Neutron Engineering Inc.-

FCC/IC Radio Test Report

FCC ID: X5B-PL7608B IC: 8814A-PL7608B

This report concerns (check one) : Criginal Grant Class II Change

Issued Date Project No. Equipment	ec. 05, 2012 211C113A fterglow Remote For Wii	
Model Name for FCC	L-7608	
Model Name for IC	L-7608B	
Applicant	erformance Designed Products, LLC	
Address	4144 Ventura Blvd. Suite 200, Sherma A 91423	ın Oaks,
Manufacturer	erformance Designed Products, LLC	
Address	4144 Ventura Blvd. Suite 200, Sherma A 91423	ın Oaks,

Tested by: Neutron Engineering Inc. EMC Laboratory Date of Receipt: Nov. 20, 2012 Date of Test: Nov. 20, 2012 ~ Dec. 04, 2012

Testing Engineer	:	David Mao
Technical Manager	:	(David Mao) (Leo Hung)
Authorized Signatory	:	Seeren Lu)

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China. TEL : (0769) 8318-3000 FAX : (0769) 8319-6000



Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **CHINA**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

Neutron's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **Neutron** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **Neutron** issued reports.

Neutron's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **Neutron-self**, extracts from the test report shall not be reproduced except in full with **Neutron**'s authorized written approval.

Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.



Table of Contents	Page
1. CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3. GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	11
3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	
3.5 DESCRIPTION OF SUPPORT UNITS	13
	_
4. EMC EMISSION TEST	14
4.1 CONDUCTED EMISSION MEASUREMENT	14
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS 4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING	14 14
4.1.3 TEST PROCEDURE	15
4.1.4 DEVIATION FROM TEST STANDARD	15
4.1.5 TEST SETUP	15
4.1.6 EUT OPERATING CONDITIONS 4.1.7 TEST RESULTS	15 16
4.2 RADIATED EMISSION MEASUREMENT	10
4.2.1 RADIATED EMISSION MEASUREMENT 4.2.1 RADIATED EMISSION LIMITS	17
4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING	18
4.2.3 TEST PROCEDURE	19
4.2.4 DEVIATION FROM TEST STANDARD	19 20
4.2.5 TEST SETUP 4.2.6 EUT OPERATING CONDITIONS	20 21
4.2.7 TEST RESULTS (9K-30MHZ)	22
4.2.8 TEST RESULTS (BETWEEN30 – 1000 MHZ)	23
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	27
5 . NUMBER OF HOPPING CHANNEL	45
5.1 APPLIED PROCEDURES / LIMIT	45
5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	45
5.1.2 TEST PROCEDURE 5.1.3 DEVIATION FROM STANDARD	45 45
5.1.4 TEST SETUP	45 45
5.1.5 EUT OPERATION CONDITIONS	45
5.1.6 TEST RESULTS	46

Neutron Engineering Inc.				
Table of Contents	Page			
6 . AVERAGE TIME OF OCCUPANCY	47			
6.1 APPLIED PROCEDURES / LIMIT	47			
6.1.1 MEASUREMENT INSTRUMENTS LIST	47			
6.1.2 TEST PROCEDURE	47			
6.1.3 DEVIATION FROM STANDARD	47			
6.1.4 TEST SETUP	48			
6.1.5 EUT OPERATION CONDITIONS	48			
6.1.6 TEST RESULTS	49			
7 . HOPPING CHANNEL SEPARATION MEASUREMENT	55			
7.1 APPLIED PROCEDURES / LIMIT	55			
7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	55			
7.1.2 TEST PROCEDURE	55			
7.1.3 DEVIATION FROM STANDARD	55			
7.1.4 TEST SETUP	55			
7.1.5 EUT OPERATION CONDITIONS	55			
7.1.6 TEST RESULTS	56			
8 . BANDWIDTH TEST	58			
8.1 APPLIED PROCEDURES / LIMIT	58			
8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	58			
8.1.2 TEST PROCEDURE	58			
8.1.3 DEVIATION FROM STANDARD	58			
8.1.4 TEST SETUP	58			
8.1.5 EUT OPERATION CONDITIONS 8.1.6 TEST RESULTS	58 59			
9 . PEAK OUTPUT POWER TEST	61			
9.1 APPLIED PROCEDURES / LIMIT	61			
9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	61			
9.1.2 TEST PROCEDURE 9.1.3 DEVIATION FROM STANDARD	61 61			
9.1.4 TEST SETUP	61			
9.1.5 EUT OPERATION CONDITIONS	61			
9.1.6 TEST RESULTS	62			
10 . ANTENNA CONDUCTED SPURIOUS EMISSION	64			
10.1 APPLIED PROCEDURES / LIMIT	64			
10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	64			
10.1.2 TEST PROCEDURE	64			
10.1.3 DEVIATION FROM STANDARD	64			
10.1.4 TEST SETUP	64			
10.1.5 EUT OPERATION CONDITIONS	64			
10.1.6 TEST RESULTS	65			

BTL %	Neutron Engineering Inc
VEUTRON	Table of Contents

Page

11 . EUT TEST PHOTO

71



1. CERTIFICATION

Equipment Brand Name Model Name for FCC Model Name for IC Applicant Factory Address Date of Test Test Item	· · · · · · · · · · · · · · · · · · ·	PL-7608B Performance Designed Products, LLC Performance Designed Products, LLC 14144 Ventura Blvd. Suite 200, Sherman Oaks, CA 91423 Nov. 20, 2012 ~ Dec. 04, 2012 ENGINEERING SAMPLE
Standards		FCC Part15, Subpart C(15.247) / ANSI C63.4 : 2009 FCC Public Notice DA 00-705, March 30, 2000. Canada RSS-210:2010

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-1-1211C113A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

APPLIED STANDARD: 47 CFR Part 15, Subpart C; Canada RSS-210:2010						
Standar	d Section					
RSS-210	47 CFR Part 15	Test Item	Judgment	Remark		
RSS-GEN 7.2.2	15.207	Conducted Emission	-	N/A		
RSS-210 Annex 8 (A8.1d)	15.247(d)	Antenna conducted Spurious Emission	PASS			
RSS-210 Annex 8 (A8.1d)	15.247 (a)(1)	Hopping Channel Separation	PASS			
RSS-210 Annex 8 (A8.1b)	15.247 (b)(1)	Peak Output Power	PASS			
RSS-210 Annex 8 (A8.1a)	15.247(d) 15.209	Radiated Spurious Emission	PASS			
RSS-210 Annex 8 (A8.4(2))	15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS			
RSS-210 Annex 8 (A8.5)	Annex 8 15.247 Dwell Time		PASS			
RSS-Gen 7.2.3	15.205	Restricted Bands	PASS			
RSS-210 Annex 8 (A8.5)	15.203	Antenna Requirement	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this test report

(2) According to FCC Public Notice DA 00-705, March 30, 2000.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number for FCC 319330 Neutron's test firm number for IC 4428B-1

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** % \circ

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03		200MHz ~ 1,000MHz	Н	3.94	
DG-CB03		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz-40GHz	V	4.04	
		18GHz-40GHz	Н	4.01	

Neutron Engineering Inc.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Afterglow Remote For Wii		
Brand Name	Afterglow		
Model Name for FCC	PL-7608		
Model Name for IC	PL-7608B		
Model Difference	N/A		
Product Description	N/A The EUT is a Afterglow Remote For Wii. Operation Frequency: 2402~2480 MHz Modulation Technology: GFSK(1Mbps) Bit Rate of Transmitter GFSK(1Mbps) Number of Channel: 79 CH, Please see note 2.(Page 10) Antenna Designation: Please see note 3.(Page 10) Antenna Gain(Peak): Please see note 3.(Page 10) Output Power: -3.46 dBm (1Mbps) Based on the application, features, or specification exhibited i User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please		
Power Source	DC voltage supplied from 2*AA size battery.		
Power Rating	DC 3V		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Neutron Engineering Inc.—

2.

		Chann	el List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3.

Table for Filed Antenna

Ant.	Brand	Model Name	e Antenna Type	Connector	Gain (dBi)				
1	N/A	N/A	PIFA	N/A	1.76				



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description		
Mode 1	TX Mode NOTE (1)		
Mode 2	RX Mode NOTE (1)		

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Emission			
Final Test Mode Description			
N/A	" N/A" denotes test is not applicable in this test report.		

Note: The Equipment will be connected to a controller, however that controller is powered on Equipment only without connecting to the AC Source. Therefore, AC Power Line Conducted emission is not required for this EUT.

For Radiated Emission			
Final Test Mode	Description		
Mode 1	TX Mode NOTE (1)		
Mode 2	RX Mode NOTE (1)		

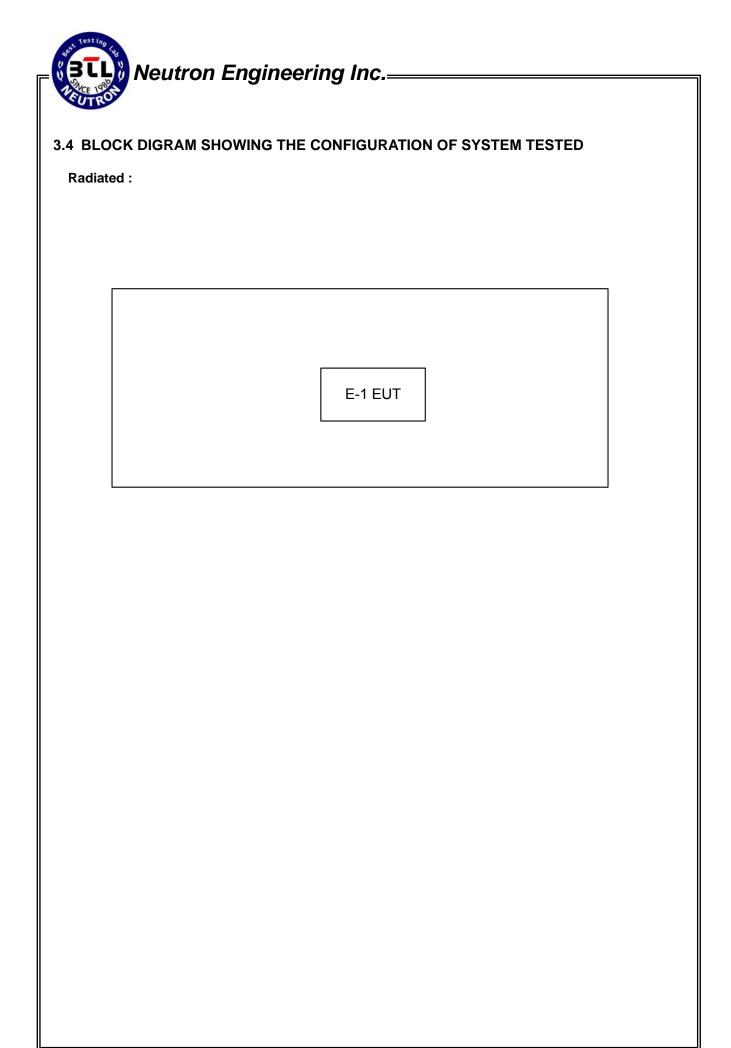
Note:

(1) The measurements are performed at the high, middle, low available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output powe r selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: OEM_FCC_EEPROM_UTILITY_TOD				
Frequency	2402 MHz	2441 MHz	2480 MHz		
Parameters-1Mbps	N/A	N/A	N/A		





3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
E-1	Afterglow Remote For Wii	Afterglow	PL-7608	X5B-PL7608B/ 8814A-PL7608B	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

Note:

(1) For detachable type I/O cable should be specified the length in m in $\[\]$ Length $\]$ column.



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard	
FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stanuaru	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR	
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR	

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	May.04.2013
2	LISN	R&S	ENV216	100087	May.04.2013
3	Test Cable	N/A	C_17	N/A	Mar.28.2013
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	May.04.2013
5	50Ω Terminator	SHX	TF2-3G-A	08122902	May.04.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of Equipment List is One Year.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



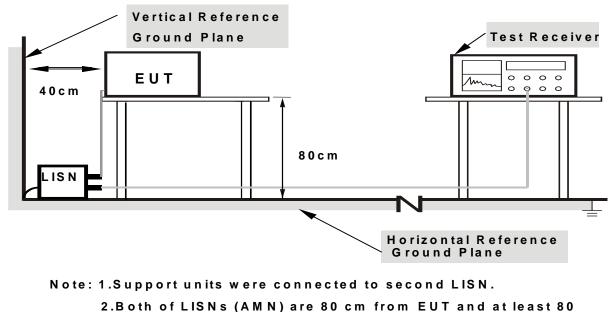
4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



from other units and other metal planes

4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT is continue Transmitter/Receive data or Hopping on mode.



4.1.7 TEST RESULTS

Remark

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note ... If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform In this case, a "*" marked in AVG Mode column of Interference Voltage Measured •
- (2) Measuring frequency range from 150KHz to 30MHz.

EUT:	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature:	-	Relative Humidity:	-
Test Power:	-	Phase:	-
Test Mode:	N/A		

Note:" N/A" denotes test is not applicable in this test report.



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

Neutron Engineering Inc.—

4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	May.25.2013
2	Amplifier	HP	8447D	2944A09673	May.04.2013
3	Test Receiver	R&S	ESCI	100382	May.04.2013
4	Test Cable	N/A	C-01_CB03	N/A	Jun.30.2013
5	Antenna	ETS	3115	00075789	May.25.2013
6	Amplifier	Agilent	8449B	3008A02274	May.04.2013
7	Spectrum	Agilent	E4408B	US39240143	Nov.16.2013
8	Test Cable	HUBER+SUH NER	C-45	N/A	May.02.2013
9	Controller	СТ	SC100	N/A	N/A
10	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.04.2013
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.23.2013
12	Horn Antenna	EMCO	3115	9605-4803	May.25.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, Average=PK-duty cycle	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector
Start ~ Stop Frequency	90kHz~110kHz for QP detector
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector
Start ~ Stop Frequency	490kHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector



4.2.3 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

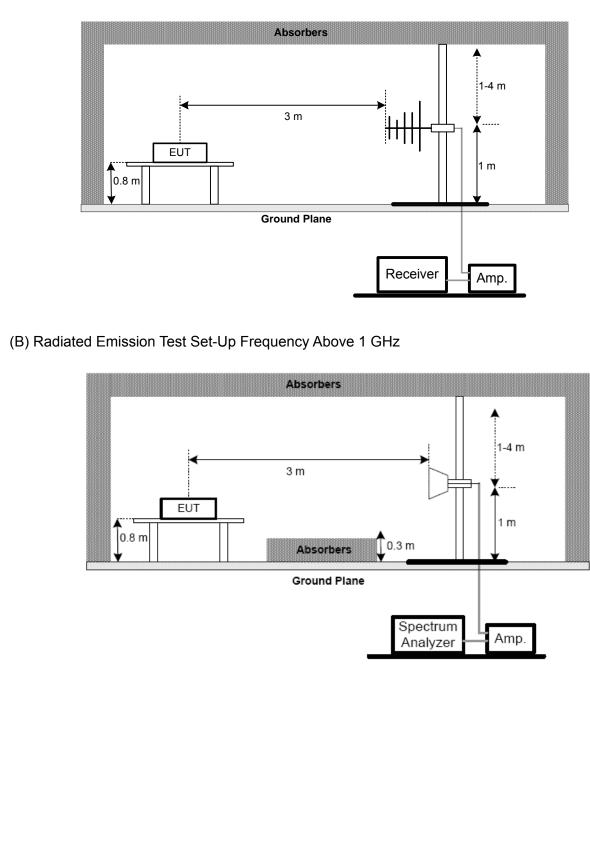
4.2.4 DEVIATION FROM TEST STANDARD

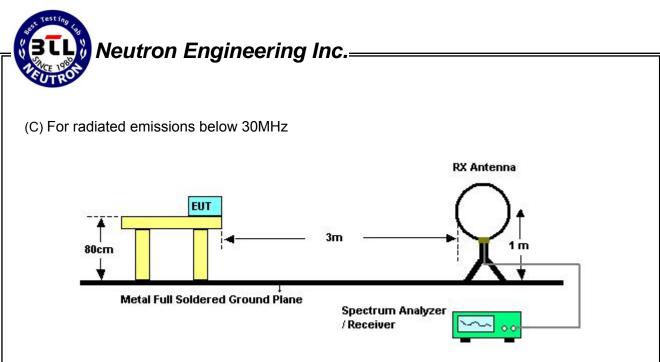
No deviation

Neutron Engineering Inc.=

4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz





4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

Neutron Engineering Inc.=

4.2.7 TEST RESULTS (9K-30MHZ)

Temperature :25 °CRelative Humidity :58 %Pressure :1010 hPaTest Voltage :DC 3V	EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Pressure : 1010 hPa Test Voltage : DC 3V	Temperature :	25 ℃	Relative Humidity :	58 %
	Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode : TX Mode	Test Mode :	TX Mode		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.0097	0°	20.35	24.30	44.65	127.89	-83.24	AV
0.0097	0°	21.68	24.30	45.98	147.89	-101.91	PK
0.0232	0°	19.05	24.09	43.14	120.28	-77.13	AV
0.0232	0°	20.87	24.09	44.96	140.28	-95.31	PK
0.0376	0°	18.64	23.19	41.83	116.11	-74.28	AV
0.0376	0°	22.24	23.19	45.43	136.11	-90.68	PK
0.0675	0°	20.54	22.05	42.59	111.02	-68.43	AV
0.0675	0°	23.87	22.05	45.92	131.02	-85.10	PK
0.2648	0°	21.68	20.36	42.04	99.15	-57.10	AVG
0.2648	0°	23.57	20.36	43.93	119.15	-75.21	PK
1.2437	0°	24.85	19.58	44.43	65.71	-21.28	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.0099	90°	16.25	24.30	40.55	127.72	-87.17	AVG
0.0099	90°	21.68	24.30	45.98	147.72	-101.74	PK
0.0265	90°	16.33	23.89	40.22	119.16	-78.94	AVG
0.0265	90°	19.25	23.89	43.14	139.16	-96.02	PK
0.0367	90°	18.64	23.24	41.88	116.32	-74.44	AVG
0.0367	90°	22.35	23.24	45.59	136.32	-90.73	PK
0.0725	90°	20.72	21.95	42.67	110.39	-67.72	AVG
0.0725	90°	24.57	21.95	46.52	130.39	-83.87	PK
0.2465	90°	21.36	20.41	41.77	99.77	-58.00	AVG
0.2465	90°	23.65	20.41	44.06	119.77	-75.71	PK
1.2452	90°	22.17	19.58	41.75	65.70	-23.95	QP

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported $\,{}_{\circ}$
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB); •
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor. \circ

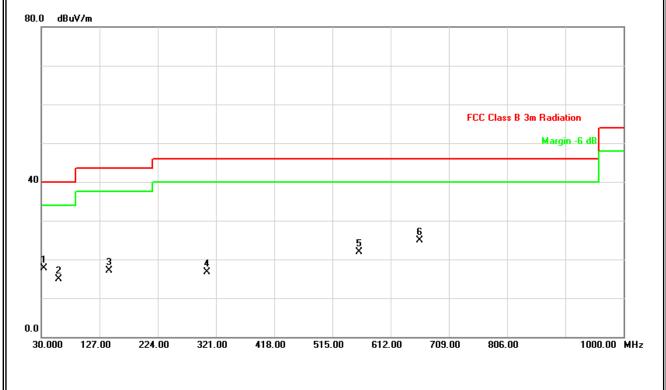
Neutron Engineering Inc.=

4.2.8 TEST RESULTS (BETWEEN30 - 1000 MHZ)

EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX 2402MHz –CH00-1Mbps		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
33.88	V	34.52	-16.89	17.63	40.00	- 22.37	
59.10	V	32.56	-17.62	14.94	40.00	- 25.06	
142.52	V	35.10	-17.95	17.15	43.50	- 26.35	
306.45	V	29.19	-12.51	16.68	46.00	- 29.32	
559.62	V	28.24	-6.39	21.85	46.00	- 24.15	
660.50	V	29.50	-4.67	24.83	46.00	- 21.17	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ∘
- (2) All readings are Peak unless otherwise stated QP in column of [©] Note _□ . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (3) Measuring frequency range from 30MHz to 1000MHz ${\scriptstyle \circ}$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ${\scriptstyle \circ}$

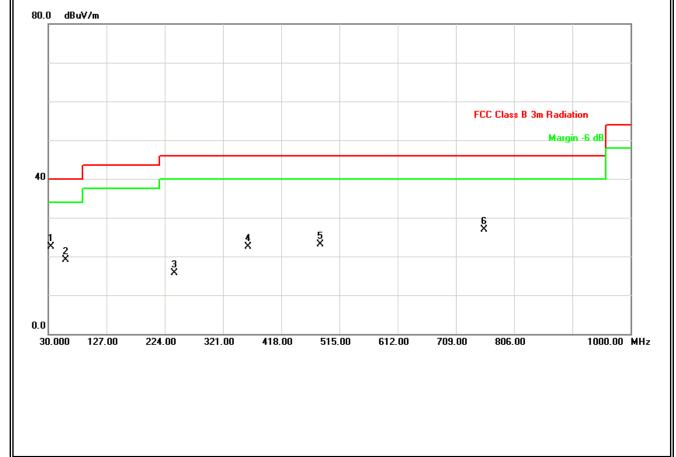




EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX 2402MHz –CH00-1Mbps		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
33.88	Н	39.30	-16.89	22.41	40.00	- 17.59	
59.10	Н	36.77	-17.62	19.15	40.00	- 20.85	
240.49	Н	31.43	-15.67	15.76	46.00	- 30.24	
362.71	Н	33.65	-11.08	22.57	46.00	- 23.43	
482.99	Н	31.73	-8.60	23.13	46.00	- 22.87	
756.53	Н	31.06	-4.16	26.90	46.00	- 19.10	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ∘
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz ${\scriptstyle \circ}$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ${}_{\circ}$

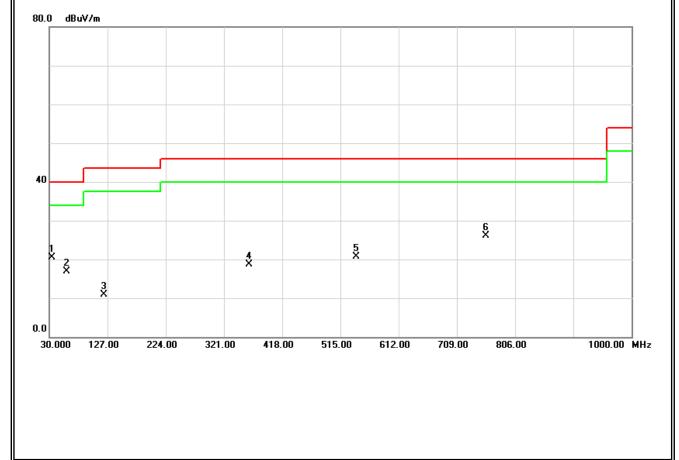




EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	RX Mode 2402MHz-1Mbps		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
33.88	V	37.47	-16.89	20.58	40.00	- 19.42	
59.10	V	34.55	-17.62	16.93	40.00	- 23.07	
121.18	V	29.43	-18.51	10.92	43.50	- 32.58	
362.71	V	29.81	-11.08	18.73	46.00	- 27.27	
541.19	V	27.53	-6.92	20.61	46.00	- 25.39	
757.50	V	30.21	-4.14	26.07	46.00	- 19.93	

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ∘
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz ${\scriptstyle \circ}$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ${}_{\circ}$

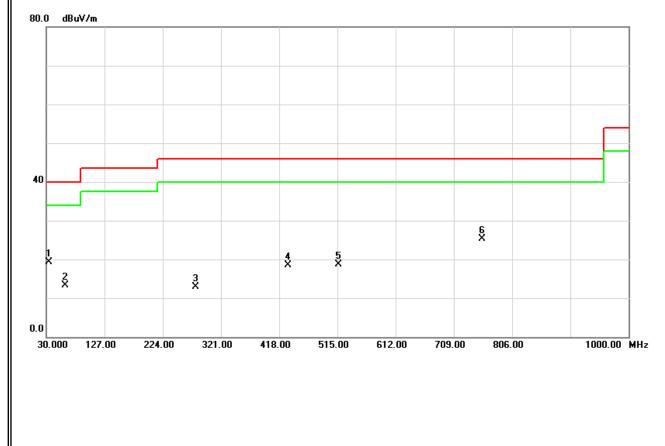




EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	RX Mode 2402MHz-1Mbps		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note	
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	nole	
33.88	Н	36.17	-16.89	19.28	40.00	- 20.72		
62.01	Н	31.03	-17.64	13.39	40.00	- 26.61		
278.32	Н	26.12	-13.27	12.85	46.00	- 33.15		
432.55	Н	27.78	-9.28	18.50	46.00	- 27.50		
516.94	Н	26.55	-7.78	18.77	46.00	- 27.23		
756.53	Н	29.44	-4.16	25.28	46.00	- 20.72		

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ∘
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz ${\scriptstyle \circ}$
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ${}_{\circ}$



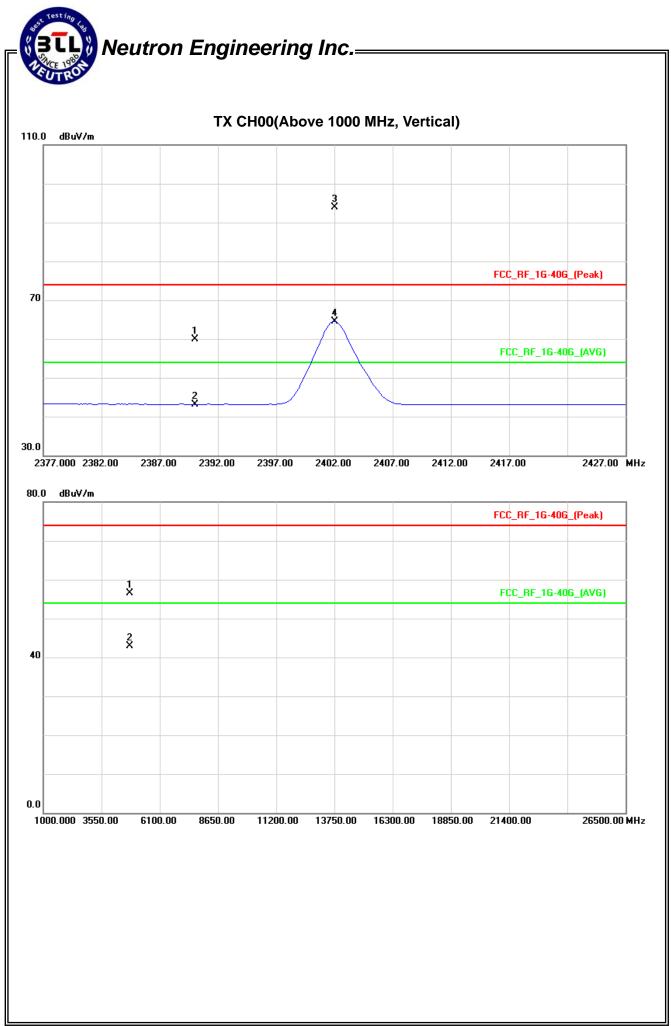
Neutron Engineering Inc.=

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freg.	Ant.Pol.	Reading Ant./CF		Δ	ct.	Lir	Limit		Margin		
Fieq.	AIILF UI.	INCa	ung	AIIL/OF	Act.		Linit		Iviargin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	27.69	10.86	32.28	59.97	43.14	74.00	54.00	-14.03	-10.86	X/E
2402.00	V	61.73	32.24	32.27	94.00	64.51					X/F
4804.26	V	50.34	36.84	6.11	56.45	42.95	74.00	54.00	-17.55	-11.05	X/H

- (1) All readings are Peak unless otherwise stated QP in column of $\[\]$ Note $\[\]$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $\[\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

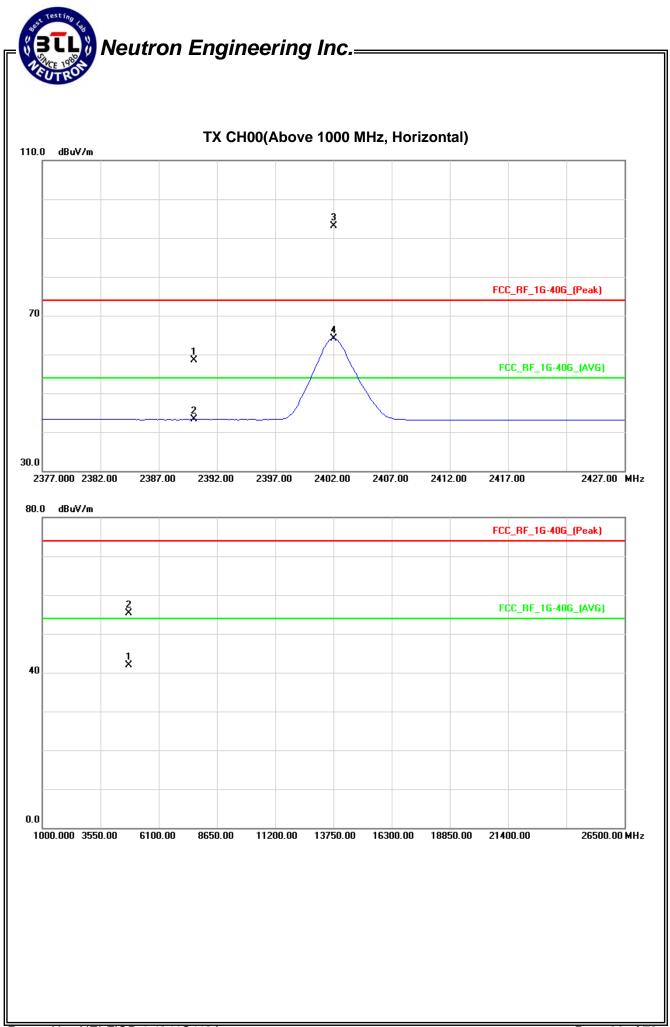




EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 °C	Relative Humidity :	58 %
Pressure :	1010hPa	Test Voltage :	DC 3V
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ant./CF Act.		Lir	nit	Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	26.28	10.98	32.28	58.56	43.26	74.00	54.00	-15.44	-10.74	X/E
2402.00	Н	60.77	31.89	32.27	93.04	64.16					X/F
4803.92	Н	49.28	35.75	6.11	55.39	41.86	74.00	54.00	-18.61	-12.14	X/H

- (1) All readings are Peak unless otherwise stated QP in column of $\[\]$ Note $\]$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

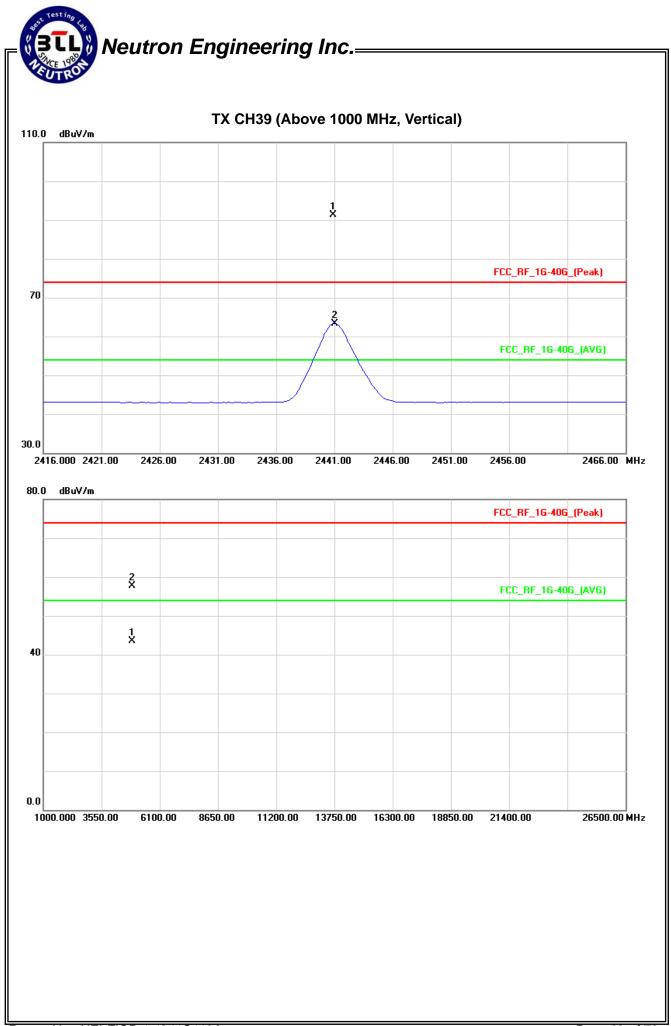


Neutron Engineering Inc.=

EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freq	Freq. Ant.Pol		nt Pol Reading		Act.		Limit		Margin		
rieq.	Ant.i 01.	Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.88	V	59.10	31.10	32.23	91.33	63.33					X/F
4882.55	V	51.37	37.04	6.43	57.80	43.47	74.00	54.00	-16.20	-10.53	X/H

- (1) All readings are Peak unless otherwise stated QP in column of $\[\]$ Note $\]$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $\[\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table ; "Y" denotes Vertical Stand ; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

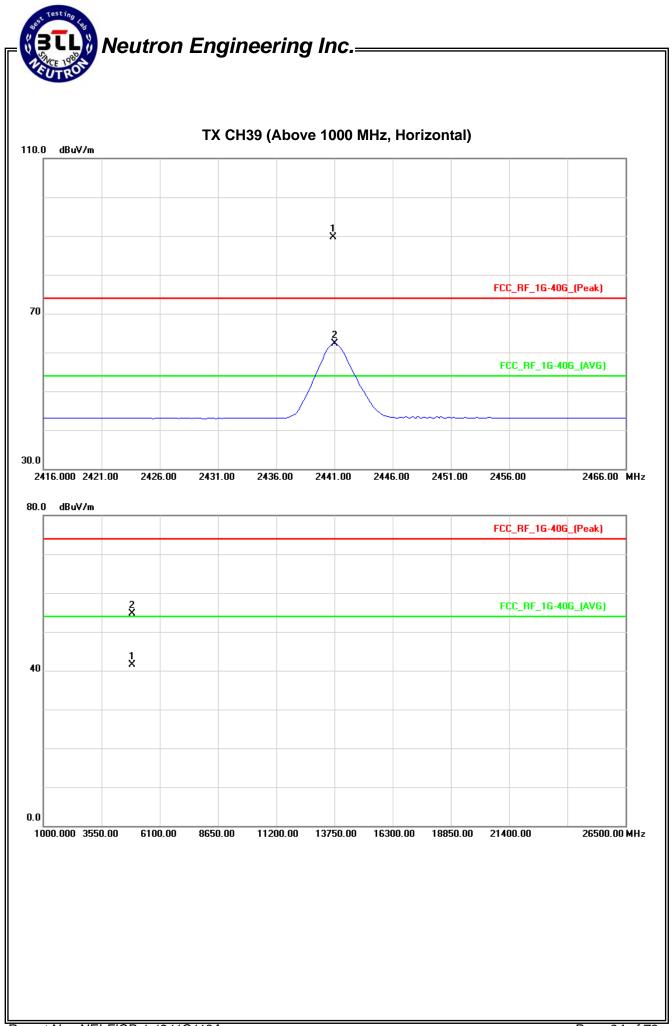




EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freg. Ant.Pol		Reading		Ant./CF	Act.		Limit		Margin		
i ieq.		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.88	Н	57.50	30.08	32.23	89.73	62.31					X/F
4882.35	Н	48.35	35.12	6.43	54.78	41.55	74.00	54.00	-19.22	-12.45	X/H

- (1) All readings are Peak unless otherwise stated QP in column of $\[\]$ Note $\]$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

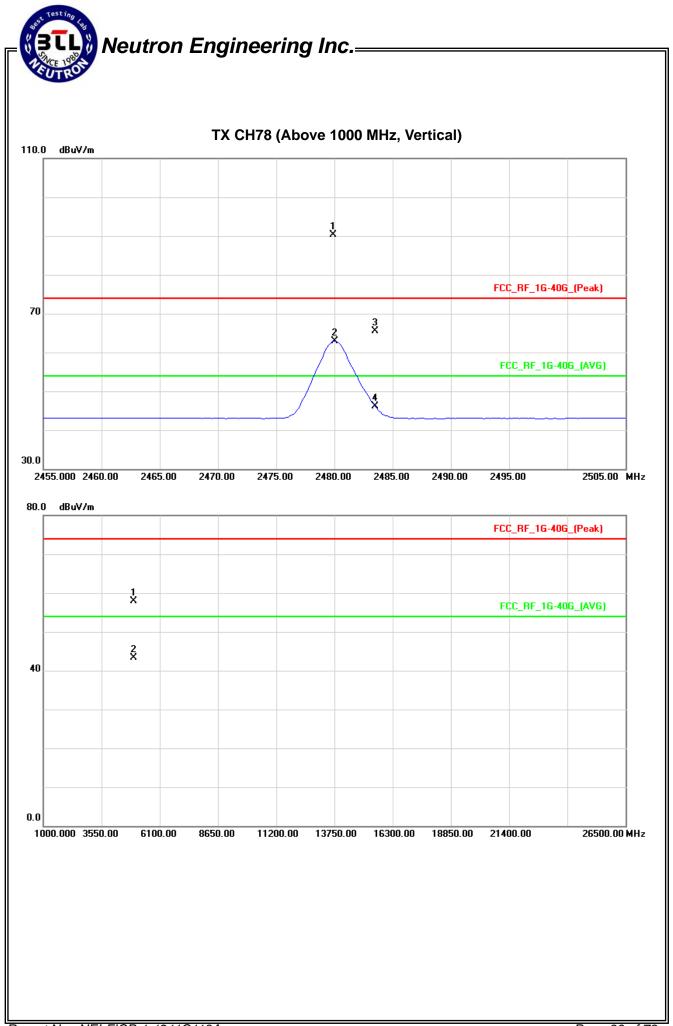




EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1010hPa	Test Voltage :	DC 3V
Test Mode :	TX 2480MHz –CH78-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.88	V	58.13	30.78	32.18	90.31	62.96					X/F
2483.50	V	33.41	13.94	32.17	65.58	46.11	74.00	54.00	-8.42	-7.89	X/E
4959.93	V	51.21	36.54	6.74	57.95	43.28	74.00	54.00	-16.05	-10.72	X/H

- (1) All readings are Peak unless otherwise stated QP in column of $\[\]$ Note $\[\]$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $\[\circ$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table ; "Y" denotes Vertical Stand ; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna



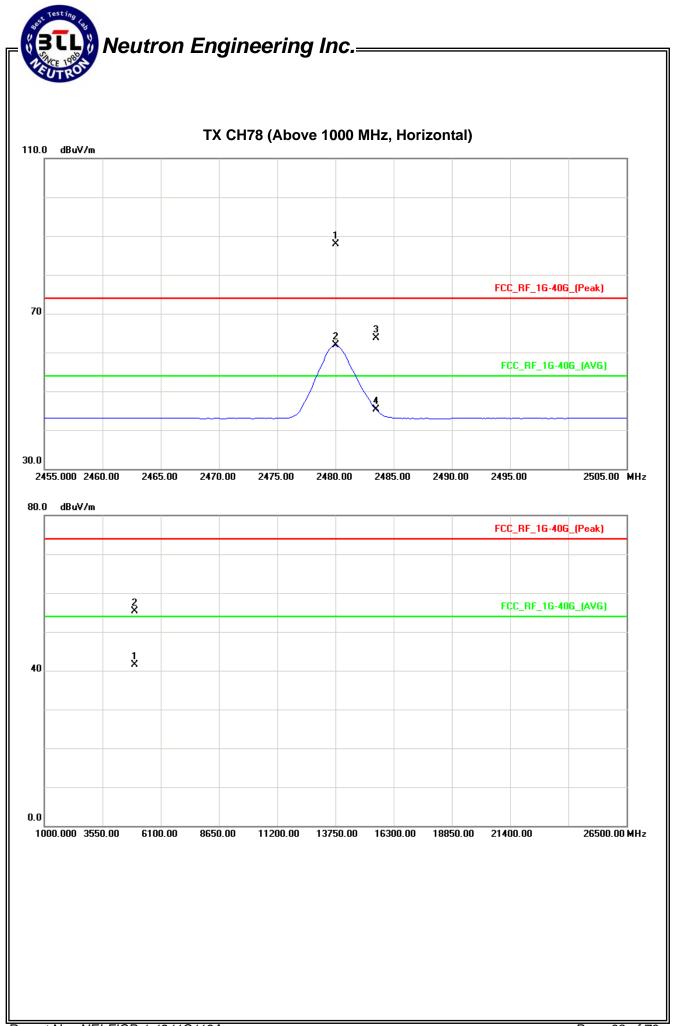


EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX 2480MHz –CH78-1Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	Ма	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	Н	55.75	29.64	32.18	87.93	61.82					X/F
2483.50	Н	31.44	13.04	32.17	63.61	45.21	74.00	54.00	-10.39	-8.79	X/E
4960.40	Н	48.56	37.44	6.74	55.30	44.18	74.00	54.00	-18.70	-9.82	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of $\[\]$ Note $\]$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $\[\circ\]$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna





Temperature : 25 °C Relative Humidity : 58 % Pressure : 1010 hPa Test Voltage : DC 3V Test Mode : RX Mode 2402MHz - 1Mbps DC 3V Freq. Ant-Pol. Reading Ant-/CF Act. Limit Margin N (MHz) HV (dBuV/GC/GU/QK/GU/M/GU/W/M(BuV/m/GBuV/m/GBuV/m/GBuV/m/GBUV	Temper		After	glow Re	emote F	or Wii	Mode	Name :		PL-7608	
Pressure : 1010 hPa Test Voltage : DC 3V est Mode : RX Mode 2402MHz - 1Mbps RX Mode 2402MHz - 1Mbps Freq. Ant.Pol Reading Ant./CF Act. Limit Margin N (MHz) H/V (dBuV)(dBuV)CF(dB)(dBuV/m)(dBuV		ature :	· · ·	•			Relati	ve Humid	ity :		
est Mode : RX Mode 2402MHz - 1Mbps Freq. Ant.Poil. Reading Ant./CF Act. Limit Margin VMHz) HV (dBuV)(dBuV)(CF(dB)(dBuV/m)(dB	ressur								,		
Freq. Ant.Pol. Reading Ant./CF Act. Limit Margin (MHz) H/V (dBuV)(CF(dB)(dBuV/m)(dBuV/m)(dBuV/m)(dBuV/m)(dBuV/m)(dBuV/m)(dBuV/m) AV Peak Aut <td></td> <td></td> <td></td> <td></td> <td>102MHz</td> <td>r - 1Mbns</td> <td></td> <td></td> <td></td> <td>2001</td> <td></td>					102MHz	r - 1Mbns				2001	
Peak AV P						. 111005					
MHz Peak AV Peak	Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ac	t.	Lir	nit	Marg	in
458.25 V 48.52 39.40 -6.64 41.88 32.76 74.00 54.00 -32.12 -21.24 3 temark : (1) All readings are Peak unless otherwise stated QP in column of [©] Note . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement di perform • (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of higt fundamental frequency. "F" denotes fundamental frequency, "H" denotes spurious freque "E" denotes band edge frequency. (This judgment method includes the Band E Requirement.) (3) Radiated emissions measured in frequency range above 1000MHz were made with instrument using Peak detector mode and AV detector mode of the emission • (4) Data of measurement within this frequency range shown "*" in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the 1 strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand 80.0 dbu/m				-	1		AV	Peak	AV		
temark : (1) All readings are Peak unless otherwise stated QP in column of "Note J. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement di perform • (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of high fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "(A) enotes band edge frequency. (This judgment method includes the Band E Requirement.) (3) Radiated emissions measured in frequency range above 1000MHz were made with instrument using Peak detector mode and AV detector mode of the emission • (4) Data of measurement within this frequency range shown "* " in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table : "Y" - denotes Vertical Stand : "Z" - denotes Side Stand 800 dtw/m		H/V			CF(dB)			(dBuV/m)		(dBuV/m)(d	
 (1) All readings are Peak unless otherwise stated QP in column of ^PNote_{al}. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement di perform • (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of high fundamental frequency • "F" denotes fundamental frequency; "H" denotes spurious frequer "E" denotes band edge frequency. (This judgment method includes the Band E Requirement.) (3) Radiated emissions measured in frequency range above 1000MHz were made with instrument using Peak detector mode and AV detector mode of the emission • (4) Data of measurement within this frequency range shown " * " in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table : "Y" - denotes Vertical Stand : "Z" - denotes Side Stand 	458.25	V	48.52	39.40	-6.64	41.88	32.76	74.00	54.00	-32.12	-21.24 X/
 that the Peak reading compliance with the QP Limits and then QP Mode measurement di perform . (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of high fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequeire "E" denotes band edge frequency. (This judgment method includes the Band E Requirement.) (3) Radiated emissions measured in frequency range above 1000MHz were made with instrument using Peak detector mode and AV detector mode of the emission - (4) Data of measurement within this frequency range shown "*" in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table : "Y" - denotes Vertical Stand : "Z" - denotes Side Stand 			adinas a	re Peak	unless	otherwise	stated Q	P in colum	n of 『No	ite Peak (denotes
 perform • (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of high fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequences "E" denotes band edge frequency. (This judgment method includes the Band E Requirement.) (3) Radiated emissions measured in frequency range above 1000MHz were made with instrument using Peak detector mode and AV detector mode of the emission • (4) Data of measurement within this frequency range shown " * " in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide sufficienceasurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table : "Y" - denotes Vertical Stand : "Z" - denotes Side Stand 	(-								
 fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency: "E" denotes band edge frequency. (This judgment method includes the Band Er Requirement.) (3) Radiated emissions measured in frequency range above 1000MHz were made with instrument using Peak detector mode and AV detector mode of the emission - (4) Data of measurement within this frequency range shown "*" in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand 80.0 dBuV/m 40				0	•						
 "E" denotes band edge frequency. (This judgment method includes the Band E Requirement.) (3) Radiated emissions measured in frequency range above 1000MHz were made with instrument using Peak detector mode and AV detector mode of the emission (4) Data of measurement within this frequency range shown "*" in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand 	(-	•	-						-
 Requirement.) (3) Radiated emissions measured in frequency range above 1000MHz were made with instrument using Peak detector mode and AV detector mode of the emission (4) Data of measurement within this frequency range shown "*" in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table : "Y" - denotes Vertical Stand : "Z" - denotes Side Stand 				-	•			-	•	•	
 (3) Radiated emissions measured in frequency range above 1000MHz were made with instrument using Peak detector mode and AV detector mode of the emission (4) Data of measurement within this frequency range shown "*" in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand 80.0 dBuV/m 					edge fre	equency.	(This juc	lgment m	nethod in	icludes the	Band Edg
 instrument using Peak detector mode and AV detector mode of the emission (4) Data of measurement within this frequency range shown "*" in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis :	1		,	,	modeur	od in frog		nge aba			nada with
 (4) Data of measurement within this frequency range shown "*" in the table above means reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffice measurement sensitivity. (6) EUT Orthogonal Axis :	(•			
 reading of emissions are attenuated more than 20dB below the permissible limits or the f strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffice measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand 80.0 dBuV/m 	(-							/e means fl
 strength is too small to be measured. (5) A preamp and high pass filter were used for this test in order to provide suffic measurement sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table : "Y" - denotes Vertical Stand : "Z" - denotes Side Stand 	(
Image: sensitivity. (6) EUT Orthogonal Axis : "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand B0.0 dBuV/m Image: sensitivity. Image: sensitivity. Image: sensitivity. Image: sensit									I		
(6) EUT Orthogonal Axis : "X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand 80.0 dBuV/m 40 x x	(5) A pre	amp ar	nd high	i pass	filter were	used f	or this te	est in oro	der to prov	ide sufficie
*X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand					•						
80.0 dBuV/m	(-	-								
40		"Х" - с	enotes l	Laid on	Table ;	"Y" - deno	tes Vertic	al Stand ;	"Z" - der	otes Side S	tand
40 1	0N 0 00	. M. I.m.									
40 2x	8U.U AB	uv/m									
40 2x											
40 2x											
40 2x											
40 2											
40 2											
40 2											
40 2											
	40 ¹ ×										
	40										
	40										
	40										
	40										
	40										
nol la	40										
	40										
1000.000 3550.00 6100.00 8650.00 11200.00 13750.00 16300.00 18850.00 21400.00 26500.00 M	40										



EUT				Afterglow Remote For Wii 25 °C				Name :		PL-7608	
	•	ture :						e Humid	ity :	58 %	
	sure		1010				Test V	oltage :		DC 3V	
est	Mod	le :	RX M	lode 24	402MHz	- 1Mbps					
Fre	eq.	Ant.Pol.		-	Ant./CF	Ac			nit		rgin
(MF		H/V				Peak	AV (dBu)//m)	Peak	AV (dBu\//m	Peak)(dBuV/m)	AV No
	3.35	H H	(ubuv) 46.28	(ubuv) 35.87	-6.64	39.64	29.23	(<u>dBuv/iii)</u> 74.00	<u>(uBu V/III</u> 54.00	-34.36	(dBuv/iii) -24.77 X/
	(3 (4 (5	 perfor Measi funda "E" d Requi Radia instrui Data o readir streng A pre measi EUT (m ∘ uring fre mental f rement. ted emi ment usi of meas of meas of of em th is too amp ar urement Drthogor	equency requency band () ssions ing Pea uremer issions small t nd high sensiti nal Axis	y range cy∘"F" de edge fre measure k detecte to within are atten to be me n pass vity.	from 1000 enotes fur equency. ed in freque or mode a this freque nuated mo asured. filter were	OMHz to Idamental (This jud uency ra nd AV de ency rang ore than 2 e used fo	6000MHz frequenc gment m nge abov tector mod e shown 0dB belov or this te	or the f y; "H" den nethod in re 1000N de of the " * " in th w the per est in ord	10th harm notes spur ncludes th 1Hz were emission e table ab missible li	ove means th mits or the fie ovide sufficie
40 -	1 1 2 2										



						_					
EUT :				emote F	or Wii		Name :		PL-7608		
Temperat		25 ℃					e Humid	ity :	58 %		
Pressure		1010				Test Vo	oltage :		DC 3V		
Test Mod	e :	RX M	ode 24	41MHz	- 1Mbps						
Frog	Ant.Pol.	Rea	dina	Ant./CF	٨	ct.	11	mit	Ma	irgin	<u> </u>
Freq.	AIII.POI.	Peak	AV	AIIL/OF	Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V			CF(dB)					n)(dBuV/m		
1578.36	V	47.69	37.86	-5.56	42.13	32.30	74.00	54.00	-31.87	-21.70	X/H
(2 (3 (4 (5) All rea that th perforn) Measu fundar "E" de Requii) Radial instrur) Data c readin streng) A pre- measu) EUT C "X" - d	e Peak r m - uring fre mental fr enotes rement.) ted emis nent usin of measu g of emi th is too amp an urement Drthogor	reading quency requence band e ssions ng Peal uremen ssions small to sensitiv aal Axis	complia range f cy°"F" de edge fre measure k detecto t within t are atter o be mea pass f <i>v</i> ity.	nce with t from 1000 enotes fun quency. ed in freque br mode a his freque nuated mo asured. ilter were	he QP Lir OMHz to 0 damental (This jud uency rai nd AV det ency rang ore than 2 e used fo	nits and the 6000MHz frequence gment more e abown e shown 0dB beloon or this te	hen QP c or the cy; "H" den the thod i we 10001 de of the "*" in the w the pe est in or	ote Pea Mode mea 10th harm enotes spur ncludes th MHz were e emission ne table ab ermissible li rder to pro notes Side	surement onic of hi rious frequ ne Band made wi ove mear mits or the ovide suff	didn't ghest lency. Edge th an ns the e field
40 1 × 2 ×											
0.0											

			· -								1
EUT :	4			emote F	or Wii		Name :		PL-7608		
Tempera		25 ℃					e Humidi	,	58 %		
Pressure		1010				lest Vo	oltage :		DC 3V		
Test Mod	le :	RX M	lode 24	41MHz	- 1Mbps						
Freq.	Ant.Pol.	Rea	dina	Ant./CF	A	rt	l ir	nit	Ma	rgin	
rieq.	/ (11:1 01:	Peak	AV	/ (110./ 01	Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	. ,	· /	· · · ·	(dBuV/m)	. ,	(dBuV/m)	(dBuV/m)	(dBuV/m)	· /	
1578.35	Н	47.39	36.28	-5.56	41.83	30.72	74.00	54.00	-32.17	-23.28	X/H
(2 (3 (4 (5	 All rea that th perfon Measu fundar "E" de Requin Radial instrur Radial instrur Data c readin streng A pre- measu EUT C "X" - d 	e Peak i m - uring fre mental fr enotes rement.) ted emis nent usi of measu g of emi th is too amp an urement Orthogor	reading quency requenc band e band e ssions r ng Peak urement issions a small to sensitiv and high	complia range f edge fre measure detecto t within t are atter be mea pass f rity.	nce with t rom 1000 enotes fun quency. ed in freq br mode a his freque nuated mo asured. ilter were	he QP Lir MHz to 0 damental This jud uency rang nd AV det ency rang ore than 2	nits and th 6000MHz frequency gment m nge abov e shown ' 0dB belov or this te	nen QP M or the 1 y; "H" den ethod ind e 1000M de of the e '* " in the w the pern st in ord	te Peak lode meas 0th harmo lotes spuri cludes the Hz were emission table abo missible lir ler to pro otes Side	surement of onic of hig ous freque e Band I made wit ove means nits or the ovide suffi	ghest ency. Edge h an s the field
40 1 2 2 2											
1000.000	3550.00	6100.00) 8650.	.00 112	200.00 137	50.00 163	300.00 188	850.00 21 <i>4</i>	400.00	26500.00	J MHz



Tempera				emote F	or vvii	iviodei	Name :		PL-7608		
	ature :	25 °C	/			Relativ	/e Humid	ity :	58 %		
Pressure	э:	1010	hPa			Test V	oltage :		DC 3V		
Test Mo	de :	RX N	lode 24	80MHz	- 1Mbps						
Freq.	Ant.Pol.	Read	dina	Ant./CF	A	ct.	l ir	nit	Ма	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	No
(MHz) 658.24	H/V V		(dBuV) 37.21	CF(dB) -4.67	(dBuV/m) 42.21	(dBuV/m) 32.54	(dBuV/m) 74.00	(dBuV/m 54.00)(dBuV/m) -31.79	(dBuV/m) -21.46	X/I
((perfor 2) Meas funda "E" d Requi 3) Radia instru 4) Data readir streng	m ∘ uring fre mental fi enotes rement.) ted emi ment usi of measi of measi of measi of em gth is too amp ar	equency requency band e ssions ng Pea uremen issions small te nd high	r range cy°"F" de edge fre measure k detecte t within are atte o be me pass	from 100 enotes fur equency. ed in frec or mode a this freque nuated me	0MHz to ndamenta (This juc quency ra and AV de ency rang ore than 2	6000MHz I frequenc Igment m nge abov tector mo tector mo te shown 20dB belo	z or the ² cy; "H" den nethod in /e 1000M de of the "*" in th w the per	Aode meas 10th harmonotes spur includes th AHz were emission e table abor missible lin der to pro	onic of hig ious frequ e Band made wit ove mean mits or the	ghes ency Edge th ai s the s the
(6) EUT ("X" - c	Orthogor	nal Axis	:	"Y" - denc	otes Vertic	al Stand ;	"Z" - der	notes Side		
	-	Orthogor	nal Axis	:	"Y" - denc	otes Vertic	al Stand ;	"Z" - der			
	"X" - C	Orthogor	nal Axis	:	"Y" - denc	otes Vertic	al Stand ;	"Z" - der			



_	JT : Afterglow Remote F mperature : 25 ℃						Name :		PL-7608		
			-				ve Humid	•	58 %		
Pressur		1010					oltage :		DC 3V		
Fest Mo	ode :	RX N	/lode 24	480MHz	- 1Mbps	;					
Frog	Ant.Pol.	Read	ding	Ant./CF	Δ	ct.	Lir	nit	Mai	ain	
Freq.	AIII.POI.	Peak	AV	Ant./CF	Peak	AV	Peak	AV	Peak	AV	No
(MHz)	H/V			CF(dB)		(dBuV/m))(dBuV/m)		
658.17	Н	46.12	36.78	-4.67	41.45	32.11	74.00	54.00	-32.55	-21.89	X
	 All reating that the performance of th	ne Peak rm ∘ suring fre imental f lenotes irement. ated emi ment us of meas ng of em gth is too	reading equency requenc band o band o issions ing Pea uremer issions o small t nd high	y complia / range cy∘"F" de edge fre measure k detecte t within are atter o be me n pass	from 100 enotes fui equency. ed in free or mode a this frequi nuated m asured.	the QP Li OMHz to ndamenta (This juo quency ra and AV de lency rang lore than 2	mits and the 6000MHz I frequence Igment mange above tector mod ge shown 20dB belo	nen QP M c or the 1 y; "H" der lethod in re 1000M de of the " * " in the w the per	te Peak lode meas loth harmo notes spurie icludes the lHz were i emission e table abo missible lin der to pro	urement of hig ous freque e Band E made with ove means nits or the	ghes enc Edg h a s th
		Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	otes Side S	Stand	
		Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	otes Side S	Stand	1
	"X" - (Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	iotes Side S	Stand	
	"X" - (Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	otes Side S	Stand	
	"X" - (Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	otes Side S	Stand	
	"X" - (Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	iotes Side S	Stand	
	"X" - (Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	notes Side S	Stand	
	"X" - (Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	notes Side S	Stand	
80.0 dl	"X" - (Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	notes Side S	Stand	
80.0 dl	"X" - (Orthogo	nal Axis	:	"Y" - deno	otes Vertic	cal Stand ;	"Z" - den	otes Side S	Stand	
80.0 dl	"X" - (Orthogo	nal Axis	:	"Y" - deno	otes Vertic	al Stand ;	"Z" - den	notes Side S	Stand	
80.0 dl	"X" - (Orthogo	nal Axis	:	"Y" - deno		cal Stand ;	"Z" - den		Stand	
80.0 dl	"X" - (Orthogo	nal Axis	:	"Y" - deno		al Stand ;	"Z" - den	notes Side S	Stand	
40 1× 2×	"X" - (Orthogo	nal Axis	:	"Y" - deno		al Stand ;	"Z" - den		Stand	
80.0 dl	"X" - (nal Axis Laid on	Table ;							MHz
80.0 dl	"X" - (Orthogo	nal Axis Laid on	Table ;					Notes Side S	Stand	MHz
40 1 2 X	"X" - (nal Axis Laid on	Table ;							MHz

5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C							
Section	Test Item	Frequency Range (MHz)	Result				
15.247 (a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS				

5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Ite	em	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of Equipment List is One Year.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

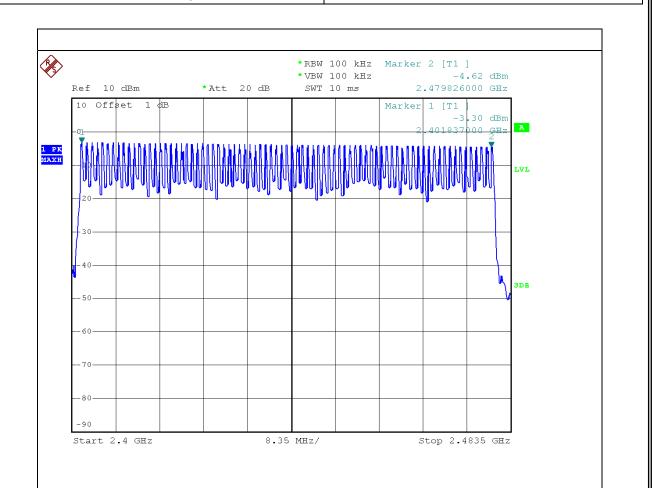
5.1.5 EUT OPERATION CONDITIONS



EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1009 hPa	Test Voltage :	DC 3V
Test Mode :	Hopping Mode -1Mbps		

79

Number of Hopping Channel



Date: 29.NOV.2012 18:09:37

6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of Equipment List is One Year.

6.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- \tilde{h} . Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.

6.1.3 DEVIATION FROM STANDARD

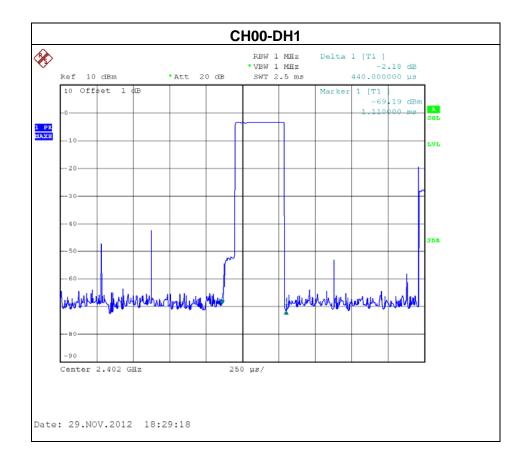
No deviation.

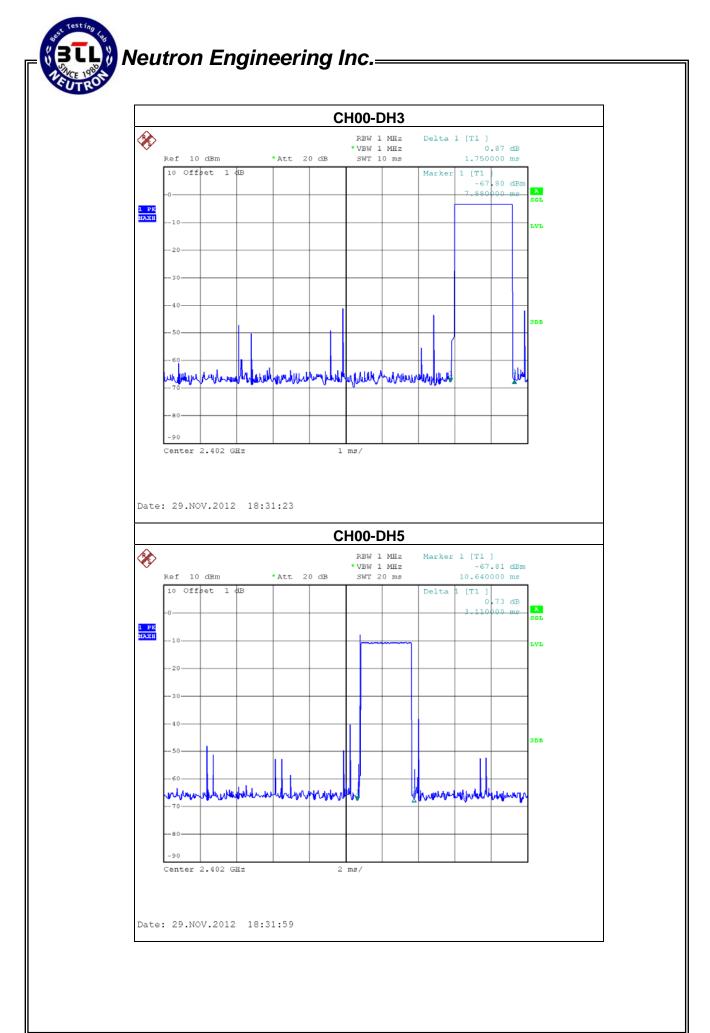
lest ing	
Neutron Engineering Ind	C
UTRO	
.4 TEST SETUP	
EUT	SPECTRUM
	ANALYZER
.5 EUT OPERATION CONDITIONS	
EUT tested system was configured as the sta	atements of 4.1.6 Unless otherwise a specia
erating condition is specified in the follows durin	ng the testing.



EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1009 hPa	Test Voltage :	DC 3V
Test Mode :	CH00-DH1/DH3/DH5 -1Mbps		

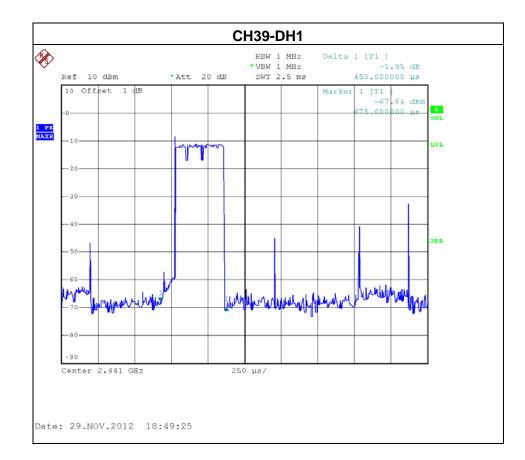
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.1100	0.3317	0.4000
DH3	2402 MHz	1.7500	0.2800	0.4000
DH1	2402 MHz	0.4400	0.1408	0.4000

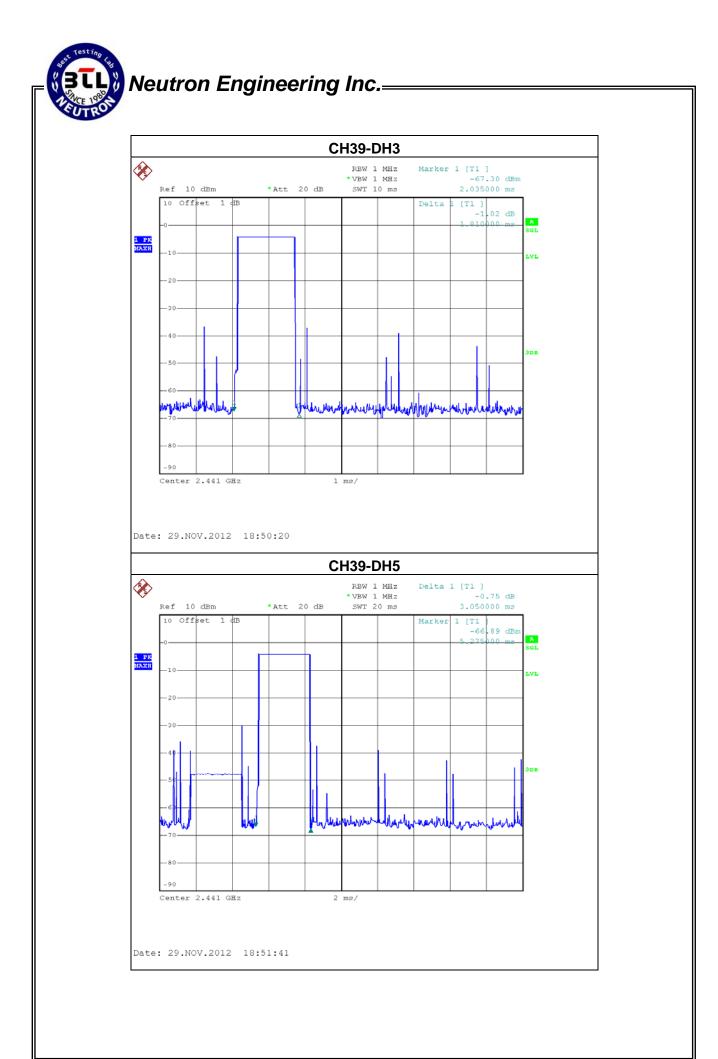




EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1009 hPa	Test Voltage :	DC 3V
Test Mode :	CH39 -DH1/DH3/DH5 -1Mbps		

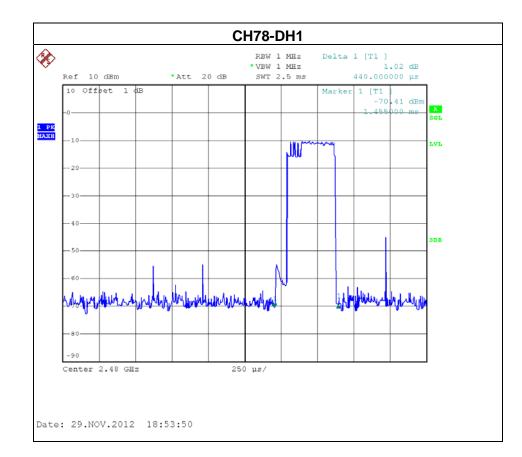
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.0500	0.3253	0.4000
DH3	2441 MHz	1.8100	0.2896	0.4000
DH1	2441 MHz	0.4500	0.1440	0.4000

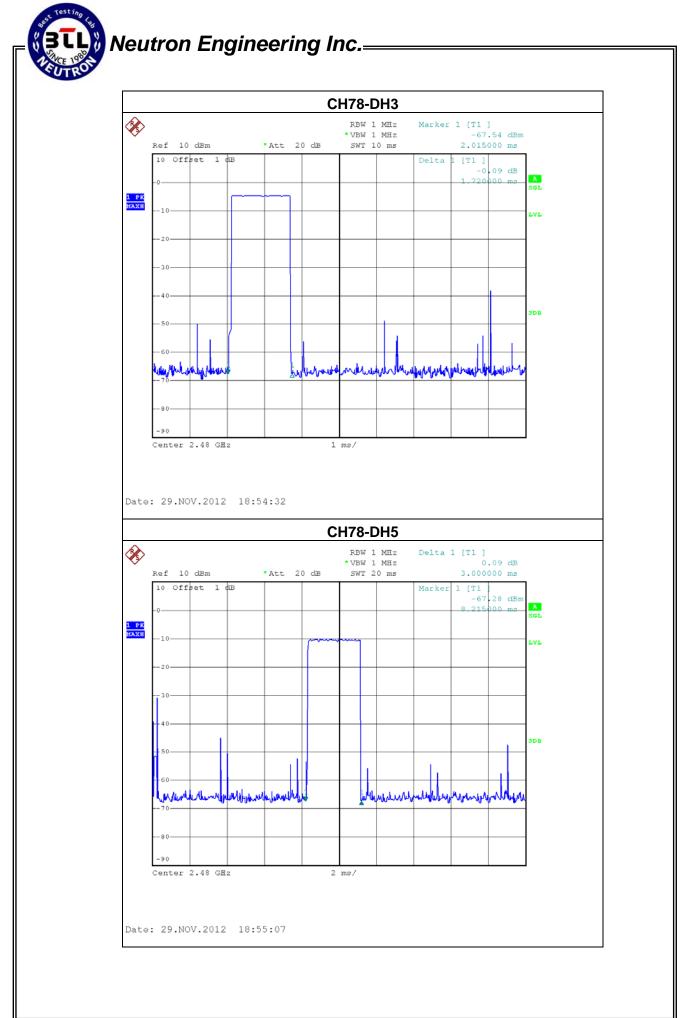




EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1009 hPa	Test Voltage :	DC 3V
Test Mode :	CH78 -DH1/DH3/DH5-1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.0000	0.3200	0.4000
DH3	2480 MHz	1.7200	0.2752	0.4000
DH1	2480 MHz	0.4400	0.1408	0.4000





Report No.: NEI-FICP-1-1211C113A



7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency > Measurement Bandwidth or Channel Separation	
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

7.1.2 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = auto Detector function = peak Trace = max hold

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



Spectrum Analayzer

EUT

7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in hopping mode.

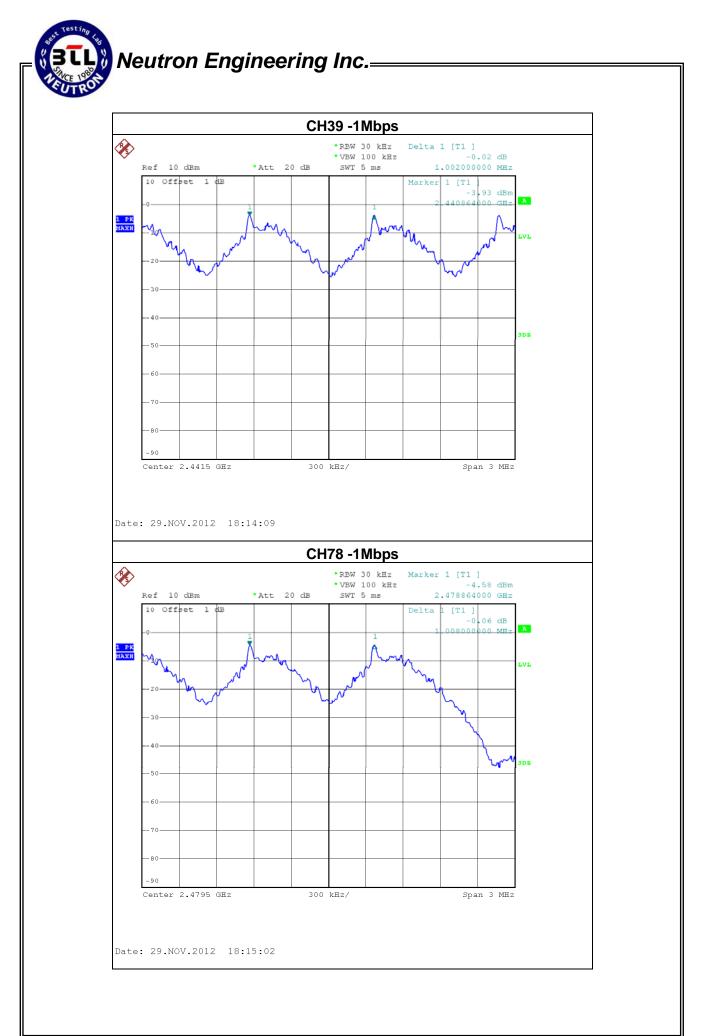


EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1009 hPa	Test Voltage :	DC 3V
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	Ch. Separation (MHz)	20dB Bandwidth (MHz)	Result
2402 MHz	1	1.008	Complies
2441 MHz	1	1.002	Complies
2480 MHz	1	1.008	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth





8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(2)	Bandwidth	<= 1 MHz (20dB bandwidth)	2400-2483.5	PASS

8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

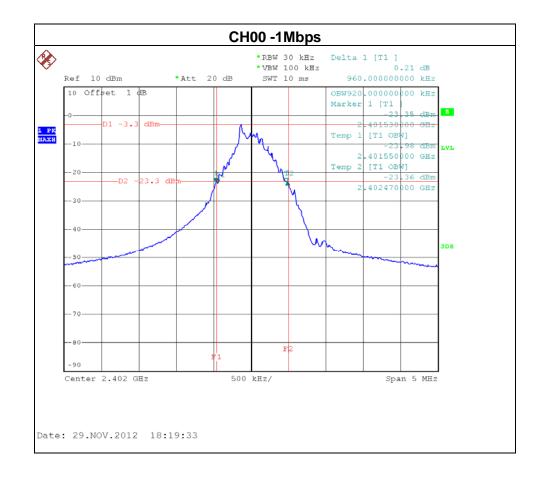
EUT	SPECTRUM
	ANALYZER

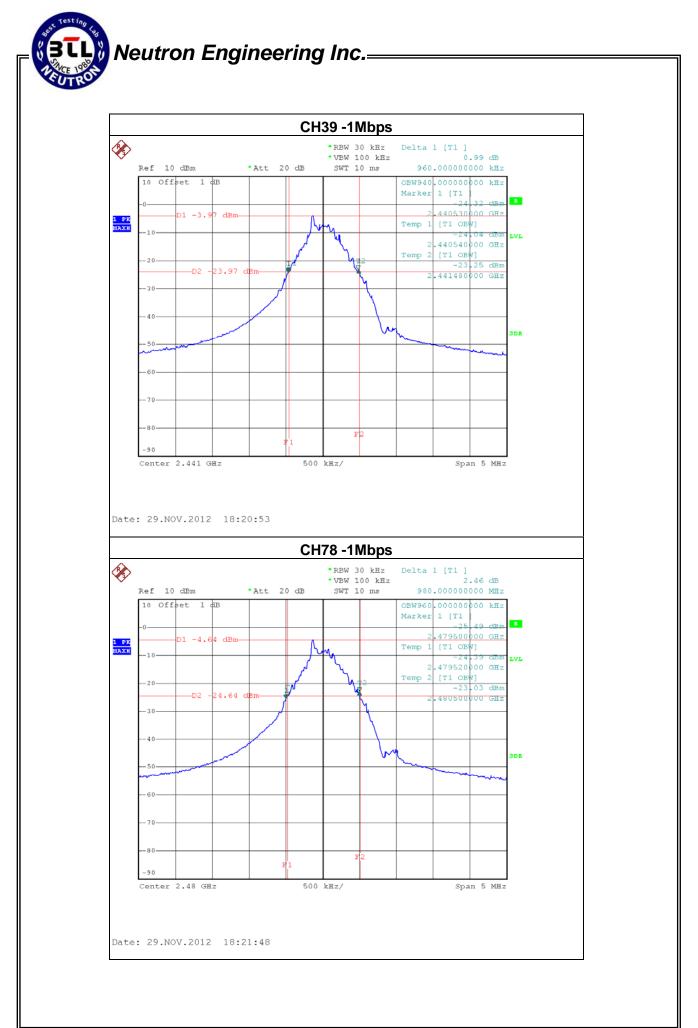
8.1.5 EUT OPERATION CONDITIONS



EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1009 hPa	Test Voltage :	DC 3V
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	20dB Bandwidth (MHz)	99% OBW (MHz)	Channel Separation (MHz)	Result
2402 MHz	0.960	0.920	<= 1MHz	PASS
2441 MHz	0.960	0.940	<= 1MHz	PASS
2480 MHz	0.980	0.960	<= 1MHz	PASS





9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of Equipment List is One Year.

9.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b. Spectrum Setting : RBW= 3MHz, VBW= 3MHz, Sweep time = Auto.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP

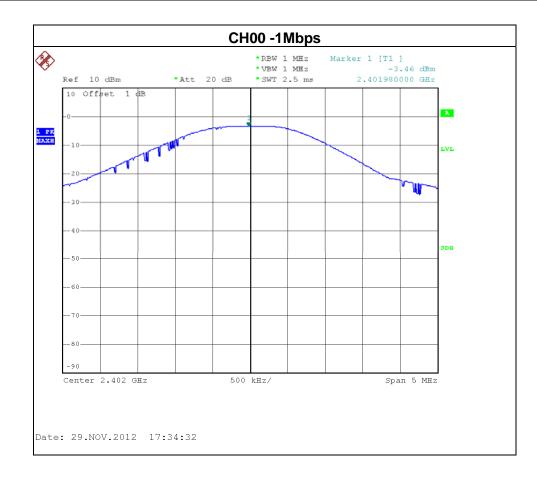


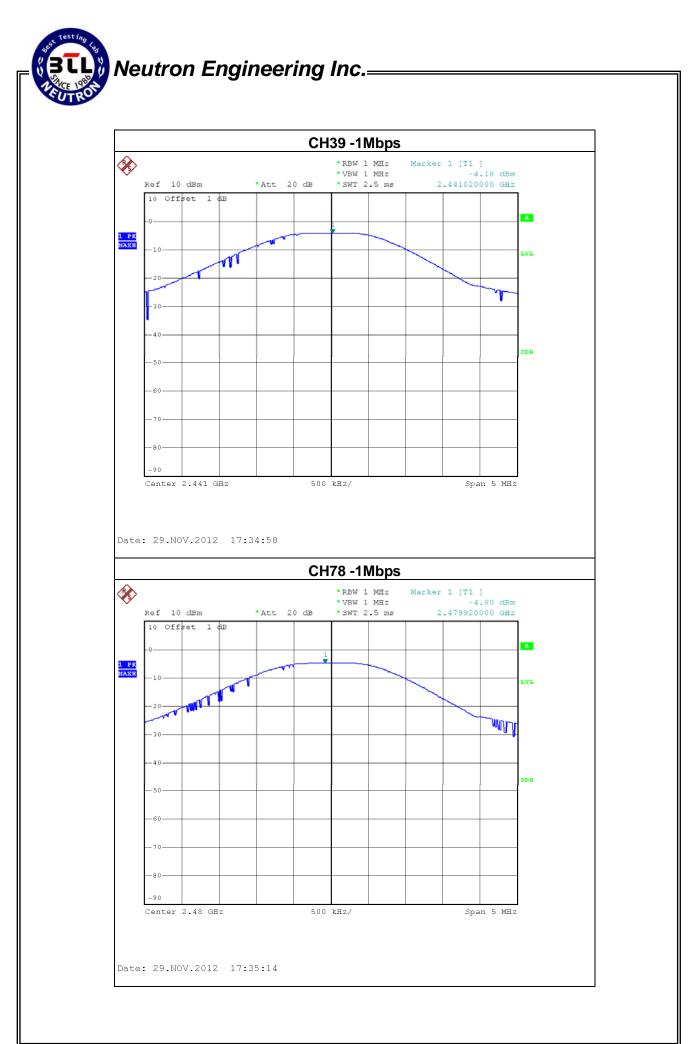
9.1.5 EUT OPERATION CONDITIONS



EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1009 hPa	Test Voltage :	DC 3V
Test Mode :	CH00/ CH39 /CH78 -1Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	-3.46	21	0.125
CH39	2441	-4.18	21	0.125
CH78	2480	-4.80	21	0.125





10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Ite	em K	ind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1 S	pectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of Equipment List is One Year.

10.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

10.1.3 DEVIATION FROM STANDARD

No deviation.

10.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

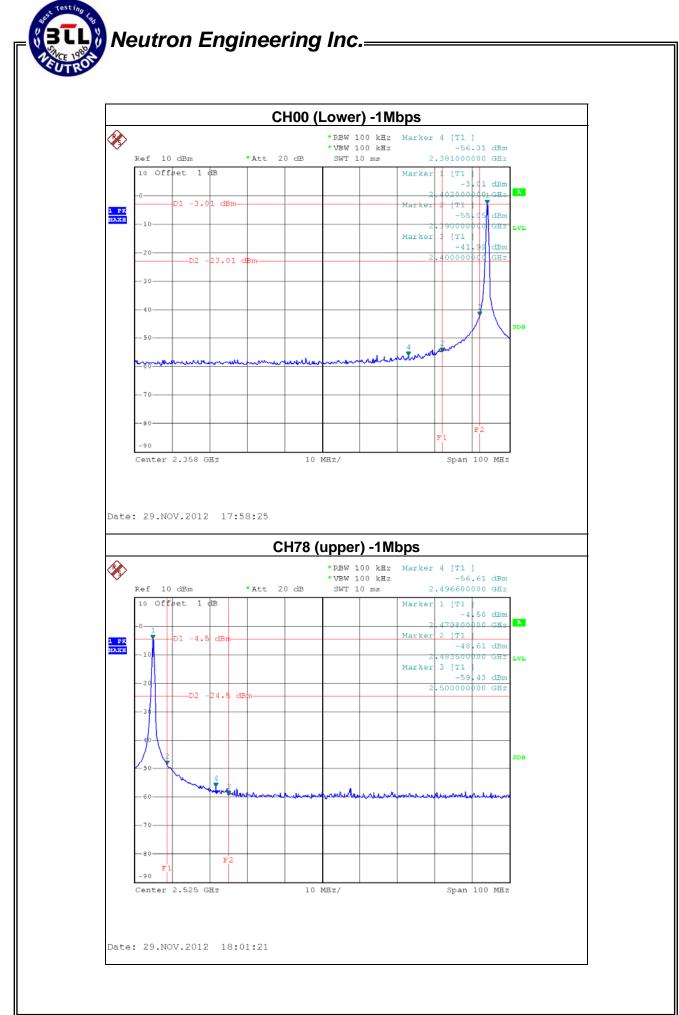
10.1.5 EUT OPERATION CONDITIONS

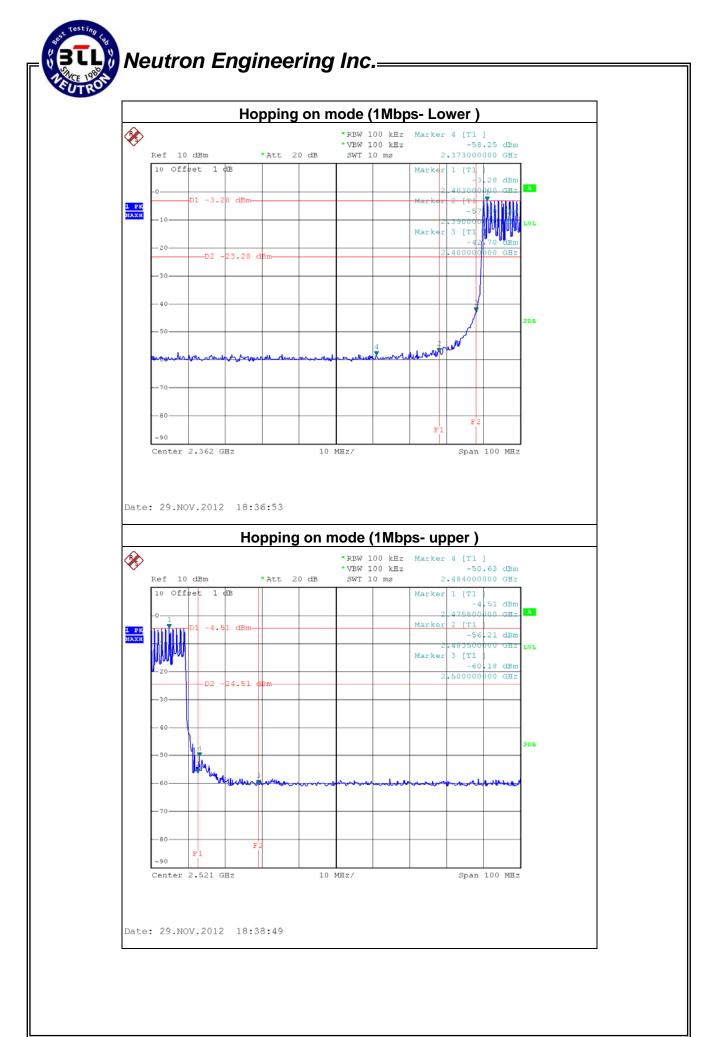


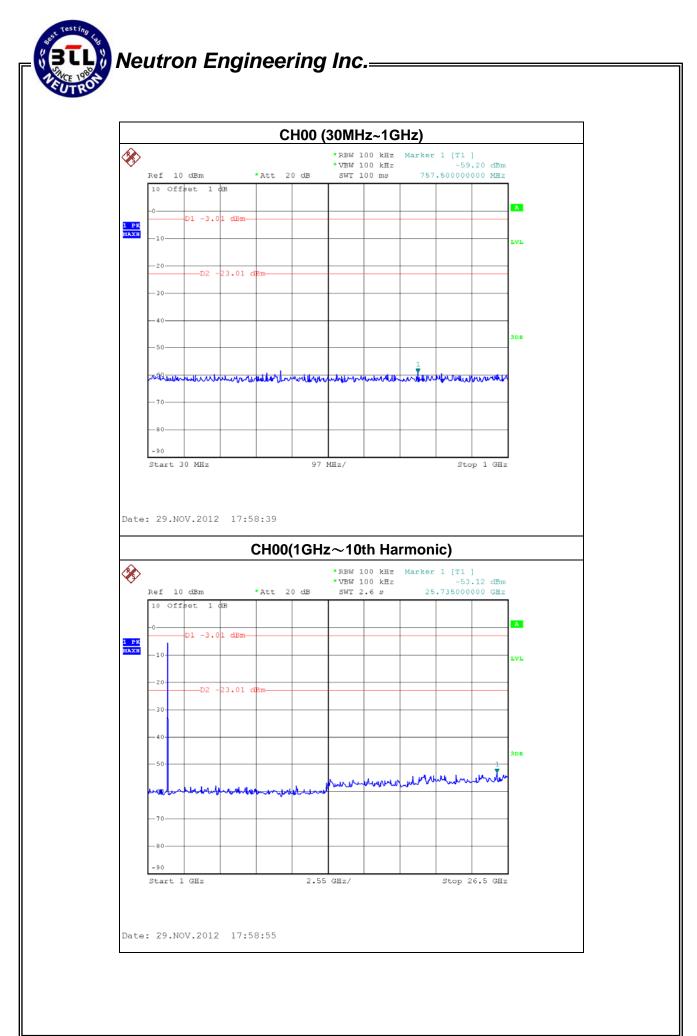
EUT :	Afterglow Remote For Wii	Model Name :	PL-7608
Temperature :	25 ℃	Relative Humidity :	58 %
Pressure :	1009 hPa	Test Voltage :	DC 3V
Test Mode :	CH00 / CH39/ CH78-1Mbps & Hopping on mode (1Mbps)		

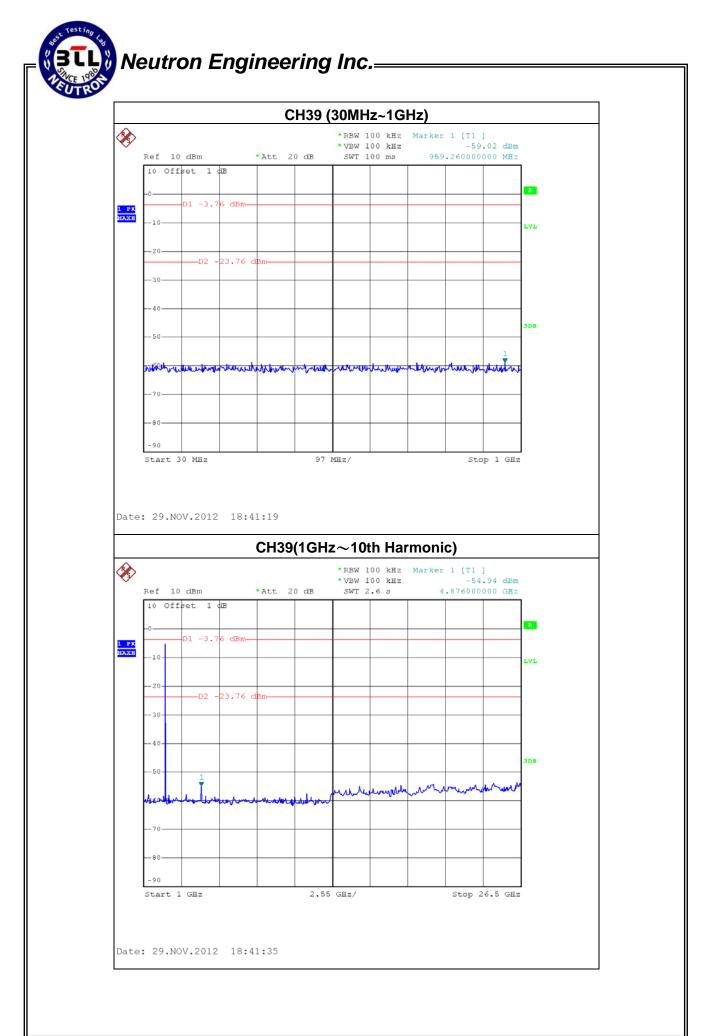
The max. radio frequency power in any 100kHz bandwidth within the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.		
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)	
2400.00	-41.99	2483.50	-48.61	
Result				

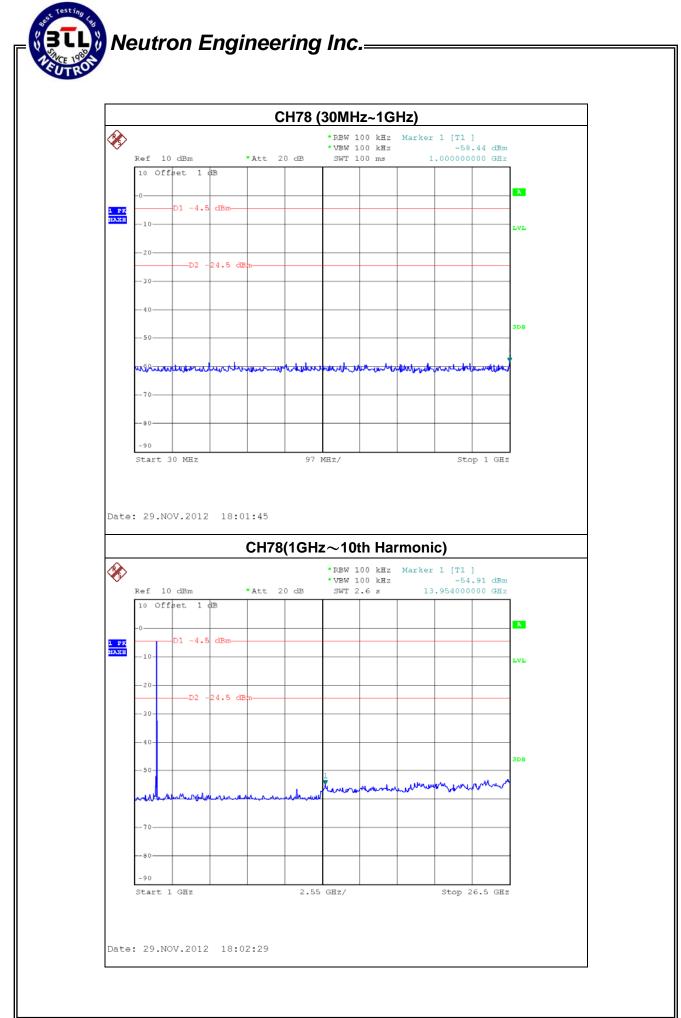
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.













11. EUT TEST PHOTO

Radiated Measurement Photos 9K-30MHz

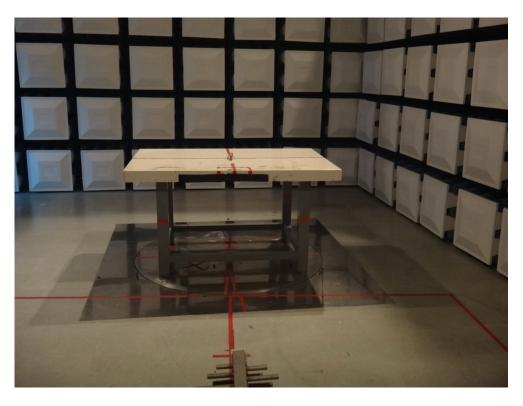






Radiated Measurement Photos 30-1000MHz







Radiated Measurement Photos Above 1000MHz



