

Global United Technology Services Co., Ltd.

Report No.: GTSE15050093903

FCC REPORT

Applicant: Yuko Technology Co., Ltd.

6th Floor, A9 building, TianRui Industrial Park, FuYuan 1st **Address of Applicant:**

Road, FuYong ,Bao'an ShenZhen China

Equipment Under Test (EUT)

7" tablet PC **Product Name:**

Model No.: S706(U706)

2ADQN-S706 FCC ID:

FCC CFR Title 47 Part 15 Subpart C Section 15.249:2014 Applicable standards:

Date of sample receipt: June 01, 2015

Date of Test: June 01-08, 2015

Date of report issued: June 08, 2015

PASS * Test Result:

In the configuration tested, the EUT complied with the standards specified above.

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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2 Version

Version No.	Date	Description
00	June 08, 2015	Original

Prepared By:	Edward.Pan	Date:	June 08, 2015
	Project Engineer		
Check By:	hank. yan	Date:	June 08, 2015
	Reviewer		



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	N/A
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

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

N/A: Not applicable

Remark: Test according to ANSI C63.4:2009 and ANSI C63.10:2009.

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:	Yuko Technology Co., Ltd.
Address of Applicant:	6th Floor, A9 building, TianRui Industrial Park, FuYuan 1st Road, FuYong ,Bao'an ShenZhen China
Manufacturer:	Yuko Technology Co., Ltd.
Address of Manufacturer:	6th Floor, A9 building, TianRui Industrial Park, FuYuan 1st Road, FuYong ,Bao'an ShenZhen China

5.2 General Description of EUT

Product Name:	7" toblet DC
Product Name.	7" tablet PC
Model No.:	S706(U706)
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	Integral antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	AC/DC Adapter:
	Model No.:K-T5A
	Input: 100-240V~50-60Hz, 0.2A Max
	Output: 5V 1.5A
	Or
	DC 3.7V Li-ion battery 2800mAh



Operation F	Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz	
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz	
• !	. !		. !	•	•		• !	
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz	
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz	

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, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Υ	Z
Field Strength(dBuV/m)	88.22	92.28	87.13

5.4 Description of Support Units

None

5.5 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 fuly 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.

5.6 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, China

Tel: 0755-27798480 Fax: 0755-27798960

5.7 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Radi	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	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2015	Mar. 27 2016		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jul. 01 2014	Jun 30 2015		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 01 2014	Jun 30 2015		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jul. 01 2014	Jun 30 2015		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016		
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016		
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016		
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016		
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 01 2014	Jun. 30, 2015		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 01 2014	Jun. 30, 2015		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015		
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016		
Con	ducted Emission:	1	1	ı		1		
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date		
				No.	(mm-dd-yy)	(mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	July 01 2014	June 30 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 Cal.Date C		Cal.Due date	
	Toot Equipment	arraractaro	in out it it	No.	(mm-dd-yy)	(mm-dd-yy)	
1	Barometer	ChangChun	DYM3	GTS257	July 08 2014	July 07 2015	



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2.0dBi





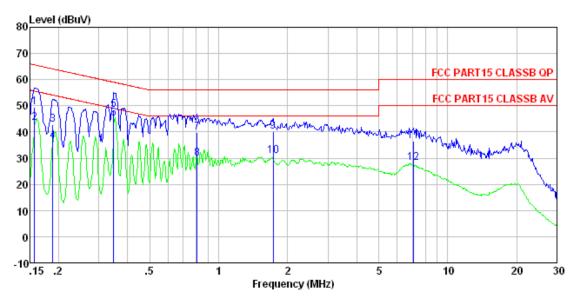
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207								
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:		Limit (d	BuV)						
	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 of the frequency.								
Test setup:	Reference Plane								
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m								
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 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 checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed 								
Test Instruments:	according to ANSI C63.4: 2 Refer to section 6.0 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Pass								



Measurement data

Line:



Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0939RF

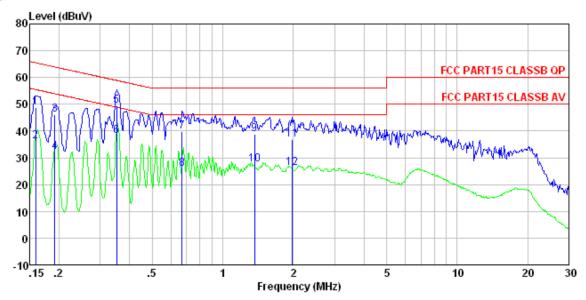
Test mode : Buletooth 4.0 mode

Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	d₿	dBuV	dBuV	dB	
1	0.157	49.20	0.15	0.12	49.47	65.60	-16.13	QP
2	0.157	43.04	0.15	0.12	43.31	55.60	-12.29	Average
3	0.188	42.45	0.14	0.13	42.72	64.11	-21.39	QP
4	0.188	36.36	0.14	0.13	36.63	54.11	-17.48	Average
2 3 4 5 6 7	0.348	48.36	0.11	0.10	48.57		-10.43	
6	0.348	44.75	0.11	0.10	44.96	49.00	-4.04	Average
7	0.804	39.68	0.14	0.13	39.95	56.00	-16.05	QP
8	0.804	29.49	0.14	0.13	29.76	46.00	-16.24	Average
9	1.734	39.81	0.12	0.14	40.07	56.00	-15.93	QP
10	1.734	30.45	0.12	0.14	30.71	46.00	-15.29	Average
11	7.100	36.23	0.25	0.17	36.65	60.00	-23.35	QP
12	7.100	27, 93	0.25	0.17	28, 35	50.00	-21.65	Average



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0939RF

Test mode : Buletooth 4.0 mode

Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBu₹	dB	
1 2 3 4 5 6 7 8 9	0.159 0.159 0.192 0.192 0.352 0.352 0.672 1.367	48. 52 35. 81 45. 95 31. 97 49. 14 37. 98 39. 77 25. 83 38. 72	0. 07 0. 07 0. 07 0. 07 0. 06 0. 06 0. 07 0. 07	0.12 0.12 0.13 0.13 0.10 0.10 0.13 0.13	48. 71 36. 00 46. 15 32. 17 49. 30 38. 14 39. 97 26. 03 38. 94	55. 52 63. 93 53. 93 58. 91 48. 91 56. 00 46. 00 56. 00	-17.78 -21.76 -9.61 -10.77 -16.03 -19.97 -17.06	Average QP Average QP Average QP Average QP
10 11 12	1.367 1.970 1.970	27.30 36.56 26.12	0. 09 0. 09 0. 09	0.13 0.14 0.14	27.52 36.79 26.35	56.00	-19.21	Average QP Average

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.



7.3 Radiated Emission Method

7.3 Radiated Emission We	Radiated Emission Nethod									
Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.10:20	009								
Test Frequency Range:	30MHz to 25GH	łz								
Test site:	Measurement D	Distance: 3m								
Receiver setup:	Frequency	Detector		RBW	VBW	Remark				
	30MHz- 1GHz	Quasi-pea	k	120KHz	300KHz	Quasi-peak Value				
	Above 1GHz	Peak		1MHz	3MHz	Peak Value				
	Above IGHZ	Peak		1MHz	10Hz	Average Value				
Limit:	Freque	Remark								
(Field strength of the fundamental signal)	2400MHz-2483.5MHz 94.00 Average Value									
Limit:	Frequency Limit (dBuV/m @3m) Remark									
(Spurious Emissions)	30MHz-88MHz 40.00 Quasi-peak Value									
,		88MHz-216MHz 43.50 Quasi-peak Value								
	216MHz-960MHz 46.00 Quasi-peak Value									
	960MHz-1GHz 54.00 Quasi-peak Value 54.00 Average Value									
	Above 1	IGHz		74.0		Peak Value				
Limit: (band edge)	harmonics, sha	ll be attenuat to the genera	ed b	y at least : diated emi	50 dB belov	bands, except for w the level of the in Section 15.209,				
Test setup:	EUT	3m < 4m 4m 0.8m 1m			Anten					



Report No.: GTSE15050093903 Horn Antenna Spectrum Amplifier Test Procedure: 1. The EUT was placed on the top of a rotating table 0.8m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 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 Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.3 for details Test results: **Pass**

Measurement data:

Remark: All of the X axis, Y axis, Z axis were tested, and found the Y axis was the worst case. So only the worst case was shown in the report



7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	92.16	27.58	5.39	34.01	91.12	114.00	-22.88	Vertical
2402.00	86.48	27.58	5.39	34.01	85.44	114.00	-28.56	Horizontal
2440.00	92.28	27.48	5.43	33.96	91.23	114.00	-22.77	Vertical
2440.00	86.26	27.48	5.43	33.96	85.21	114.00	-28.79	Horizontal
2480.00	90.97	27.52	5.47	33.92	90.04	114.00	-23.96	Vertical
2480.00	85.12	27.52	5.47	33.92	84.19	114.00	-29.81	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	82.12	27.58	5.39	34.01	81.08	94.00	-12.92	Vertical
2402.00	76.93	27.58	5.39	34.01	75.89	94.00	-18.11	Horizontal
2440.00	82.45	27.48	5.43	33.96	81.40	94.00	-12.60	Vertical
2440.00	75.71	27.48	5.43	33.96	74.66	94.00	-19.34	Horizontal
2480.00	81.54	27.52	5.47	33.92	80.61	94.00	-13.39	Vertical
2480.00	75.97	27.52	5.47	33.92	75.04	94.00	-18.96	Horizontal

Remark: RBW 3MHz, VBW 10MHz, peak detector for PK value, RBW 3MHz, VBW 10MHz AV detector for AV value



7.3.2 Spurious emissions

■ Below 1GHz

- Below 1912								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
38.21	39.25	15.15	0.64	30.05	24.99	40.00	-15.01	Vertical
85.30	35.72	12.45	1.07	29.77	19.47	40.00	-20.53	Vertical
277.09	31.16	14.59	2.25	29.84	18.16	46.00	-27.84	Vertical
375.94	43.66	16.56	2.75	29.61	33.36	46.00	-12.64	Vertical
511.84	33.41	18.84	3.36	29.30	26.31	46.00	-19.69	Vertical
782.35	26.15	21.82	4.40	29.20	23.17	46.00	-22.83	Vertical
81.50	35.93	11.13	1.04	29.79	18.31	40.00	-21.69	Horizontal
265.68	36.29	14.26	2.20	29.76	22.99	46.00	-23.01	Horizontal
372.01	47.78	16.53	2.72	29.63	37.40	46.00	-8.60	Horizontal
511.84	33.55	18.84	3.36	29.30	26.45	46.00	-19.55	Horizontal
782.35	34.08	21.82	4.40	29.20	31.10	46.00	-14.90	Horizontal
884.50	28.43	22.96	4.79	29.11	27.07	46.00	-18.93	Horizontal



■ Above 1GHz

st channel:	Lowest channel
-------------	----------------

Peak value:

i cak value.								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	37.39	31.78	8.60	32.09	45.68	74.00	-28.32	Vertical
7206.00	31.88	36.15	11.65	32.00	47.68	74.00	-26.32	Vertical
9608.00	31.52	37.95	14.14	31.62	51.99	74.00	-22.01	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	41.69	31.78	8.60	32.09	49.98	74.00	-24.02	Horizontal
7206.00	33.65	36.15	11.65	32.00	49.45	74.00	-24.55	Horizontal
9608.00	30.95	37.95	14.14	31.62	51.42	74.00	-22.58	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Average vai	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	26.18	31.78	8.60	32.09	34.47	54.00	-19.53	Vertical
7206.00	20.56	36.15	11.65	32.00	36.36	54.00	-17.64	Vertical
9608.00	19.63	37.95	14.14	31.62	40.10	54.00	-13.90	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	30.42	31.78	8.60	32.09	38.71	54.00	-15.29	Horizontal
7206.00	22.74	36.15	11.65	32.00	38.54	54.00	-15.46	Horizontal
9608.00	19.37	37.95	14.14	31.62	39.84	54.00	-14.16	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channel	Test channel: Middle								
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4880.00	36.89	31.85	8.67	32.12	45.29	74.00	-28.71	Vertical	
7320.00	31.56	36.37	11.72	31.89	47.76	74.00	-26.24	Vertical	
9760.00	31.23	38.35	14.25	31.62	52.21	74.00	-21.79	Vertical	
12200.00	*					74.00		Vertical	
14640.00	*					74.00		Vertical	
4880.00	41.10	31.85	8.67	32.12	49.50	74.00	-24.50	Horizontal	
7320.00	33.28	36.37	11.72	31.89	49.48	74.00	-24.52	Horizontal	
9760.00	30.61	38.35	14.25	31.62	51.59	74.00	-22.41	Horizontal	
12200.00	*					74.00		Horizontal	
14640.00	*					74.00		Horizontal	
Average val			•	•					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
4880.00	25.80	31.85	8.67	32.12	34.20	54.00	-19.80	Vertical	
7320.00	20.30	36.37	11.72	31.89	36.50	54.00	-17.50	Vertical	
9760.00	19.40	38.35	14.25	31.62	40.38	54.00	-13.62	Vertical	
12200.00	*					54.00		Vertical	
14640.00	*					54.00		Vertical	
4880.00	29.98	31.85	8.67	32.12	38.38	54.00	-15.62	Horizontal	
7320.00	22.44	36.37	11.72	31.89	38.64	54.00	-15.36	Horizontal	
9760.00	19.10	38.35	14.25	31.62	40.08	54.00	-13.92	Horizontal	
12200.00	*					54.00		Horizontal	
14640.00	*					54.00		Horizontal	

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test channe	Fest channel: Highest								
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or .	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	35.95	31.93	8.73	32.1	6	44.45	74.00	-29.55	Vertical
7440.00	30.93	36.59	11.79	31.7	8	47.53	74.00	-26.47	Vertical
9920.00	30.67	38.81	14.38	31.8	8	51.98	74.00	-22.02	Vertical
12400.00	*						74.00		Vertical
14880.00	*						74.00		Vertical
4960.00	39.96	31.93	8.73	32.1	6	48.46	74.00	-25.54	Horizontal
7440.00	32.56	36.59	11.79	31.7	8	49.16	74.00	-24.84	Horizontal
9920.00	29.96	38.81	14.38	31.8	8	51.27	74.00	-22.73	Horizontal
12400.00	*						74.00		Horizontal
14880.00	*						74.00		Horizontal
Average val	ue:			_					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	or	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.06	31.93	8.73	32.1	6	33.56	54.00	-20.44	Vertical
7440.00	19.80	36.59	11.79	31.7	8	36.40	54.00	-17.60	Vertical
9920.00	18.96	38.81	14.38	31.8	8	40.27	54.00	-13.73	Vertical
12400.00	*						54.00		Vertical
14880.00	*						54.00		Vertical
4960.00	29.15	31.93	8.73	32.1	6	37.65	54.00	-16.35	Horizontal
7440.00	21.89	36.59	11.79	31.7	8	38.49	54.00	-15.51	Horizontal
9920.00	18.58	38.81	14.38	31.8	8	39.89	54.00	-14.11	Horizontal
12400.00	*						54.00		Horizontal
ı	1		i	1					

Remark:

14880.00

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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Horizontal

54.00



7.3.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Test channel:	Lowest channel
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	41.30	27.59	5.38	30.18	44.09	74.00	-29.91	Horizontal
2400.00	57.87	27.58	5.39	30.18	60.66	74.00	-13.34	Horizontal
2390.00	41.70	27.59	5.38	30.18	44.49	74.00	-29.51	Vertical
2400.00	59.73	27.58	5.39	30.18	62.52	74.00	-11.48	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	32.21	27.59	5.38	30.18	35.00	54.00	-19.00	Horizontal
2400.00	43.35	27.58	5.39	30.18	46.14	54.00	-7.86	Horizontal
2390.00	32.04	27.59	5.38	30.18	34.83	54.00	-19.17	Vertical
2400.00	44.85	27.58	5.39	30.18	47.64	54.00	-6.36	Vertical

Ī	Test channel:	Highest channel
		1

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	43.22	27.53	5.47	29.93	46.29	74.00	-27.71	Horizontal
2500.00	42.69	27.55	5.49	29.93	45.80	74.00	-28.20	Horizontal
2483.50	43.80	27.53	5.47	29.93	46.87	74.00	-27.13	Vertical
2500.00	43.54	27.55	5.49	29.93	46.65	74.00	-27.35	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	35.02	27.53	5.47	29.93	38.09	54.00	-15.91	Horizontal
2500.00	33.24	27.55	5.49	29.93	36.35	54.00	-17.65	Horizontal
2483.50	36.10	27.53	5.47	29.93	39.17	54.00	-14.83	Vertical
2500.00	33.03	27.55	5.49	29.93	36.14	54.00	-17.86	Vertical

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



7.4 20dB Occupy Bandwidth

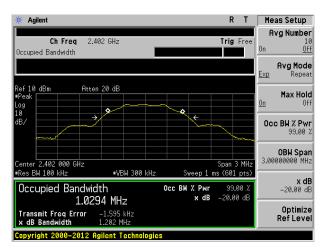
Test Requirement:	FCC Part15 C Section 15.249/15.215			
Test Method:	ANSI C63.10:2009			
Limit:	Operation Frequency range 2400MHz~2483.5MHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

Measurement Data

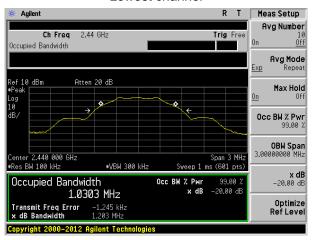
Test channel	20dB bandwidth(MHz)	Result
Lowest	1.202	Pass
Middle	1.203	Pass
Highest	1.205	Pass

Test plot as follows:

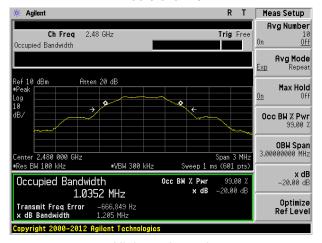




Lowest channel



Middle channel

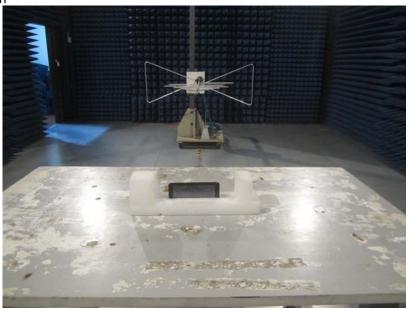


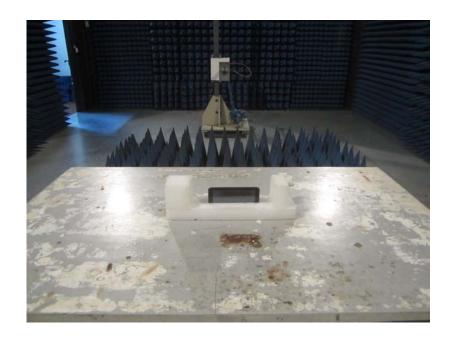
Highest channel



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTSE15050093901

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