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Report No.: EBO1411112-E292

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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: 8.95 inch Tablet PC

Model No.: VTA089001, VTA089001S, VTA089001E, M8941

FCC ID: YW5VTA089001

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2013

Date of sample receipt: November 26, 2014

Date of Test: November 26, 2014 To December 5, 2014

Date of report issued: December 5, 2014

Test Result: PASS *

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

Authorized Signature:

Kevin Yu 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 EBO 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	December 5, 2014	Original

Prepared By:	Jason	Date:	December 5, 2014
	Project Engineer		
Check By:	Ceuyy	Date:	December 5, 2014



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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.

N/A: not applicable.



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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
Manufacturer:	Shenzhen Firstview Electronic Co., Ltd.
Address of Manufacturer:	F3-6, Block B, Huafeng 1st Technology Zone, Baoan Main Road, Baoan
	District, Shenzhen, P.R.China

5.2 General Description of EUT

Product Name:	8.95 inch Tablet PC
Model No.:	VTA089001, VTA089001S, VTA089001E, M8941
Test Model No.:	VTA089001
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral Antenna
Antenna gain:	1.74dBi (declare by Applicant)
	Input: DC 5V, 2000mA from adapter
Power supply:	Or
	DC 3.7V, 5000mAh Li-ion Battery



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Operation Frequency each of channel								
Channel Frequency Channel Frequency Channel F							Frequency	
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz	
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz	
	ii ii						į	
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



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5.3 Test mode

Transmitting mode Turn off the WiFi and keep the Bluetooth in continuously transmitting mode

Remark: 1.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.

2. Worst case GFSK modulation

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	Y	Z
Field Strength(dBuV/m)	93.33	96.76	94.26

Final Test Mode:

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.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

5.7 Other Information Requested by the Customer

None.



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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	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 29 2013	Mar. 28 2015			
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	Dec. 5, 2013	Dec. 4 2014			
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015			
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015			
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	July 01 2014	June 30 2015			
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015			
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2014	Mar. 27 2015			
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2014	Mar. 27 2015			
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2014	Mar. 27 2015			
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2014	Mar. 27 2015			
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015			
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015			
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	July 01 2014	June 30 2015			
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2014	Mar. 27 2015			

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



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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 01 2014	June 30 2015			



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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.

E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 1.74dBi





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7.2 Conducted Emissions

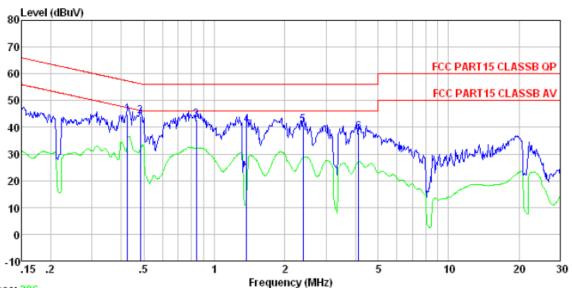
Test Requirement: FCC Part15 C Section 15.207 Test Method: ANSI C63.4:2003								
7 . 5 . 5 . 450/41	ANSI C63.4:2003							
Test Frequency Range: 150KHz to 30MHz	150KHz to 30MHz							
Class / Severity: Class B	Class B							
Receiver setup: RBW=9KHz, VBW=30KHz, Sweep time=auto								
Limit: Limit (dBuV)								
Frequency range (MHZ)	Average							
	66 to 46*							
0.5-5 56	46							
5-30 60	50							
* Decreases with the logarithm of the frequency.								
Test setup: Reference Plane								
AUX Equipment E.U.T Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m								
line impedance stabilization network (L.I.S.N.). This prov 50ohm/50uH coupling impedance for the measuring equ 2. The peripheral devices are also connected to the main p LISN that provides a 50ohm/50uH coupling impedance v termination. (Please refer to the block diagram of the tes photographs). 3. Both sides of A.C. line are checked for maximum conductinterference. In order to find the maximum emission, the	 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 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm 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: Refer to section 6.0 for details								
Test mode: Refer to section 5.3 for details								
Test results: Pass								

Measurement data:



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Test mode: Bluetooth mode		LINE
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Trace: 206

Site : Shielded room

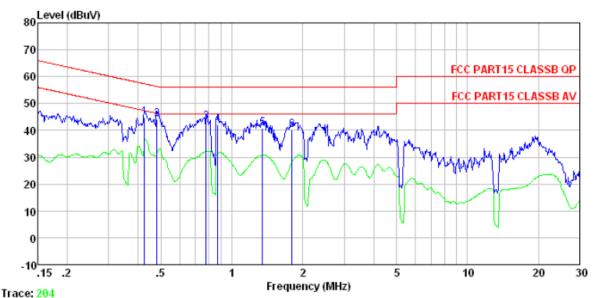
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

	Freq		LISN Factor				Over Limit	Remark
	MHz	dBu∜	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6	0. 484 0. 839 1. 374	42.50 40.68 40.47	0.12 0.14 0.12 0.13	0.11 0.13 0.13 0.15	44. 79 44. 00 42. 77 40. 93 40. 75 38. 03	56. 27 56. 00 56. 00 56. 00	-12. 27 -13. 23 -15. 07 -15. 25	QP QP QP QP



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Test mode: Bluetooth mode	NEUTRAL
---------------------------	---------



Site

: Shielded room

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL Read LISN Cable Limit C

	Freq		Factor				Limit	Remark	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB		
1 2	0.481	44.03	0.06 0.06	0.11	44.20	56.32	-12.12	QP	
3 4 5	0.871	41.94	0.07 0.07 0.09	0.13	42.14	56.00	-13.86	QP	
6	1.800								

Notes:

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



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7.3 Radiated Emission Method

7.3 Radia	3 Radiated Emission Wethod									
Test Re	equirement:	FCC Part15 C S	FCC Part15 C Section 15.209							
Test Me	ethod:	ANSI C63.4:200	03							
Test Fre	equency Range:	30MHz to 25GH	łz							
Test site	e:	Measurement D	Distance: 3m							
Receive	er 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	ency	Limit (dBu\	//m @3m)	Remark				
(Field st	trength of the	2400MHz-24	183.5MHz	94.0		Average Value				
fundam	ental signal)			114.	00	Peak Value				
Limit:		Freque	•	Limit (dBu\	//m @3m)	Remark				
(Spurio	us Emissions)	30MHz-8		40.0		Quasi-peak Value				
` .	,	88MHz-2		43.9 46.0		Quasi-peak Value				
		216MHz-9 960MHz-	Quasi-peak Value Quasi-peak Value							
				00 00	Average Value					
		Above 1	Peak Value							
Limit: (band e	edge)	harmonics, shall	II 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 set	tup:	EUT	4m 4m 0.8m lm		Sea Anto	na Tower arch enna				



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	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters 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:



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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	93.97	27.58	5.39	30.18	96.76	114.00	-17.24	Vertical
2402.00	91.54	27.58	5.39	30.18	94.33	114.00	-19.67	Horizontal
2441.00	93.30	27.55	5.43	30.06	96.22	114.00	-17.78	Vertical
2441.00	91.50	27.55	5.43	30.06	94.42	114.00	-19.58	Horizontal
2480.00	92.09	27.52	5.47	29.93	95.15	114.00	-18.85	Vertical
2480.00	90.17	27.52	5.47	29.93	93.23	114.00	-20.77	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	82.69	27.58	5.39	30.18	85.48	94.00	-8.52	Vertical
2402.00	80.29	27.58	5.39	30.18	83.08	94.00	-10.92	Horizontal
2441.00	82.34	27.55	5.43	30.06	85.26	94.00	-8.74	Vertical
2441.00	80.68	27.55	5.43	30.06	83.60	94.00	-10.40	Horizontal
2480.00	80.84	27.52	5.47	29.93	83.90	94.00	-10.10	Vertical
2480.00	79.07	27.52	5.47	29.93	82.13	94.00	-11.87	Horizontal



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7.3.2 Spurious emissions

■ Below 1GHz

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
40.85	51.71	15.57	0.67	32.05	35.90	40.00	-4.10	Vertical
47.16	52.06	15.42	0.74	31.99	36.23	40.00	-3.77	Vertical
119.02	52.24	12.69	1.35	31.85	34.43	43.50	-9.07	Vertical
140.84	59.62	10.20	1.51	31.95	39.38	43.50	-4.12	Vertical
176.89	59.27	11.49	1.72	32.07	40.41	43.50	-3.09	Vertical
768.75	40.51	21.68	4.35	31.28	35.26	46.00	-10.74	Vertical
43.97	44.23	15.56	0.71	32.02	28.48	40.00	-11.52	Horizontal
78.14	55.74	10.31	1.01	31.78	35.28	40.00	-4.72	Horizontal
145.86	54.23	10.23	1.54	31.97	34.03	43.50	-9.47	Horizontal
177.51	54.40	11.49	1.73	32.07	35.55	43.50	-7.95	Horizontal
297.22	48.18	15.00	2.35	32.18	33.35	46.00	-12.65	Horizontal
906.48	43.13	23.15	4.88	31.18	39.98	46.00	-6.02	Horizontal



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■ 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	42.60	31.78	8.60	32.09	50.89	74.00	-23.11	Vertical
7206.00	32.03	36.15	11.65	32.00	47.83	74.00	-26.17	Vertical
9608.00	31.64	37.95	14.14	31.62	52.11	74.00	-21.89	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	45.95	31.78	8.60	32.09	54.24	74.00	-19.76	Horizontal
7206.00	33.81	36.15	11.65	32.00	49.61	74.00	-24.39	Horizontal
9608.00	31.09	37.95	14.14	31.62	51.56	74.00	-22.44	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	31.36	31.78	8.60	32.09	39.65	54.00	-14.35	Vertical
7206.00	20.68	36.15	11.65	32.00	36.48	54.00	-17.52	Vertical
9608.00	19.74	37.95	14.14	31.62	40.21	54.00	-13.79	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	34.62	31.78	8.60	32.09	42.91	54.00	-11.09	Horizontal
7206.00	22.87	36.15	11.65	32.00	38.67	54.00	-15.33	Horizontal
9608.00	19.49	37.95	14.14	31.62	39.96	54.00	-14.04	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.



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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	41.69	31.85	8.67	32.12	50.09	74.00	-23.91	Vertical
7323.00	31.42	36.37	11.72	31.89	47.62	74.00	-26.38	Vertical
9764.00	31.10	38.35	14.25	31.62	52.08	74.00	-21.92	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	44.85	31.85	8.67	32.12	53.25	74.00	-20.75	Horizontal
7323.00	33.12	36.37	11.72	31.89	49.32	74.00	-24.68	Horizontal
9764.00	30.47	38.35	14.25	31.62	51.45	74.00	-22.55	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	30.63	31.85	8.67	32.12	39.03	54.00	-14.97	Vertical
7323.00	20.18	36.37	11.72	31.89	36.38	54.00	-17.62	Vertical
9764.00	19.30	38.35	14.25	31.62	40.28	54.00	-13.72	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	33.79	31.85	8.67	32.12	42.19	54.00	-11.81	Horizontal
7323.00	22.32	36.37	11.72	31.89	38.52	54.00	-15.48	Horizontal
9764.00	18.98	38.35	14.25	31.62	39.96	54.00	-14.04	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.



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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	40.57	31.93	8.73	32.16	49.07	74.00	-24.93	Vertical
7440.00	30.68	36.59	11.79	31.78	47.28	74.00	-26.72	Vertical
9920.00	30.44	38.81	14.38	31.88	51.75	74.00	-22.25	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	43.50	31.93	8.73	32.16	52.00	74.00	-22.00	Horizontal
7440.00	32.28	36.59	11.79	31.78	48.88	74.00	-25.12	Horizontal
9920.00	29.70	38.81	14.38	31.88	51.01	74.00	-22.99	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	29.74	31.93	8.73	32.16	38.24	54.00	-15.76	Vertical
7440.00	19.58	36.59	11.79	31.78	36.18	54.00	-17.82	Vertical
9920.00	18.76	38.81	14.38	31.88	40.07	54.00	-13.93	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	32.78	31.93	8.73	32.16	41.28	54.00	-12.72	Horizontal
7440.00	21.64	36.59	11.79	31.78	38.24	54.00	-15.76	Horizontal
9920.00	18.35	38.81	14.38	31.88	39.66	54.00	-14.34	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.



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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	45.88	27.59	5.38	30.18	48.67	74.00	-25.33	Horizontal
2400.00	58.10	27.58	5.39	30.18	60.89	74.00	-13.11	Horizontal
2390.00	46.72	27.59	5.38	30.18	49.51	74.00	-24.49	Vertical
2400.00	60.46	27.58	5.39	30.18	63.25	74.00	-10.75	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	35.75	27.59	5.38	30.18	38.54	54.00	-15.46	Horizontal
2400.00	41.17	27.58	5.39	30.18	43.96	54.00	-10.04	Horizontal
2390.00	35.91	27.59	5.38	30.18	38.70	54.00	-15.30	Vertical
2400.00	43.16	27.58	5.39	30.18	45.95	54.00	-8.05	Vertical

Test channel:	Highest channel
	9

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	48.34	27.53	5.47	29.93	51.41	74.00	-22.59	Horizontal
2500.00	46.94	27.55	5.49	29.93	50.05	74.00	-23.95	Horizontal
2483.50	49.68	27.53	5.47	29.93	52.75	74.00	-21.25	Vertical
2500.00	48.23	27.55	5.49	29.93	51.34	74.00	-22.66	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	38.61	27.53	5.47	29.93	41.68	54.00	-12.32	Horizontal
2500.00	36.19	27.55	5.49	29.93	39.30	54.00	-14.70	Horizontal
2483.50	40.08	27.53	5.47	29.93	43.15	54.00	-10.85	Vertical
2500.00	36.36	27.55	5.49	29.93	39.47	54.00	-14.53	Vertical

Remark:

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



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7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215			
Test Method:	ANSI C63.4:2003			
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

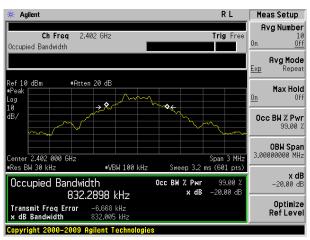
Worst case GFSK modulation

Test channel	20dB bandwidth(kHz)	Result
Lowest	832.005	Pass
Middle	832.237	Pass
Highest	833.488	Pass

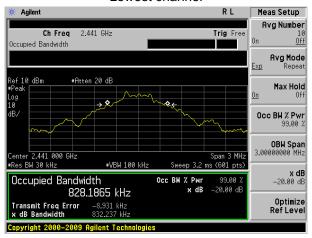
Test plot as follows:



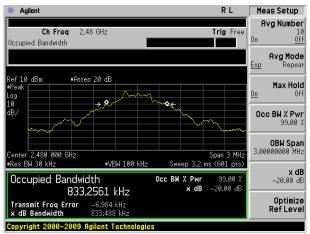
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Lowest channel



Middle channel



Highest channel

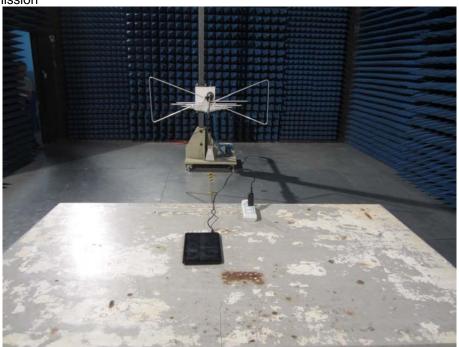


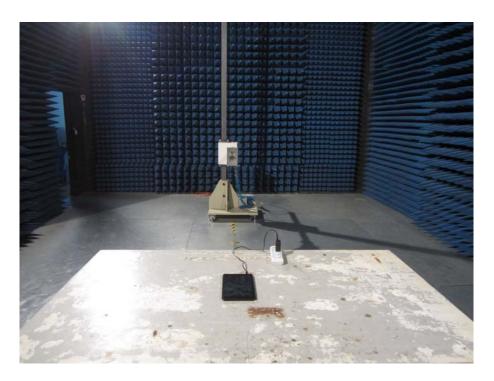
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8 Test Setup Photo

Radiated Emission







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Conducted Emission



9 EUT Constructional Details

Reference to the test report No. EBO1411112-E291

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