

TEST REPORT

Applicant: Particle Industries, Inc.

EUT Description: Tachyon

Model: TACH4ROW, TACH8ROW

Brand: Particle

Standards: ETSI EN 300 328 V2.2.2

Date of Receipt: 2025/06/25

Date of Test: 2025/06/25 to 2025/08/27

Date of Issue: 2025/08/28

TOWE tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

the results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of the model are manufactured with identical electrical and mechanical components. All sample tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise. without written approval of TOWE, the test report shall not be reproduced except in full.



Jim Huang
Approved By:



Carey Chen
Reviewed By:

Revision History

Rev.	Issue Date	Description	Revised by
01	2025/08/28	Original	Carey Chen

Summary of Test Results

Test Item	Test Requirement	Test Method	Result
Geo-location capability	Clause 4.3.2.12	Clause 4.3.2.12	Reference report 2406RSU046-E7
RF Output Power	Clause 4.3.2.2	Clause 5.4.2.2.1.2	
Power Spectral Density	Clause 4.3.2.3	Clause 5.4.3.2.1	
Occupied Channel Bandwidth	Clause 4.3.2.7	Clause 5.4.7.2.1	
Transmitter unwanted emissions in the out-of-band domain	Clause 4.3.2.8	Clause 5.4.8.2.1	
Receiver Blocking	Clause 4.3.2.11	Clause 5.4.11.2	
Adaptivity	Clause 4.3.2.6	Clause 5.4.6.2	
Transmitter unwanted emissions in the spurious domain	Clause 4.3.2.9	Clause 5.4.9.2	Pass
Receiver spurious emissions	Clause 4.3.2.10	Clause 5.4.10.2	Pass

Remark: In this report the Radiated Spurious Emissions was tested, and the other data please refer to the previous report with report number 2406RSU046-E7 issued by MRT Technology (Suzhou) Co., Ltd.

Reference data from antenna 1, Antenna 2 is shielded through software.

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1 General Description

1.1 Lab Information

1.1.1 Testing Location

These measurements tests were conducted at the Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. facility located at F401 and F101, Building E, Hongwei Industrial Zone, Liuxian 3rd Road, Bao'an District, Shenzhen, China.

Tel.: +86-755-27212361

Contact Email: info@towewireless.com

1.1.2 Test Facility / Accreditations

A2LA (Certificate Number: 7088.01)

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

FCC Designation No.: CN1353

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized as an accredited testing laboratory. Designation Number: CN1353.

ISED CAB identifier: CN0152

Sushi TOWE Wireless Testing(Shenzhen) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0152

Company Number: 31000

1.2 Client Information

1.2.1 Applicant

Applicant:	Particle Industries, Inc.
Address:	548 Market St, PMB 34833, San Francisco, CA 94104, USA

1.2.2 Manufacturer

Manufacturer:	Particle Industries, Inc.
Address:	548 Market St, PMB 34833, San Francisco, CA 94104, USA

1.3 Product Information

EUT Description:	Tachyon		
Model:	TACH4ROW, TACH8ROW		
Brand:	Particle		
Hardware Version:	V1.2		
Software Version:	1.0.160		
IMEI:	863174060029047		
Modulation Type:	802.11b:	DSSS-DBPSK, DQPSK, CCK	
	802.11g/n:	OFDM-BPSK, QPSK, 16QAM, 64QAM	
	802.11ax:	OFDM/OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n/ax	/
	<input type="checkbox"/> MIMO	802.11n/ax	()TX()RX
	<input type="checkbox"/> CDD	802.11b/g	()TX()RX
Frequency Range:	2400 ~ 2483.5MHz		
Channel Frequency:	20M bandwidth Channel: 2412 ~ 2472MHz 40M bandwidth Channel: 2422 ~ 2462MHz		
Channel Number:	13:	802.11b/g/n20/ax20	
	9:	802.11n40/ax40	
Receiver Category:	<input checked="" type="checkbox"/> Receiver Category 1	<input type="checkbox"/> Receiver Category 2	<input type="checkbox"/> Receiver Category 3
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated		
Antenna Gain:	Ant (dBi)		
	-0.3		
Remark:	<p>1. The above EUT's information was declared by applicant, please refer to the specifications or user's manual for more detailed description.</p> <p>2. According to the customer's Letter of model difference, TACH4ROW and TACH8ROW are identical with each other, except for RAM and model number difference.</p>		

2 Test Configuration

2.1 Standards Specification

Reference Standards	Standards Title
ETSI EN 300 328 V2.2.2	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum

2.2 Test Channel

Modulation Type	Test Channel	Test Frequency
802.11b/g/n20 /ax20	The Lowest channel (CH1)	2412MHz
	The Middle channel (CH7)	2442MHz
	The Highest channel (CH13)	2472MHz
Modulation Type	Test Channel	Test Frequency
802.11n40/ax40	The Lowest channel (CH3)	2422MHz
	The Middle channel (CH7)	2442MHz
	The Highest channel (CH11)	2462MHz

2.3 Test Mode

Modulation Type	SISO - Data Rate	CDD/MIMO()TX()RX Data Rate
802.11b	1 Mbps	N/A
802.11g	6 Mbps	N/A
802.11n20	MCS0 (6.5 Mbps)	N/A
802.11n40	MCS0 (13.5 Mbps)	N/A
802.11ax20	MCS0 (8.6 Mbps)	N/A
802.11ax40	MCS0 (17.2 Mbps)	N/A
Transmitting mode:	Keep the EUT was programmed to be in continuously transmitting mode.	
Normal Link:	Keep the EUT operation to normal function.	

2.4 Test Environment

Relative Humidity	45-56 % RH Ambient	
Condition	Temperature(°C)	Voltage(V)
NTNV	25	4.00
LTVN	-20	4.00
HTVN	60	4.00

Remark:

NTNV Normal Temperature Normal Voltage
LTVN Low Temperature Normal Voltage
HTVN High Temperature Normal Voltage

2.5 Support Unit used in test

The EUT has been tested as an independent unit.

2.6 Test RF Cable

For all conducted test items: The offset level is set spectrum analyzer to compensate the RF cable loss and attenuator factor between RF conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level will be exactly the RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

2.7 Modifications

No modifications were made during testing.

3 Equipment and Measurement Uncertainty

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, whichever is less, and where applicable is traceable to recognized national standards.

3.1 Test Equipment List

Radiated Emission					
Description	Manufacturer	Model	S.N.	Last Due	Cal Due
Biconic Logarithmic Periodic Antennas	Schwarzbeck	VULB9163	1461	2023/06/25	2026/06/24
Double-Ridged Horn Antennas	Schwarzbeck	BBHA 9120D	2814	2023/06/25	2026/06/24
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	1291	2023/06/25	2026/06/24
Signal Analyzer	Keysight	N9020A	US46470366	2025/03/11	2026/03/10
Low Noise Amplifier	Tonscend	TAP9K3G40	AP23A8060274	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP01018050	AP23A8060268	2025/03/11	2027/03/10
Low Noise Amplifier	Tonscend	TAP18040048	AP22G806249	2025/03/11	2027/03/10
Band Reject Filter Group	Tonscend	JS0806-F	23A806F0654	N/A	N/A
Test Software	Tonscend	TS+	Version: 5.0.0	N/A	N/A

3.2 Measurement Uncertainty

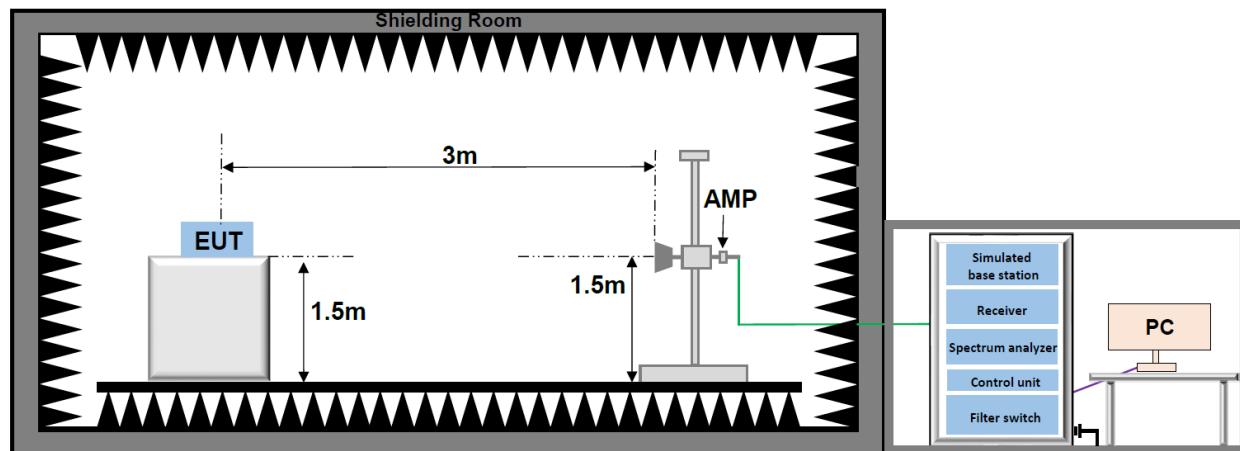
Parameter	U _{lab}
Radiation 30MHz~1GHz(FAR)	4.48dB
Radiation 1GHz~18GHz(FAR)	5.30dB
Radiation 18GHz~40GHz(FAR)	5.26dB

Uncertainty figures are valid to a confidence level of 95%

4 Test Results

4.1 Transmitter unwanted emissions in the spurious domain

Test Requirement:	ETSI EN 300 328 Clause 4.3.2.9																																			
Test Method:	ETSI EN 300 328 Clause 5.4.9.2																																			
Measurement Distance:	3m																																			
Limit:	Table 1: Transmitter limits for spurious emissions <table border="1"> <thead> <tr> <th>Frequency range</th> <th>Maximum power, e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz)</th> <th>Bandwidth</th> </tr> </thead> <tbody> <tr> <td>30 MHz to 47 MHz</td><td>-36dBm</td><td>100 kHz</td> </tr> <tr> <td>47 MHz to 74 MHz</td><td>-54dBm</td><td>100 kHz</td> </tr> <tr> <td>74 MHz to 87,5 MHz</td><td>-36dBm</td><td>100 kHz</td> </tr> <tr> <td>87,5 MHz to 118 MHz</td><td>-54dBm</td><td>100 kHz</td> </tr> <tr> <td>118 MHz to 174 MHz</td><td>-36dBm</td><td>100 kHz</td> </tr> <tr> <td>174 MHz to 230 MHz</td><td>-54dBm</td><td>100 kHz</td> </tr> <tr> <td>230 MHz to 470 MHz</td><td>-36dBm</td><td>100 kHz</td> </tr> <tr> <td>470 MHz to 694 MHz</td><td>-54dBm</td><td>100 kHz</td> </tr> <tr> <td>694 MHz to 1 GHz</td><td>-36dBm</td><td>100 kHz</td> </tr> <tr> <td>1 GHz to 12,75 GHz</td><td>-30dBm</td><td>1MHz</td> </tr> </tbody> </table>			Frequency range	Maximum power, e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz)	Bandwidth	30 MHz to 47 MHz	-36dBm	100 kHz	47 MHz to 74 MHz	-54dBm	100 kHz	74 MHz to 87,5 MHz	-36dBm	100 kHz	87,5 MHz to 118 MHz	-54dBm	100 kHz	118 MHz to 174 MHz	-36dBm	100 kHz	174 MHz to 230 MHz	-54dBm	100 kHz	230 MHz to 470 MHz	-36dBm	100 kHz	470 MHz to 694 MHz	-54dBm	100 kHz	694 MHz to 1 GHz	-36dBm	100 kHz	1 GHz to 12,75 GHz	-30dBm	1MHz
Frequency range	Maximum power, e.r.p. (≤ 1 GHz) e.i.r.p. (> 1 GHz)	Bandwidth																																		
30 MHz to 47 MHz	-36dBm	100 kHz																																		
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174 MHz to 230 MHz	-54dBm	100 kHz																																		
230 MHz to 470 MHz	-36dBm	100 kHz																																		
470 MHz to 694 MHz	-54dBm	100 kHz																																		
694 MHz to 1 GHz	-36dBm	100 kHz																																		
1 GHz to 12,75 GHz	-30dBm	1MHz																																		
Test Environment:	Refer to section 2.4.																																			
Measuring Instruments:	Refer to section 3.1																																			
Test Procedure:	<ol style="list-style-type: none"> The test distance between the receiving antenna and the EUT is 4.6m below 1GHz frequency range, and 3m which is in far field test condition for measured frequency above 1GHz, while the receiving (test) antenna scanning 1.5m height. The EUT was placed on a turntable with 1.5m height (FAR). Set EUT in continuous transmitting with maximum output power. The table was rotated from 0 to 360 degree to search the highest radiated emission. Repeat above step for each polarization and channel to find the worst emission level. The results obtained are compared to the limits in order to prove compliance with the requirement. 																																			
Test Setup:	<p>The diagram illustrates the test setup within a 'Shielding Room'. The EUT (Equipment Under Test) is a grey rectangular device mounted on a turntable, positioned at a height of 1.5m. A receiving antenna, consisting of a vertical whip and a directional horn, is located 4.6m away from the EUT. The entire setup is situated on a turntable at a height of 1.5m. The receiving antenna is connected via a coaxial cable to an 'AMP' (Amplifier). The system is labeled 'Below 1GHz' at the bottom. To the right, a control unit is shown with various components: 'Simulated base station', 'Receiver', 'Spectrum analyzer', 'Control unit', and 'Filter switch', all connected to a central 'PC' (Personal Computer).</p>																																			



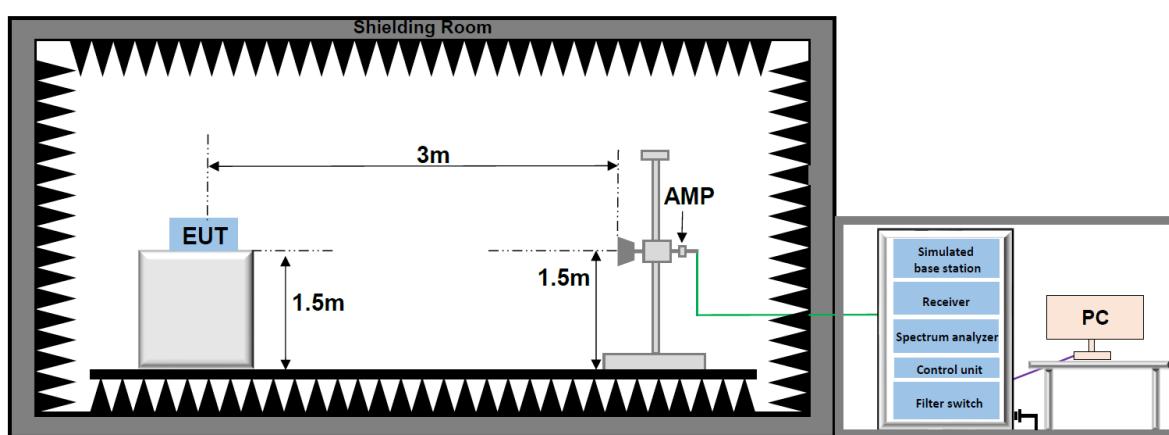
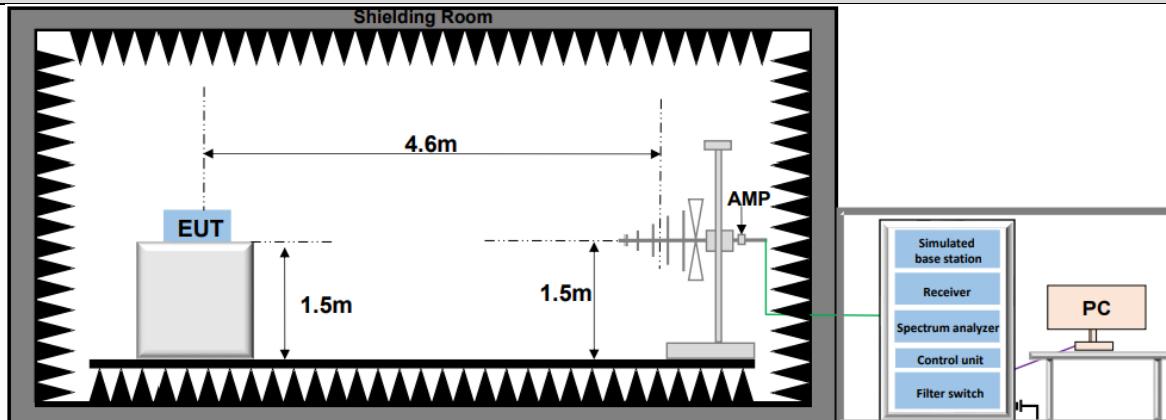
Above 1GHz

Test Result:	Appendix
Remark:	Transmitter unwanted emissions in the spurious domain were performed with the EUT set to transmit at the worst-case mode/channel based on power and PSD.

4.2 Receiver spurious emissions

Test Requirement:	ETSI EN 300 328 Clause 4.3.2.10	
Test Method:	ETSI EN 300 328 Clause 5.4.10.2	
Measurement Distance:	3m	
Limit:	The spurious emissions of the receiver shall not exceed the values in tables in the indicated bands:	
Frequency Range	Limit	
30MHz to 1GHz	-57dBm	
Above 1GHz	-47dBm	
Test Environment:	Refer to section 2.4.	
Measuring Instruments:	Refer to section 3.1	
Test Procedure:	<ol style="list-style-type: none"> The test distance between the receiving antenna and the EUT is 4.6m below 1GHz frequency range, and 3m which is in far field test condition for measured frequency above 1GHz, while the receiving (test) antenna scanning 1.5m height. The EUT was placed on a turntable with 1.5m height (FAR). Set EUT in continuous transmitting with maximum output power. The table was rotated from 0 to 360 degree to search the highest radiated emission. Repeat above step for each polarization and channel to find the worst emission level. The results obtained are compared to the limits in order to prove compliance with the requirement. 	

Test Setup:



Test Result:	Appendix
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5 Test Setup Photos

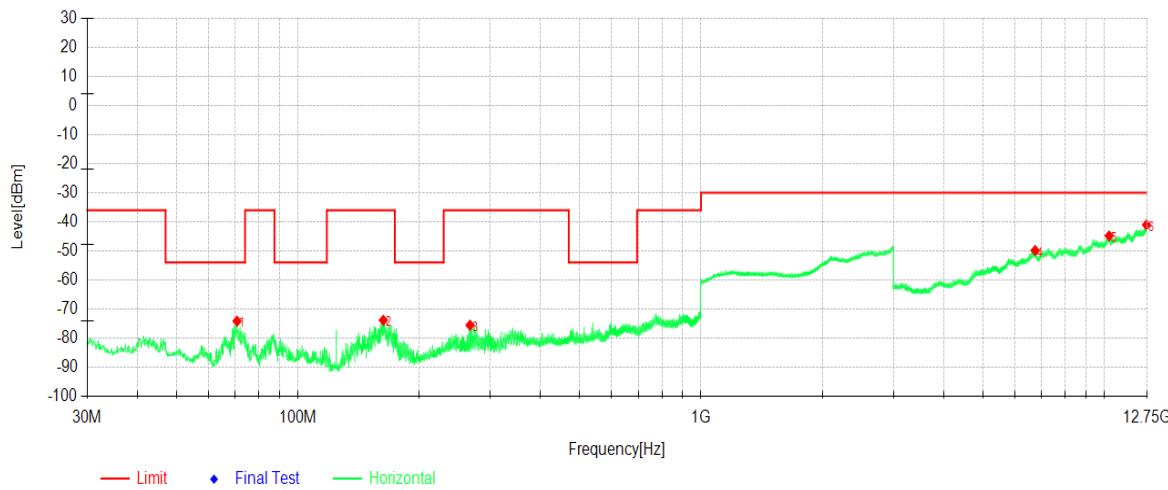


Appendix

Transmitter unwanted emissions in the spurious domain

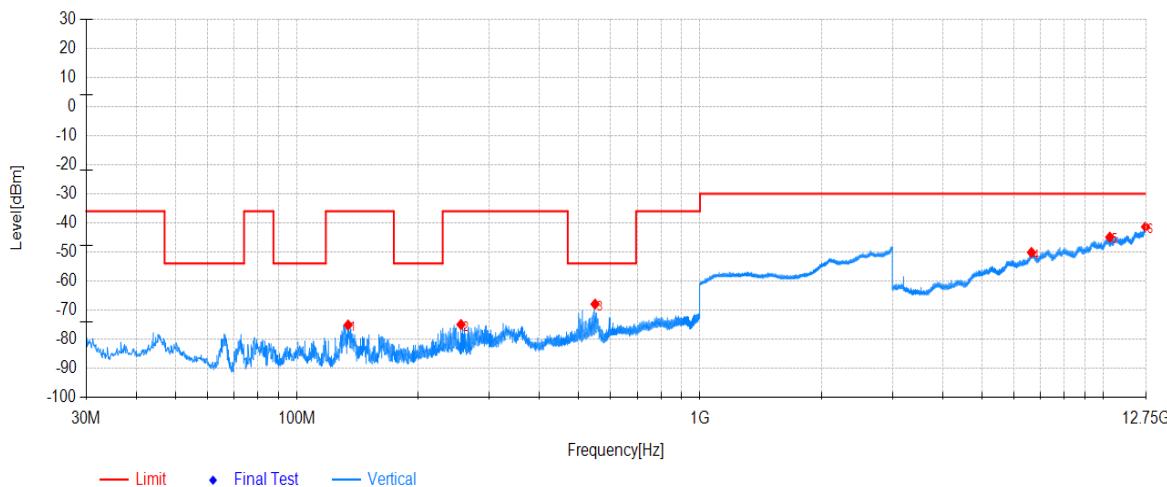
Project Information			
Mode:	802.11b	Band:	-
Bandwidth:	-	Channel:	Low
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph



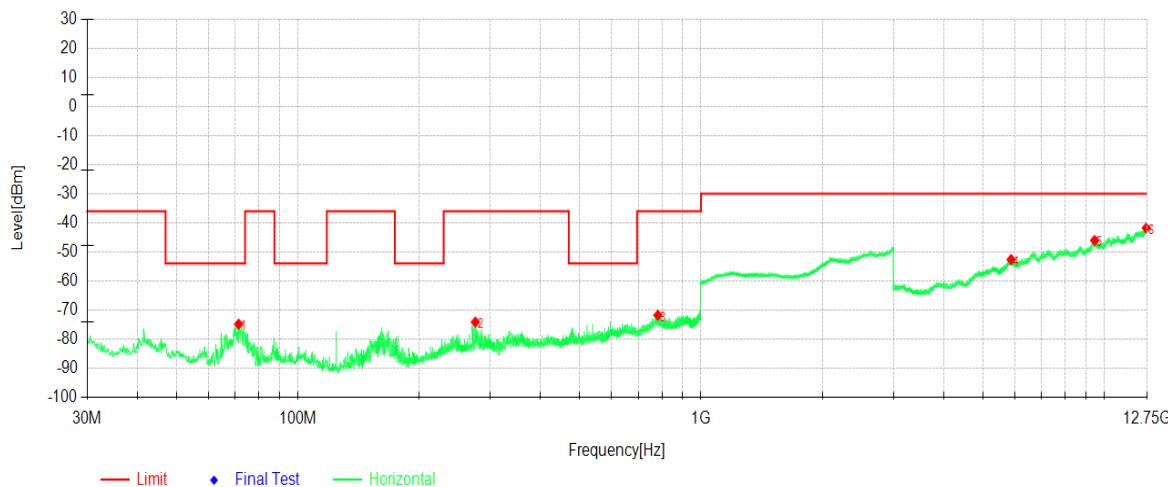
Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	70.65	-56.10	-74.18	-54.00	20.18	-18.08	Horizontal
2	162.90	-56.82	-73.86	-36.00	37.86	-17.04	Horizontal
3	267.29	-65.01	-75.58	-36.00	39.58	-10.57	Horizontal
4	6738.64	-58.49	-49.84	-30.00	19.84	8.65	Horizontal
5	10287.15	-59.53	-44.84	-30.00	14.84	14.69	Horizontal
6	12731.96	-57.57	-41.02	-30.00	11.02	16.55	Horizontal

Project Information			
Mode:	802.11b	Band:	-
Bandwidth:	-	Channel:	Low
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph

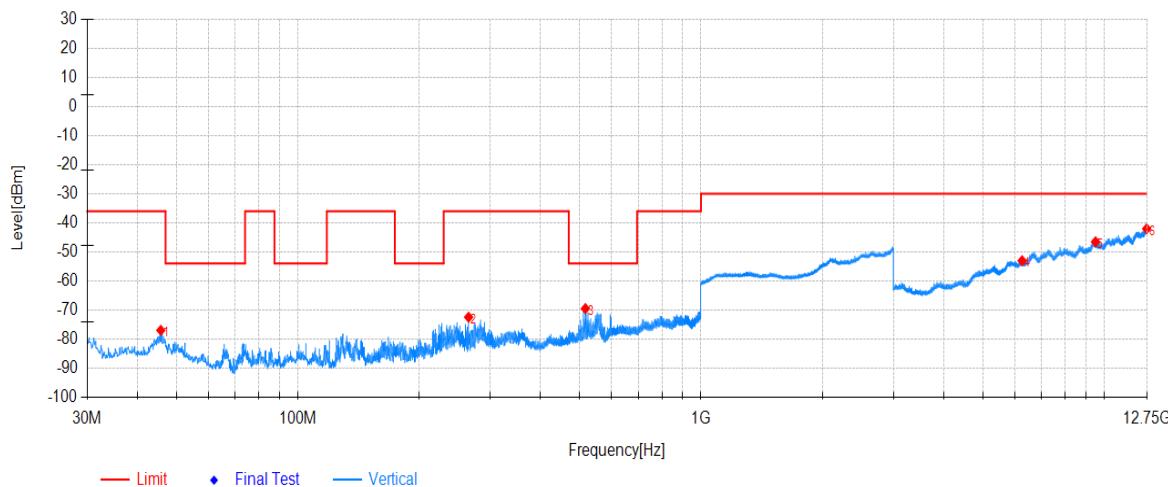
Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	133.99	-58.54	-75.16	-36.00	39.16	-16.62	Vertical
2	255.35	-63.31	-75.00	-36.00	39.00	-11.69	Vertical
3	549.20	-63.85	-67.96	-54.00	13.96	-4.11	Vertical
4	6638.70	-58.68	-50.19	-30.00	20.19	8.49	Vertical
5	10389.04	-58.44	-44.94	-30.00	14.94	13.50	Vertical
6	12735.86	-58.12	-41.37	-30.00	11.37	16.75	Vertical

Project Information			
Mode:	802.11b	Band:	-
Bandwidth:	-	Channel:	High
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph

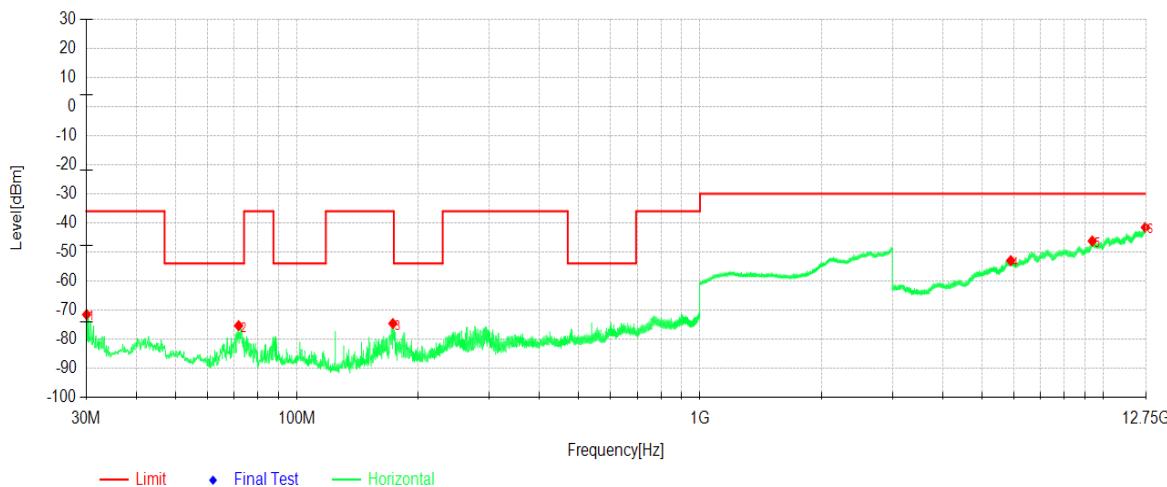
Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	71.33	-56.58	-74.87	-54.00	20.87	-18.29	Horizontal
2	275.63	-63.37	-74.17	-36.00	38.17	-10.80	Horizontal
3	781.63	-72.81	-71.80	-36.00	35.80	1.01	Horizontal
4	5878.20	-58.01	-52.63	-30.00	22.63	5.38	Horizontal
5	9468.15	-59.52	-46.06	-30.00	16.06	13.46	Horizontal
6	12715.88	-58.30	-41.82	-30.00	11.82	16.48	Horizontal

Project Information			
Mode:	802.11b	Band:	-
Bandwidth:	-	Channel:	High
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph

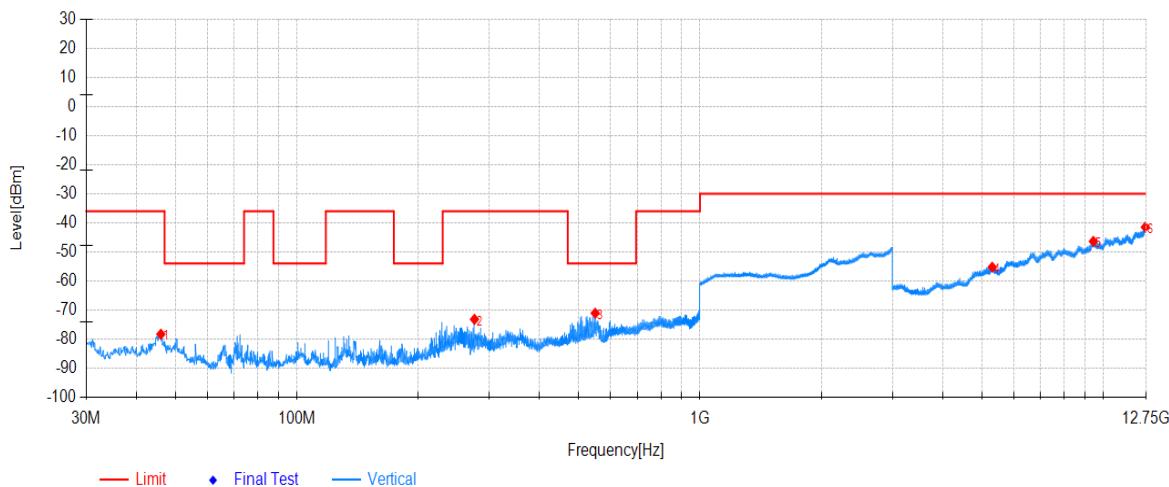
Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	45.72	-65.71	-76.99	-36.00	40.99	-11.28	Vertical
2	265.15	-60.47	-72.48	-36.00	36.48	-12.01	Vertical
3	516.60	-64.44	-69.51	-54.00	15.51	-5.07	Vertical
4	6256.99	-58.33	-53.04	-30.00	23.04	5.29	Vertical
5	9516.90	-60.07	-46.54	-30.00	16.54	13.53	Vertical
6	12743.18	-58.81	-42.04	-30.00	12.04	16.77	Vertical

Project Information			
Mode:	802.11g	Band:	-
Bandwidth:	-	Channel:	Low
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph

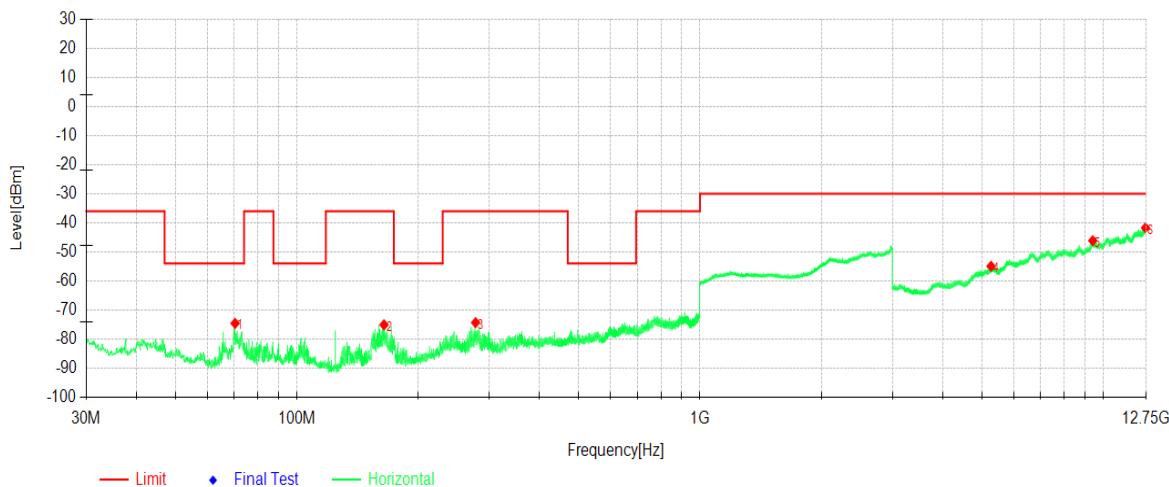
Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.10	-60.58	-71.55	-36.00	35.55	-10.97	Horizontal
2	71.71	-56.98	-75.39	-54.00	21.39	-18.41	Horizontal
3	173.09	-58.41	-74.66	-36.00	38.66	-16.25	Horizontal
4	5897.21	-58.45	-53.00	-30.00	23.00	5.45	Horizontal
5	9395.51	-59.66	-46.26	-30.00	16.26	13.40	Horizontal
6	12724.16	-58.09	-41.57	-30.00	11.57	16.52	Horizontal

Project Information			
Mode:	802.11g	Band:	-
Bandwidth:	-	Channel:	Low
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph

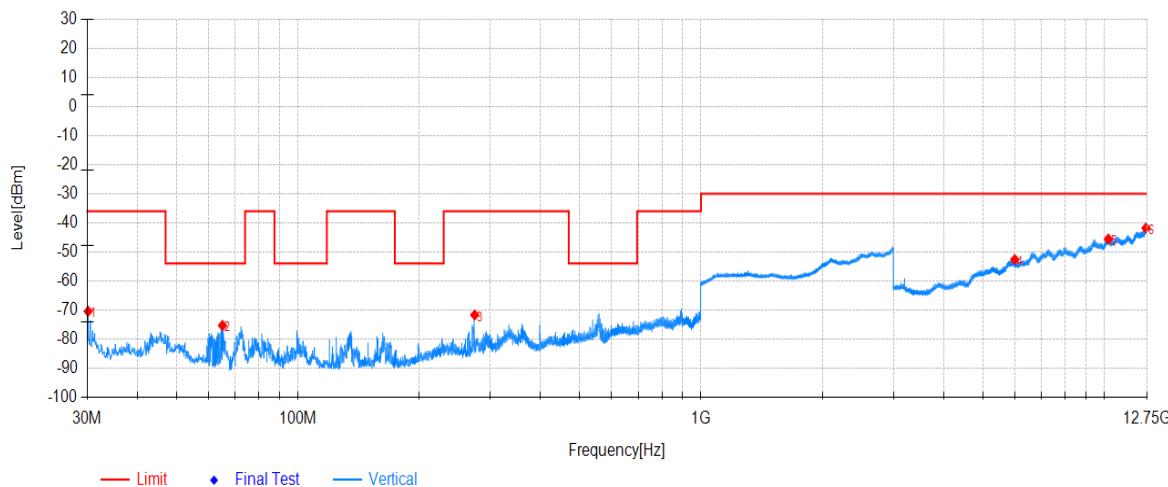
Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	46.01	-67.08	-78.33	-36.00	42.33	-11.25	Vertical
2	275.82	-61.06	-73.21	-36.00	37.21	-12.15	Vertical
3	549.49	-67.00	-71.10	-54.00	17.10	-4.10	Vertical
4	5304.41	-58.37	-55.25	-30.00	25.25	3.12	Vertical
5	9451.09	-59.84	-46.38	-30.00	16.38	13.46	Vertical
6	12718.80	-58.20	-41.50	-30.00	11.50	16.70	Vertical

Project Information			
Mode:	802.11g	Band:	-
Bandwidth:	-	Channel:	High
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph

Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	70.26	-56.63	-74.60	-54.00	20.60	-17.97	Horizontal
2	164.46	-58.20	-75.09	-36.00	39.09	-16.89	Horizontal
3	277.47	-63.51	-74.33	-36.00	38.33	-10.82	Horizontal
4	5270.29	-57.96	-54.94	-30.00	24.94	3.02	Horizontal
5	9418.91	-59.61	-46.15	-30.00	16.15	13.46	Horizontal
6	12731.96	-58.27	-41.72	-30.00	11.72	16.55	Horizontal

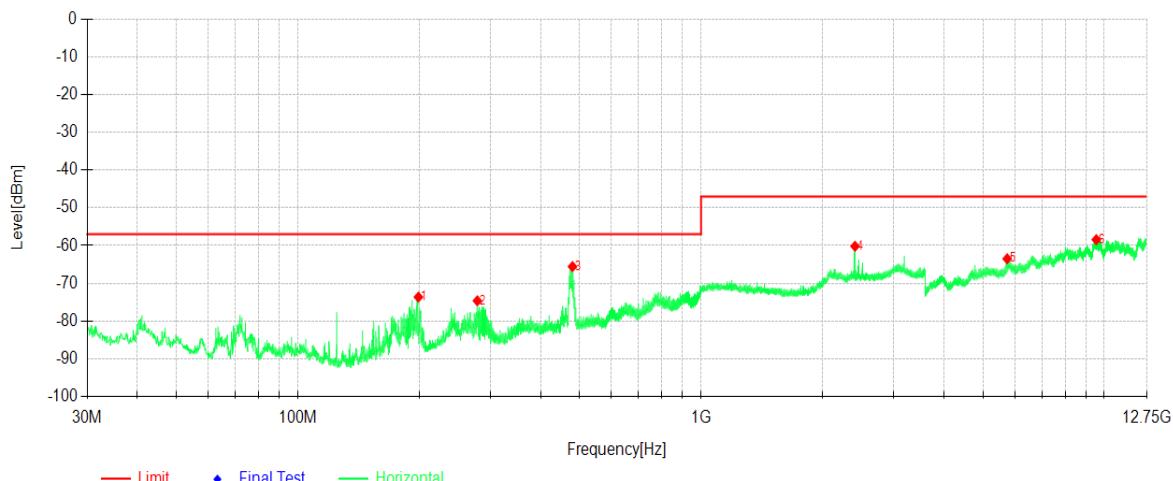
Project Information			
Mode:	802.11g	Band:	--
Bandwidth:	-	Channel:	High
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph

Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	30.19	-57.54	-70.44	-36.00	34.44	-12.90	Vertical
2	65.02	-58.70	-75.32	-54.00	21.32	-16.62	Vertical
3	274.56	-59.52	-71.70	-36.00	35.70	-12.18	Vertical
4	5999.10	-58.15	-52.64	-30.00	22.64	5.51	Vertical
5	10240.35	-59.76	-45.59	-30.00	15.59	14.17	Vertical
6	12692.48	-58.36	-41.83	-30.00	11.83	16.53	Vertical

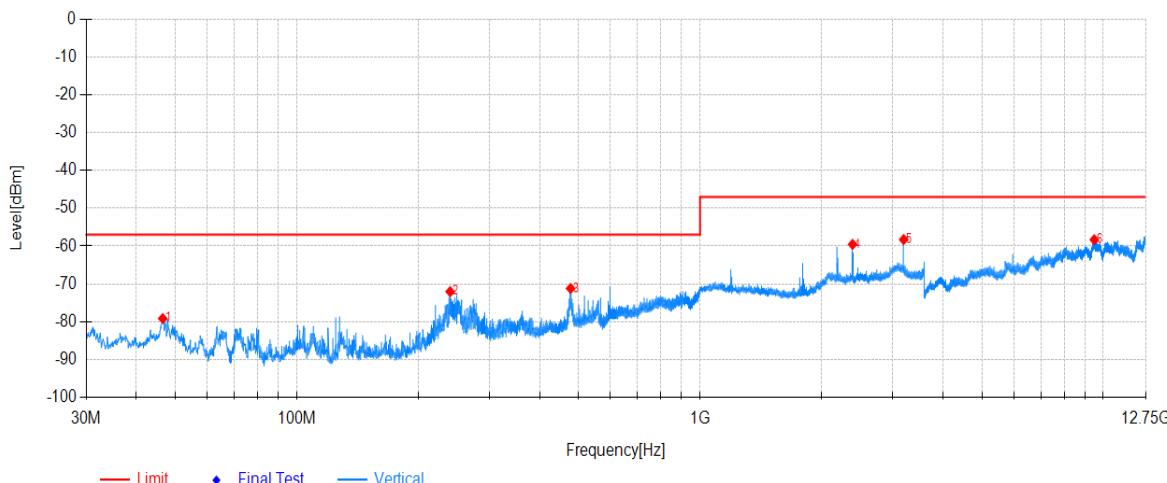
Receiver spurious emissions (Worst case)

Project Information			
Mode:	802.11b	Band:	-
Bandwidth:	-	Channel:	Low
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph

Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	199.09	-59.63	-73.66	-57.00	16.66	-14.03	Horizontal
2	278.73	-63.79	-74.63	-57.00	17.63	-10.84	Horizontal
3	479.93	-59.42	-65.58	-57.00	8.58	-6.16	Horizontal
4	2409.66	-53.13	-60.18	-47.00	13.18	-7.05	Horizontal
5	5744.42	-67.93	-63.50	-47.00	16.50	4.43	Horizontal
6	9561.34	-71.67	-58.43	-47.00	11.43	13.24	Horizontal

Project Information			
Mode:	802.11b	Band:	-
Bandwidth:	-	Channel:	Low
IMEI:	863174060029047	Engineer:	Zhang Weizhi
Remark:			

Test Graph

Data List							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	46.49	-67.98	-79.18	-57.00	22.18	-11.20	Vertical
2	240.03	-59.75	-72.05	-57.00	15.05	-12.30	Vertical
3	477.51	-65.14	-71.21	-57.00	14.21	-6.07	Vertical
4	2390.07	-51.74	-59.55	-47.00	12.55	-7.81	Vertical
5	3200.07	-54.87	-58.27	-47.00	11.27	-3.40	Vertical
6	9502.98	-71.97	-58.31	-47.00	11.31	13.66	Vertical

~The End~