



FCC REPORT

Applicant:	OutstandingPet. LLC
Address of Applicant:	730 South Clark Street,Apt1204,Chicago,IL60605
Equipment Under Test (EUT)	
Name:	Dog Remote Training Collar
Model No.	Remote Trainer DR-500m
Trademark:	OutstandingPet
Operation Frequency:	2402MHz to 2480MHz
FCC ID:	YO8DR500M
Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249: 2009
Date of Receipt:	20 July 2010
Date of Test:	20 July to 15 August 2010
Date of Issue:	16 August 2010
Test Result :	PASS *

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

Authorized Signature:

Robinson Lo
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of GTS International Electrical Approvals or testing done by GTS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by GTS International Electrical Approvals in writing.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

2 Contents

	Page
1 COVER PAGE	1
2 CONTENTS	2
3 TEST SUMMARY	3
4 GENERAL INFORMATION	4
4.1 CLIENT INFORMATION	4
4.2 GENERAL DESCRIPTION OF E.U.T.	4
4.3 E.U.T OPERATION MODE	6
4.4 TEST FACILITY	7
4.5 TEST LOCATION	7
4.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER	7
4.7 TEST INSTRUMENTS LIST:	8
5 TEST RESULTS AND MEASUREMENT DATA	9
5.1 ANTENNA REQUIREMENT:	9
5.2 RADIATED EMISSION	10
5.2.1 <i>Field Strength Of The Fundamental Signal</i>	12
5.2.2 <i>Spurious Emissions</i>	13
5.2.3 <i>Band edge (Radiated Emission)</i>	17
5.3 20dB BANDWIDTH	19

3 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Passed
Field strength of the fundamental signal	15.249 (a)	Passed
Spurious emissions	15.247 (a) (d)/15.209	Passed
Band edge (Radiated Emission)	15.247 (d)/15.205	Passed
20dB Occupied Bandwidth	15.215 (c)	Passed

Remark:

- Passed: The EUT complies with the essential requirements in the standard.
- Failed: The EUT does not comply with the essential requirements in the standard.
- Tx: In this whole report Tx (or tx) means Transmitter.
- Rx: In this whole report Rx (or rx) means Receiver.

4 General Information

4.1 Client Information

Applicant:	OutstandingPet. LLC
Address of Applicant:	730 South Clark Street,Apt1204,Chicago,IL60605
Manufacturer/ Factory:	Gold City Packing Material Ltd.
Address of Manufacturer/ Factory:	Jing Feng Huang Industrial District, Feng Gang Town, Dong Wan City, China

4.2 General Description of E.U.T.

Product Name:	Dog Remote Training Collar
Model No.:	Remote Trainer DR-500m
Operation Frequency:	2402MHz to 2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	3*1.5V("AAA" size)=4.5V

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
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
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	2402 MHz
The middle channel	2441 MHz
The Highest channel	2480 MHz

4.3 E.U.T Operation mode

Operating Environment:

Temperature: 24.0 °C
Humidity: 52 % RH
Atmospheric Pressure: 1008 mbar

Test mode:

Normal operation mode:
Transmitting mode: Keep the EUT in transmitting mode with modulation.

GTS has 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:

Pre-Test Mode:				
Axis	X	Y	Z	
Field Strength(dBuV/m)	97.3	98.2	96.1	
Final Test Mode:				
According to ANSI C63.4 standards, the test results are both the “worst case” and “worst setup”				
Y axis				

4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 600491**

Global United Technology Service Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 600491, July 20, 2010.

- **Industry Canada (IC)**

The 3m Semi-anechoic chamber of Global United Technology Service Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

4.5 Test Location

All tests were performed at:

Global United Technology Service Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road

Baoan District, Shenzhen, China

Tel: 0755-27798480 Fax: 0755-27798960

4.6 Other Information Requested by the Customer

None.

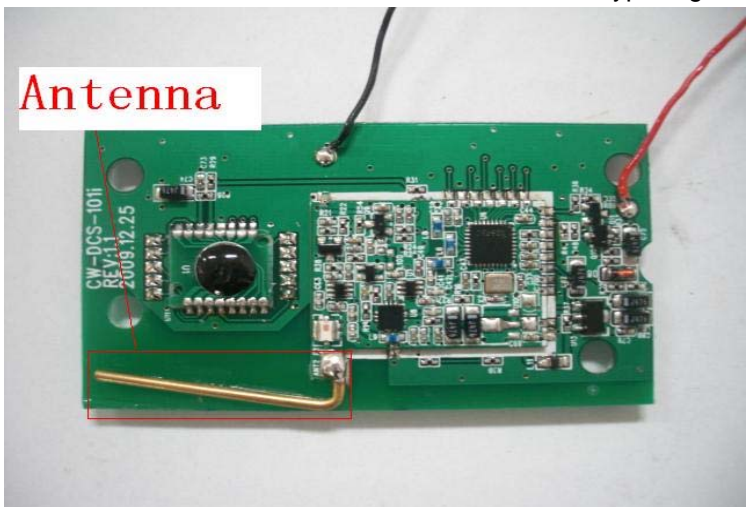
4.7 Test Instruments list:

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)*6.4(H)	GTS201	30-03-2010	30-09-2011
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)*2.4(H)	GTS202	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	10-09-2009	10-09-2010
4	BiConiLog Antenna	Schwarzbeck Mess elektronik	VULB9163	GTS204	26-02-2009	10-09-2010
5	Double –ridged waveguide horn	Schwarzbeck Mess elektronik	9120D-829	GTS205	30-06-2010	30-06-2011
6	EMI Test Software	Audix	E3	N/A	N/A	N/A
7	Coaxial Cable	GTS	N/A	GTS400	01-04-2010	01-04-2011
8	Coaxial Cable	GTS	N/A	GTS401	01-04-2010	01-04-2011
9	Coaxial cable	GTS	N/A	GTS402	01-04-2010	01-04-2011
10	Coaxial Cable	GTS	N/A	GTS407	01-04-2010	01-04-2011
11	Coaxial Cable	GTS	N/A	GTS408	01-04-2010	01-04-2011
12	Amplifier(10KHz-5GHz)	Sonnoma Instrument	305-1052	GTS210	01-04-2010	01-04-2011
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS231	01-04-2010	01-04-2011
14	GTSrntable & Antenna Positioner Controller	C&C	CC-C-IF	GTS211	N/A	N/A
15	Printer	HP	LaserJet 1007	GTS212	N/A	N/A
16	Color monitor	Sunspo	SP-14C	GTS213	N/A	N/A
17	Color monitor	Sunspo	SP-14C	GTS214	N/A	N/A

Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS206	10-04-2010	10-04-2011
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS208	14-09-2009	14-09-2010
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS209	14-09-2009	14-09-2010
4	LISN	Schwarzbeck Mess elektronik	NSLK 8127	GTS207	14-09-2010	14-09-2011
5	Coaxial Cable	GTS	N/A	GTS406	04- 01-2010	04-01-2011
6	EMI Test Software	Audix	E3	N/A	N/A	N/A

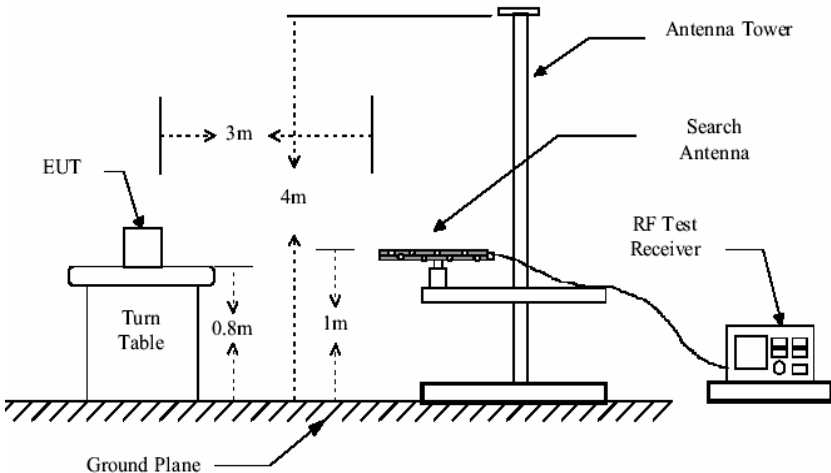
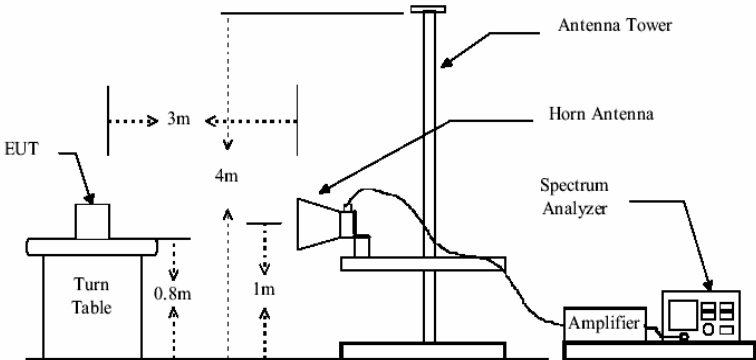
5 Test results and Measurement Data

5.1 Antenna requirement:

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement: <i>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.</i>	
E.U.T Antenna:	
The EUT make use of an lead antenna,The typical gain of the antenna is 2dBi.	
	

5.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.249 and 15.209																								
Test Method:	ANSI C63.4: 2003																								
Test Frequency Range:	30MHz to 25000MHz																								
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)																								
Receiver setup:	<table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>100KHz</td><td>300KHz</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table>					Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	Above 1GHz	Peak	1MHz	3MHz	Peak Value	Peak	1MHz	10Hz	Average Value	
Frequency	Detector	RBW	VBW	Remark																					
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value																					
Above 1GHz	Peak	1MHz	3MHz	Peak Value																					
	Peak	1MHz	10Hz	Average Value																					
Limit: (Field strength of the fundamental signal)	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td rowspan="2">2400MHz-2483.5MHz</td><td>94.0</td><td>Average Value</td></tr><tr><td>114.0</td><td>Peak Value</td></tr></table>					Frequency	Limit (dBuV/m @3m)	Remark	2400MHz-2483.5MHz	94.0	Average Value	114.0	Peak Value												
Frequency	Limit (dBuV/m @3m)	Remark																							
2400MHz-2483.5MHz	94.0	Average Value																							
	114.0	Peak Value																							
Limit: (Spurious Emissions)	<table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td>30MHz-88MHz</td><td>40.0</td><td>Quasi-peak Value</td></tr><tr><td>88MHz-216MHz</td><td>43.5</td><td>Quasi-peak Value</td></tr><tr><td>216MHz-960MHz</td><td>46.0</td><td>Quasi-peak Value</td></tr><tr><td>960MHz-1GHz</td><td>54.0</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.0</td><td>Average Value</td></tr><tr><td>74.0</td><td>Peak Value</td></tr></table>					Frequency	Limit (dBuV/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	74.0	Peak Value
Frequency	Limit (dBuV/m @3m)	Remark																							
30MHz-88MHz	40.0	Quasi-peak Value																							
88MHz-216MHz	43.5	Quasi-peak Value																							
216MHz-960MHz	46.0	Quasi-peak Value																							
960MHz-1GHz	54.0	Quasi-peak Value																							
Above 1GHz	54.0	Average Value																							
	74.0	Peak Value																							
Limit: (band edge)	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.																								
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. 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.</p> <p>d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. 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.</p>																								

<p>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p> 
<p>Test Instruments:</p>	<p>Refer to section 4.7 for details</p>
<p>Test mode:</p>	<p>Transmitting mode</p>
<p>Test results:</p>	<p>Passed</p>

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

Measurement Data
5.2.1 Field Strength Of The Fundamental Signal

Peak value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402	3.37	27.58	30.10	88.77	89.62	114.00	-24.38	Horizontal
2402	3.37	27.58	30.10	98.82	99.67	114.00	-14.33	Vertical
2441	3.43	27.48	29.99	86.70	87.62	114.00	-26.38	Horizontal
2441	3.43	27.48	29.99	97.93	98.85	114.00	-15.15	Vertical
2480	3.49	27.52	29.93	85.26	86.34	114.00	-27.66	Horizontal
2480	3.49	27.52	29.93	96.34	97.42	114.00	-16.58	Vertical

Average value:

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402	3.37	27.58	30.10	79.27	80.12	94.00	-13.88	Horizontal
2402	3.37	27.58	30.10	89.04	89.89	94.00	-4.11	Vertical
2441	3.43	27.48	29.99	77.25	78.17	94.00	-15.83	Horizontal
2441	3.43	27.48	29.99	88.10	89.02	94.00	-4.98	Vertical
2480	3.49	27.52	29.93	75.57	76.65	94.00	-17.35	Horizontal
2480	3.49	27.52	29.93	87.87	88.95	94.00	-5.05	Vertical

5.2.2 Spurious Emissions

30MHz~1GHz

Worst case: Middle Channel

Test mode:	Transmitting	
------------	--------------	--

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
31.843	25.75	13.64	30.05	0.61	18.55	40.00	-21.45	Vertical
36.127	25.74	14.29	28.46	0.63	17.64	40.00	-22.36	Vertical
96.436	25.67	14.18	27.45	1.12	17.08	43.50	-26.42	Vertical
176.888	25.63	14.07	26.92	1.67	17.03	43.50	-26.47	Vertical
317.701	25.58	16.76	26.66	2.11	19.95	46.00	-26.05	Vertical
747.483	25.52	23.52	26.58	3.03	27.61	46.00	-18.39	Horizontal
39.576	25.73	15.54	25.45	0.64	15.90	40.00	-24.10	Horizontal
104.536	25.66	12.18	26.40	1.19	14.11	43.50	-29.39	Horizontal
199.286	25.62	11.44	26.54	1.77	14.13	43.50	-29.37	Horizontal
270.375	25.59	13.57	25.39	2.00	15.37	46.00	-30.63	Horizontal

Remark: the data above is tested with QP detector mode.

Above 1GHz					
Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2389.2	3.37	27.58	30.10	58.81	59.66	74.00	-14.34	Vertical
4804.0	5.32	31.78	24.09	47.34	60.35	74.00	-13.65	Vertical
7206.0	6.87	36.15	26.38	41.28	57.92	74.00	-16.08	Vertical
9608.0	8.94	37.95	25.40	36.62	58.11	74.00	-15.89	Vertical
12008.0	10.34	39.08	25.19	33.69	57.92	74.00	-16.08	Vertical
2389.2	3.37	27.58	30.10	56.83	57.68	74.00	-16.32	Horizontal
4804.0	5.32	31.78	24.09	45.13	58.14	74.00	-15.86	Horizontal
7206.0	6.87	36.15	26.38	39.30	55.94	74.00	-18.06	Horizontal
9608.0	8.94	37.95	25.40	36.52	58.01	74.00	-15.99	Horizontal
12008.0	10.34	39.08	25.19	34.62	58.85	74.00	-15.15	Horizontal

Test mode:	Transmitting	Test channel:	Lowest	Remark:	average
------------	--------------	---------------	--------	---------	---------

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2389.2	3.37	27.58	30.10	45.50	46.35	54.00	-7.65	Vertical
4804.0	5.32	31.78	24.09	35.92	48.93	54.00	-5.07	Vertical
7206.0	6.87	36.15	26.38	29.74	46.38	54.00	-7.62	Vertical
9608.0	8.94	37.95	25.40	26.63	48.12	54.00	-5.88	Vertical
12008.0	10.34	39.08	25.19	25.12	49.35	54.00	-4.65	Vertical
2389.2	3.37	27.58	30.10	44.26	45.11	54.00	-8.89	Horizontal
4804.0	5.32	31.78	24.09	34.35	47.36	54.00	-6.64	Horizontal
7206.0	6.87	36.15	26.38	28.83	45.47	54.00	-8.53	Horizontal
9608.0	8.94	37.95	25.40	26.83	48.32	54.00	-5.68	Horizontal
12008.0	10.34	39.08	25.19	25.15	49.38	54.00	-4.62	Horizontal

Remark: The disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Test mode:	Transmitting	Test channel:	Middle	Remark:	Peak
------------	--------------	---------------	--------	---------	------

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.5	3.37	27.58	30.10	60.50	61.35	74.00	-12.65	Vertical
4888.0	5.40	31.85	24.01	46.62	59.86	74.00	-14.14	Vertical
7332.0	6.91	36.37	26.62	39.48	56.14	74.00	-17.86	Vertical
9776.0	9.01	38.35	25.29	35.89	57.96	74.00	-16.04	Vertical
12220.0	10.39	38.92	25.02	33.85	58.14	74.00	-15.86	Vertical
2390.5	3.37	27.58	30.10	56.60	57.45	74.00	-16.55	Horizontal
4888.0	5.40	31.85	24.01	45.93	59.17	74.00	-14.83	Horizontal
7332.0	6.91	36.37	26.62	39.47	56.13	74.00	-17.87	Horizontal
9776.0	9.01	38.35	25.29	36.06	58.13	74.00	-15.87	Horizontal
12220.0	10.39	38.92	25.02	34.33	58.62	74.00	-15.38	Horizontal

Test mode:	Transmitting	Test channel:	Middle	Remark:	average
------------	--------------	---------------	--------	---------	---------

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.5	3.37	27.58	30.10	46.25	47.1	54.00	-6.90	Vertical
4888.0	5.40	31.85	24.01	35.12	48.36	54.00	-5.64	Vertical
7332.0	6.91	36.37	26.62	29.17	45.83	54.00	-8.17	Vertical
9776.0	9.01	38.35	25.29	25.85	47.92	54.00	-6.08	Vertical
12220.0	10.39	38.92	25.02	25.02	49.31	54.00	-4.69	Vertical
2390.5	3.37	27.58	30.10	44.01	44.86	54.00	-9.14	Horizontal
4888.0	5.40	31.85	24.01	34.71	47.95	54.00	-6.05	Horizontal
7332.0	6.91	36.37	26.62	28.96	45.62	54.00	-8.38	Horizontal
9776.0	9.01	38.35	25.29	25.91	47.98	54.00	-6.02	Horizontal
12220.0	10.39	38.92	25.02	24.83	49.12	54.00	-4.88	Horizontal

Remark: The disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
------------	--------------	---------------	---------	---------	------

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2485.6	3.49	27.52	29.93	56.64	57.72	74.00	-16.28	Vertical
4958	5.47	31.93	23.93	44.89	58.36	74.00	-15.64	Vertical
7437	6.95	36.59	26.95	39.33	55.92	74.00	-18.08	Vertical
9916	9.07	38.81	25.22	34.46	57.12	74.00	-16.88	Vertical
12395	10.44	38.76	24.74	33.66	58.12	74.00	-15.88	Vertical
2485.6	3.49	27.52	29.93	55.38	56.46	74.00	-17.54	Horizontal
4958	5.47	31.93	23.93	42.92	56.39	74.00	-17.61	Horizontal
7437	6.95	36.59	26.95	38.53	55.12	74.00	-18.88	Horizontal
9916	9.07	38.81	25.22	34.32	56.98	74.00	-17.02	Horizontal
12395	10.44	38.76	24.74	33.5	57.96	74.00	-16.04	Horizontal

Test mode:	Transmitting	Test channel:	Highest	Remark:	average
------------	--------------	---------------	---------	---------	---------

Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2485.6	3.49	27.52	29.93	44.57	45.65	54.00	-8.35	Vertical
4958.0	5.47	31.93	23.93	33.95	47.42	54.00	-6.58	Vertical
7437.0	6.95	36.59	26.95	28.28	44.87	54.00	-9.13	Vertical
9916.0	9.07	38.81	25.22	25.03	47.69	54.00	-6.31	Vertical
12395.0	10.44	38.76	24.74	24.21	48.67	54.00	-5.33	Vertical
2485.6	3.49	27.52	29.93	43.08	44.16	54.00	-9.84	Horizontal
4958.0	5.47	31.93	23.93	32.17	45.64	54.00	-8.36	Horizontal
7437.0	6.95	36.59	26.95	28.33	44.92	54.00	-9.08	Horizontal
9916.0	9.07	38.81	25.22	24.29	46.95	54.00	-7.05	Horizontal
12395.0	10.44	38.76	24.74	23.36	47.82	54.00	-6.18	Horizontal

Remark: The disturbance above 13GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

5.2.3 Band edge (Radiated Emission)

Test mode:	Transmitting	Test channel:	Lowest	Remark:	Peak
------------	--------------	---------------	--------	---------	------

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390	54.55	27.59	3.33	30.10	55.37	74.00	-18.63	Horizontal
2400	56.31	27.58	3.37	30.10	57.16	74.00	-16.84	Horizontal
2390	55.42	27.59	3.33	30.10	56.24	74.00	-17.76	Vertical
2400	56.26	27.58	3.37	30.10	57.11	74.00	-16.89	Vertical

Test mode:	Transmitting	Test channel:	Lowest	Remark:	Average
------------	--------------	---------------	--------	---------	---------

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390	42.54	27.59	3.33	30.10	43.36	54.00	-10.64	Horizontal
2400	44.27	27.58	3.37	30.10	45.12	54.00	-8.88	Horizontal
2390	43.50	27.59	3.33	30.10	44.32	54.00	-9.68	Vertical
2400	44.62	27.58	3.37	30.10	45.47	54.00	-8.53	Vertical

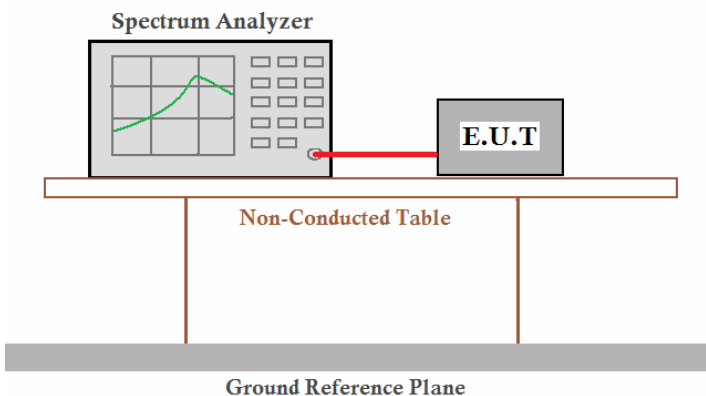
Test mode:	Transmitting	Test channel:	Highest	Remark:	Peak
------------	--------------	---------------	---------	---------	------

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.5	55.05	27.53	3.49	29.93	56.14	74.00	-17.86	Horizontal
2500.0	54.28	27.55	3.52	30.7	54.65	74.00	-19.35	Horizontal
2483.5	56.53	27.53	3.49	29.93	57.62	74.00	-16.38	Vertical
2500.0	55.46	27.55	3.52	30.7	55.83	74.00	-18.17	Vertical

Test mode:	Transmitting	Test channel:	Highest	Remark:	Average
------------	--------------	---------------	---------	---------	---------

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.5	42.56	27.53	3.49	29.93	43.65	54.00	-10.35	Horizontal
2500.0	41.79	27.55	3.52	30.70	42.16	54.00	-11.84	Horizontal
2483.5	43.29	27.53	3.49	29.93	44.38	54.00	-9.62	Vertical
2500.0	42.88	27.55	3.52	30.70	43.25	54.00	-10.75	Vertical

5.3 20dB Bandwidth

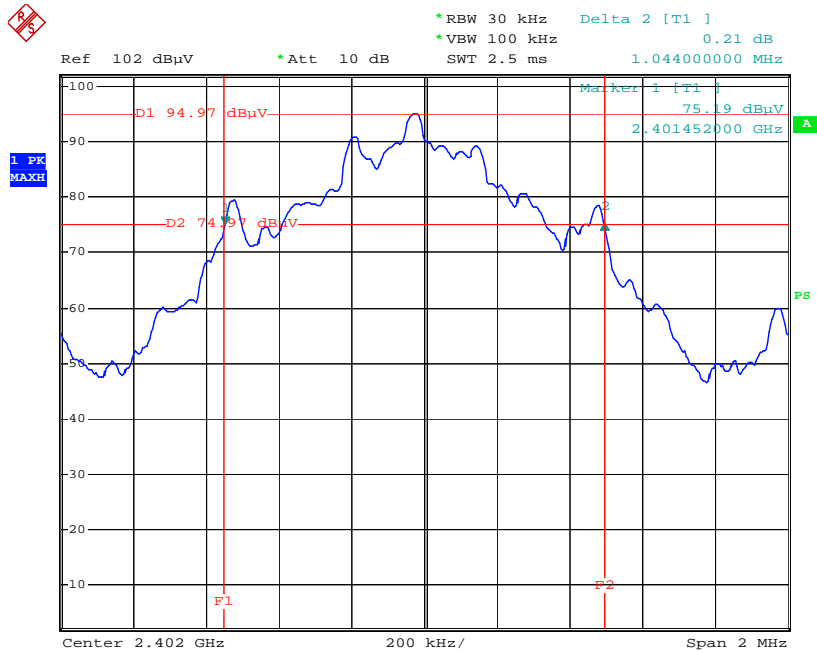
Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.4:2003
Receiver setup:	RBW=10KHz, VBW=30KHz, detector: Peak
Limit:	Operation Frequency range 2400MHz-2483.5MHz
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Instruments:	Refer to section 4.7 for details
Test mode:	Transmitting mode
Test results:	Passed

Measurement Data

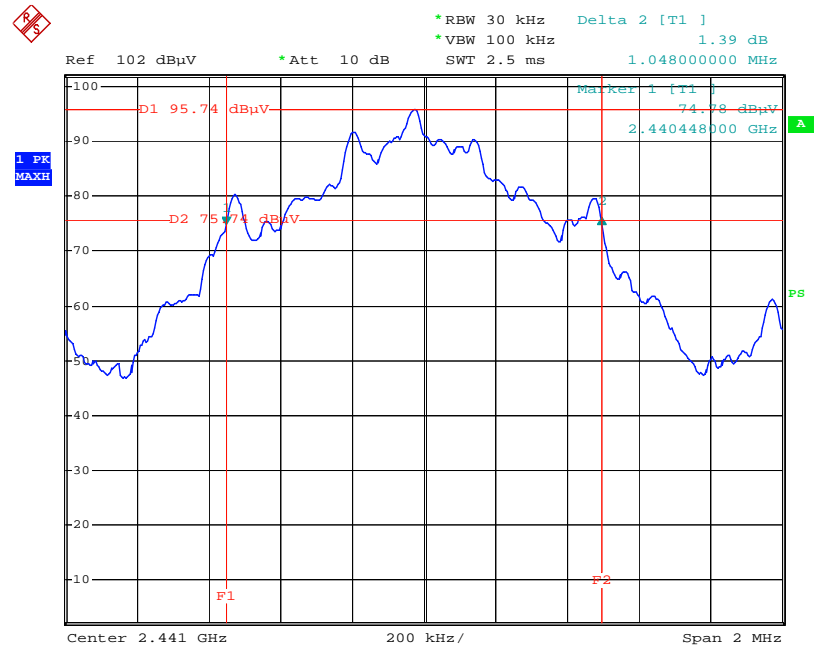
Test channel	20dB bandwidth (MHz)
Lowest	1.044
Middle	1.048
Highest	1.052

Test plot as follows:

Test channel: Lowest



Test channel: Middle



Test channel:	Highest
---------------	---------

