

Global United Technology Services Co., Ltd.

Report No.: GTSE15050083505

FCC Report

AOC Applicant:

14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City **Address of Applicant:**

23511, Taiwan (R.O.C.)

Equipment Under Test (EUT)

Tablet Product Name:

Model No.: U706G

Trade Mark: AOC

FCC ID: 2AEB5-U706G

Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2014

Date of sample receipt: June 05, 2015

Date of Test: June 05-11, 2015

Date of report issue: June 11, 2015

PASS * Test Result:

Authorized Signature:



Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	June 11, 2015	Original

Prepared By:	Sam. Gao	Date:	June 11, 2015
	Project Engineer		
Check By:	hank. yan	Date:	June 11, 2015
	Reviewer		



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4 Test Summary

Test Item	Section in CFR 47	Result
Conducted Emission	Part15.107	PASS
Radiated Emissions	Part15.109	PASS

PASS: The EUT complies with the essential requirements in the standard.

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



5 General Information

5.1 Client Information

Applicant:	AOC	
Address of Applicant:	14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City 23511, Taiwan (R.O.C.)	
Manufacturer:	New Flying	
Address of Manufacturer:	10/F Block C,Tairan Building,Tairan 8 Road, Chegongmiao, District, Shenzhen City, Guangdong Province, China	

5.2 General Description of EUT

Product Name:	Tablet
Model No.:	U706G
Power supply:	Model No.: XFY-01
	Input: AC 100-240V, 50/60Hz, 0.4A MAX
	Output: DC 5.0V, 1.5A
	DC 3.7V Li-ion Battery 2800mAh

5.3 Test mode

Test mode:			
Playing mode	Keep the EUT in Playing mode		
Video Record mode	Keep the EUT in Video Recording mode		
PC mode	Keep the EUT in exchanging data mode.		



5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.6 Description of Support Units

•	• •			
Manufacturer	Description	Model	Serial Number	FCC ID/DoC
Apple	PC	A1278 C1MN99ERDTY3		DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO N/A		DoC
Emerson Network Power	USB Charger	A1299	N/A	FCC DOC

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna. Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

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6 Test Instruments list

Radia	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.0(L)*6.0(W)* 6.0(H)	GTS250	Mar. 27 2015	Mar. 26 2016	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	July 01 2014	June 30 2015	
4	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	July 01 2014	June 30 2015	
5	Double -ridged waveguide horn	SCHWARZBECK	9120D	GTS208	June 27 2014	June 26 2015	
6	RF Amplifier	HP	8347A	GTS204	July 01 2014	June 30 2015	
7	Preamplifier	HP	8349B	GTS206	July 01 2014	June 30 2015	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016	

Con	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Sep. 07 2013	Sep. 06 2015	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015	
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015	
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

Gen	General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015	



7 Test Results and Measurement Data

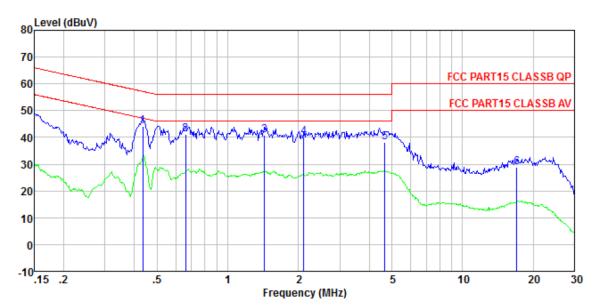
7.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107							
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	150KHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto						
Limit:	Fragues of renge (MHz)	Limit (c	dBuV)					
	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
	* Decreases with the logarithm	n of the frequency.						
Test setup:	Reference Plane		•					
	AUX Equipment E.U.T EMI Receiver Remark E.U.T. Equipment Under Test LISN Filter AC power EMI Receiver							
Test procedure:	The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impe	n network (L.I.S.N.). Th	nis provides a					
	LISN that provides a 50ohn	The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).						
	Both sides of A.C. line are of interference. In order to find positions of equipment and according to ANSI C63.4:20	d the maximum emission all of the interface cab	on, the relative bles must be changed					
Test Instruments:	Refer to section 6 for details							
Test mode:	Pre-scan all modes in section worst mode, so only the data of							
Test results:	Pass							



Measurement Data

Line:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

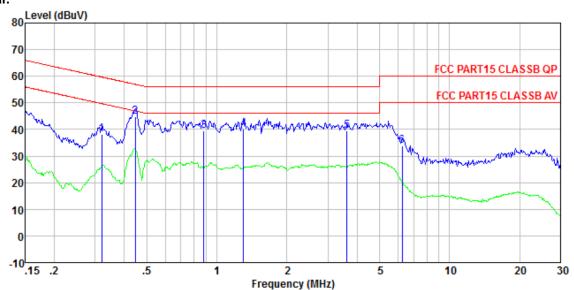
Job No. : 0835RF Test mode : PC mode Test Engineer: Qing

1681	Engineer.	_	LICH	C-1-1-		1:-:+	0		
	Frea		LISN Factor			Limit Line		Remark	
	MHz	dBu₹	dB	d₿	dBuV	dBuV	₫B		_
1	0.435	43.95	0.12	0.11	44.18	57.15	-12.97	QP	
2	0.661	41.01	0.14	0.13	41.28	56.00	-14.72	QP	
2 3 4 5	1.433	40.59	0.12	0.13	40.84	56.00	-15.16	QP	
4	2.110	39.79	0.12	0.15	40.06		-15.94		
5	4.672	37.91	0.21	0.15	38. 27	56.00	-17.7 3	QP	
6	17.018	28. 21	0.44	0.22	28.87	60.00	-31.13	QΡ	

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Neutral:



Site : Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0835RF Test mode : PC mode Test Engineer: Qing

CSC	DIISTRUCT.	_	LISN	Cable		Limit	Over		
	Freq	Level	Factor	Loss	Level	Line	Limit	Remark	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB		
1	0.320	37.92	0.06		38.08		-21.63		
2	0.447			0.11				-	
3	0.880	39.18	0.07	0.13	39.38		-16.62		
4	1.303	39.77	0.09	0.13	39.99	56.00	-16.01	QP	
5	3.623	39.08	0.14	0.15	39.37	56.00	-16.63	QP	
6	6.252	33.51	0.17	0.16	33.84	60.00	-26.16	QP	

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

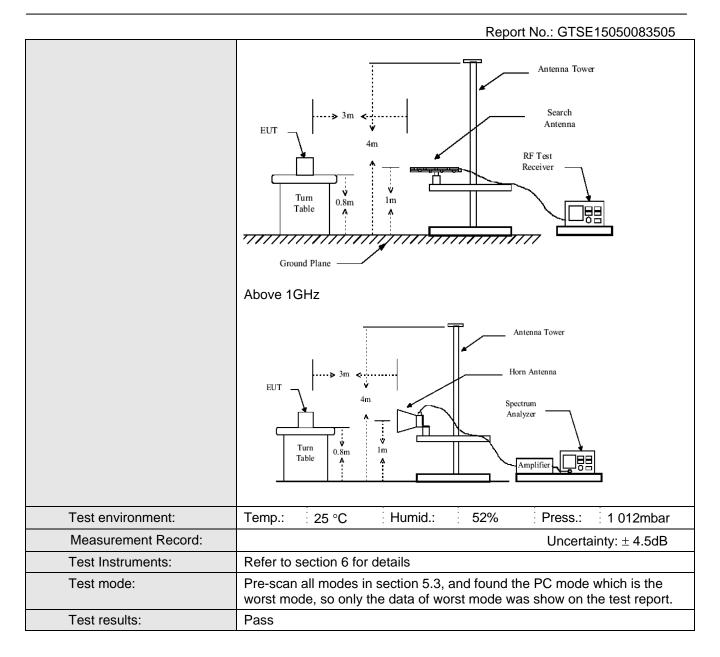
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7.2 Radiated Emission

Test Requirement:	FCC Part15 B Section 15.109								
Test Method:	ANSI C63.4:200	ANSI C63.4:2009							
Test Frequency Range:	30MHz to 6GHz								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
Receiver setup:	Francisco Detector DDW VDW Demons								
	Frequency Detector RBW VBW Remark								
	30MHz- 1GHz	Quasi-pea		300kHz	Quasi-peak Value				
	Above 1GHz	Peak Peak	1MHz 1MHz	3MHz 10Hz	Peak Value Average Value				
		reak	IIVIIIZ	TUHZ	Average value				
Limit:	Freque	ancv.	Limit (dBuV	/m @3m)	Remark				
	30MHz-8	-	40.0		Quasi-peak Value				
	88MHz-2		43.5		Quasi-peak Value				
	216MHz-9		46.0		Quasi-peak Value				
	960MHz-		54.0		Quasi-peak Value				
	9001011 12-	· IGIIZ			Average Value				
	II Above 1GHz								
			74.0	U	Peak Value				
Test Procedure:	ground at a 3 determine the	B meter camb e position of	er. The table when the highest rac	was rotated diation.	0.8 meters above the 360 degrees to				
	The EUT was antenna, whi tower.				nce-receiving ble-height antenna				
	ground to de	termine the r d vertical pol	naximum value	e of the field	r meters above the d strength. Both are set to make the				
	and then the	antenna was table was tur	s tuned to heig	hts from 1 i	ed to its worst case meter to 4 meters 0 degrees to find the				
	5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.								
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.								
Test setup:	Below 1GHz								





Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

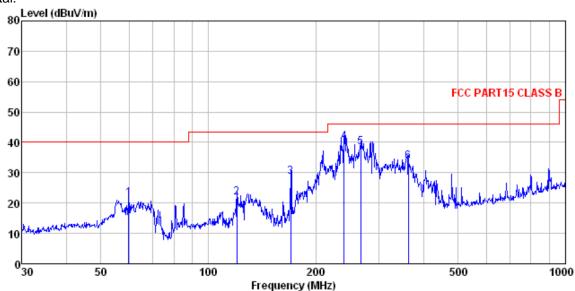
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



Measurement Data

Below 1GHz

Horizontal:



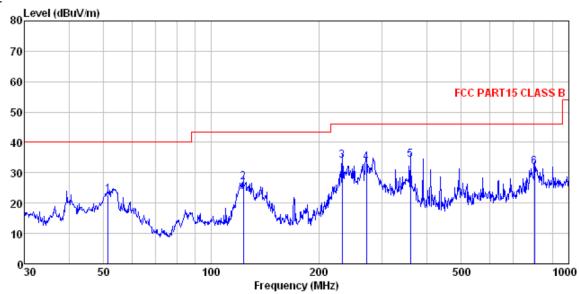
: 3m chamber : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL

Site Condition Job No. Test Mode Test Engin : 0835RF : PC mode

lest	Engineer:		٠	C-11-	D		T	O		
	_		Antenna					Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark	
	MHz	dBu∀	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	59.859	35.95	14.71	0.86	29.92	21.60	40.00	-18.40	QP	
2	120.277	37.58	12.38						•	
3			10.97							
4	239.987				29.56					
5	266.609									
6	362.985									



Vertical:



Site : 3m chamber Condition : FCC PART15 CLASS B 3m VULB9163-2013M VERTICAL

Job No. : 0835RF Test Mode : PC mode

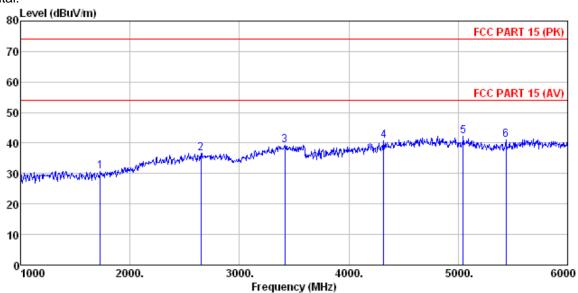
est	Engineer:	Chen								
		Read	Ant enna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBu∜	dB/m	<u>dB</u>	dB	dBuV/m	dBuV/m	<u>dB</u>		
1	51.481	36.84	15.19	0.79	29.99	22.83	40.00	-17.17	QP	
2	122.834	43.03	12.00	1.38	29.55	26.86	43.50	-16.64	QP	
3	232.532	47.69	13.72	2.03	29.50	33.94	46.00	-12.06	QP	
4	271.325	46.48	14.42	2.23	29.81	33.32	46.00	-12.68	QP	
5	360.448	44.83	16.43	2.67	29.69	34.24	46.00	-11.76	QP	
6	801 786	34 45	22 06	4 46	29 20	31 77	46 00	-14 23	OP	

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Above 1GHz

Horizontal:



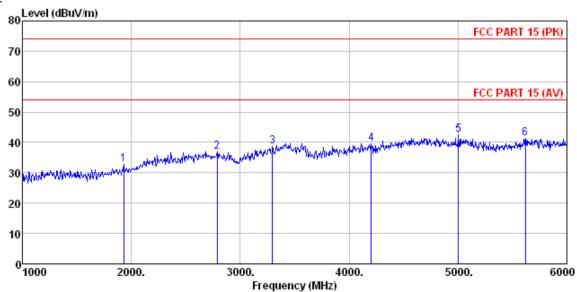
: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL Site Condition

Job No. : 0835RF
Test Mode : PC mode
Test Engineer: Chen

621	rugineer.				_					
		Read	Ant enna	Cable	Preamp		Limit	Over		
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
										_
	MHz	dBu∀	dB/m	dВ	dB	dBuV/m	dBuV/m	dB		
1	1730.000	34.71	25.04	4.82	34.00	30.57	74.00	-43.43	Peak	
2	2650.000	36.81	27.92	5.63	33.72	36.64	74.00	-37.36	Peak	
3	3415.000	36.65	28.67	6.80	32.85	39.27	74.00	-34.73	Peak	
4	4320.000	33.57	30.77	8.17	31.85	40.66	74.00	-33.34	Peak	
5	5045.000	33.60	32.00	8.83	32.21	42.22	74.00	-31.78	Peak	
6	5435.000	32.06	31.86	9.42	32.40	40.94	74.00	-33.06	Peak	



Vertical:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL Condition

: 0835RF : PC mode Job No. Test Mode

020	THE THEET.								
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	4								
	MHz	dBu∀	35 7-	B		dBuV/m	3507.	dB	
	JiLTZ	and a	CED/ JIL	ш	ш	шиу/ ж	ma4/ 11	ш	
1	1930.000	36.21	25.86	4.92	34.34	32.65	74.00	-41.35	Peak
2	2790.000	36.44	28.40	5.75	33.57	37.02	74.00	-36.98	Peak
3	3295.000	36.61	28.35	6, 56	32.99	38, 53	74.00	-35.47	Peak
4	4205.000				31.94				
-									
5	5005.000	34.12	31.96	8.76	32.19	42.65	74.00	-31.35	Peak
6	5620.000	31.61	32.32	9.67	32.36	41.24	74.00	-32.76	Peak
_									



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTSE15050083501

----- End-----