FCC REPORT

Applicant:	Skyrocket Toys, LLC
Address of Applicant:	606 Venice Blvd, Suite D, Venice, CA 90291, U.S.A
Equipment Under Test (EUT)	
Product Name:	Prank Star RC Mega Fart
Model No.:	01353
FCC ID:	O5301353TX24G
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249:2013
Date of sample receipt:	April 23, 2014
Date of Test:	April 23-May 4, 2014
Date of report issued:	May 4, 2014
Test Result :	PASS *

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

Authorized Signature:

Robinson Lo
Laboratory Manager

2 Version

Version No.	Date	Description
00	*May 4, 2014*	*Original*

Prepared By:  ***Date:*** *May 4, 2014*

Project Engineer

Check By:  ***Date:*** *May 4, 2014*

Reviewer

3 Contents

4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	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.

5 General Information

5.1 Client Information

Applicant:	Skyrocket Toys, LLC
Address of Applicant:	606 Venice Blvd, Suite D, Venice, CA 90291, U.S.A
Manufacturer:	Skyrocket Toys, LLC
Address of Manufacturer:	606 Venice Blvd, Suite D, Venice, CA 90291, U.S.A
Factory:	Guangzhou Spinmark Electronics Technology Co., Ltd
Address of factory:	1/F & 2/F, Block A, 64 Songshan Road, Shilou Town, Panyu District Guangzhou, China

5.2 General Description of E.U.T.

Product Name:	Prank Star RC Mega Fart
Model No.:	01353
Operation Frequency:	See the below operation frequency list
Modulation technology:	GFSK
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	DC 3.0V(2 x ”LR44”Size)

Operation Frequency List			
Channel	Frequency	Channel	Frequency
1	2405MHz	6	2435MHz
2	2409MHz	7	2441MHz
3	2415MHz	8	2457MHz
4	2422MHz	9	2462MHz
5	2428MHz	10	2468MHz

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, see the above shade frequency.

5.3 Test mode

Transmitting mode	Keep the EUT in transmitting mode.

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)	76.82	83.16	78.49

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)

6 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
- **Industry Canada (IC)**
  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.

6.1 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
Tel: 0755-27798480
Fax: 0755-27798960

7 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. 30 2013	Mar. 29 2015
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 03 2013	Jul. 02 2014
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jul. 03 2013	Jul. 02 2014
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	Jul. 03 2013	Jul. 02 2014
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Jul. 03 2013	Jul. 02 2014
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Jul. 03 2013	Jul. 02 2014
9	Coaxial Cable	GTS	N/A	GTS211	Jul. 03 2013	Jul. 02 2014
10	Coaxial cable	GTS	N/A	GTS210	Jul. 03 2013	Jul. 02 2014
11	Coaxial Cable	GTS	N/A	GTS212	Jul. 03 2013	Jul. 02 2014
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 03 2013	Jul. 02 2014
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 03 2013	Jul. 02 2014
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Jul. 03 2013	Jul. 02 2014
15	Band filter	Amindeon	82346	GTS219	Jul. 03 2013	Jul. 02 2014

8 Test results and Measurement Data

8.1 Antenna requirement:

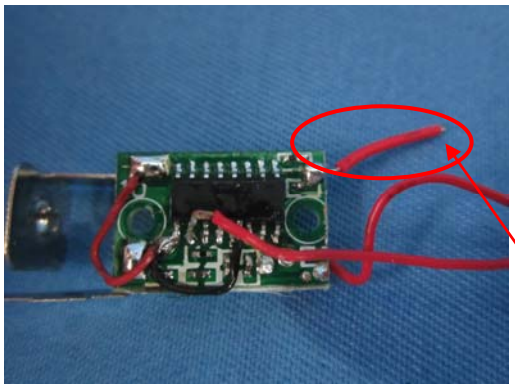
Standard requirement:	FCC Part15 C Section 15.203 /247(c)

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.

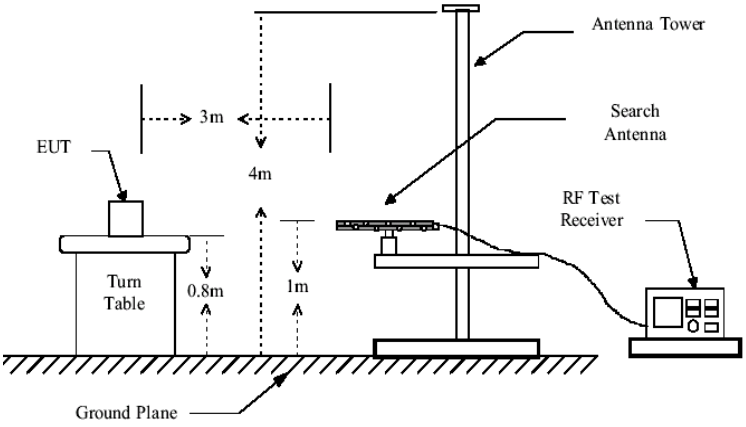
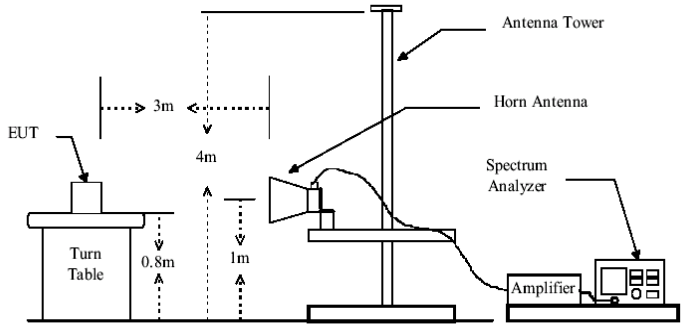
E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2dBi



8.2 Radiated Emission Method

<table>
<tr><td>Test Requirement:</td><td>FCC Part15 C Section 15.209</td></tr>
<tr><td>Test Method:</td><td>ANSI C63.4:2003</td></tr>
<tr><td>Test Frequency Range:</td><td>30MHz to 25GHz</td></tr>
<tr><td>Test site:</td><td>Measurement Distance: 3m</td></tr>
<tr><td>Receiver setup:</td><td>
<table>
<tr><th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Value</th></tr>
<tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120KHz</td><td>300KHz</td><td>Quasi-peak</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak</td></tr>
<tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average</td></tr>
</table>
</td></tr>
<tr><td>Limit:
(Field strength of the fundamental signal)</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Value</th></tr>
<tr><td rowspan="2">2400MHz-2483.5MHz</td><td>94.00</td><td>Average</td></tr>
<tr><td>114.00</td><td>Peak</td></tr>
</table>
</td></tr>
<tr><td>Limit:
(Spurious Emissions)</td><td>
<table>
<tr><th>Frequency</th><th>Limit (dBuV/m @3m)</th><th>Value</th></tr>
<tr><td>30MHz-88MHz</td><td>40.00</td><td>Quasi-peak</td></tr>
<tr><td>88MHz-216MHz</td><td>43.50</td><td>Quasi-peak</td></tr>
<tr><td>216MHz-960MHz</td><td>46.00</td><td>Quasi-peak</td></tr>
<tr><td>960MHz-1GHz</td><td>54.00</td><td>Quasi-peak</td></tr>
<tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average</td></tr>
<tr><td>74.00</td><td>Peak</td></tr>
</table>
</td></tr>
<tr><td>Limit:
(band edge)</td><td>Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.</td></tr>
<tr><td>Test Procedure:</td><td>
1. 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.
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
</td></tr>
</table>

	sheet.
Test setup:	Below 1GHz  Above 1GHz 
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:

8.2.1 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
2405.00	84.18	27.57	5.40	33.99	83.16	114.00	-30.84	Horizontal
2405.00	78.91	27.57	5.40	33.99	77.89	114.00	-36.11	Vertical
2435.00	83.74	27.48	5.43	33.96	82.69	114.00	-31.31	Horizontal
2435.00	77.51	27.48	5.43	33.96	76.46	114.00	-37.54	Vertical
2468.00	83.42	27.50	5.46	33.92	82.46	114.00	-31.54	Horizontal
2468.00	77.53	27.50	5.46	33.92	76.57	114.00	-37.43	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
2405.00	75.56	27.57	5.40	33.99	74.54	94.00	-19.46	Horizontal
2405.00	69.81	27.57	5.40	33.99	68.79	94.00	-25.21	Vertical
2435.00	74.36	27.48	5.43	33.96	73.31	94.00	-20.69	Horizontal
2435.00	68.78	27.48	5.43	33.96	67.73	94.00	-26.27	Vertical
2468.00	75.18	27.50	5.46	33.92	74.22	94.00	-19.78	Horizontal
2468.00	69.27	27.50	5.46	33.92	68.31	94.00	-25.69	Vertical

Note: For fundamental frequency, RBW=2MHz, VBW =6MHz, peak detector for PK value and AV detector for AV value.

8.2.2 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
68.15	36.87	13.36	0.93	31.89	19.27	40.00	-20.73	Vertical
96.78	36.90	16.05	1.17	31.75	22.37	43.50	-21.13	Vertical
195.82	43.62	13.57	1.82	32.13	26.88	43.50	-16.62	Vertical
218.31	46.03	14.17	1.95	32.15	30.00	46.00	-16.00	Vertical
472.18	36.97	17.95	3.19	31.64	26.47	46.00	-19.53	Vertical
576.64	38.18	20.09	3.63	31.15	30.75	46.00	-15.25	Vertical
68.15	39.53	13.36	0.93	31.89	21.93	40.00	-18.07	Horizontal
96.78	36.00	16.05	1.17	31.75	21.47	43.50	-22.03	Horizontal
220.62	34.15	14.26	1.96	32.15	18.22	46.00	-27.78	Horizontal
303.54	37.50	16.12	2.38	32.17	23.83	46.00	-22.17	Horizontal
472.18	35.06	17.95	3.19	31.64	24.56	46.00	-21.44	Horizontal
848.06	29.94	23.55	4.65	31.25	26.89	46.00	-19.11	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
4810.00	49.03	31.79	8.61	32.09	57.34	74.00	-16.66	Vertical
7215.00	37.51	36.19	11.66	31.99	53.37	74.00	-20.63	Vertical
9620.00	33.80	38.01	14.16	31.58	54.39	74.00	-19.61	Vertical
12025.00	*					74.00		Vertical
14430.00	*					74.00		Vertical
4810.00	43.10	31.79	8.61	32.09	51.41	74.00	-22.59	Horizontal
7215.00	34.51	36.19	11.66	31.99	50.37	74.00	-23.63	Horizontal
9620.00	31.65	38.01	14.16	31.58	52.24	74.00	-21.76	Horizontal
12025.00	*					74.00		Horizontal
14430.00	*					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
4810.00	29.88	31.79	8.61	32.09	38.19	54.00	-15.81	Vertical
7215.00	23.64	36.19	11.66	31.99	39.50	54.00	-14.50	Vertical
9620.00	21.12	38.01	14.16	31.58	41.71	54.00	-12.29	Vertical
12025.00	*					54.00		Vertical
14430.00	*					54.00		Vertical
4810.00	26.53	31.79	8.61	32.09	34.84	54.00	-19.16	Horizontal
7215.00	21.56	36.19	11.66	31.99	37.42	54.00	-16.58	Horizontal
9620.00	20.85	38.01	14.16	31.58	41.44	54.00	-12.56	Horizontal
12025.00	*					54.00		Horizontal
14430.00	*					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
4870.00	50.48	31.85	8.66	32.12	58.87	74	-15.13	Vertical
7305.00	38.69	36.37	11.72	31.89	54.89	74	-19.11	Vertical
9740.00	34.22	38.35	14.25	31.59	55.23	74	-18.77	Vertical
12175.00	*					74		Vertical
14610.00	*					74		Vertical
4870.00	46.74	31.85	8.66	32.12	55.13	74	-18.87	Horizontal
7305.00	35.61	36.37	11.72	31.89	51.81	74	-22.19	Horizontal
9740.00	31.67	38.35	14.25	31.59	52.68	74	-21.32	Horizontal
12175.00	*					74		Horizontal
14610.00	*					74		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
4870.00	28.33	31.85	8.66	32.12	36.72	54.00	-17.28	Vertical
7305.00	24.71	36.37	11.72	31.89	40.91	54.00	-13.09	Vertical
9740.00	22.84	38.35	14.25	31.59	43.85	54.00	-10.15	Vertical
12175.00	*					54.00		Vertical
14610.00	*					54.00		Vertical
4870.00	26.17	31.85	8.66	32.12	34.56	54.00	-19.44	Horizontal
7305.00	22.63	36.37	11.72	31.89	38.83	54.00	-15.17	Horizontal
9740.00	21.15	38.35	14.25	31.59	42.16	54.00	-11.84	Horizontal
12175.00	*					54.00		Horizontal
14610.00	*					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
4936.00	48.29	31.91	8.71	32.16	56.75	74.00	-17.25	Vertical
7404.00	35.71	36.56	11.77	31.81	52.23	74.00	-21.77	Vertical
9872.00	31.75	38.72	14.35	31.82	53.00	74.00	-21.00	Vertical
12340.00	*					74.00		Vertical
14808.00	*					74.00		Vertical
4936.00	45.34	31.91	8.71	32.16	53.80	74.00	-20.20	Horizontal
7404.00	33.82	36.56	11.77	31.81	50.34	74.00	-23.66	Horizontal
9872.00	29.21	38.72	14.35	31.82	50.46	74.00	-23.54	Horizontal
12340.00	*					74.00		Horizontal
14808.00	*					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
4936.00	28.14	31.91	8.71	32.16	36.60	54.00	-17.40	Vertical
7404.00	23.26	36.56	11.77	31.81	39.78	54.00	-14.22	Vertical
9872.00	22.06	38.72	14.35	31.82	43.31	54.00	-10.69	Vertical
12340.00	*					54.00		Vertical
14808.00	*					54.00		Vertical
4936.00	25.77	31.91	8.71	32.16	34.23	54.00	-19.77	Horizontal
7404.00	21.24	36.56	11.77	31.81	37.76	54.00	-16.24	Horizontal
9872.00	18.54	38.72	14.35	31.82	39.79	54.00	-14.21	Horizontal
12340.00	*					54.00		Horizontal
14808.00	*					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.*

8.2.3 Bandedge emissions

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
2310.00	42.22	27.91	5.30	34.11	41.32	74.00	32.68	Vertical
2390.00	48.78	27.59	5.38	34.01	47.74	74.00	26.26	Vertical
2400.00	59.18	27.55	5.40	34.00	58.13	74.00	15.87	Vertical
2310.00	39.96	27.91	5.30	34.11	39.06	74.00	34.94	Horizontal
2390.00	46.36	27.59	5.38	34.01	45.32	74.00	28.68	Horizontal
2400.00	55.42	27.55	5.40	34.00	54.37	74.00	19.63	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
2310.00	30.64	27.91	5.30	34.11	29.74	54.00	24.26	Vertical
2390.00	36.48	27.59	5.38	34.01	35.44	54.00	18.56	Vertical
2400.00	44.29	27.55	5.40	34.00	43.24	54.00	10.76	Vertical
2310.00	28.62	27.91	5.30	34.11	27.72	54.00	26.28	Horizontal
2390.00	34.81	27.59	5.38	34.01	33.77	54.00	20.23	Horizontal
2400.00	41.72	27.55	5.40	34.00	40.67	54.00	13.33	Horizontal

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
2483.50	46.62	27.53	5.47	33.92	45.70	74.00	-28.30	Vertical
2500.00	43.95	27.55	5.49	33.90	43.09	74.00	-30.91	Vertical
2483.50	44.84	27.53	5.47	33.92	43.92	74.00	-30.08	Horizontal
2500.00	41.18	27.55	5.49	33.90	40.32	74.00	-33.68	Horizontal

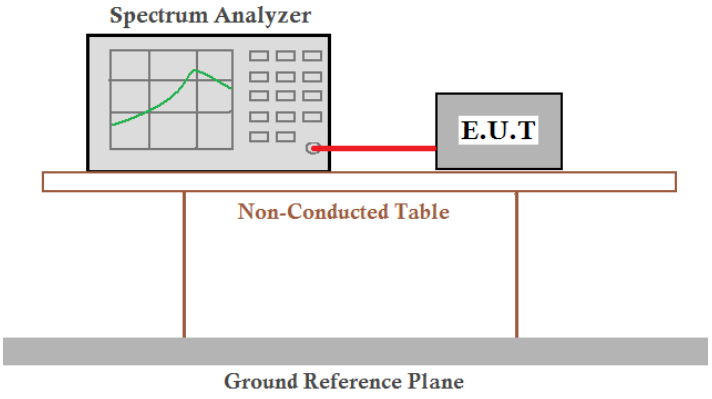
Average value:

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
2483.50	32.18	27.53	5.47	33.92	31.26	54.00	-22.74	Vertical
2500.00	29.69	27.55	5.49	33.90	28.83	54.00	-25.17	Vertical
2483.50	30.85	27.53	5.47	33.92	29.93	54.00	-24.07	Horizontal
2500.00	27.64	27.55	5.49	33.90	26.78	54.00	-27.22	Horizontal

Remark:

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

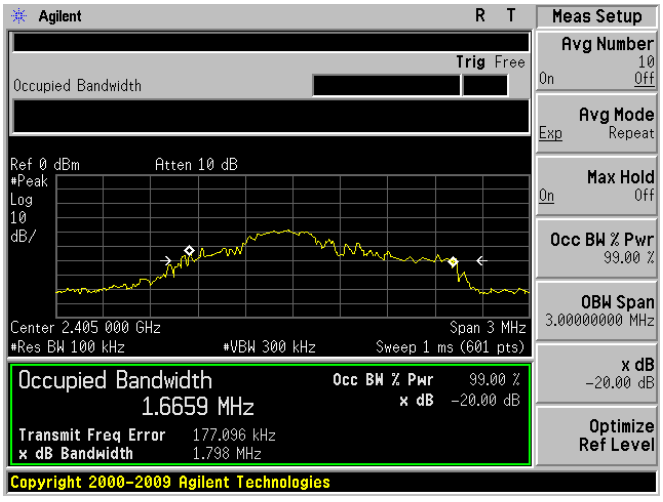
8.3 20dB Occupy Bandwidth

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:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

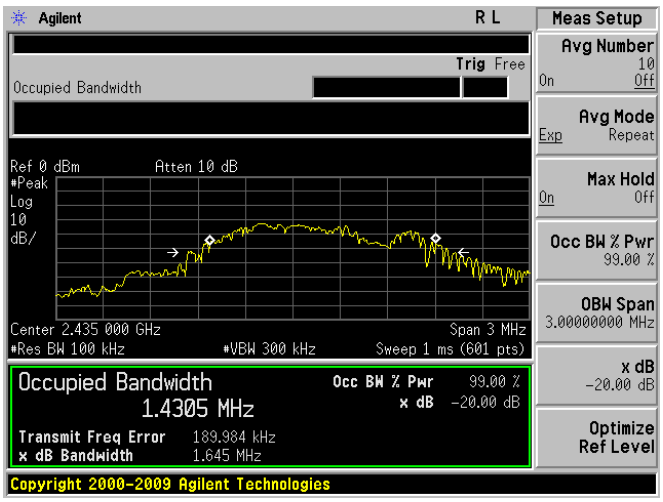
Measurement Data

Test channel (MHz)	20dB bandwidth(MHz)	Result
2405	1.798	Pass
2435	1.645	Pass
2468	1.759	Pass

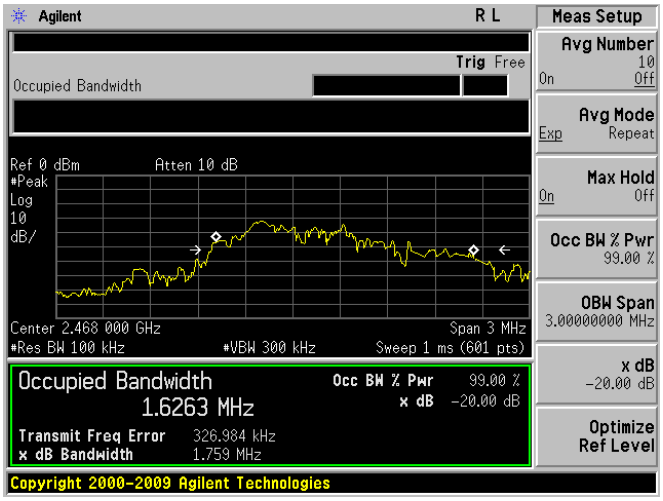
Test plot as follows:



2405MHz



2435MHz



2468MHz

------End------