

Global United Technology Services Co., Ltd.

Report No.: GTS201612000061F01

FCC REPORT

Applicant: Shenzhen Firstview Electronic Co. Ltd.

Address of Applicant: 3-4/F, Block B, Huafeng 1st Technology Zone, Baoan Main

Road, Baoan District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: 8 inch tablet

Model No.: HT0800IM32, VTA0802IM16, MI847

FCC ID: YW5HT0800IM32

FCC CFR Title 47 Part 15 Subpart C Section 15.249:2016 Applicable standards:

Date of sample receipt: December 16, 2016

Date of Test: December 16-21, 2016

Date of report issued: December 21, 2016

PASS * Test Result:

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	December 21, 2016	Original

Prepared By:	SEMICU	Date: _	December 21, 2016
	Project Engineer		

Check By: Date: December 21, 2016

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	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.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

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	rtainty is for coverage factor of k	=2 and a level of confidence of 9	95%.



5 General Information

5.1 Client Information

Applicant:	Shenzhen Firstview Electronic Co. Ltd.
Address of Applicant:	3-4/F, Block B, Huafeng 1st Technology Zone, Baoan Main Road, Baoan District, Shenzhen, China

5.2 General Description of EUT

Product Name:	8 inch tablet			
Model No.:	HT0800IM32, VTA0802IM16, MI847			
Test Model No. :	HT0800IM32			
	e identical in the same PCB layout, interior structure and electrical circuits. el name for commercial purpose.			
Operation Frequency:	2402MHz~2480MHz			
Channel numbers:	79			
Channel separation:	1MHz			
Modulation type:	GFSK, Pi/4QPSK, 8DPSK			
Antenna Type:	Integrity antenna			
Antenna gain:	2dBi(declare by Applicant)			
Power supply:	AC/DC Adapter			
	Model: HLT-003-0502000U			
	Input: AC 100-240V 50/60Hz 0.35A			
	Output: DC 5V, 2A			
	Or			
	DC 3.7V, 4000mAh, Li-ion Battery 14.8Wh			



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: During the test, 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	Y	Z
Field Strength(dBuV/m)	94.16	95.01	93.47

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:

• 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 22, 2016.

• 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, August 15, 2016

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.7 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

 $No.\ 301\text{-}309,\ 3/F.,\ Jinyuan\ Business\ Building,\ No.2,\ Laodong\ Industrial\ Zone,$

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

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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	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020		
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	June. 29 2016	June. 28 2017		
4	Loop Antenna	Zhinan	ZN30900A	GTS534	June. 29 2016	June. 28 2017		
5	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June. 29 2016	June. 28 2017		
6	Double-ridged horn antenna	SCHWARZBECK	9120D	GTS208	June. 29 2016	June. 28 2017		
7	Horn Antenna	ETS-LINDGREN	3160-09	GTS218	June. 29 2016	June. 28 2017		
8	RF Amplifier	HP	8347A	GTS204	June. 29 2016	June. 28 2017		
9	RF Amplifier	HP	8349B	GTS206	June. 29 2016	June. 28 2017		
10	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	June. 29 2016	June. 28 2017		
11	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	June. 29 2016	June. 28 2017		
12	Universal Radio Communication tester	ROHDE&SCHWARZ	CMU 200	GTS538	June. 29 2016	June. 28 2017		
13	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
14	Coaxial Cable	GTS	N/A	GTS210	June. 29 2016	June. 28 2017		
15	Coaxial Cable	GTS	N/A	GTS211	June. 29 2016	June. 28 2017		
16	Coaxial Cable	GTS	N/A	GTS210	June. 29 2016	June. 28 2017		

Cond	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	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 29 2016	June. 28 2017	
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June. 28 2017	
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June. 28 2017	
5	Coaxial Cable	GTS	N/A	GTS227	June. 29 2016	June. 28 2017	
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017	

Gen	General used equipment:											
Item	n Test Equipment Manufacturer		Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)						
1	Barometer	ChangChun	DYM3	GTS257	June. 29 2016	June. 28 2017						

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7 Test results and Measurement Data

7.1 Antenna requirement

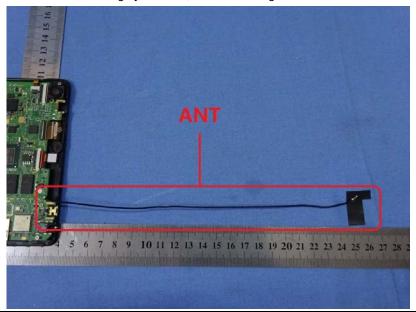
Standard requirement: FCC Part15 C Section 15.203

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 integrity antenna, the best case gain of the antenna is 2dBi





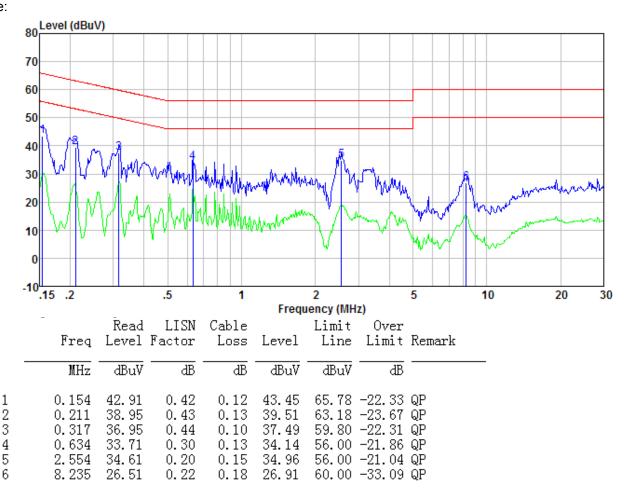
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	,							
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	150KHz to 30MHz								
Class / Severity:	Class B								
Receiver setup:	RBW=9KHz, VBW=30KHz, St	weep time=auto							
Limit:		Limit (c	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								
	AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T Equipment Under Test LISN Receiver								
Test procedure:	 The EUT 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 								
T	positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.								
Test Instruments:	Refer to section 6.0 for details								
Test mode:	Refer to section 5.3 for details								
Test results:	Pass								



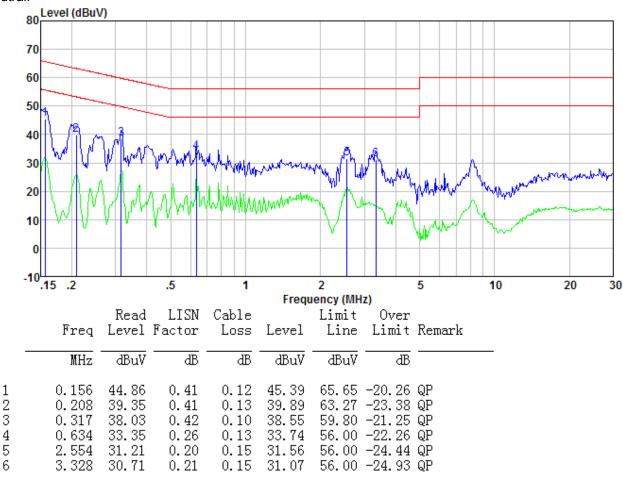
Measurement data

Line:





Neutral:



Notes:

5

- 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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7.3 Radiated Emission Method

1.3	Raulateu Ellission Mi	- Li i Ou								
	Test Requirement:	FCC Part15 C S	Section 15.20	9						
	Test Method:	ANSI C63.10:20	013							
	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:	Frequency Limit (dBuV/m @3m) Remark								
	(Field strength of the	2400MHz-24	183.5MHz	94.0		Average Value				
	fundamental signal)	114.00 Peak Value								
	Limit:	Frequency Limit (dBuV/m @3m) Remark								
	(Spurious Emissions)	30MHz-8		40.0		Quasi-peak Value				
		88MHz-2 216MHz-9		43.5 46.0		Quasi-peak Value Quasi-peak Value				
		960MHz-		54.0		Quasi-peak Value				
				54.00		Average Value				
		Above 1	IGHZ	74.0		Peak Value				
	Limit: (band edge)	harmonics, sha fundamental or	ll be attenuat to the genera	ed by at least al radiated em	50 dB belov	bands, except for w the level of the in Section 15.209,				
	Test setup:	whichever is the lesser attenuation. Below 1GHz Test Antenna Test Antenna Tum Table Receiver Preamplifier								
		Above 1GHz								



Report No.: GTS201612000061F01 < 1m ... 4m > EUT Tum Table Preamplifier+ Receiver+ Test Procedure: The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) 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:



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	95.96	27.58	5.39	34.01	94.92	114.00	-19.08	Vertical
2402.00	93.83	27.58	5.39	34.01	92.79	114.00	-21.21	Horizontal
2441.00	96.06	27.48	5.43	33.96	95.01	114.00	-18.99	Vertical
2441.00	93.89	27.48	5.43	33.96	92.84	114.00	-21.16	Horizontal
2480.00	95.53	27.52	5.47	33.92	94.60	114.00	-19.40	Vertical
2480.00	93.42	27.52	5.47	33.92	92.49	114.00	-21.51	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	85.91	27.58	5.39	34.01	84.87	94.00	-9.13	Vertical
2402.00	83.92	27.58	5.39	34.01	82.88	94.00	-11.12	Horizontal
2441.00	86.05	27.48	5.43	33.96	85.00	94.00	-9.00	Vertical
2441.00	83.73	27.48	5.43	33.96	82.68	94.00	-11.32	Horizontal
2480.00	85.68	27.52	5.47	33.92	84.75	94.00	-9.25	Vertical
2480.00	83.15	27.52	5.47	33.92	82.22	94.00	-11.78	Horizontal



7.3.2 Spurious emissions

■ Below 1GHz

= Bolow ToTi2										
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		
91.50	33.73	14.24	1.12	29.74	19.35	43.50	-24.15	Vertical		
134.56	40.28	10.56	1.47	29.49	22.82	43.50	-20.68	Vertical		
222.17	34.73	13.25	1.97	29.41	20.54	46.00	-25.46	Vertical		
487.32	29.24	18.26	3.25	29.33	21.42	46.00	-24.58	Vertical		
560.69	27.55	19.77	3.56	29.30	21.58	46.00	-24.42	Vertical		
935.55	23.48	23.34	4.99	29.10	22.71	46.00	-23.29	Vertical		
35.62	26.69	14.49	0.62	30.07	11.73	40.00	-28.27	Horizontal		
93.77	28.54	14.58	1.14	29.73	14.53	43.50	-28.97	Horizontal		
140.34	35.49	10.19	1.51	29.46	17.73	43.50	-25.77	Horizontal		
292.06	33.39	14.89	2.32	29.95	20.65	46.00	-25.35	Horizontal		
389.36	33.90	16.83	2.80	29.55	23.98	46.00	-22.02	Horizontal		
689.57	25.75	20.78	4.05	29.21	21.37	46.00	-24.63	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	35.87	31.78	8.60	32.09	44.16	74.00	-29.84	Vertical
7206.00	30.88	36.15	11.65	32.00	46.68	74.00	-27.32	Vertical
9608.00	30.62	37.95	14.14	31.62	51.09	74.00	-22.91	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	39.87	31.78	8.60	32.09	48.16	74.00	-25.84	Horizontal
7206.00	32.51	36.15	11.65	32.00	48.31	74.00	-25.69	Horizontal
9608.00	29.91	37.95	14.14	31.62	50.38	74.00	-23.62	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	24.96	31.78	8.60	32.09	33.25	54.00	-20.75	Vertical
7206.00	19.73	36.15	11.65	32.00	35.53	54.00	-18.47	Vertical
9608.00	18.90	37.95	14.14	31.62	39.37	54.00	-14.63	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	29.03	31.78	8.60	32.09	37.32	54.00	-16.68	Horizontal
7206.00	21.81	36.15	11.65	32.00	37.61	54.00	-16.39	Horizontal
9608.00	18.51	37.95	14.14	31.62	38.98	54.00	-15.02	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	36.35	31.85	8.67	32.12	44.75	74.00	-29.25	Vertical
7323.00	31.20	36.37	11.72	31.89	47.40	74.00	-26.60	Vertical
9764.00	30.91	38.35	14.25	31.62	51.89	74.00	-22.11	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	40.44	31.85	8.67	32.12	48.84	74.00	-25.16	Horizontal
7323.00	32.87	36.37	11.72	31.89	49.07	74.00	-24.93	Horizontal
9764.00	30.24	38.35	14.25	31.62	51.22	74.00	-22.78	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	25.36	31.85	8.67	32.12	33.76	54.00	-20.24	Vertical
7323.00	20.00	36.37	11.72	31.89	36.20	54.00	-17.80	Vertical
9764.00	19.13	38.35	14.25	31.62	40.11	54.00	-13.89	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	29.48	31.85	8.67	32.12	37.88	54.00	-16.12	Horizontal
7323.00	22.11	36.37	11.72	31.89	38.31	54.00	-15.69	Horizontal
9764.00	18.79	38.35	14.25	31.62	39.77	54.00	-14.23	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

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	36.48	31.93	8.73	32.16	44.98	74.00	-29.02	Vertical
7440.00	31.28	36.59	11.79	31.78	47.88	74.00	-26.12	Vertical
9920.00	30.98	38.81	14.38	31.88	52.29	74.00	-21.71	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	40.60	31.93	8.73	32.16	49.10	74.00	-24.90	Horizontal
7440.00	32.97	36.59	11.79	31.78	49.57	74.00	-24.43	Horizontal
9920.00	30.33	38.81	14.38	31.88	51.64	74.00	-22.36	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	25.51	31.93	8.73	32.16	34.01	54.00	-19.99	Vertical
7440.00	20.11	36.59	11.79	31.78	36.71	54.00	-17.29	Vertical
9920.00	19.23	38.81	14.38	31.88	40.54	54.00	-13.46	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.66	31.93	8.73	32.16	38.16	54.00	-15.84	Horizontal
7440.00	22.23	36.59	11.79	31.78	38.83	54.00	-15.17	Horizontal
9920.00	18.90	38.81	14.38	31.88	40.21	54.00	-13.79	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				
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	45.52	27.59	5.38	30.18	48.31	74.00	-25.69	Horizontal
2400.00	46.68	27.58	5.39	30.18	49.47	74.00	-24.53	Horizontal
2390.00	46.32	27.59	5.38	30.18	49.11	74.00	-24.89	Vertical
2400.00	48.00	27.58	5.39	30.18	50.79	74.00	-23.21	Vertical
Average va	lue:			-	•	-		
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	35.47	27.59	5.38	30.18	38.26	54.00	-15.74	Horizontal
2400.00	33.87	27.58	5.39	30.18	36.66	54.00	-17.34	Horizontal
2390.00	35.60	27.59	5.38	30.18	38.39	54.00	-15.61	Vertical
2400.00	34.77	27.58	5.39	30.18	37.56	54.00	-16.44	Vertical

|--|

Peak value:

I can 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	47.94	27.53	5.47	29.93	51.01	74.00	-22.99	Horizontal
2500.00	46.61	27.55	5.49	29.93	49.72	74.00	-24.28	Horizontal
2483.50	49.22	27.53	5.47	29.93	52.29	74.00	-21.71	Vertical
2500.00	47.86	27.55	5.49	29.93	50.97	74.00	-23.03	Vertical

Average value:

7 trolugo ru								
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	36.33	27.53	5.47	29.93	39.40	54.00	-14.60	Horizontal
2500.00	35.96	27.55	5.49	29.93	39.07	54.00	-14.93	Horizontal
2483.50	35.76	27.53	5.47	29.93	38.83	54.00	-15.17	Vertical
2500.00	36.10	27.55	5.49	29.93	39.21	54.00	-14.79	Vertical

Remark:

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



7.4 20dB Occupy Bandwidth

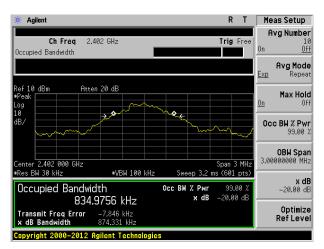
Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

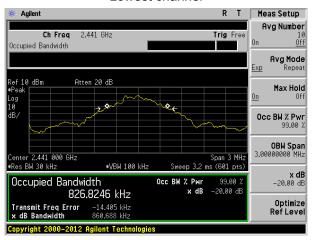
Test channel		20dB bandwidth(MHz)	Result		
	Lowest	0.874	Pass		
	Middle	0.861	Pass		
	Highest	0.868	Pass		

Test plot as follows:

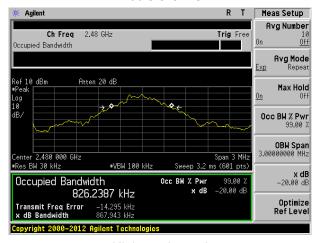




Lowest channel



Middle channel

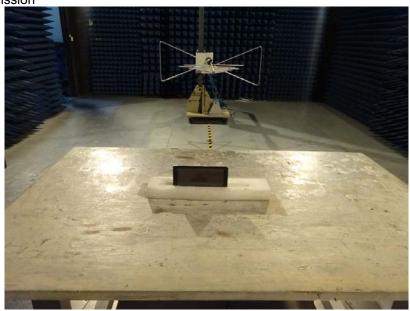


Highest channel



8 Test Setup Photo

Radiated Emission







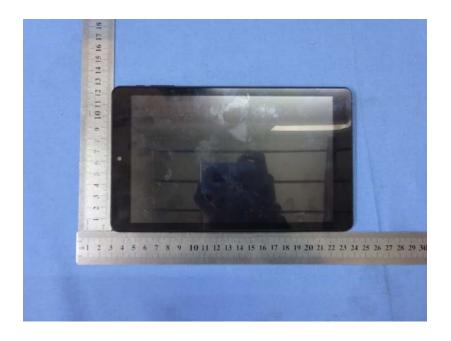
Conducted Emission





9 EUT Constructional Details



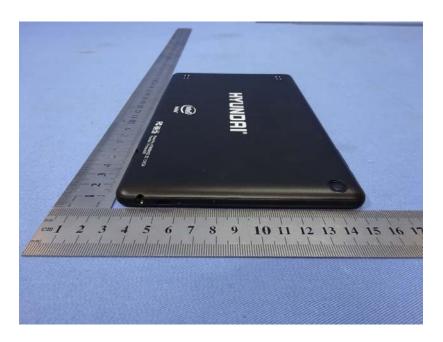






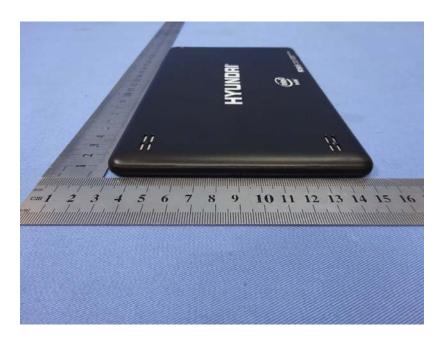
























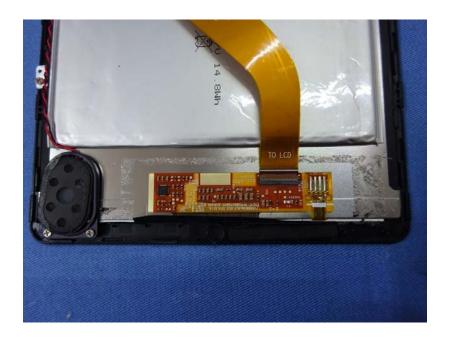


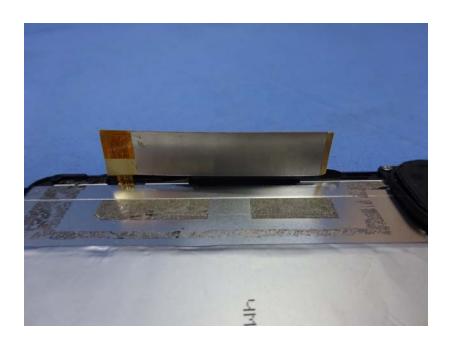


















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