

Global United Technology Services Co., Ltd.

Report No.: GTSE15040045602

FCC REPORT

Applicant: Inspira Technologies LLC

Address of Applicant: 1901 4th Ave Suite 210 San Diego California 92101 United

States

Equipment Under Test (EUT)

Product Name: TABLET PC

Model No.: A924

Trade Mark: Astro Tab

FCC ID: 2ABQ6-A924

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

Date of sample receipt: April 28, 2015

Date of Test: April 28-May 06, 2015

Date of report issued: May 06, 2015

Test Result: PASS *

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

Authorized Signature:



Robinson Lo **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

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2 Version

Version No.	Date	Description
00	May 06, 2015	Original

Prepared By:	Sam. Gao	Date:	May 06, 2015	
	Project Engineer			-
Check By:	hank. yan	Date:	May 06, 2015	
	Reviewer			



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Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
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.

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 unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%



5 General Information

5.1 Client Information

Applicant:	Inspira Technologies LLC
Address of Applicant:	1901 4th Ave Suite 210 San Diego California 92101 United States
Manufacturer:	Inspira Technologies LLC
Address of Manufacturer:	1901 4th Ave Suite 210 San Diego California 92101 United States
Factory:	Shenzhen Iproda Technology Co., LTD.
Address of Factory:	4F-5F, C Building, Gongming Tangwei Village wanfeng industrial zone, Guangming New District, Shenzhen, China

5.2 General Description of EUT

Product Name:	TABLET PC
Model No.:	A924
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	Model No.:THX-050200KE
	Input: AC 100-240V, 50/60Hz, 0.65A MAX
	Output: DC 5V, 2A
	Or
	DC 3.7V Li-ion battery 4000mAh



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
					:		
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

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	2441MHz
The Highest channel	2480MHz



5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: 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	Х	Υ	Z
Field Strength(dBuV/m)	94.28	96.35	93.59

Final Test Mode:

The EUT was tested in GFSK, π /4QPSK, 8DPSK modulation, and found the GFSK modulation is the worst case.

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup":

Y axis (see the test setup photo)

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.

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

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6 Test Instruments list

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	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	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 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 Antenna requirement

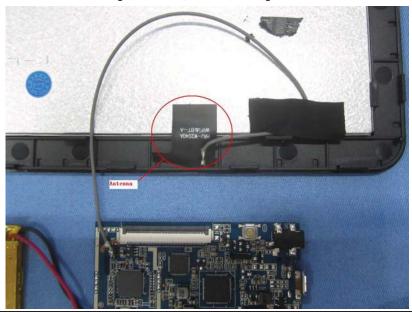
Standard requirement: FCC Part15 C Section 15.203

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





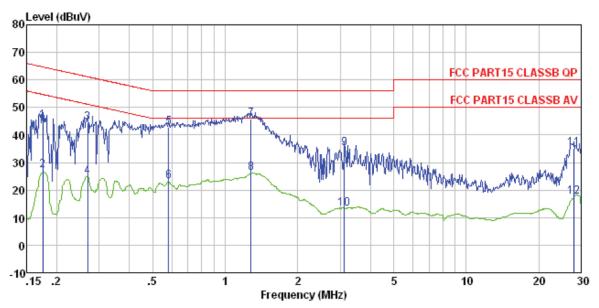
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207							
Test Method:	ANSI C63.4:2014							
Test Frequency Range:	150KHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto						
Limit:		IBuV)						
	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 logarithn	n of the frequency.	_					
Test setup:	Reference Plane							
	Remark E.U.T 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 according to ANSI C63.4: 2014 on conducted measurement. 							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.3 for details	Refer to section 5.3 for details						
Test results:	Pass							



Measurement data

Line:



Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 0456RF

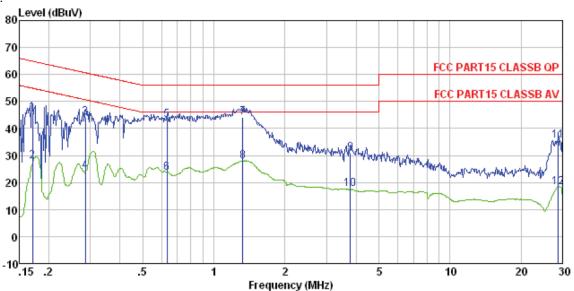
Test mode : Bluetooth mode

Test Engineer: Qing

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	d₿	dBuV	dBuV	dB	
1	0.175	45.02	0.14	0.13	45.29	64.72	-19.43	QP
2 3	0.175	26.84	0.14	0.13	27.11	54.72	-27.61	Average
3	0.269	44.12	0.11	0.11	44.34	61.16	-16.82	QP _
4 5	0.269	24.55	0.11	0.11	24.77	51.16	-26.39	Average
5	0.582	42.46	0.13	0.12	42.71	56.00	-13.29	QP
6 7	0.582	22.90	0.13	0.12	23.15	46.00	-22.85	Average
7	1.282	45.71	0.12	0.13	45.96	56.00	-10.04	QP
8	1.282	26.11	0.12	0.13	26.36	46.00	-19.64	Average
9	3.123	35.00	0.16	0.15	35.31	56.00	-20.69	QP
10	3.123	13.05	0.16	0.15	13.36	46.00	-32.64	Average
11	27.855	34.11	0.89	0.24	35.24	60.00	-24.76	QP
12	27, 855	16, 30	0. 89	0. 24	17, 43	50, 00	-32.57	Average



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0456RF

Test mode : Bluetooth mode

Test Engineer: Qing

	Freq	Kead Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu₹	dB	dB	dBu₹	dBu∜	dB	
1 2	0.170 0.170	45.55 27.82	0.07 0.07	0.12 0.12	45.74 28.01		-19.20 -26.93	QP Average
3	0. 286 0. 286	43.88 24.02	0.06 0.06	0.10 0.10	44.04 24.18	60.63	-16.59	
4 5	0.634	42.79	0.07	0.13	42.99	56.00	-13.01	QP _
6 7	0.634 1.324	23. 29 43. 80	0.07 0.09	0.13 0.13	23. 49 44. 02		-22. 51 -11. 98	Average QP
8	1.324	27.72	0.09	0.13	27.94	46.00	-18.06	Average
9 10	3. 779 3. 779	30. 46 17. 41	0.14 0.14	0.15 0.15	30.75 17.70		-25. 25 -28. 30	Wr Average
11 12	28. 755 28. 755	34. 43 17. 35	0.74 0.74	0.24 0.24	35. 41 18. 33	60.00	-24.59	
								-0-

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

1.3	5 Radiated Ellission Method									
	Test Requirement:	FCC Part15 C Section 15.209								
	Test Method:	ANSI C63.4:20	14							
	Test Frequency Range:	30MHz to 25GH	Ηz							
	Test site:	Measurement D	Distance: 3m							
	Receiver setup:	Frequency	Detector	RB\	V VBW	Remark				
		30MHz- 1GHz	Quasi-pea	(120K	Hz 300KHz	Quasi-peak Value				
		Above 1GHz	Peak	1MF	lz 3MHz	Peak Value				
		Above 1G112	Peak	1MF	lz 10Hz	Average Value				
	Limit:	Freque	ency		3uV/m @3m)	Remark				
	(Field strength of the	2400MHz-24	183.5MHz		94.00	Average Value				
	fundamental signal)				14.00	Peak Value				
	Limit:	Frequency Limit (dBuV/m @3m) Rema								
	(Spurious Emissions)	30MHz-8			40.00	Quasi-peak Value				
		88MHz-2 ⁻ 216MHz-9			43.50 46.00	Quasi-peak Value Quasi-peak Value				
		960MHz-			54.00	Quasi-peak Value				
		Above 1GHz		54.00		Average Value				
		Above 1	IGHZ		74.00	Peak Value				
	Limit: (band edge)	harmonics, sha	II be attenuat to the genera	ed by at le al radiated	ast 50 dB belo	w bands, except for w the level of the s in Section 15.209,				
	Test setup:	Below 1GHz	4m 4m 0.8m 1m		Se	arch enna				



	Report No.: GTSE15040045602
	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table 1.5m A A A A A A A A A A A A A A A A A A A
Test Procedure:	The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	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.
	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:



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	92.14	27.58	5.39	30.18	94.93	114.00	-19.07	Vertical
2402.00	89.54	27.58	5.39	30.18	92.33	114.00	-21.67	Horizontal
2441.00	90.45	27.55	5.43	30.06	93.37	114.00	-20.63	Vertical
2441.00	88.54	27.55	5.43	30.06	91.46	114.00	-22.54	Horizontal
2480.00	93.29	27.52	5.47	29.93	96.35	114.00	-17.65	Vertical
2480.00	90.11	27.52	5.47	29.93	93.17	114.00	-20.83	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	82.24	27.58	5.39	30.18	85.03	94.00	-8.97	Vertical
2402.00	79.53	27.58	5.39	30.18	82.32	94.00	-11.68	Horizontal
2441.00	80.28	27.55	5.43	30.06	83.20	94.00	-10.80	Vertical
2441.00	77.31	27.55	5.43	30.06	80.23	94.00	-13.77	Horizontal
2480.00	83.63	27.52	5.47	29.93	86.69	94.00	-7.31	Vertical
2480.00	80.19	27.52	5.47	29.93	83.25	94.00	-10.75	Horizontal

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

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7.3.2 Spurious emissions

■ Below 1GHz

Below 1G112									
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	
38.48	40.93	15.20	0.65	30.05	26.73	40.00	-13.27	Vertical	
82.07	44.20	11.28	1.05	29.79	26.74	40.00	-13.26	Vertical	
129.02	52.35	11.12	1.43	29.52	35.38	43.50	-8.12	Vertical	
278.07	44.26	14.63	2.26	29.85	31.30	46.00	-14.70	Vertical	
501.18	36.68	18.63	3.31	29.30	29.32	46.00	-16.68	Vertical	
900.15	33.68	23.09	4.85	29.10	32.52	46.00	-13.48	Vertical	
59.86	36.97	14.71	0.86	29.92	22.62	40.00	-17.38	Horizontal	
91.82	38.71	14.24	1.12	29.74	24.33	43.50	-19.17	Horizontal	
147.92	41.54	10.24	1.56	29.42	23.92	43.50	-19.58	Horizontal	
225.31	50.50	13.41	1.99	29.44	36.46	46.00	-9.54	Horizontal	
407.52	35.46	17.22	2.89	29.48	26.09	46.00	-19.91	Horizontal	
576.64	33.52	20.03	3.63	29.30	27.88	46.00	-18.12	Horizontal	



■ Above 1GHz

Test channel: Lowest channel

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
4804.00	35.97	31.78	8.60	32.09	44.26	74.00	-29.74	Vertical
7206.00	30.94	36.15	11.65	32.00	46.74	74.00	-27.26	Vertical
9608.00	30.68	37.95	14.14	31.62	51.15	74.00	-22.85	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	39.98	31.78	8.60	32.09	48.27	74.00	-25.73	Horizontal
7206.00	32.58	36.15	11.65	32.00	48.38	74.00	-25.62	Horizontal
9608.00	29.97	37.95	14.14	31.62	50.44	74.00	-23.56	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		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
4804.00	25.03	31.78	8.60	32.09	33.32	54.00	-20.68	Vertical
7206.00	19.78	36.15	11.65	32.00	35.58	54.00	-18.42	Vertical
9608.00	18.94	37.95	14.14	31.62	39.41	54.00	-14.59	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	29.11	31.78	8.60	32.09	37.40	54.00	-16.60	Horizontal
7206.00	21.86	36.15	11.65	32.00	37.66	54.00	-16.34	Horizontal
9608.00	18.56	37.95	14.14	31.62	39.03	54.00	-14.97	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. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "*", means this data is the too weak instrument of signal is unable to test.



Test channel:	Middle channel
---------------	----------------

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
4882.00	35.66	31.85	8.67	32.12	44.06	74.00	-29.94	Vertical
7323.00	30.74	36.37	11.72	31.89	46.94	74.00	-27.06	Vertical
9764.00	30.50	38.35	14.25	31.62	51.48	74.00	-22.52	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	39.61	31.85	8.67	32.12	48.01	74.00	-25.99	Horizontal
7323.00	32.35	36.37	11.72	31.89	48.55	74.00	-25.45	Horizontal
9764.00	29.76	38.35	14.25	31.62	50.74	74.00	-23.26	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		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
4882.00	24.79	31.85	8.67	32.12	33.19	54.00	-20.81	Vertical
7323.00	19.61	36.37	11.72	31.89	35.81	54.00	-18.19	Vertical
9764.00	18.79	38.35	14.25	31.62	39.77	54.00	-14.23	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	28.84	31.85	8.67	32.12	37.24	54.00	-16.76	Horizontal
7323.00	21.68	36.37	11.72	31.89	37.88	54.00	-16.12	Horizontal
9764.00	18.39	38.35	14.25	31.62	39.37	54.00	-14.63	Horizontal
12205.00	*					54.00		Horizontal
14646.00	*					54.00		Horizontal

Remark:

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



	Test channel:	Highest 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
4960.00	35.82	31.93	8.73	32.16	44.32	74.00	-29.68	Vertical
7440.00	30.84	36.59	11.79	31.78	47.44	74.00	-26.56	Vertical
9920.00	30.59	38.81	14.38	31.88	51.90	74.00	-22.10	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	39.80	31.93	8.73	32.16	48.30	74.00	-25.70	Horizontal
7440.00	32.47	36.59	11.79	31.78	49.07	74.00	-24.93	Horizontal
9920.00	29.87	38.81	14.38	31.88	51.18	74.00	-22.82	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		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
4960.00	24.95	31.93	8.73	32.16	33.45	54.00	-20.55	Vertical
7440.00	19.73	36.59	11.79	31.78	36.33	54.00	-17.67	Vertical
9920.00	18.89	38.81	14.38	31.88	40.20	54.00	-13.80	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.02	31.93	8.73	32.16	37.52	54.00	-16.48	Horizontal
7440.00	21.80	36.59	11.79	31.78	38.40	54.00	-15.60	Horizontal
9920.00	18.50	38.81	14.38	31.88	39.81	54.00	-14.19	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

Remark:

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



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
- 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
2390.00	44.34	27.59	5.38	30.18	47.13	74.00	-26.87	Horizontal
2400.00	61.34	27.58	5.39	30.18	64.13	74.00	-9.87	Horizontal
2390.00	45.03	27.59	5.38	30.18	47.82	74.00	-26.18	Vertical
2400.00	63.53	27.58	5.39	30.18	66.32	74.00	-7.68	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	34.56	27.59	5.38	30.18	37.35	54.00	-16.65	Horizontal
2400.00	45.89	27.58	5.39	30.18	48.68	54.00	-5.32	Horizontal
2390.00	34.61	27.59	5.38	30.18	37.40	54.00	-16.60	Vertical
2400.00	47.67	27.58	5.39	30.18	50.46	54.00	-3.54	Vertical

Test channel:	Highest channel
1 Cot Gridinion.	Filighest Chailler

Peak value:

reak value.	ı							
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	46.62	27.53	5.47	29.93	49.69	74.00	-24.31	Horizontal
2500.00	45.51	27.55	5.49	29.93	48.62	74.00	-25.38	Horizontal
2483.50	47.71	27.53	5.47	29.93	50.78	74.00	-23.22	Vertical
2500.00	46.65	27.55	5.49	29.93	49.76	74.00	-24.24	Vertical

Average value:

7 tvolugo va	140.							
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	37.41	27.53	5.47	29.93	40.48	54.00	-13.52	Horizontal
2500.00	35.20	27.55	5.49	29.93	38.31	54.00	-15.69	Horizontal
2483.50	38.74	27.53	5.47	29.93	41.81	54.00	-12.19	Vertical
2500.00	35.24	27.55	5.49	29.93	38.35	54.00	-15.65	Vertical

Remark:

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



7.4 20dB Occupy Bandwidth

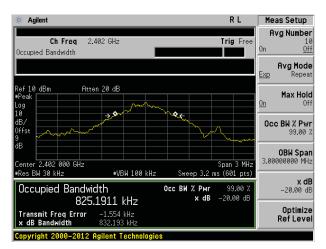
Test Requirement:	FCC Part15 C Section 15.249/15.215	
Test Method:	ANSI C63.4:2014	
Limit:	Operation Frequency range 2400MHz~2483.5MHz	
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane	
Test Instruments:	ments: Refer to section 6.0 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Pass	

Measurement Data

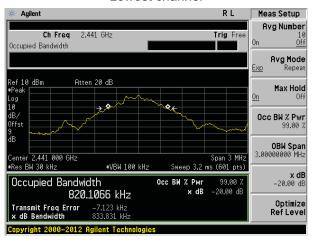
Test channel	20dB bandwidth(MHz)	Result
Lowest	0.832	Pass
Middle	0.834	Pass
Highest	0.839	Pass

Test plot as follows:

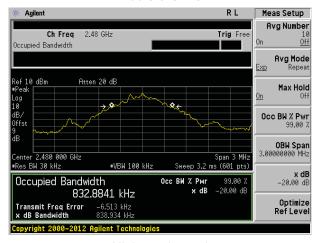




Lowest channel



Middle channel

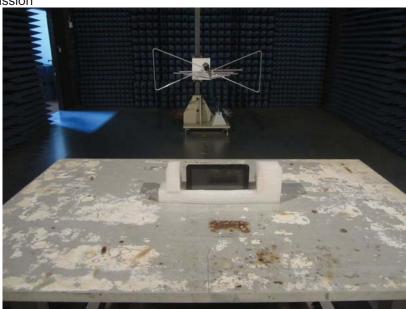


Highest channel



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTSE15040045601

-----End-----