FCC COMPLIANCE REPORT

for

ZEN FACTORY GROUP (ASIA) LIMITED

Gamecube Wireless Controller

Model Number: RF-GGC001, MWGC01, MWGC02

Prepared for: ZEN FACTORY GROUP (ASIA) LIMITED

Address : House 15, Michelia Path, Westwood, Palm Springs,

Yuen Long, NT, HongKong

Prepared By: NS Technology Co., Ltd.

Address : Chenwu Industrial Zone, Houjie Town, Dongguan City,

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Report Number: NSE-F09083703

Date of Test : Aug. 15~Nov.10, 2009

Date of Report : Nov. 18, 2009

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NS Technology Co., Ltd.

ZEN FACTORY GROUP (ASIA) LIMITED Applicant:

Address: House 15, Michelia Path, Westwood, Palm Springs, Yuen Long, NT,

HongKong

ZHONGSHAN ETERNAL MANUFACTURING LTD. Manufacturer:

Address: 4th Floor Hongxing building, Shagang Road, West Zone, Zhongshan,

Guangdong, China

E.U.T: Gamecube Wireless Controller

RF-GGC001, MWGC01, MWGC02 **Model Number:**

Trade Name: **Operating Frequency:** 2402-2479MHz

Date of Receipt: Jul. 27, 2009 **Date of Test:** Aug. 15~Nov.10, 2009

Test Specification: FCC Part 15 Subpart C: July. 10, 2008

ANSI C63.4:2003

The equipment under test was found to be compliance with the requirements of **Test Result:**

the standards applied.

Issue Date: Nov. 18, 2009

Steven Lee / Manager

Tested by: Reviewed by: Approved by:

Iceman Hu / Supervisor

Other Aspects:

Jade / Engineer

None.

Abbreviations: OK/P=passed fail/F=failed *n.a/N=not applicable* E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of NS Technology Co., Ltd.

1. GENERAL PRODUCT INFORMATION

1.1. Product Function

Details please refer to Technical Construction Form and User Manual.

1.2. Description of Device (EUT)

E.U.T. : Gamecube Wireless Controller

Model No. : RF-GGC001
Operating Frequency : 2402-2479MHz
Number of Channels : 79 Channels
Type of Modulation : GESK

Type of Modulation : GFSK Antenna Type : Integral

System Input Voltage : Nominal Voltage: DC 3V

Temperature Range(Operating) : $0 \sim +40^{\circ}$ C

1.3. Difference between Model Numbers

Note: The product are different only for the model number, but the others are identical.

1.4. Independent Operation Modes

The basic operation modes are:

- 1.4.1. TX CH0 2402MHz
- 1.4.2. TX CH39 2440MHz
- 1.4.3. TX CH79 2479MHz

2. TEST SITES

2.1. Test Facilities

EMC Lab : Certificated by TUV Rheinland, Germany.

Date of registration: July 28, 2003

Certificated by FCC, USA Registration No.: 502831

Date of registration: February 09, 2009

Certificated by VCCI, Japan

Registration No.: R-2527 & C-2770 Date of registration: March 23, 2007

Certificated by CNAL, CHINA

Registration No.: L1744

Date of registration: November 25, 2004

Certificated by Intertek ETL SEMKO

Registration No.: TMP-013

Date of registration: June 11, 2005

Certificated by TUV/PS, Hong Kong Date of registration: December 1, 2005

Certificated by Industry Canada

Registration No.: 5936A

Date of registration: March 4, 2009

Certificated by ATCB, America

Date of registration: August 03, 2006

Name of Firm : NS Technology Co., Ltd.

Site Location : Chenwu Industrial Zone, Houjie Town, Dongguan City,

Guangdong, China

2.2. List of Test and Measurement Instruments

2.2.1.For Conduction emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	-	ł	May 31,09	
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	May 31,09	May 31,10
Artificial Mains Network	Kyoritsu	KNW-407	8-1579-1	Jan.19,09	Jan.19,11
(AUX)					
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100168	May 2,09	May 2,10
RF Cable	FUJIKURA	3D-2W	843 Cable 1#	May 2,09	May 2,10

2.2.2.For radiated emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESVS10	841431/004	Jan.19, 09	Jan.19,10
Spectrum Analyzer	HP	E7405A	MY45118807	May 31,09	May 31,10
Bilog Antenna	Teseq	CBL 6111D	25758	Oct. 15,08	Oct. 15,09
Signal Amplifier	Agilent	8447D	2944A11174	Jan.19,09	Jan.19,10
50Ω Coaxial Switch	ANRITSU	MP59B	6200530579	Jan.19,09	Jan.19,10
RF Cable	IMRO	IMRO-400	10m Cable 1#3m	Jan.19,09	Jan.19,10
RF Cable	DRAKA	M17/84-RG223	10m Cable 3#	Jan.19,09	Jan.19,10

2.2.3. For radiated emission test(1GHz-18GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	HP	8593E	3448U00806	May 31,09	May 31,10
Horn Antenna	EMCO	3117	00062558	Jan. 19,09	Jan. 19,11
Signal Amplifier	BURGEON	PEC-38-30M18G	NSEMC001	May 31,09	May 31,11
		-12-SFF		-	-
RF Cable	DRAKA	M06/25-RG102	966Cable 3#24G	May 2,09	May 2,10

2.2.4.For 20dB bandwidth test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer	Rohde & Schwarz	ESPI	100302	May 31,09	May 31,10

2.2.5. For Band edge compliance test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCS30	100199	May 31,09	May 31,10
Spectrum Analyzer	HP	8593E	3448U00806	May 31,09	May 31,10
Signal Amplifier	Agilent	8447D	2944A10488	May 2,09	May 2,10
Horn Antenna	EMCO	3117	00062558	Jan. 13,09	Jan. 13,11

3. TEST SET-UP AND OPERATION MODES

3.1. Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its highest possible radiated level. The test modes were adapted accordingly in reference to the Operating Instructions.

3.2. Test Operation Mode and Test Software

Refer to clause 1.4

3.3. Special Accessories and Auxiliary Equipment

Host Manufacture:Nintendo

M/N:RVL-001(USA) S/N:LU33659994

Adapter Manufacture:Nintendo

M/N:RVL-002(KOR)

Input:AC 100~220V 60Hz 52W

Output:DC 12V 3.7A

AC Line:unshielded,Undetachable:2.2m DC Line:unshielded,Undetachable:0.7m

3.4. Countermeasures to Achieve EMC Compliance

None.

4. TEST SUMMARY

Test items and result lists

No.	Item	Standard	Results
1	Conduction Emission Test	FCC Part15C: 15.207 ANSI C63.4-2003	Pass
2	Radiated Emission Test	FCC Part15C: 15.249 ANSI C63.4-2003	PASS
3	Band Edge Compliance Test	FCC Part15: 15.249	PASS
4	20dB Bandwidth Test	FCC Part 15: 15.215	PASS

Note: N/A is an abbreviation for Not Applicable.

5. EMISSION TEST RESULTS

5.1. Conduction Emission

RESULT : Pass

Test procedure : ANSI C63.4:2003

Frequency range : $0.15 \sim 30 \text{MHz}$

Test Site : Shielded Room

Limits : FCC part 15C section 15.207

FCC part 15C section 15.249(a)

Test Setup

Date of test : Nov. 5 2009 Model No. : RF-GGC001

Input Voltage : DC 3V from Host input AC 120V/60Hz

Operation Mode : TX Mode

RX Mode

The EUT was put on a wooden table which was 0.8metre high above the ground and connected to the AC mains through a Artificial Mains Network (A.M.N). The mains lead in excess of 1.0m separating the EUT from the AMN was folded back and forth at the center of the lead to form a bundle not exceeding 40cm in length.

The EUT was kept more than 0.4m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during conducted emission test.

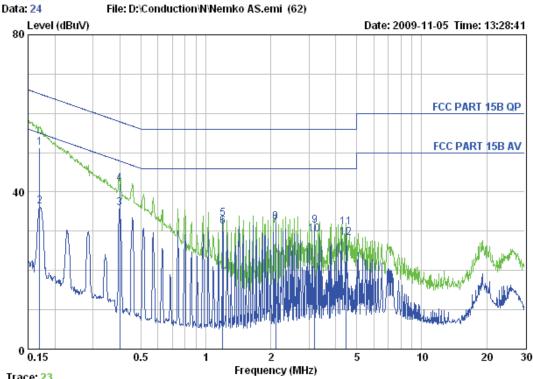
The bandwidth of the test receiver (R&S ESCS30) was set at 9 kHz.

The frequency range from 150 kHz to 30 MHz was investigated.

The test data of the worst case condition(s) was reported on the following page.

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Trace: 23

Test Site : 843 Shielded Room

Limit : FCC PART 15B QP LINE Phase:LINE

EUT : Gamecube Wireless Controller

: DC 3V from Host input AC 120V/60Hz Power

M/N : RF-GGC001

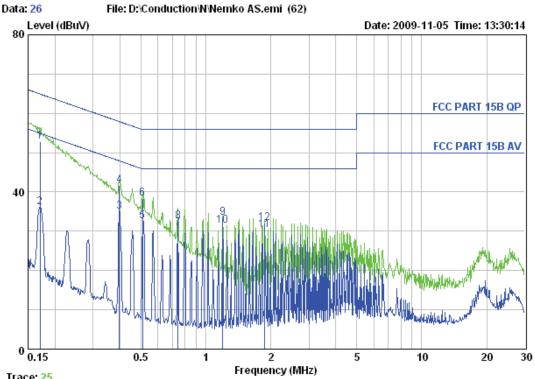
Test Engineer: Jade

Comment : Temp:25.5'C Humi:58%

	Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	51.20	64.99	13.79	OP
2	0.17	36.24	54.99	18.75	Average
3	0.40	35.84	47.86	12.02	Average
4	0.40	42.20	57.86	15.66	QP
5	1.20	33.20	56.00	22.80	QP
6	1.20	31.13	46.00	14.87	Average
7	2.11	31.45	46.00	14.55	Average
8	2.11	32.40	56.00	23.60	QP
9	3.19	31.50	56.00	24.50	QP
10	3.19	29.28	46.00	16.72	Average
11	4.45	30.90	56.00	25.10	QP
12	4.45	28.32	46.00	17.68	Average

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Trace: 25

Test Site : 843 Shielded Room

Limit : FCC PART 15B QP LINE Phase:NEUTRAL

EUT : Gamecube Wireless Controller : DC 3V from Host input AC 120V/60Hz Power

M/N : RF-GGC001

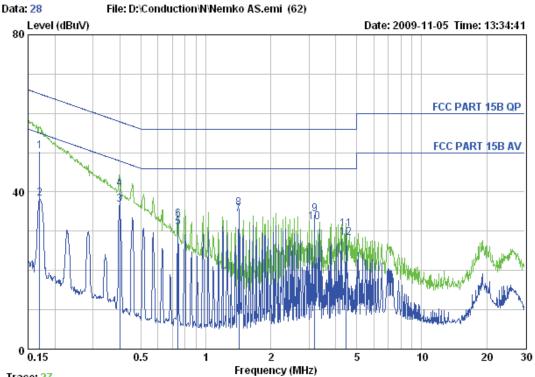
Test Engineer: Jade

: Temp:25.5'C Humi:58% Comment

	Freq.	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	52.80	64.94	12.14	QP
2	0.17	36.12	54.94	18.82	Average
3	0.40	34.96	47.90	12.94	Average
4	0.40	41.68	57.90	16.22	QP
5	0.51	32.53	46.00	13.47	Average
6	0.51	38.30	56.00	17.70	QP
7	0.74	30.68	46.00	15.32	Average
8	0.74	32.59	56.00	23.41	QP
9	1.20	33.40	56.00	22.60	QP
10	1.20	31.32	46.00	14.68	Average
11	1.88	30.30	46.00	15.70	Average
12	1.88	32.12	56.00	23.88	OP

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Trace: 27

Test Site : 843 Shielded Room

Limit : FCC PART 15B QP LINE Phase:LINE

EUT : Gamecube Wireless Controller

: DC 3V from Host input AC 120V/60Hz Power

M/N : RF-GGC001

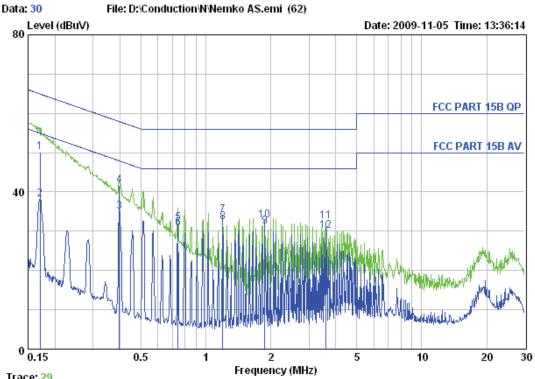
Test Engineer: Jade

Comment : Temp:25.5'C Humi:58%

	Freq. (MHz)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	50.30	64.99	14.69	OP
2	0.17	38.24	54.99	16.75	Average
3	0.40	36.84	47.86	11.02	Average
4	0.40	40.80	57.86	17.06	QP
5	0.74	31.00	46.00	15.00	Average
6	0.74	32.90	56.00	23.10	QP
7	1.43	34.24	46.00	11.76	Average
8	1.43	35.90	56.00	20.10	QP
9	3.19	34.29	56.00	21.71	QP
10	3.19	32.28	46.00	13.72	Average
11	4.45	30.60	56.00	25.40	QP
12	4.45	28.32	46.00	17.68	Average

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Trace: 29

Test Site : 843 Shielded Room

Limit : FCC PART 15B QP LINE Phase:NEUTRAL

EUT : Gamecube Wireless Controller : DC 3V from Host input AC 120V/60Hz Power

M/N : RF-GGC001

Test Engineer: Jade

: Temp:25.5'C Humi:58% Comment

	Freq.	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	50.20	64.94	14.74	QP
2	0.17	38.12	54.94	16.82	Average
3	0.40	34.96	47.90	12.94	Average
4	0.40	41.70	57.90	16.20	QP
5	0.74	32.10	56.00	23.90	QP
6	0.74	30.68	46.00	15.32	Average
7	1.20	34.10	56.00	21.90	QP
8	1.20	32.32	46.00	13.68	Average
9	1.88	31.30	46.00	14.70	Average
10	1.88	32.80	56.00	23.20	QP
11	3.58	32.56	56.00	23.44	QP
12	3.58	30.10	46.00	15.90	Average

5.2. Radiated Emission

5.2.1. Test limits

- 1) FCC part 15C section 15.209
- 2) FCC part 15C section 15.249(a)

5.2.2. Test procedure

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 25GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 KHz and 300KHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 1MHz for Peak detection at frequency above 1GHz.

For Average measurement at frequency above 1GHz. The resolution bandwidth of the test receiver was 1MHz; due to the shortest pulse width T is 116us, according the video bandwidth should not smaller than 1/T, so the video bandwidth is 10Hz.

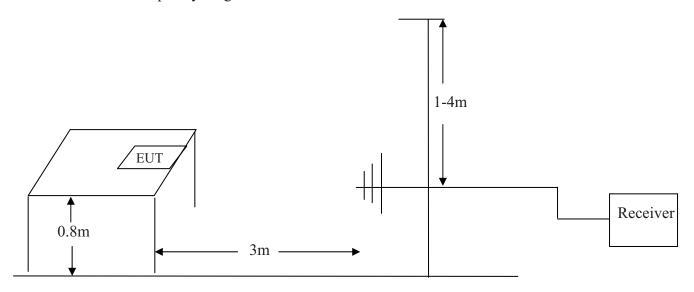
In 18GHz to 25GHz, The EUT was checked by Horn ANT. But the test result is background.

The EUT position(X. Y. Z) were checked and worse case was happened in Y position. So Y position was chose for find measurement.

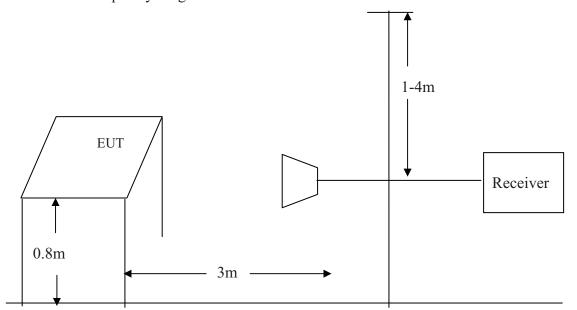
The EUT was tested in Chamber Site.

5.2.3. Test Setup Diagram

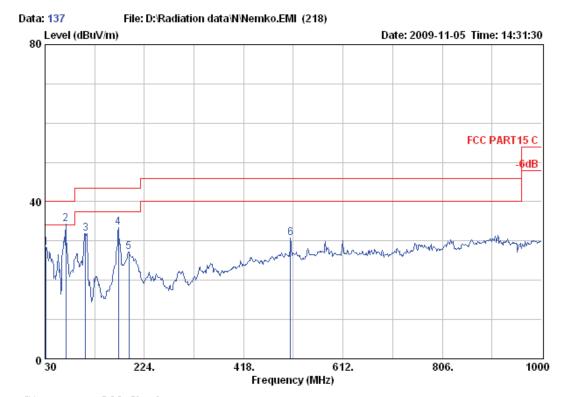
5.1.3.1. Frequency range: 30MHz-1000MHz



5.1.3.2. Frequency range: 1 GHz -25GHz



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Test Site : 966 Chamber Limit : FCC PART15 C

Dis. / Ant. : 3m 25758-3 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

M/N : RF-GGC001

Power : DC 3V from Host input AC 120V/60Hz

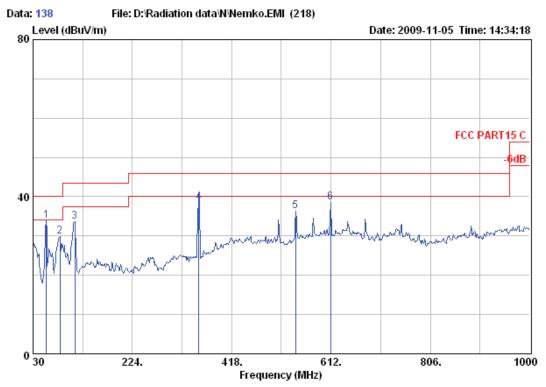
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56%

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	31.94	28.27	40.00	11.73	7.88	19.80	0.59	QP
2	70.74	34.23	40.00	5.77	27.36	6.04	0.83	QP
3	109.54	31.94	43.50	11.56	19.64	11.20	1.10	QP
4	173.56	33.39	43.50	10.11	22.09	9.88	1.42	QP
5	193.93	27.25	43.50	16.25	17.22	8.54	1.49	QP
6	509.18	30.79	46.00	15.21	9.70	18.60	2.49	QP

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Test Site : 966 Chamber Limit : FCC PART15 C

Dis. / Ant. : 3m 25758-3 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

M/N : RF-GGC001

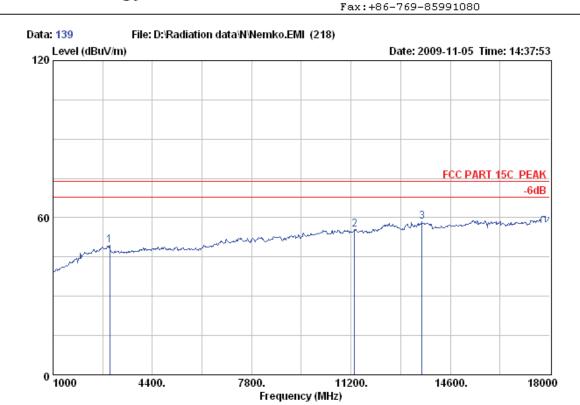
Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56%

	Freq.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
1	56.19	33.78	40.00	6.22	26.03	7.04	0.71	QP
2	82.38	29.92	40.00	10.08	21.28	7.70	0.94	QP
3	111.48	33.71	43.50	9.79	21.33	11.28	1.10	QP
4	353.98	38.49	46.00	7.51	21.36	15.07	2.06	QP
5	543.13	36.26	46.00	9.74	14.29	19.38	2.59	QP
6	611.03	38.54	46.00	7.46	15.27	20.52	2.75	OP

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Test Site : 966 Chamber

Limit : FCC PART 15C PEAK

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

M/N : RF-GGC001

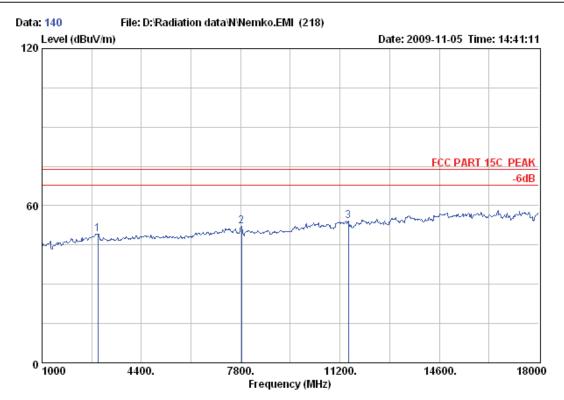
Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56%

	Emission				Ant.	Cable	
Freq.		Limits	_	_			Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2938.00	49.49	74.00	24.51	15.36	31.87	2.26	Peak
211319.00	55.60	74.00	18.40	14.02	38.80	2.78	Peak
313631.00	58.42	74.00	15.58	15.32	40.18	2.92	Peak

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Test Site : 966 Chamber

Limit : FCC PART 15C PEAK

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

M/N : RF-GGC001

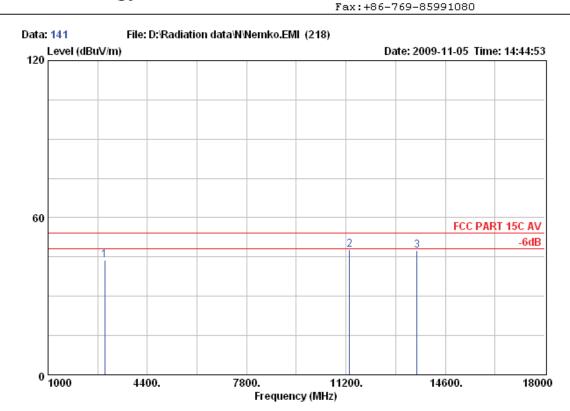
Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56%

		Emission				Ant.	Cable	
	Freq.		Limits	_	_			Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
-								
	1 2904.00	49.22	74.00	24.78	15.12	31.84	2.26	Peak
	2 7834.00	52.00	74.00	22.00	12.50	36.94	2.56	Peak
	311489.00	54.20	74.00	19.80	12.34	39.07	2.79	Peak

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Test Site : 966 Chamber : FCC PART 15C AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

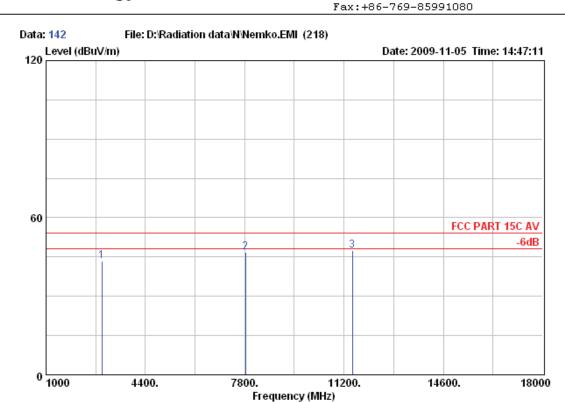
: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Test Mode : RX Mode

	Cable	Ant.				Emission	
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
Average	2.26	31.87	9.62	10.25	54.00	43.75	1 2938.00
Average	2.78	38.80	6.36	6.06	54.00	47.94	211319.00
Average	2.92	40.18	4.38	6.52	54.00	47.48	313631.00

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Test Site : 966 Chamber : FCC PART 15C AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

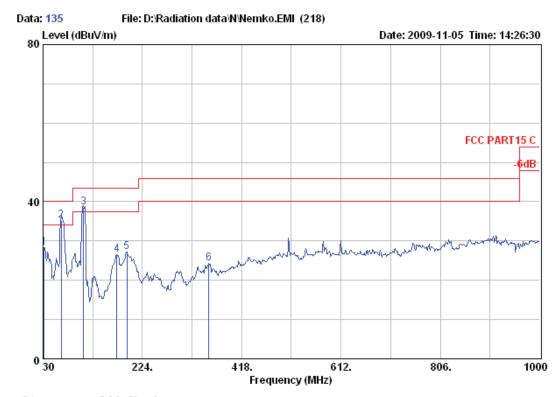
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Test Mode : RX Mode

	Cable	Ant.				Emission	
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
Average	2.26	31.84	9.38	10.52	54.00	43.48	1 2904.00
Average	2.56	36.94	7.39	7.11	54.00	46.89	2 7834.00
Average	2.79	39.07	5.62	6.52	54.00	47.48	311489.00

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Fax:+86-769-85991080



Test Site : 966 Chamber Limit : FCC PART15 C

Dis. / Ant. : 3m 25758-3 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

M/N : RF-GGC001

Power : DC 3V from Host input AC 120V/60Hz

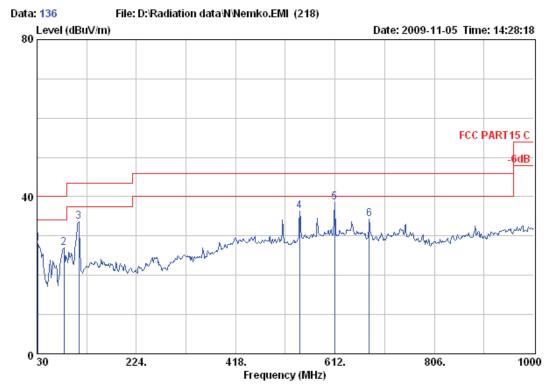
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56%

	Freq.	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Reading (dBuV)	Ant. Factor (dB/m)	Cable Loss (dB)	Remark
1	31.94	28.27	40.00	11.73	7.88	19.80	0.59	QP
2	65.89	35.10	40.00	4.90	28.69	5.60	0.81	QP
3	109.54	38.46	43.50	5.04	26.16	11.20	1.10	QP
4	174.53	26.41	43.50	17.09	15.15	9.84	1.42	QP
5	193.93	27.25	43.50	16.25	17.22	8.54	1.49	QP
6	353.98	24.32	46.00	21.68	7.19	15.07	2.06	QP

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Fax:+86-769-85991080



Test Site : 966 Chamber Limit : FCC PART15 C

Dis. / Ant. : 3m 25758-3 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

M/N : RF-GGC001

Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

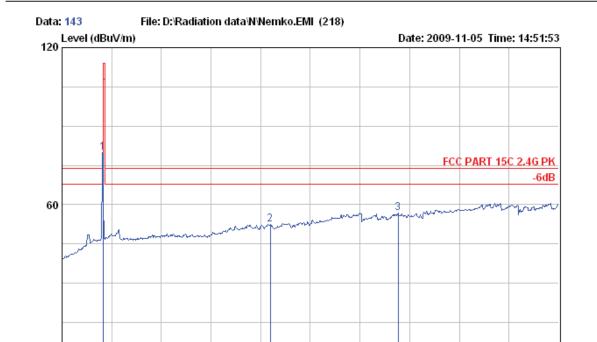
Comment : Temp.:25.2'C Humi.:56%

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	31.94	28.01	40.00	11.99	7.62	19.80	0.59	QP
2	82.38	26.92	40.00	13.08	18.28	7.70	0.94	QP
3	111.48	33.71	43.50	9.79	21.33	11.28	1.10	QP
4	543.13	36.26	46.00	9.74	14.29	19.38	2.59	QP
5	611.03	38.54	46.00	7.46	15.27	20.52	2.75	QP
6	678.93	34.24	46.00	11.76	10.32	21.02	2.90	QP

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14600.

18000



Test Site : 966 Chamber

Limit : FCC PART 15C 2.4G PK

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

7800.

Frequency (MHz)

11200.

EUT : Gamecube Wireless Controller

4400.

M/N : RF-GGC001

Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

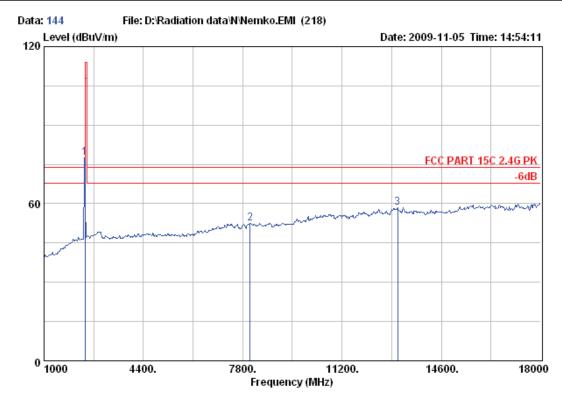
Comment : Temp.:25.2'C Humi.:56%

Test Mode : TX Mode CHO

	Emission				Ant.	Cable	
Freq.		Limits	_	_			Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2402.00	79.76	114.00	34.24	46.03	31.50	2.23	Peak
2 8123.00	52.43	74.00	21.57	53.87	36.97	2.58	Peak
312509.00	56.95	74.00	17.05	14.09	40.01	2.85	Peak

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Fax:+86-769-85991080



Test Site : 966 Chamber

Limit : FCC PART 15C 2.4G PK

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

M/N : RF-GGC001

Power : DC 3V from Host input AC 120V/60Hz

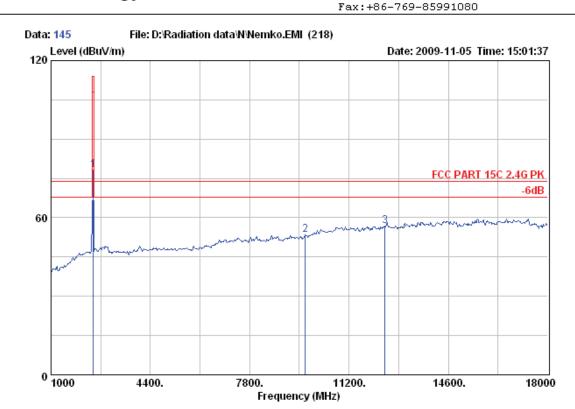
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56%

Test Mode : TX Mode CHO

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
-								
	1 2402.00	77.66	114.00	36.34	43.93	31.50	2.23	Peak
	2 8055.00	52.32	74.00	21.68	53.76	36.99	2.58	Peak
	313104.00	58.45	74.00	15.55	52.82	40.32	2.89	Peak

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Test Site : 966 Chamber

Limit : FCC PART 15C 2.4G PK

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

M/N : RF-GGC001

Power : DC 3V from Host input AC 120V/60Hz

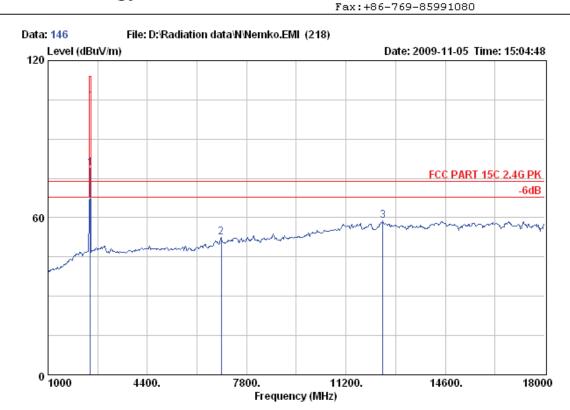
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56%

Test Mode : TX Mode CH39

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
-								
	1 2441.00	78.18	114.00	35.82	44.41	31.54	2.23	Peak
	2 9704.00	53.32	74.00	20.68	12.94	37.70	2.68	Peak
	312424.00	56.77	74.00	17.23	13.95	39.97	2.85	Peak

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Test Site : 966 Chamber

: FCC PART 15C 2.4G PK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

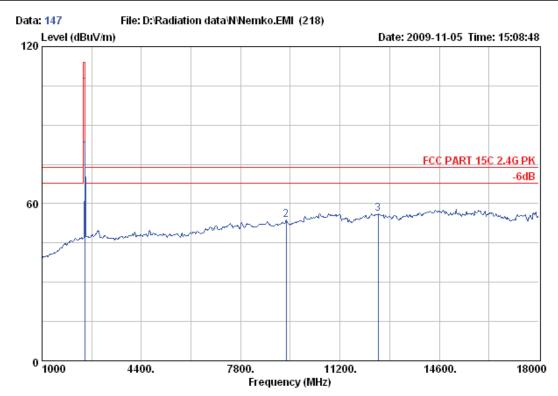
Humi.:56%

Comment : Temp.:25.2'C
Test Mode : TX Mode CH39

	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	_	_			Remark
1 2441.00	78.73	114.00	35.27	44.96	31.54	2.23	Peak
2 6933.00	52.40	74.00	21.60	13.03	36.86	2.51	Peak
312458.00	58.70	74.00	15.30	15.87	39.98	2.85	Peak

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Test Site : 966 Chamber

: FCC PART 15C 2.4G PK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

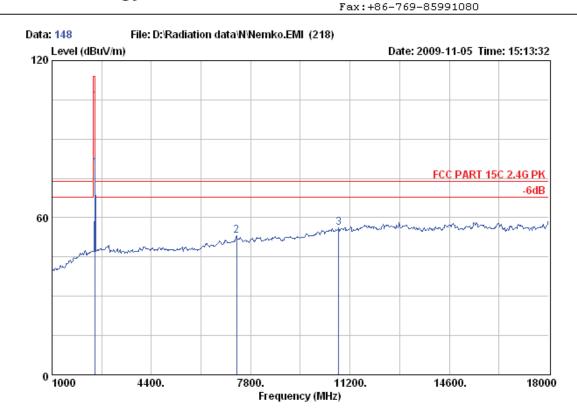
Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C
Test Mode : TX Mode CH79 Humi.:56%

	Emission				Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2479.00	79.81	114.00	34.19	46.00	31.58	2.23	Peak
2 9364.00	53.68	74.00	20.32	13.63	37.39	2.66	Peak
312509.00	56.04	74.00	17.96	13.18	40.01	2.85	Peak

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Test Site : 966 Chamber

Limit : FCC PART 15C 2.4G PK

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

M/N : RF-GGC001

Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56%

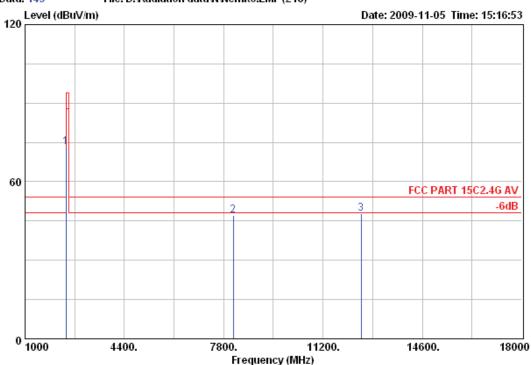
Test Mode : TX Mode CH79

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
-								
	1 2479.00	79.04	114.00	34.96	45.23	31.58	2.23	Peak
	2 7324.00	53.06	74.00	20.94	13.70	36.83	2.53	Peak
	310809.00	56.32	74.00	17.68	15.27	38.30	2.75	Peak

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Test Site : 966 Chamber

: FCC PART 15C2.4G AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

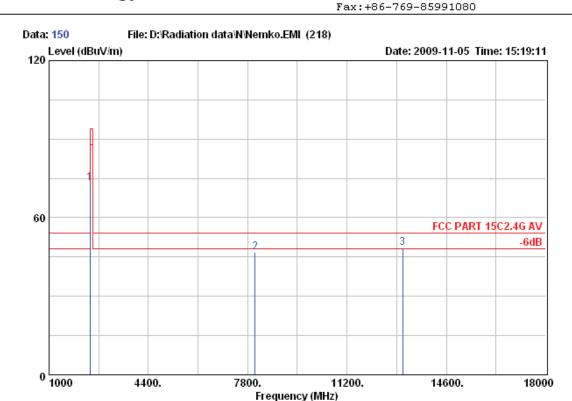
: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56%
Test Mode : TX Mode CHO

Freq. (MHz)	Emission Level (dBuV/m)	Limits (dBuV/m)	_	Reading (dBuV)		Cable Loss (dB)	Remark
1 2402.00 2 8123.00	73.25 47.25	94.00 54.00	20.75 6.75	39.52 7.70	31.50 36.97	2.23	Average Average
312509.00	47.94	54.00	6.06	5.08	40.01	2.85	Average

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Test Site : 966 Chamber

: FCC PART 15C2.4G AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

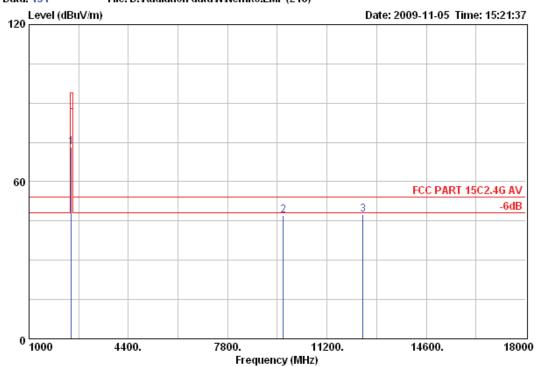
Test Engineer : Jade

Comment : Temp.:25.2'C Humi.:56% Test Mode : TX Mode CHO

	Cable	Ant.				Emission	
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
Average	2.23	31.50	39.53	20.74	94.00	73.26	1 2402.00
Average	2.58	36.99	7.29	7.14	54.00	46.86	2 8055.00
Average	2.89	40.32	5.23	5.56	54.00	48.44	313104.00

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Test Site : 966 Chamber

: FCC PART 15C2.4G AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

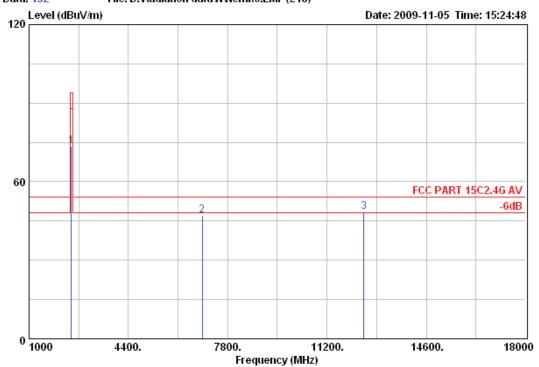
Humi.:56%

Comment : Temp.:25.2'C
Test Mode : TX Mode CH39

	Cable	Ant.				Emission	
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
Average	2.23	31.54	39.42	20.81	94.00	73.19	1 2445.00
Average	2.68	37.70	6.85	6.77	54.00	47.23	2 9704.00
Average	2.85	39.97	4.59	6.59	54.00	47.41	312424.00

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Test Site : 966 Chamber

: FCC PART 15C2.4G AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

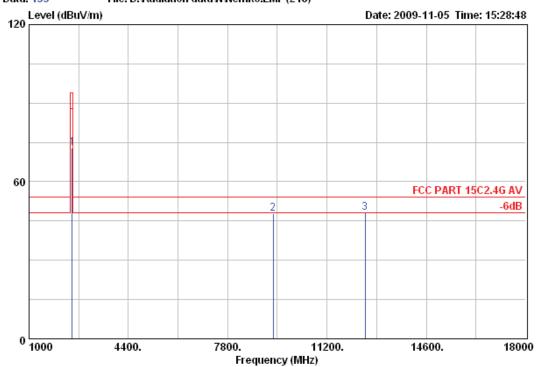
Test Engineer : Jade

Comment : Temp.:25.2'C
Test Mode : TX Mode CH39 Humi.:56%

	Cable	Ant.				Emission	
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
Average	2.23	31.54	39.92	20.31	94.00	73.69	1 2445.00
Average	2.51	36.86	7.81	6.82	54.00	47.18	2 6933.00
Average	2.85	39.98	5.49	5.68	54.00	48.32	312458.00

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Test Site : 966 Chamber

: FCC PART 15C2.4G AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

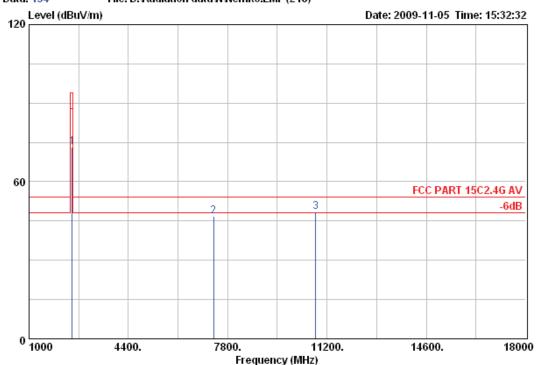
Test Engineer : Jade

Comment : Temp.:25.2'C
Test Mode : TX Mode CH79 Humi.:56%

	Cable	Ant.				Emission	
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
Average	2.23	31.58	39.15	21.04	94.00	72.96	1 2479.00
Average	2.66	37.39	7.69	6.26	54.00	47.74	2 9364.00
Average	2.85	40.01	5.43	5.71	54.00	48.29	312509.00

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Test Site : 966 Chamber

: FCC PART 15C2.4G AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Humi.:56%

Comment : Temp.:25.2'C
Test Mode : TX Mode CH79

	Cable	Ant.				Emission	
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)
Average	2.23	31.58	39.43	20.76	94.00	73.24	1 2479.00
Average	2.53	36.83	7.60	7.04	54.00	46.96	2 7324.00
Average	2.75	38.30	7.26	5.69	54.00	48.31	310809.00

5.3. 20dB Bandwidth

5.3.1. Test limits

No requirement.

5.3.2. Test procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Connect EUT RF output port to the spectrum analyzer through an RF attenuator.
- 3. Set SA Center Frequency = Operation frequency.
- 4. Set SA trace max hold, then view.

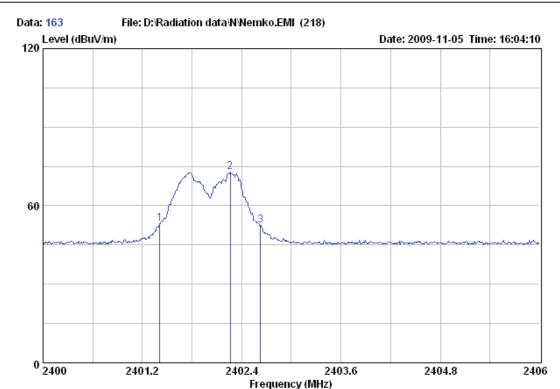
5.3.3.Test result

Pass

Test Channel	Frequency MHz	Max 20dB bandwidth MHz
СН0	2402	1.22
CH39	2440	1.18
CH79	2479	1.17

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

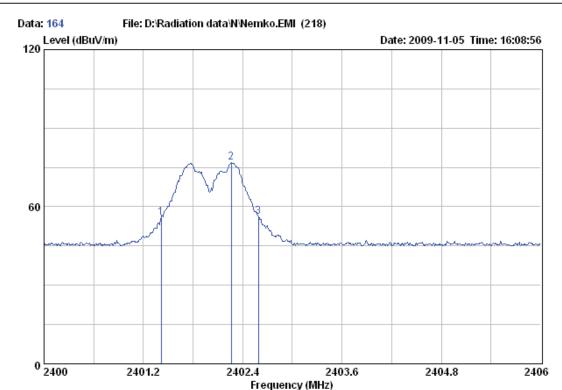
Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	_	_			Remark
1	2401.41	53.02	/	/	19.29	31.50	2.23	Peak
2	2402.26	72.76	/	/	39.03	31.50	2.23	Peak
3	2402.63	52.33	/	/	18.60	31.50	2.23	Peak

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

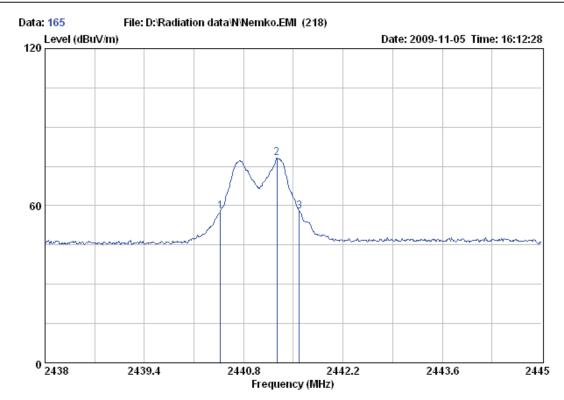
Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

	Emission				Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2401.42	55.91	/	/	22.18	31.50	2.23	Peak
2 2402.26	76.83	/	/	43.10	31.50	2.23	Peak
3 2402.59	56.23	/	/	22.50	31.50	2.23	Peak

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

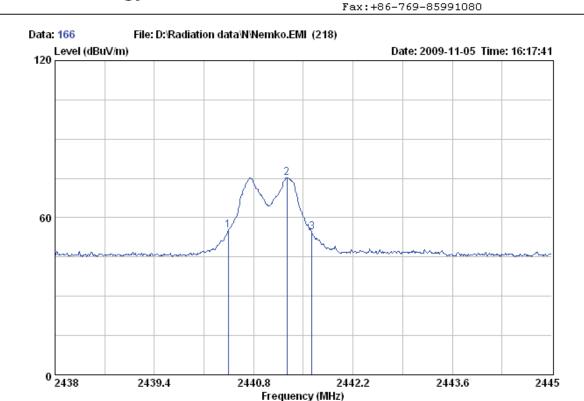
: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C
Test Mode : TX Mode CH39 Humi.:56%

	Emission				Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2440.47	57.84	/	/	24.07	31.54	2.23	Peak
2 2441.27	78.15	/	/	44.38	31.54	2.23	Peak
3 2441.58	57.98	/	/	24.21	31.54	2.23	Peak

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

Power : DC 3V from Host input AC 120V/60Hz

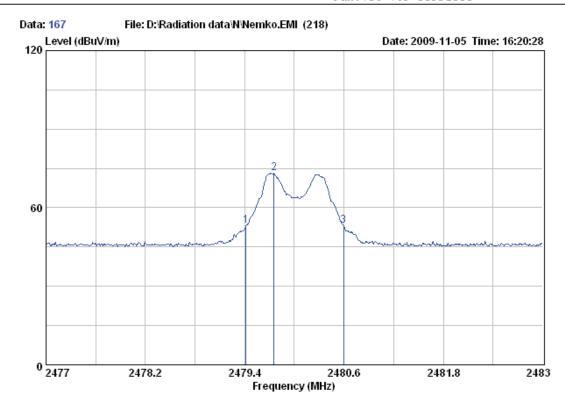
Test Engineer : Jade

Comment : Temp.:25.2'C
Test Mode : TX Mode CH39 Humi.:56%

	Emission				Ant.	Cable	
Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1 2440.44	55.17	/	/	21.40	31.54	2.23	Peak
2 2441.27	75.37	/	/	41.60	31.54	2.23	Peak
3 2441.62	54.55	/	/	20.78	31.54	2.23	Peak

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Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

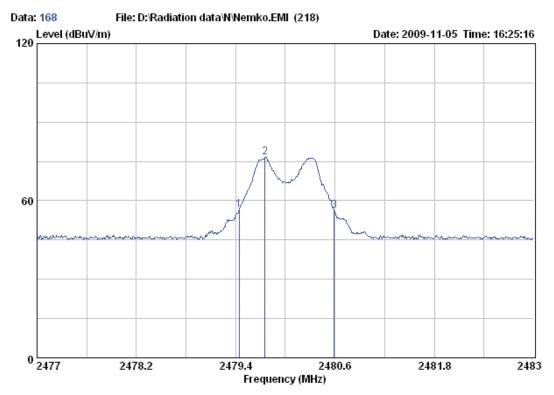
Humi.:56%

Comment : Temp.:25.2'C
Test Mode : TX Mode CH79

	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	_	_			Remark
1 2479.42	53.03	/	/	19.22	31.58	2.23	Peak
2 2479.75	73.12	/	/	39.31	31.58	2.23	Peak
3 2480.59	53.20	/	/	19.39	31.58	2.23	Peak

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Fax:+86-769-85991080



Test Site : 966 Chamber

Limit

Dis. / Ant. : 3m 3117

Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C
Test Mode : TX Mode CH79 Humi.:56%

	Emission				Ant.	Cable	
Freq. (MHz)	Level (dBuV/m)	Limits (dBuV/m)	_	_			Remark
1 2479.44	56.40	/	/	22.59	31.58	2.23	Peak
2 2479.75	76.66	/	/	42.85	31.58	2.23	Peak
3 2480.59	56.21	/	/	22.40	31.58	2.23	Peak

5.4. Band Edge

5.4.1. Test limits

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.

5.4.2. Test procedure

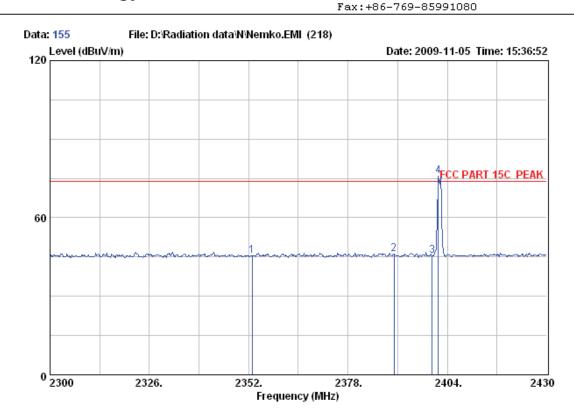
- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upperband-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

5.4.3. Test result

PASS.

The test plots as following:

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Test Site : 966 Chamber

: FCC PART 15C PEAK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

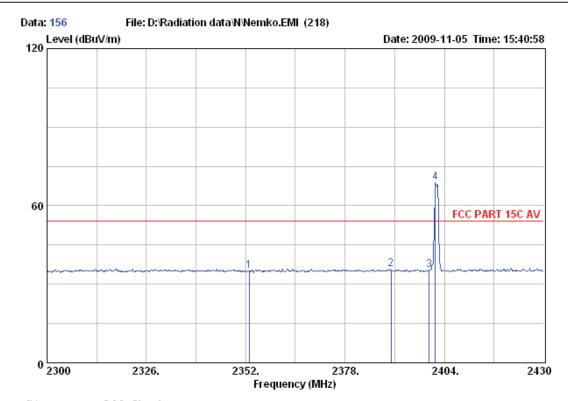
: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

			Emission				Ant.	Cable	
		Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
		(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
-									
	1	2352.91	45.39	74.00	28.61	11.72	31.45	2.22	Peak
	2	2390.00	46.29	74.00	27.71	12.59	31.48	2.22	Peak
	3	2400.00	45.51	74.00	28.49	11.78	31.50	2.23	Peak
	4	2401.66	75.90	74.00	-1.90	42.17	31.50	2.23	Peak

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Test Site : 966 Chamber : FCC PART 15C AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

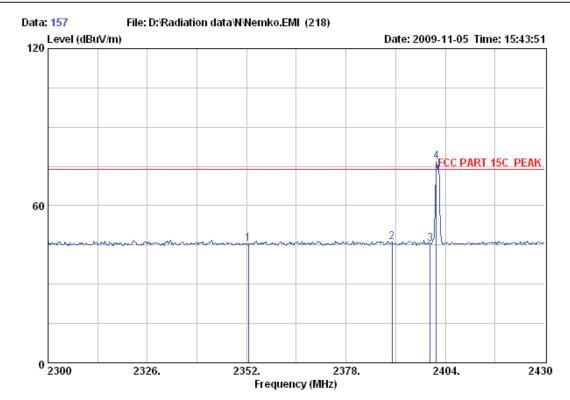
: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

	Cable	Ant.				Emission		
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.	
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)	
Average	2.22	31.45	1.48	18.85	54.00	35.15	2352.91	1
Average	2.22	31.48	2.20	18.10	54.00	35.90	2390.00	2
Average	2.23	31.50	1.78	18.49	54.00	35.51	2400.00	3
Average	2.23	31.50	35.26	-14.99	54.00	68.99	2401.66	4

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Test Site : 966 Chamber

: FCC PART 15C PEAK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

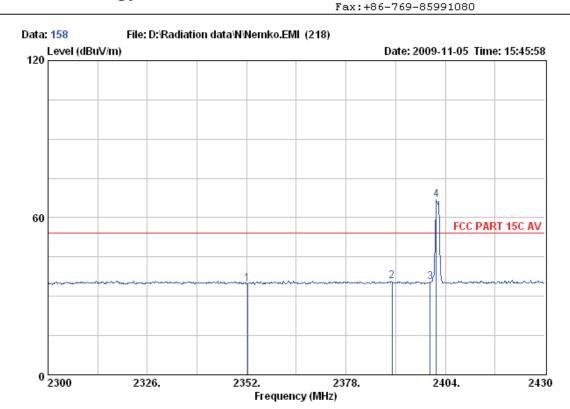
: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	2352.39	45.29	74.00	28.71	11.62	31.45	2.22	Peak
2	2390.00	46.29	74.00	27.71	12.59	31.48	2.22	Peak
3	2400.00	45.51	74.00	28.49	11.78	31.50	2.23	Peak
4	2401.66	76.90	74.00	-2.90	43.17	31.50	2.23	Peak

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Test Site : 966 Chamber : FCC PART 15C AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

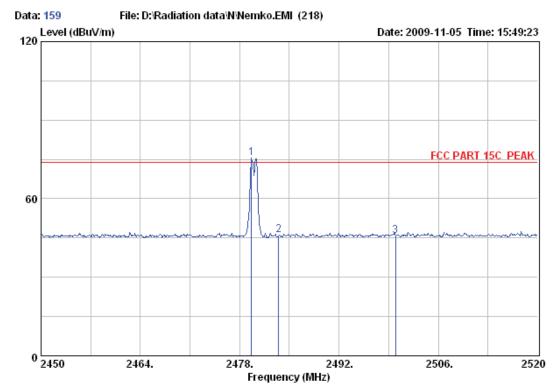
: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

	Cable	Ant.				Emission		
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.	
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)	
Average	2.22	31.45	1.17	19.16	54.00	34.84	2352.26	1
Average	2.22	31.48	2.20	18.10	54.00	35.90	2390.00	2
Average	2.23	31.50	1.78	18.49	54.00	35.51	2400.00	3
Average	2.23	31.50	33.26	-12.99	54.00	66.99	2401.66	4

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Fax:+86-769-85991080



Test Site : 966 Chamber

: FCC PART 15C PEAK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

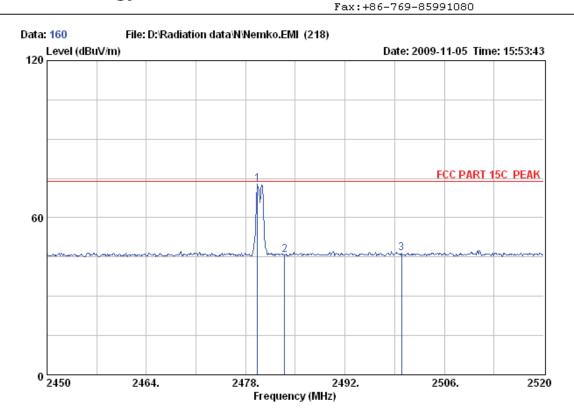
Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C
Test Mode : TX Mode CH79 Humi.:56%

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	2479.68	75.57	74.00	-1.57	41.76	31.58	2.23	Peak
2	2483.50	46.10	74.00	27.90	12.29	31.58	2.23	Peak
3	2500.00	45.65	74.00	28.35	11.82	31.60	2.23	Peak

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Test Site : 966 Chamber

: FCC PART 15C PEAK Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

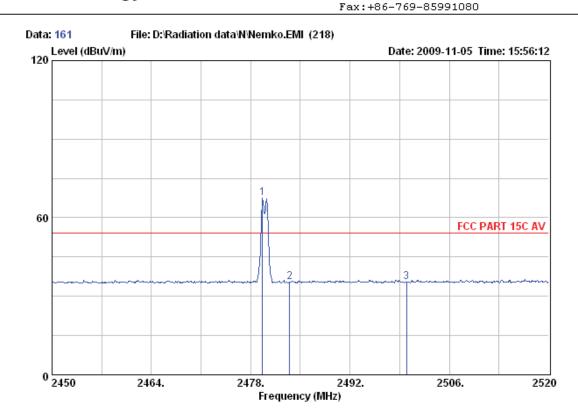
Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

Comment : Temp.:25.2'C
Test Mode : TX Mode CH79 Humi.:56%

		Emission				Ant.	Cable	
	Freq.		Limits	_	_			Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
	2470 60	70 70	74 00	1 20	20.00	24 50	2 22	D1-
Т	2479.68	72.70	74.00	1.30	38.89	31.58	4.43	Peak
2	2483.50	45.85	74.00	28.15	12.04	31.58	2.23	Peak
3	2500.00	46.44	74.00	27.56	12.61	31.60	2.23	Peak

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Test Site : 966 Chamber : FCC PART 15C AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: VERTICAL

EUT : Gamecube Wireless Controller

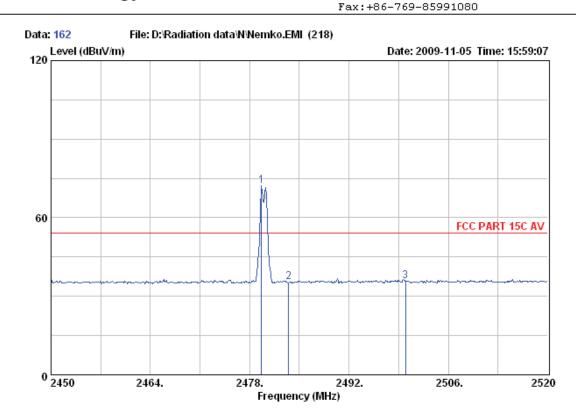
: RF-GGC001 M/N

: DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

		Emission				Ant.	Cable	
	Freq.	Level	Limits	Margin	Reading	Factor	Loss	Remark
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB/m)	(dB)	
1	2479.68	67.66	54.00	-13.66	33.85	31.58	2.23	Average
2	2483.50	35.48	54.00	18.52	1.67	31.58	2.23	Average
3	2500.00	35.51	54.00	18.49	1.68	31.60	2.23	Average

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Test Site : 966 Chamber : FCC PART 15C AV Limit

Dis. / Ant. : 3m 3117 Ant. Pol.: HORIZONTAL

EUT : Gamecube Wireless Controller

: RF-GGC001 M/N

Power : DC 3V from Host input AC 120V/60Hz

Test Engineer : Jade

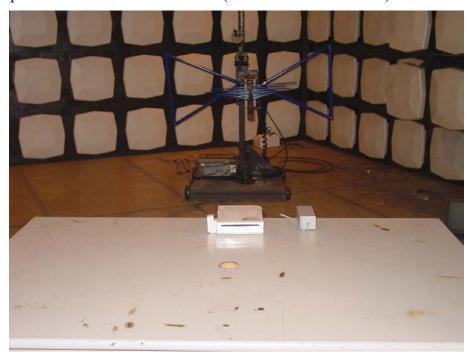
	Cable	Ant.				Emission		
Remark	Loss	Factor	Reading	Margin	Limits	Level	Freq.	
	(dB)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(MHz)	
Average	2.23	31.58	38.44	-18.25	54.00	72.25	1 2479.68	
Average	2.23	31.58	1.49	18.70	54.00	35.30	2 2483.50	
Average	2.23	31.60	2.05	18.12	54.00	35.88	3 2500.00	

6. PHOTOGRAPHS OF TEST SET-UP

6.1. Set-up for conducted measurements



6.2. Set-up for radiated measurements(30MHz to 1000MHz)



6.3. Set-up for radiated measurements(above 1G)



7. PHOTOGRAPHS OF THE EUT





Figure 2 General Appearance of the EUT



Figure 3
Inside View of the EUT



Figure 4 General Appearance of the PCB

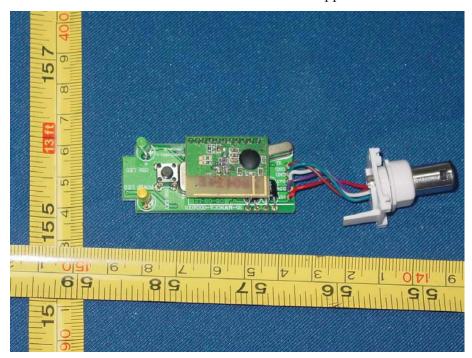


Figure 5 General Appearance of the PCB

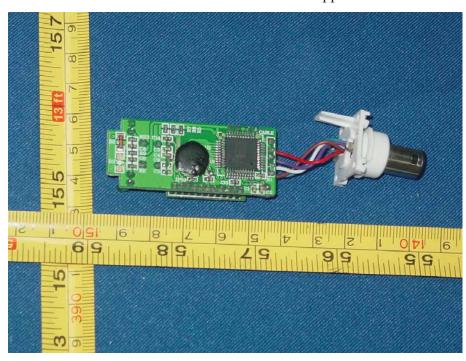


Figure 6 General Appearance of the PCB

