

Global United Technology Service Co., Ltd.

Report No: GTSE10110033701

FCC REPORT

Applicant: ShenZhen Xinzhensheng electronics CO LTD

Address of Applicant:

Building49, Baotian Industrial Zone, Xixiang Town,

Shenzhen, China

Equipment Under Test (EUT)

Product Name: PS3 wireless controllers (DONGLE)

Model No.: FM5801(DONGLE)

FCC ID: VZB- FM5801R

Standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249: 2009

Date of Receipt: 26 Nov., 2010

Date of Test: 26-29 Nov., 2010

Date of Issue: 30 Nov., 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	I COVER PAGE	1
2	2 CONTENTS	2
_		
3	TEST SUMMARY	
4	4 GENERAL INFORMATION	4
	4.1 CLIENT INFORMATION	
5	TEST RESULTS AND MEASUREMENT DATA	8
	5.1 ANTENNA REQUIREMENT:	
	3.3 ZUUD DANDWIDTH	



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	15.249 (a) (d)/15.209	Passed	
Band edge (Radiated Emission)	15.249 (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.

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



4 General Information

4.1 Client Information

Applicant:	ShenZhen Xinzhensheng electronics CO LTD			
Address of Applicant:	Building49, Baotian Industrial Zone, Xixiang Town, Shenzhen, China			
Manufacturer/ Factory:	ShenZhen Xinzhensheng electronics CO LTD			
Address of Manufacturer/ Factory:	Building49, Baotian Industrial Zone, Xixiang Town, Shenzhen, China			

4.2 General Description of E.U.T.

Product Name:	PS3 wireless controllers (DONGLE)
Model No.:	FM5801 (DONGLE)
Operation Frequency:	2410MHz to 2470MHz
Channel numbers:	61
Channel separation:	1MHz
Modulation type:	GFSK
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	DC 5.0V (USB port supply)

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Operation	Operation Frequency each of channel								
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency		
1	2410MHz	17	2426MHz	33	2442MHz	49	2458MHz		
2	2411MHz	18	2427MHz	34	2443MHz	50	2459MHz		
3	2412MHz	19	2428MHz	35	2444MHz	51	2460MHz		
4	2413MHz	20	2429MHz	36	2445MHz	52	2461MHz		
5	2414MHz	21	2430MHz	37	2446MHz	53	2462MHz		
6	2415MHz	22	2431MHz	38	2447MHz	54	2463MHz		
7	2416MHz	23	2432MHz	39	2448MHz	55	2464MHz		
8	2417MHz	24	2433MHz	40	2449MHz	56	2465MHz		
9	2418MHz	25	2434MHz	41	2450MHz	57	2466MHz		
10	2419MHz	26	2435MHz	42	2451MHz	58	2467MHz		
11	2420MHz	27	2436MHz	43	2452MHz	59	2468MHz		
12	2421MHz	28	2437MHz	44	2453MHz	60	2469MHz		
13	2422MHz	29	2438MHz	45	2454MHz	61	2470MHz		
14	2423MHz	30	2439MHz	46	2455MHz				
15	2424MHz	31	2440MHz	47	2456MHz				
16	2425MHz	32	2441MHz	48	2457MHz				

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	2410MHz		
The middle channel	2440MHz		
The Highest channel	2470MHz		

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



4.3 Test environment and mode

Operating Environment:					
Temperature:	25.0 °C				
Humidity:	53 % RH				
Atmospheric Pressure:	1010 mbar				
Test 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:

Operating Environment:

Pre-Test Mode: (lowest channel=2402MHz)

Axis	X	Υ	Z
Field Strength(dBuV/m)	87.45	90.03	84.26

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)

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 out 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.

Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960 Page 6 of 20



4.7 Test Instruments list:

Radia	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	Mar. 30 2010	Mar. 30 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	Sep. 10 2010	Sep. 10 2011				
4	BiConiLog Antenna SCHWARZBECK MESS-ELEKTRON		VULB9163	GTS204	Sep. 10 2010	Sep. 10 2011				
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS205	June 30 2010	June 30 2011				
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				
7	Coaxial Cable	GTS	N/A	GTS400	Apr. 01 2010	Apr. 01 2011				
8	Coaxial Cable	GTS	N/A	GTS401	Apr. 01 2010	Apr. 01 2011				
9	Coaxial cable	GTS	N/A	GTS402	Apr. 01 2010	Apr. 01 2011				
10	Coaxial Cable	GTS	N/A	GTS407	Apr. 01 2010	Apr. 01 2011				
11	Coaxial Cable	GTS	N/A	GTS408	Apr. 01 2010	Apr. 01 2011				
12	Amplifier(10KHz- 5GHz) Sonnoma Instrument		305-1052	GTS210	Aug. 03 2010	Aug. 03 2011				
13	Amplifier(2GHz- 20GHz)		8349B	GTS231	Aug. 03 2010	Aug. 03 2011				
14	Spectrum analyzer	Adavantest	U3741	GTS238	Aug. 03 2010	Aug. 03 2011				

Cond	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	Apr. 10 2010	Apr. 10 2011					
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS208	Sep. 14 2010	Sep. 14 2011					
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS209	Sep. 14 2010	Sep. 14 2011					
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS207	Apr. 14 2010	Apr. 14 2011					
5	Coaxial Cable	GTS	N/A	GTS406	Apr. 01 2010	Apr. 01 2011					
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A					

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



5 Test results and Measurement Data

5.1 Antenna requirement:

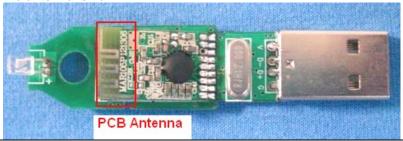
Standard requirement: FCC Part15 C Section 15.203

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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2dBi.





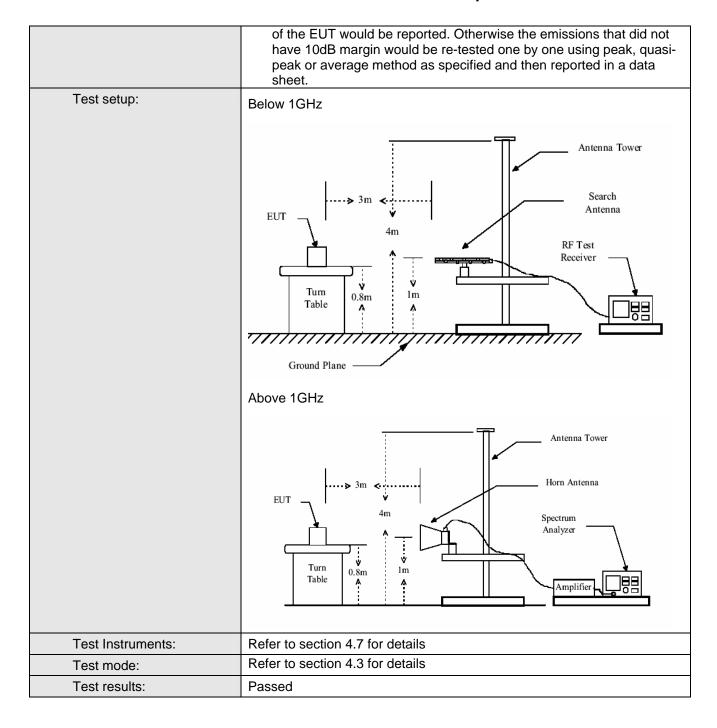
5.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.249 and 15.209					
Test Method:	ANSI C63.4: 20	03				
Test Frequency Range:	30MHz to 25000	OMHz				
Test site:	Measurement D	istance: 3m (Semi-Anecho	ic Chambe	r)	
Receiver setup:						
· ·	Frequency				Remark	
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value	
	Above 1GHz	Above 1GHz Peak		3MHz	Peak Value	
	7.0010 101.12	Peak	1MHz	10Hz	Average Value	
Limit:	F		Linit (JD)	(@ 0 \	December	
(Field strength of the	Freque	ency	Limit (dBuV/		Remark	
fundamental signal)	2400MHz-24	183.5MHz	94.0 114.		Average Value Peak Value	
I incit.			114.	U	reak value	
Limit:	Frequency Limit (dBuV/m @3m) Remark					
(Spurious Emissions)	30MHz-8		40.0	-	Quasi-peak Value	
	88MHz-21		43.5		Quasi-peak Value	
	216MHz-960MHz 46.0				Quasi-peak Value	
	960MHz-	Quasi-peak Value				
	Above 1GHz 54.0				Average Value	
	Above I	GHZ	74.0)	Peak Value	
Limit: (band edge)	harmonics, sha	II be attenuat to the genera	ed by at leas al radiated em	t 50 dB be	by bands, except for slow the level of the s in Section 15.209,	
Test Procedure:	 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. 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. 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. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 					

Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960





Note:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Measurement Data

5.2.1 Field Strength Of The Fundamental Signal

Peak value:

· can raido.	1 Cart 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
2410.00	89.15	27.57	3.37	30.06	90.03	114.00	-23.97	Horizontal
2410.00	85.90	27.57	3.37	30.06	86.78	114.00	-27.22	Vertical
2440.00	87.57	27.48	3.43	29.99	88.49	114.00	-25.51	Horizontal
2440.00	83.12	27.48	3.43	29.99	84.04	114.00	-29.96	Vertical
2470.00	88.13	27.52	3.49	29.93	89.21	114.00	-24.79	Horizontal
2470.00	83.33	27.52	3.49	29.93	84.41	114.00	-29.59	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
2410.00	76.75	27.57	3.37	30.06	77.63	94.00	-16.37	Horizontal
2410.00	73.56	27.57	3.37	30.06	74.44	94.00	-19.56	Vertical
2440.00	75.51	27.48	3.43	29.99	76.43	94.00	-17.57	Horizontal
2440.00	72.27	27.48	3.43	29.99	73.19	94.00	-20.81	Vertical
2470.00	76.29	27.52	3.49	29.93	77.37	94.00	-16.63	Horizontal
2470.00	73.61	27.52	3.49	29.93	74.69	94.00	-19.31	Vertical

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



5.2.2 Spurious Emissions

30MHz~1GHz		
Test mode:	Transmitting	

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
45.70	27.39	9.59	0.66	25.72	11.92	40.00	-28.08	Vertical
101.64	32.57	13.12	1.17	25.67	21.19	43.50	-22.31	Vertical
181.28	34.03	11.64	1.68	25.62	21.73	46.00	-24.27	Vertical
437.12	35.57	15.88	2.31	25.56	28.20	46.00	-17.80	Vertical
821.71	31.15	24.04	3.18	25.51	32.86	46.00	-13.14	Vertical
52.76	29.36	9.98	0.68	25.71	14.31	40.00	-25.69	Horizontal
106.01	32.40	12.68	1.21	25.66	20.63	43.50	-22.87	Horizontal
243.38	35.65	14.73	1.93	25.60	26.71	46.00	-19.29	Horizontal
494.20	28.42	21.02	2.39	25.55	26.28	46.00	-19.72	Horizontal
909.67	24.41	28.03	3.35	25.51	30.28	46.00	-15.72	Horizontal

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



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

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
4820.00	53.51	34.25	9.36	41.53	55.59	74.00	-18.41	Vertical
7230.00	46.94	37.24	13.30	40.88	56.60	74.00	-17.40	Vertical
9640.00	42.89	37.99	13.39	37.56	56.71	74.00	-17.29	Vertical
12050.00	40.54	39.10	16.45	39.09	57.00	74.00	-17.00	Vertical
4820.00	54.87	34.25	9.36	41.53	56.95	74.00	-17.05	Horizontal
7230.00	48.51	37.24	13.30	40.88	58.17	74.00	-15.83	Horizontal
9640.00	46.67	37.99	13.39	37.56	60.49	74.00	-13.51	Horizontal
12050.00	42.53	39.10	16.45	39.09	58.99	74.00	-15.01	Horizontal

Test mode:	: Transmitting		Test channel: L		owest Remark:		average	
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

(MHz)	Level (dBuV)	Factor (dB/m)	Loss (dB)	Factor (dB)	(dBuV/m)	(dBuV/m)	Limit (dB)	Polarization
4820.00	32.18	34.25	9.36	41.53	34.26	54.00	-19.74	Vertical
7230.00	28.57	37.24	13.30	40.88	38.23	54.00	-15.77	Vertical
9640.00	26.84	37.99	13.39	37.56	40.66	54.00	-13.34	Vertical
12050.00	26.04	39.10	16.45	39.09	42.50	54.00	-11.50	Vertical
4820.00	33.70	34.25	9.36	41.53	35.78	54.00	-18.22	Horizontal
7230.00	30.18	37.24	13.30	40.88	39.84	54.00	-14.16	Horizontal
9640.00	28.54	37.99	13.39	37.56	42.36	54.00	-11.64	Horizontal
12050.00	27.83	39.10	16.45	39.09	44.29	54.00	-9.71	Horizontal

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:	Tran	smitting	Test char	nnel: I	Middle	Remark:	P	eak
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
4880.00	50.24	34.34	10.36	39.89	55.05	74.00	-18.95	Vertical
7320.00	46.98	37.31	12.91	40.40	56.80	74.00	-17.20	Vertical
9760.00	44.57	38.03	13.89	37.94	58.55	74.00	-15.45	Vertical
12200.00	41.08	39.21	18.03	39.27	59.05	74.00	-14.95	Vertical
4880.00	51.08	34.34	10.36	39.89	55.89	74.00	-18.11	Horizontal
7320.00	47.95	37.31	12.91	40.40	57.77	74.00	-16.23	Horizontal
9760.00	45.67	38.03	13.89	37.94	59.65	74.00	-14.35	Horizontal
12200.00	42.31	39.21	18.03	39.27	60.28	74.00	-13.72	Horizontal

Test mode:	Tran	smitting	Test char	Test channel: Middle		Remark:		average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Factor (dB)	. I EVEL	Limit Line (dBuV/m)	Ove Lim (dB	it	Polarization
4880.00	28.50	34.34	10.36	39.89	33.31	54.00	-20.6	69	Vertical
7320.00	26.11	37.31	12.91	40.40	35.93	54.00	-18.0	07	Vertical
9760.00	25.75	38.03	13.89	37.94	39.73	54.00	-14.2	27	Vertical
12200.00	24.61	39.21	18.03	39.27	42.58	54.00	-11.4	42	Vertical
4880.00	29.34	34.34	10.36	39.89	34.15	54.00	-19.8	85	Horizontal
7320.00	27.08	37.31	12.91	40.40	36.90	54.00	-17.1	10	Horizontal
9760.00	26.85	38.03	13.89	37.94	40.83	54.00	-13.1	17	Horizontal
12200.00	25.84	39.21	18.03	39.27	43.81	54.00	-10.1	19	Horizontal

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:	Tran	smitting	Test char	nnel:	Highest	Remark:	Pe	ak
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
4940.00	49.48	34.45	10.43	41.03	53.33	74.00	-20.67	Vertical
7410.00	47.08	37.37	12.72	40.01	57.16	74.00	-16.84	Vertical
9880.00	43.82	38.07	14.21	37.85	58.25	74.00	-15.75	Vertical
12350.00	43.32	39.34	17.55	39.48	60.73	74.00	-13.27	Vertical
4940.00	51.08	34.45	10.43	41.03	54.93	74.00	-19.07	Horizontal
7410.00	48.81	37.37	12.72	40.01	58.89	74.00	-15.11	Horizontal
9880.00	45.68	38.07	14.21	37.85	60.11	74.00	-13.89	Horizontal
12350.00	45.31	39.34	17.55	39.48	62.72	74.00	-11.28	Horizontal

Test mode:	Tran	smitting	Test char	nnel: H	lighest	Remark:	av	erage
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
4940.00	34.07	34.45	10.43	41.03	37.92	54.00	-16.08	Vertical
7410.00	29.83	37.37	12.72	40.01	39.91	54.00	-14.09	Vertical
9880.00	27.27	38.07	14.21	37.85	41.70	54.00	-12.30	Vertical
12350.00	27.54	39.34	17.55	39.48	44.95	54.00	-9.05	Vertical
4940.00	35.67	34.45	10.43	41.03	39.52	54.00	-14.48	Horizontal
7410.00	31.56	37.37	12.72	40.01	41.64	54.00	-12.36	Horizontal
9880.00	29.13	38.07	14.21	37.85	43.56	54.00	-10.44	Horizontal
12350.00	29.53	39.34	17.55	39.48	46.94	54.00	-7.06	Horizontal

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



5.2.3 Band e	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)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	53.69	29.98	6.28	39.03	50.92	74.00	-23.08	Horizontal
2400.00	56.94	30.03	6.34	38.87	54.44	74.00	-19.56	Horizontal
2390.00	52.75	29.98	6.28	39.03	49.98	74.00	-24.02	Vertical
2400.00	55.79	30.03	6.34	38.87	53.29	74.00	-20.71	Vertical

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

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	38.51	29.98	6.28	39.03	35.74	54.00	-18.26	Horizontal
2400.00	39.59	30.03	6.34	38.87	37.09	54.00	-16.91	Horizontal
2390.00	37.17	29.98	6.28	39.03	34.40	54.00	-19.60	Vertical
2400.00	38.16	30.03	6.34	38.87	35.66	54.00	-18.34	Vertical

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:	Trans	smitting	Test chann	nel:	Highest		Remark:	Pe		ak
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Limi (dB	it	Polarization
2483.50	56.94	30.32	6.22	39.53		53.95	74.00	-20.0)5	Horizontal
2500.00	52.39	30.37	5.76	39.	15	49.37	74.00	-24.6	33	Horizontal
2483.50	55.60	30.32	6.22	39.	53	52.61	74.00	-21.3	39	Vertical
2500.00	50.92	30.37	5.76	39.	15	47.90	74.00	-26.1	10	Vertical

Toot mode.	de Transmitting Test sharpel Highest		Domonto		۸.,					
Test mode:	ıra	nsmitting	Test chan	hannel: Highest		Remark:	Remark:		Average	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit Line (dBuV/m)	Ove Limi (dB)	t	Polarization
2483.50	40.59	30.32	6.22	39.	53	37.60	54.00	-16.4	10	Horizontal
2500.00	39.51	30.37	5.76	39.	15	36.49	54.00	-17.5	51	Horizontal
2483.50	39.25	30.32	6.22	39.	53	36.26	54.00	-17.7	' 4	Vertical
2500.00	38.04	30.37	5.76	39.	15	35.02	54.00	-18.9	8	Vertical

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



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:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 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:	Spectrum Analyzer E.U.T Non-Conducted Table						
	Ground Reference Plane						
Test Instruments:	Refer to section 4.7 for details						
Test mode:	Refer to section 4.3 for details						
Test results:	Passed						

Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	0.984	Pass
Middle	0.936	Pass
Highest	0.944	Pass

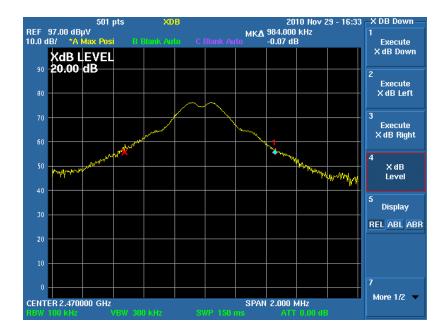
Test plot as follows:

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

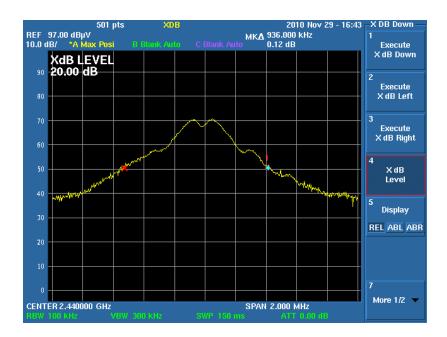
Page 18 of 20







Test channel: Middle





Test channel: Highest

