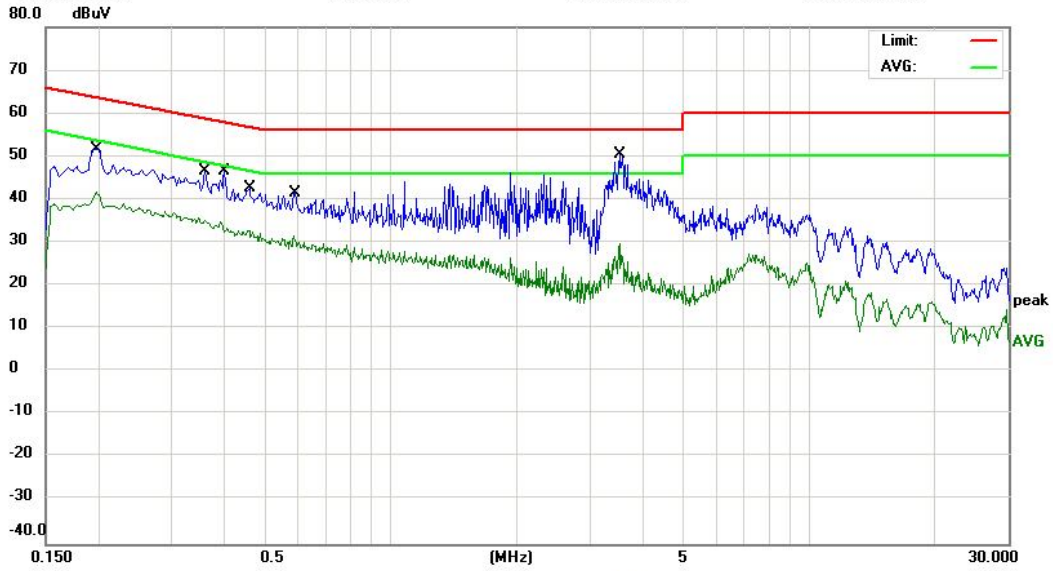
The test modes were carried out for all operation modes, The worst data was shown as the follow.

6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Compliance Laboratory
Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong ,China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement

File :RC0718C Data :#16 Date: 13/01/25/ Time: 17/15/02



Site site MOST 3M
Limit: FCC Part15 B Class B QP
EUT: 7"Tablet PC
M/N: RC0718C
Mode: HDMI Mode
Note:

Phase: L1
Power: DC 5V Adapter AC 120V/60Hz

Temperature: 26
Humidity: 60 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1985	39.67	11.91	51.58	63.67	-12.09	QP	
2		0.1985	29.61	11.91	41.52	53.67	-12.15	AVG	
3		0.3634	34.17	10.91	45.08	58.65	-13.57	QP	
4		0.3634	24.00	10.91	34.91	48.65	-13.74	AVG	
5		0.4020	35.95	10.65	46.60	57.81	-11.21	QP	
6		0.4020	21.92	10.65	32.57	47.81	-15.24	AVG	
7		0.4587	32.18	10.28	42.46	56.72	-14.26	QP	
8		0.4587	22.38	10.28	32.66	46.72	-14.06	AVG	
9		0.5940	31.39	10.00	41.39	56.00	-14.61	QP	
10		0.5940	20.22	10.00	30.22	46.00	-15.78	AVG	
11	*	3.5540	39.97	10.55	50.52	56.00	-5.48	QP	
12		3.5540	19.06	10.55	29.61	46.00	-16.39	AVG	

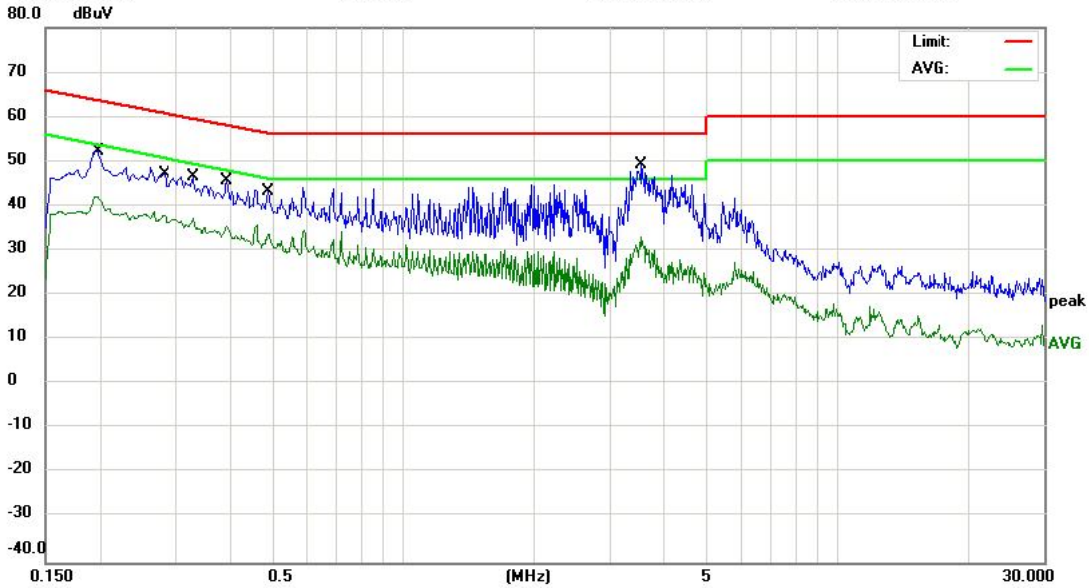
*:Maximum data x:Over limit l:over margin

Engineer Signature:

Compliance Laboratory
Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong ,China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement

File :RC0718C Data :#17 Date: 13/01/25/ Time: 17/16/42



Site site MOST 3M Phase: N Temperature: 26
Limit: FCC Part15 B Class B QP Power: DC 5V Adapter AC 120V/60Hz Humidity: 60 %
EUT: 7"Tablet PC
M/N: RC0718C
Mode: HDMI Mode
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1965	40.39	11.79	52.18	63.75	-11.57	QP	
2		0.1965	30.21	11.79	42.00	53.75	-11.75	AVG	
3		0.2787	35.45	11.48	46.93	60.85	-13.92	QP	
4		0.2787	26.23	11.48	37.71	50.85	-13.14	AVG	
5		0.3302	34.29	11.13	45.42	59.44	-14.02	QP	
6		0.3302	25.96	11.13	37.09	49.44	-12.35	AVG	
7		0.3940	34.95	10.71	45.66	57.98	-12.32	QP	
8		0.3940	24.78	10.71	35.49	47.98	-12.49	AVG	
9		0.4900	33.26	10.07	43.33	56.17	-12.84	QP	
10		0.4900	23.52	10.07	33.59	46.17	-12.58	AVG	
11	*	3.5500	38.67	10.55	49.22	56.00	-6.78	QP	
12		3.5500	22.47	10.55	33.02	46.00	-12.98	AVG	

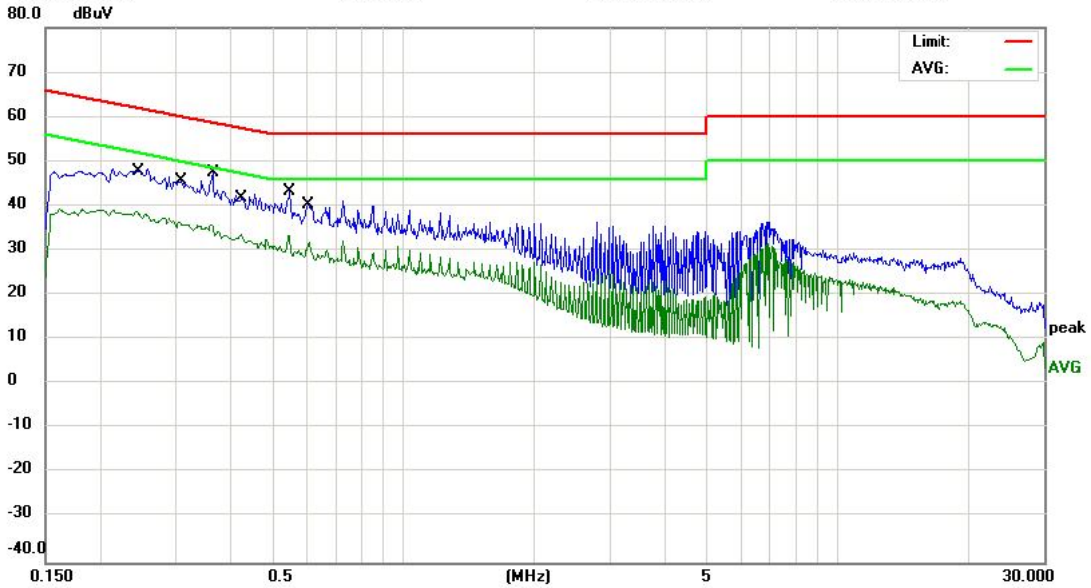
*:Maximum data x:Over limit !:over margin

Engineer Signature:

Compliance Laboratory
Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong ,China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement

File :RC0718C Data :#18 Date: 13/01/25/ Time: 17/23/01



Site site MOST 3M Phase: N Temperature: 26
Limit: FCC Part15 B Class B QP Power: DC 5V Adapter AC 120V/60Hz Humidity: 60 %
EUT: 7"Tablet PC
M/N: RC0718C
Mode: Data Transmitting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2420	35.85	11.72	47.57	62.02	-14.45	QP	
2		0.2420	27.04	11.72	38.76	52.02	-13.26	AVG	
3		0.3059	33.95	11.29	45.24	60.08	-14.84	QP	
4		0.3059	25.14	11.29	36.43	50.08	-13.65	AVG	
5	*	0.3634	35.47	10.91	46.38	58.65	-12.27	QP	
6		0.3634	24.69	10.91	35.60	48.65	-13.05	AVG	
7		0.4220	30.58	10.52	41.10	57.41	-16.31	QP	
8		0.4220	22.83	10.52	33.35	47.41	-14.06	AVG	
9		0.5460	31.53	10.00	41.53	56.00	-14.47	QP	
10		0.5460	23.27	10.00	33.27	46.00	-12.73	AVG	
11		0.6108	29.75	10.00	39.75	56.00	-16.25	QP	
12		0.6108	21.41	10.00	31.41	46.00	-14.59	AVG	

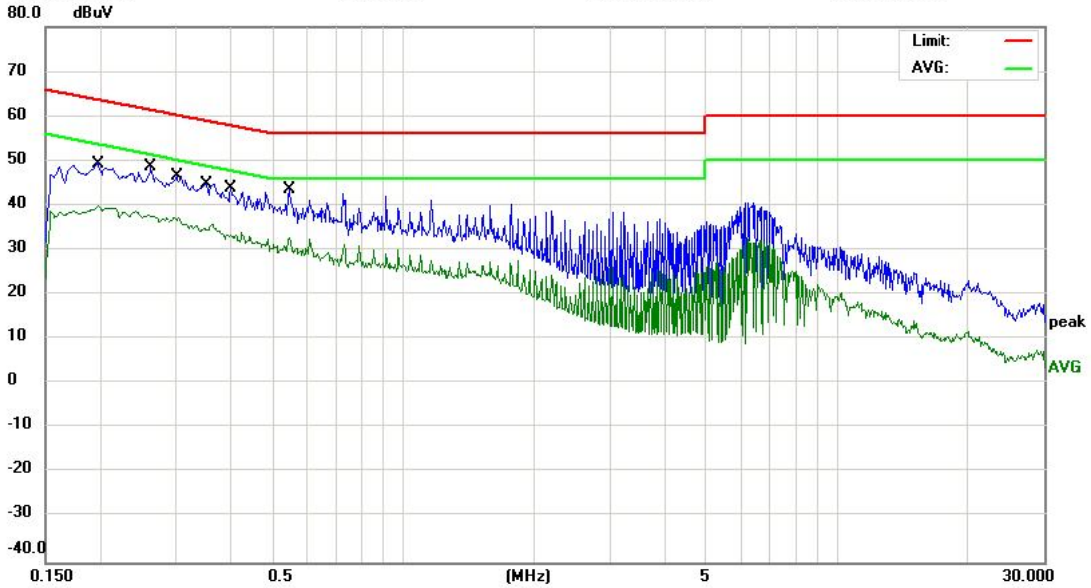
*:Maximum data x:Over limit !:over margin

Engineer Signature:

Compliance Laboratory
Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong ,China
Tel: 0755-86170306 Fax: 0755-86170310

Conducted Emission Measurement

File :RC0718C Data :#19 Date: 13/01/25/ Time: 17/26/46



Site site MOST 3M Phase: L1 Temperature: 26
Limit: FCC Part15 B Class B QP Power: DC 5V Adapter AC 120V/60Hz Humidity: 60 %
EUT: 7"Tablet PC
M/N: RC0718C
Mode: Data Transmitting
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1945	37.00	11.67	48.67	63.84	-15.17	QP	
2		0.1945	27.49	11.67	39.16	53.84	-14.68	AVG	
3		0.2620	36.95	11.59	48.54	61.36	-12.82	QP	
4		0.2620	26.03	11.59	37.62	51.36	-13.74	AVG	
5		0.3034	34.54	11.31	45.85	60.15	-14.30	QP	
6		0.3034	25.58	11.31	36.89	50.15	-13.26	AVG	
7		0.3520	33.65	10.99	44.64	58.91	-14.27	QP	
8		0.3520	23.66	10.99	34.65	48.91	-14.26	AVG	
9		0.4060	31.59	10.63	42.22	57.73	-15.51	QP	
10		0.4060	22.37	10.63	33.00	47.73	-14.73	AVG	
11	*	0.5500	33.44	10.00	43.44	56.00	-12.56	QP	
12		0.5500	22.88	10.00	32.88	46.00	-13.12	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature:

7. RADIATED EMISSION TEST

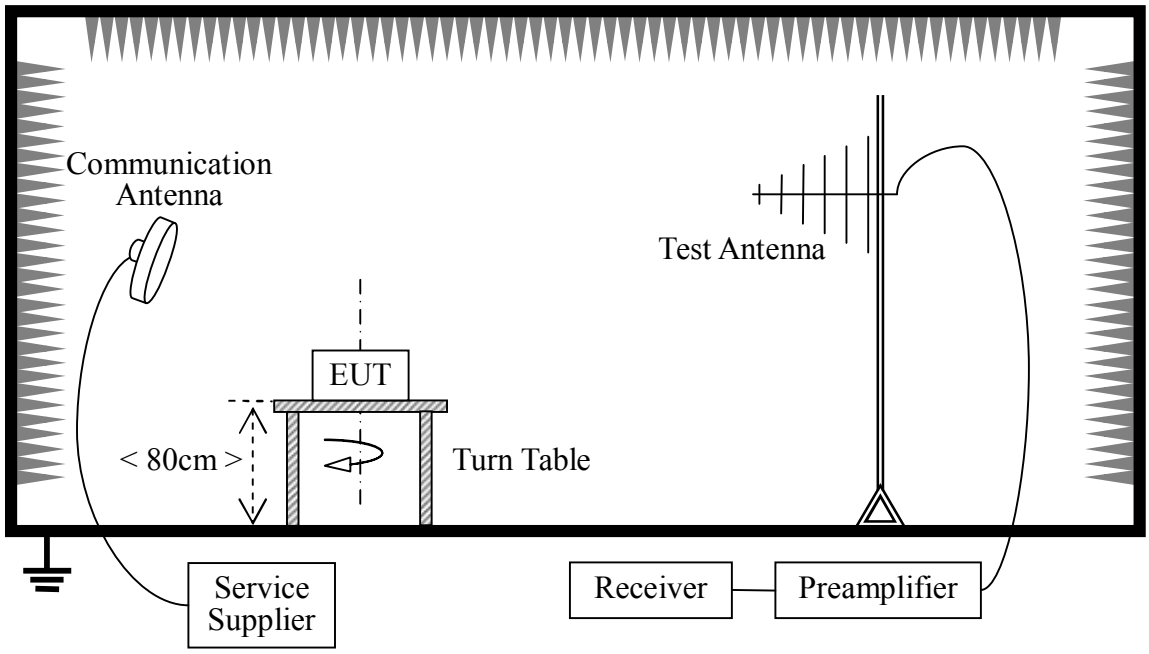
7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

7.2 TEST DESCRIPTION



(1) The EUT was palced on a turntable with 0.8 meter above ground.

(2) The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

(3) The table was rotated 360 degrees to determine the position of the highest radiation.

(4) The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

(5) For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1m to 4m) and turntable(from 0 degree to 360 degrees) to find the maximum reading.

(6) Set the test-receiver system to Peak Detect Function and specified bandwidth with maximum hold mode.

(7) If the emission level of the EUT in peak mode was 3Db lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.

(8) Emission level(dBuV/m)=20 log Emission level(uv/m).

(9) Corrected reading: Antenna Factor + cable loss + read level - Preamp Factor = level

7.3 TEST RESULT

Preliminary Radiated Emission Test				
Frequency Range Investigated			30 MHz TO 1000 MHz	
Mode of operation	**Date**	**Report No.**	**Data#**	**Worst Mode**
Idle Mode	2013-01-23	MTE/EAH/T13010112	RC0718C_1_(L, N)	☐
USB Mode	2013-01-23	MTE/EAH/T13010112	RC0718C _2_(L, N)	☒
USB Playing Mode	2013-01-23	MTE/EAH/T13010112	RC0718C _3_(L, N)	☐
Camera Mode	2013-01-23	MTE/EAH/T13010112	RC0718C_4_(L, N)	☐
Charger Mode	2013-01-23	MTE/EAH/T13010112	RC0718C _5_(L, N)	☐
HDMI Mode	2013-01-23	MTE/EAH/T13010112	RC0718C _6_(L, N)	☒

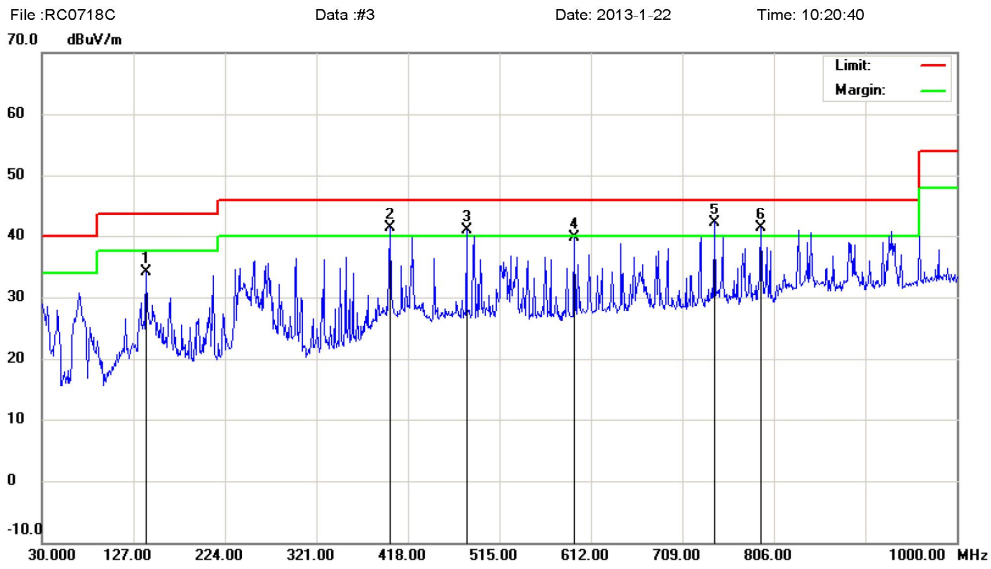
Note:

The test modes were carried out for all operation modes, The worst data was shown as the follow.

Below 1GHz

Compliance Laboratory
Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong ,China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement



Site Chamber #1
Limit: FCC Part 15 B 3M Radiation
EUT: 7" Tablet PC
M/N: RC0718C
Mode: Data Transmittiing
Note:

Polarization: ***Horizontal***
Power: DC 5V Adapter AC 120V/60Hz
Distance:

Temperature: 26
Humidity: 61 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		140.5800	16.96	17.17	34.13	43.50	-9.37	QP			
2	!	399.5700	22.69	18.69	41.38	46.00	-4.62	QP			
3	!	480.0800	19.21	21.70	40.91	46.00	-5.09	QP			
4		594.5400	16.80	22.85	39.65	46.00	-6.35	QP			
5	*	742.9500	16.52	25.68	42.20	46.00	-3.80	QP			
6	!	792.4200	15.31	25.97	41.28	46.00	-4.72	QP			

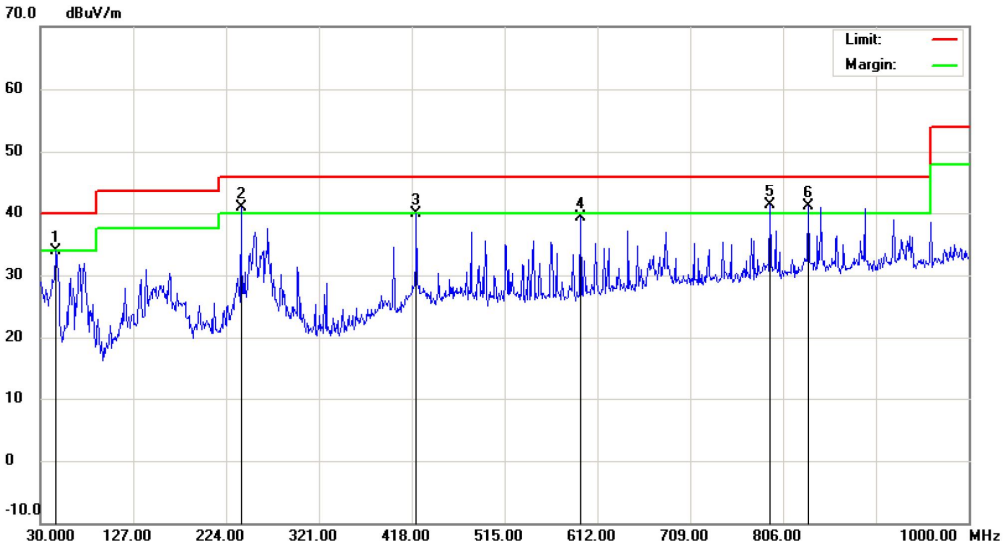
*:Maximum data x:Over limit !:over margin

Engineer Signature: Allen

Compliance Laboratory
Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong ,China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File :RC0718C Data :#4 Date: 2013-1-22 Time: 10:27:11



Site Chamber #1
Limit: FCC Part 15 B 3M Radiation
EUT: 7" Tablet PC
M/N: RC0718C
Mode: Data Transmittiing
Note:

Polarization: *Vertical*
Power: DC 5V Adapter AC 120V/60Hz
Distance:

Temperature: 26
Humidity: 61 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		45.5200	20.59	13.36	33.95	40.00	-6.05	QP			
2	!	239.5200	23.73	17.17	40.90	46.00	-5.10	QP			
3		422.8500	19.65	20.17	39.82	46.00	-6.18	QP			
4		594.5400	16.42	22.85	39.27	46.00	-6.73	QP			
5	*	792.4200	15.34	25.97	41.31	46.00	-4.69	QP			
6	!	832.1900	14.11	27.04	41.15	46.00	-4.85	QP			

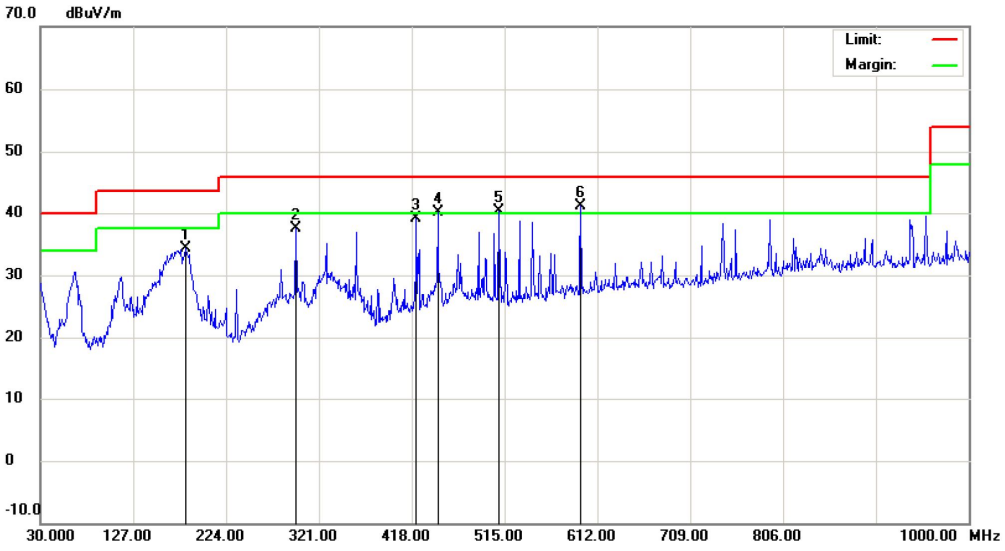
*:Maximum data x:Over limit !:over margin

Engineer Signature: Allen

Compliance Laboratory
Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong ,China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File :RC0718C Data :#27 Date: 2013-1-23 Time: 9:45:57



Site Chamber #1
Limit: FCC Part 15 B 3M Radiation
EUT: 7" Tablet PC
M/N: RC0718C
Mode: HDMI Mode
Note:

Polarization: ***Horizontal***
Power: DC 5V Adapter AC 120V/60Hz
Distance:

Temperature: 26
Humidity: 61 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		181.3199	17.57	16.67	34.24	43.50	-9.26	QP			
2		296.7500	18.28	19.30	37.58	46.00	-8.42	QP			
3		422.8500	18.90	20.17	39.07	46.00	-6.93	QP			
4	!	445.1600	19.82	20.20	40.02	46.00	-5.98	QP			
5	!	509.1800	18.74	21.48	40.22	46.00	-5.78	QP			
6	*	594.5398	18.20	22.85	41.05	46.00	-4.95	QP			

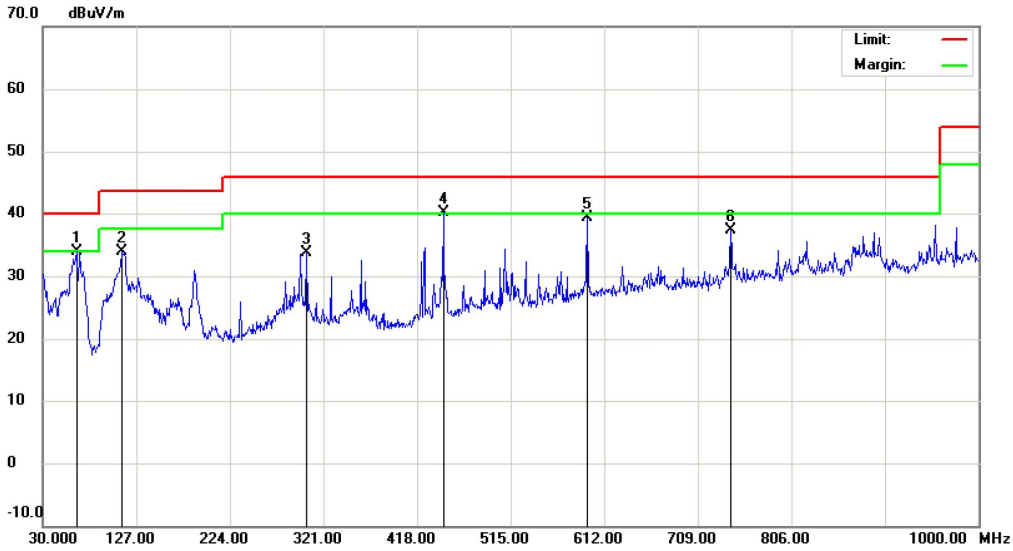
*:Maximum data x:Over limit !:over margin

Engineer Signature: Allen

Compliance Laboratory
Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park
Guangdong ,China
Tel: 0755-86170306 Fax: 0755-86170310

Radiated Emission Measurement

File :RC0718C Data :#28 Date: 2013-1-23 Time: 9:48:21



Site Chamber #1
Limit: FCC Part 15 B 3M Radiation
EUT: 7" Tablet PC
M/N: RC0718C
Mode: HDMI Mode
Note:

Polarization: *Vertical*
Power: DC 5V Adapter AC 120V/60Hz

Temperature: 26
Humidity: 61 %

Distance:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		64.9200	22.54	11.29	33.83	40.00	-6.17	QP			
2		112.4500	17.30	16.54	33.84	43.50	-9.66	QP			
3		303.5400	15.41	18.34	33.75	46.00	-12.25	QP			
4	*	445.1600	19.90	20.20	40.10	46.00	-5.90	QP			
5		594.5399	16.39	22.85	39.24	46.00	-6.76	QP			
6		742.9500	11.54	25.68	37.22	46.00	-8.78	QP			

*:Maximum data x:Over limit !:over margin

Engineer Signature: Allen

Above 1GHz

Freq.	Ant. Pol	Peak	AV	Ant. / CL	Actual Fs		Peak	AV	AV
(MHz)	H/V	Reading	Reading	CF			Limit	Limit	Margin
		(dBuV)	(dBuV)	(dB)	Peak	AV	(dBuV/m)	(dBuV/m)	(dB)
					(dBuV/m)	(dBuV/m)			
1203.0	H	26.30	17.21	10.18	36.48	27.39	74.00	54.00	-26.61
N/A	H								
1203.0	V	27.59	19.78	10.23	37.82	30.01	74.00	54.00	-23.99
N/A	V								

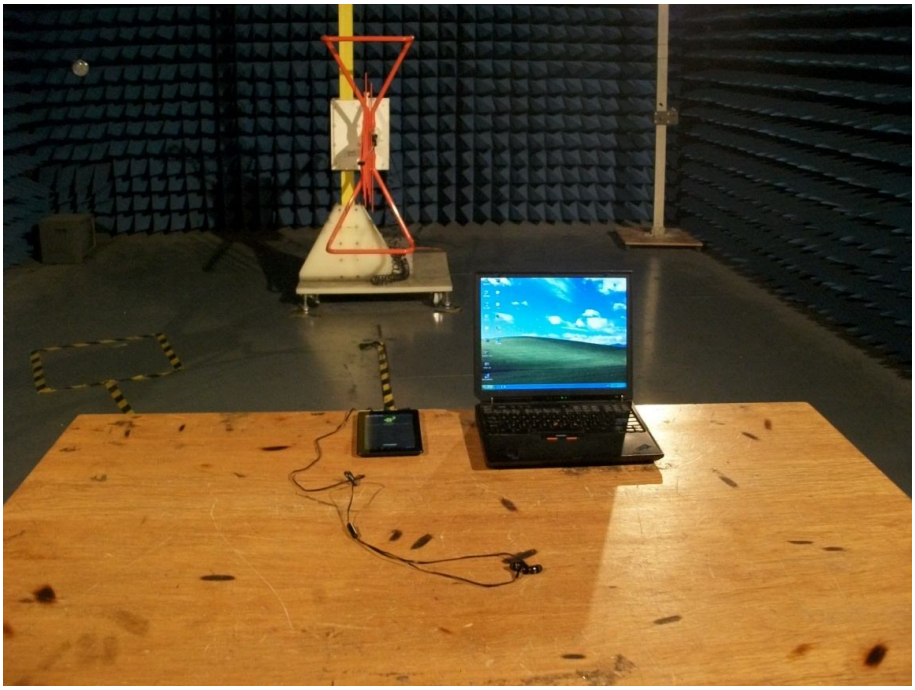
Notes:

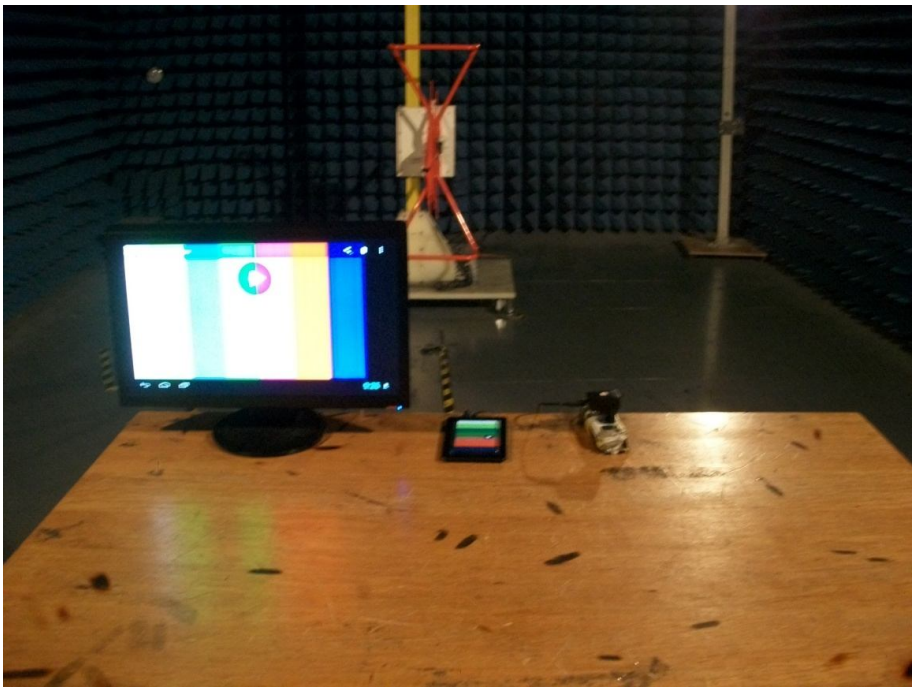
1. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
2. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie:
   margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
5. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

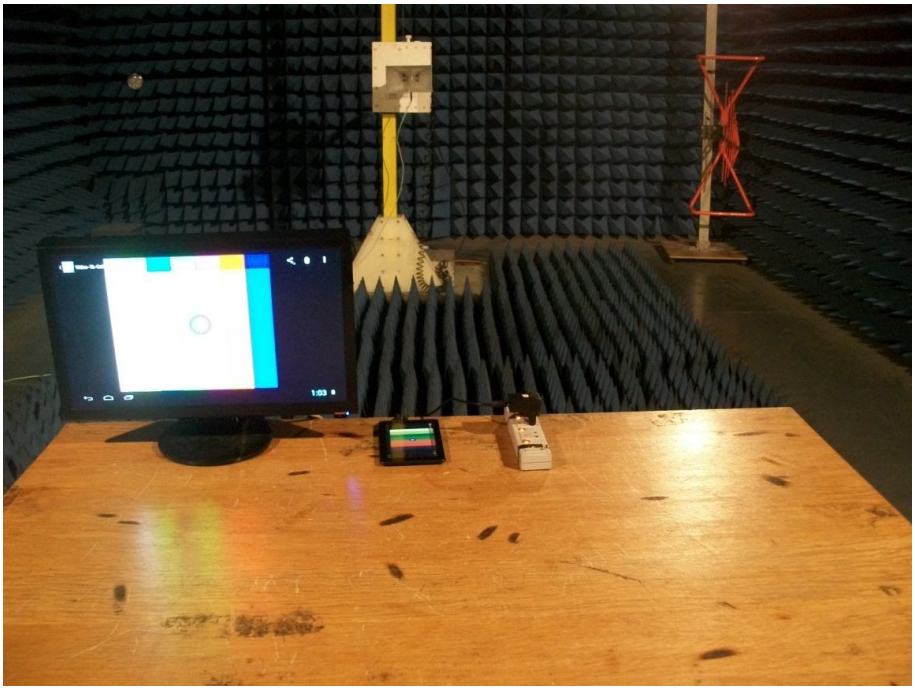
APPENDIX 1
PHOTOGRAPHS OF TEST SETUP

CE TEST SETUP

RE TEST SETUP







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