



RF EXPOSURE REPORT

Report Reference No::	TRE1509010404	R/C4468
Report Reference No	IRE1309010404	R/C440

FCC ID.....: 2AF54-COMPLEX11T

Applicant's name.....: FY International LLC.

Manufacturer...... Shenzhen AlldoCube Technology & Science Co., Ltd

Address...... Building No.1,Sunwang Industrial Park, Xiahenglang Dalang,

Longhua District, Shenzhen, China

Test item description: 2 In 1 Tablet PC

Trade Mark Cytrix

Model/Type reference...... Complex 11t

Listed Model(s)i8

Standard: FCC Per 47 CFR 2.1093(d)

Date of receipt of test sample...... Sept 28, 2015

Date of testing Sept 29, 2015-Oct 22, 2015

Result...... PASS

Compiled by

(position+printedname+signature)...: File administrators Shayne Zhu

Supervised by

(position+printedname+signature)....: Project Engineer Cary Luo

Approved by

(position+printedname+signature)....: RF Manager Hans Hu

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Address...... Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Issued: 2015-10-22

Contents

<u>1.</u>	SUMMARY	
1.1.	Client Information	3
1.2.	Product Description	3
1.3.	EUT operation mode	5
1.4.	EUT configuration	5
1.5.	Modifications	5
2.	TEST ENVIRONMENT	6
2.1.	Address of the test laboratory	6
2.2.	Test Facility	6
2.3.	Environmental conditions	7
2.4.	Statement of the measurement uncertainty	7
<u>3.</u>	METHODOFMEASUREMENT	8
3.1.	Applicable Standard	8
3.2.	Limit	9
3.3.	RF Exposure	9
4.	CONCLUSION	

1. **SUMMARY**

1.1. Client Information

Report No:TRE15090104043

Applicant:	FY International LLC.
Address:	548 Donald St. Ste. 3, Bedford, NH 03110 USA
Manufacturer:	Shenzhen AlldoCube Technology & Science Co., Ltd
Address:	Building No.1,Sunwang Industrial Park, Xiahenglang Dalang, Longhua District,Shenzhen, China

1.2. Product Descri	ption
Name of EUT	2 In 1 Tablet PC
Trade Mark:	Cytrix
Model No.:	Complex 11t
Listed Model(s):	i8
Power supply:	DC 7.4V From internal battery
Adapter information:	Model name:FJ-SW1202000N Input:100-240Va.c.~50/60Hz,0.6Amax Output:12Vd.c., 2000mA
WIFI	
Supported type:	802.11b/802.11g/802.11n(H20)/802.11n(H40)
Modulation:	802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11g/n(H20)/n(H40): OFDM (BPSK / QPSK / 16QAM / 64QAM)
Operation frequency:	802.11b/g/n(H20): 2412MHz~2462MHz 802.11n(H40): 2422MHz~2452MHz
Channel number:	802.11b/g/n(H20): 11 802.11n(H40): 7
Channel separation:	5MHz
Antenna type:	Internal Antenna
Antenna gain:	2.69dBi
Bluetooth	
Version:	Supported BT3.0+EDR
Modulation:	GFSK, π/4DQPSK, 8DPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	Internal Antenna
Antenna gain:	2.69 dBi
Version:	Supported BT4.0+BLE
Modulation:	GFSK
Operation frequency:	2402MHz~2480MHz
Channel number:	40
Channel separation:	2MHz
Antenna type:	InternalAntenna
Antenna gain:	2.69dBi

Issued: 2015-10-22

Operation Frequency List:

802.11b/g/n(H20)					
Channel	Frequency (MHz)				
01	2412				
02	2417				
03	2422				
i	:				
06	2437				
i:	:				
09	2452				
10	2457				
11	2462				

BT3.0-EDR

Channel	Frequency (MHz)
0	2402
1	2403
i i	:
39	2441
i	:
77	2479
78	2480

BT4.0+BLE

D14.0 · DEC	
Channel	Frequency (MHz)
00	2402
01	2404
i i	i:
19	2440
÷	i i
38	2478
39	2480

Note:In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

Report No:TRE15090104043 Page 5 of 11 Issued: 2015-10-22

1.3. EUT operation mode

For RF test items:

the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions:

the EUT was set to connect with the WLAN AP under large package sizes transmission.

1.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- O supplied by the lab

_			
0	PowerCable	Length (m):	1
		Shield :	1
		Detachable :	1
0	Multimeter	Manufacturer :	1
		Model No. :	1

1.5. Modifications

No modifications were implemented to meet testing criteria.

2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Laboratory:Shenzhen Huatongwei International Inspection Co., Ltd. Address: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Phone: 86-755-26748019 Fax: 86-755-26748089

2.2. Test Facility

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

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: February 28, 2015. Valid time is until February 27, 2018.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept 30, 2015.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd. 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 our files. Registration 662850, Renewal date Jul. 01, 2012, valid time is until Jun. 01, 2015.

FCC-Registration No.: 317478

Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming 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 our files. Registration 317478, Renewal date July 18, 2014, valid time is until July. 18, 2017.

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on Dec. 31, 2013, valid time is until Dec. 31, 2016.

IC-Registration No.: 5377B

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. (Gongming EMC Laboratory) has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B on September 3, 2014, valid time is until September 3, 2017.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.:R-2484. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 29, 2015.

Radiated disturbance above 1GHz measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-292. Date of Registration: Dec. 24, 2013. Valid time is until Dec. 23, 2016.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: Dec. 20, 2012. Valid time is until Dec. 19, 2015.

Telecommunication Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-1837. Date of Registration: May 07, 2013. Valid time is until May 06, 2016.

DNV

Shenzhen Huatongwei International Inspection Co., Ltd. has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025 (2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until Aug. 24, 2016.

Issued: 2015-10-22

2.3. Environmental conditions

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

Temperature:	15~35°C
lative Humidity:	30~60 %
Air Pressure:	950~1050mba

2.4. 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 TR-100028-01"Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1"and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd 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.

Hereafter the best measurement capability for Shenzhen Huatongweilaboratory is reported:

Test Items	MeasurementUncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emission 9KHz-40 GHz	2.20 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission30~1000MHz	4.24 dB	(1)
Radiated Emissio 1~18GHz	5.16 dB	(1)
Radiated Emissio 18-40GHz	5.54 dB	(1)
Occupied Bandwidth		(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

3. Methodofmeasurement

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310,KDB447498 and §2.1093RF exposure is required.

OET Bulletin 65 Supplement C [June 2001]: Evaluating Compliancewith FCC Guidelines forHuman Exposure to Radio frequency Electromagnetic Fields

Issued: 2015-09-10

3.2. **Limit**

According to 447498 D01 General RF Exposure Guidance v05, exclusion threshold values at selected frequencies and distancestable as following.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	SAR Test
1500	12	24	37	49	61	Exclusion
1900	11	22	33	44	54	Threshold
2450	10	19	29	38	48	(mW)
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

3.3. RF Exposure

TEST RESULS

[(max. power of channel, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$]

Mode	СН	Output power (dBm)	Tolerance (dB)	Max output power (dBm)	Max output power (mW)	Test separation distances (mm)	Calculation Value	Threshold value
	2402	3.36	1.0	4.36	2.73	5	0.85	3
GFSK	2441	3.53	1.0	4.53	2.84	5	0.89	3
	2480	2.98	1.0	3.98	2.50	5	0.79	3
	2402	5.13	1.0	6.13	4.10	5	1.27	3
Pi/4PQSK	2441	5.10	1.0	6.10	4.07	5	1.27	3
	2480	4.51	1.0	5.51	3.56	5	1.12	3
	2402	5.29	1.0	6.29	4.26	5	1.32	3
8DSPSK	2441	5.32	1.0	6.32	4.29	5	1.34	3
	2480	4.83	1.0	5.83	3.83	5	1.21	3
	2402	2.16	1.0	3.16	2.07	5	0.64	3
GFSK	2440	2.17	1.0	3.17	2.07	5	0.65	3
	2480	1.57	1.0	2.57	1.81	5	0.57	3

Issued: 2015-09-10

Mode	СН	Output power (dBm)	Tolerance (dB)	Max output power (dBm)	Max output power (mW)	Test separation distances (mm)	Calculation Value	Threshold value
802.11b	2412	8.23	1.0	9.23	8.38	5	2.60	3
	2437	8.35	1.0	9.35	8.61	5	2.69	3
	2462	8.17	1.0	9.17	8.26	5	2.59	3
802.11g	2412	7.50	1.0	8.50	7.08	5	2.20	3
	2437	7.54	1.0	8.54	7.14	5	2.23	3
	2462	7.40	1.0	8.40	6.92	5	2.17	3
802.11n(H20)	2412	7.73	1.0	8.73	7.46	5	2.32	3
	2437	7.77	1.0	8.77	7.53	5	2.35	3
	2462	7.61	1.0	8.61	7.26	5	2.28	3
802.11n(H40)	2422	7.13	1.0	8.13	6.50	5	2.02	3
	2437	7.01	1.0	8.01	6.32	5	1.97	3
	2452	6.84	1.0	7.84	6.08	5	1.90	3

Issued: 2015-09-10

4. Conclusion

So standalone SAR measurements are	e not required for both head and body
------------------------------------	---------------------------------------

.....EndofReport.....