



FCC ID:P25M991262A

AUDIX Technology (Shenzhen) Co., Ltd.

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Mad Catz, Inc.

Rock Band 4 Wireless Drum Set for PlayStation® 4

Model No.: 91262

FCC ID: P25M991262A

Prepared for : Mad Catz, Inc.

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Report Number : ACS-F15152

Date of Test : May.12~15, 2015

Date of Report : Jun.03, 2015

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TEST REPORT CERTIFICATION

Applicant : Mad Catz, Inc.
Manufacturer : Mad Catz, Inc.
EUT Description : Rock Band 4 Wireless Drum Set for PlayStation[®] 4
FCC ID : P25M991262A
(A) MODEL NO. : 91262
(B) SERIAL NO. : N/A
(C) Power Supply : DC 3V
(D) TEST VOLTAGE : DC 3V

Tested for comply with:
FCC Rules and Regulations Part 15 Subpart C: 2014

Test procedure used:
ANSI C63.10: 2009

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC and IC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.p

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : May.12~15, 2015 Report of date: Jun.03, 2015

Prepared by : Kayli He Reviewed by : [Signature]
Kayli He / Assistant Sunny Lu / Assistant Manager



信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: David Jin 63

Approved & Authorized Signer :

David Jin / Manager

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10 2009	PASS
Radiated Emission Test	FCC Part 15 15.209 FCC Part 15 15.247(d) ANSI C63.10 2009	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(a)(1) ANSI C63.10 2009	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10 2009	PASS
20dB & 99% Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10 2009	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 2009	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10 2009	PASS
Maximum Peak Output Power Test	FCC Part 15 15.247(b)(1)\ ANSI C63.10 2009	PASS
Band Edge Compliance Test	FCC Part 15 15.247(d) ANSI C63.10 2009	PASS

2. GENERAL INFORMATION

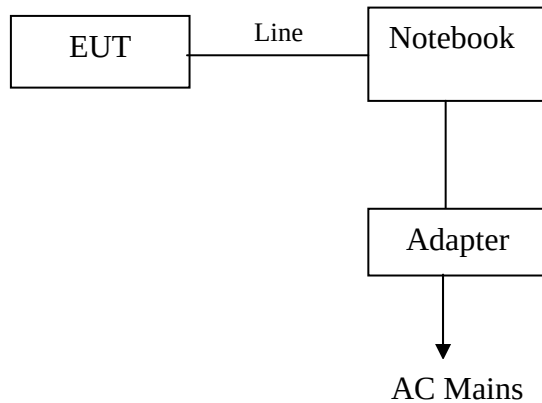
2.1. Description of Device (EUT)

Product Name	: Rock Band 4 Wireless Drum Set for PlayStation® 4
Model Number	: 91262
FCC ID	: P25M991262A
Radio	: Bluetooth V3.0+EDR
Operation Frequency	: 2402-2480MHz
Modulation Technology	: GFSK, $\pi/4$ DQPSK, 8-DPSK
Antenna Assembly Gain	: Integrated PCB Antenna, 3.21dBi PK gain
Applicant	: Mad Catz, Inc. 10680 Treena Street Suite 500 San Diego, CA 92131
Manufacturer	: Mad Catz, Inc. 10680 Treena Street Suite 500 San Diego, CA 92131
Date of Test	: May.12~15, 2015
Date of Receipt	: Apr.28, 2015

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Notebook	N/A	DELL	PP09S	N/A	☒ FCC DoC ☒ BSMI ID:R41108
Power Cable: Unshielded, Detectable, 1.8m Power Adapter:Manufactuer:DELL;Model:LA65NS1-00;						

2.3. Block Diagram of connection between EUT and simulators



(EUT: Rock Band 4 Wireless Drum Set for PlayStation® 4)

2.4. Test information

A special software was used to control EUT work in Continuous TX mode, and select test channel.

Tested mode, channel, and data rate information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	1	Low :CH 0	2402
	1	Middle: CH39	2441
	1	High: CH78	2480
Tx Mode 8-DPSK modulation	3	Low :CH 0	2402
	3	Middle: CH39	2441
	3	High: CH78	2480
Note: $\pi/4$ DQPSK modulation is same type modulation with 8-DPSK, and according exploratory test, 8-DPSK will have worse emissions, so the final test were only performed with GFSK and 8-DPSK modulation.			

2.5. Test Facility

Site Description

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd. No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China
3m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 90454 Valid Date: Dec.30, 2017
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Oct.31, 2015
EMC Lab.	:	Certificated by Industry Canada Registration Number: IC 5183A-1 Valid Date: May.14, 2017
	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-00 Valid Date: Dec.15, 2016
	:	Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2016

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.1dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.3 dB(30~200MHz, Polarize: H)
	3.3 dB(30~200MHz, Polarize: V)
	3.5 dB(200M~1GHz, Polarize: H)
	3.4 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	5.0 dB (1~6GHz, Distance: 3m)
	5.0 dB (6~18GHz, Distance: 3m)
Uncertainty for Radiated Spurious Emission test in RF chamber	3.6 dB
Uncertainty for Conduction Spurious emission test	2.0 dB
Uncertainty for Output power test	0.8 dB
Uncertainty for Bandwidth test	83 kHz
Uncertainty for DC power test	0.1 %
Uncertainty for test site temperature and humidity	0.6°C
	3%

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

Frequency rang: 30~1000MHz

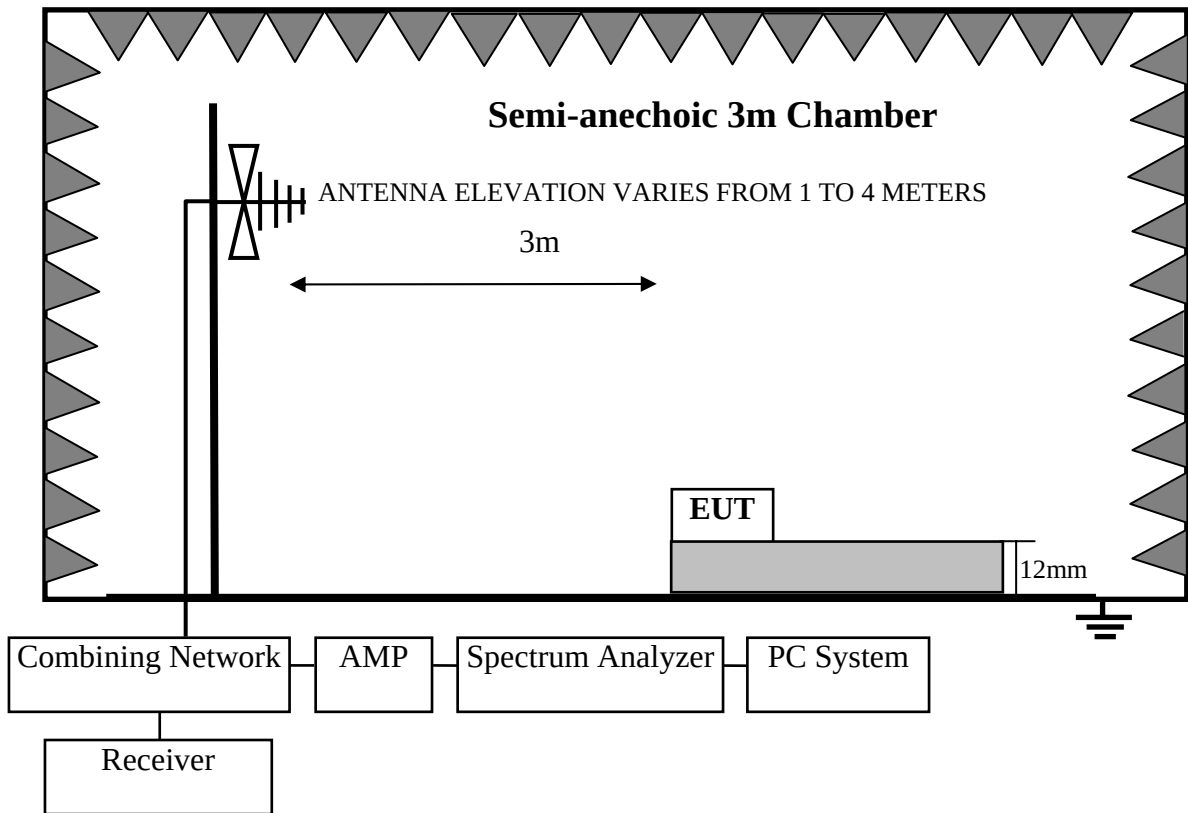
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23, 14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr. 28,15	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 28,15	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr. 28,15	1 Year
5.	Bilog Antenna	TESEQ	CBL6112D	35375	Jun. 18, 14	1 Year
6.	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	Apr. 28,15	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6200313662	Apr. 28,15	1 Year

Frequency rang: above 1000MHz

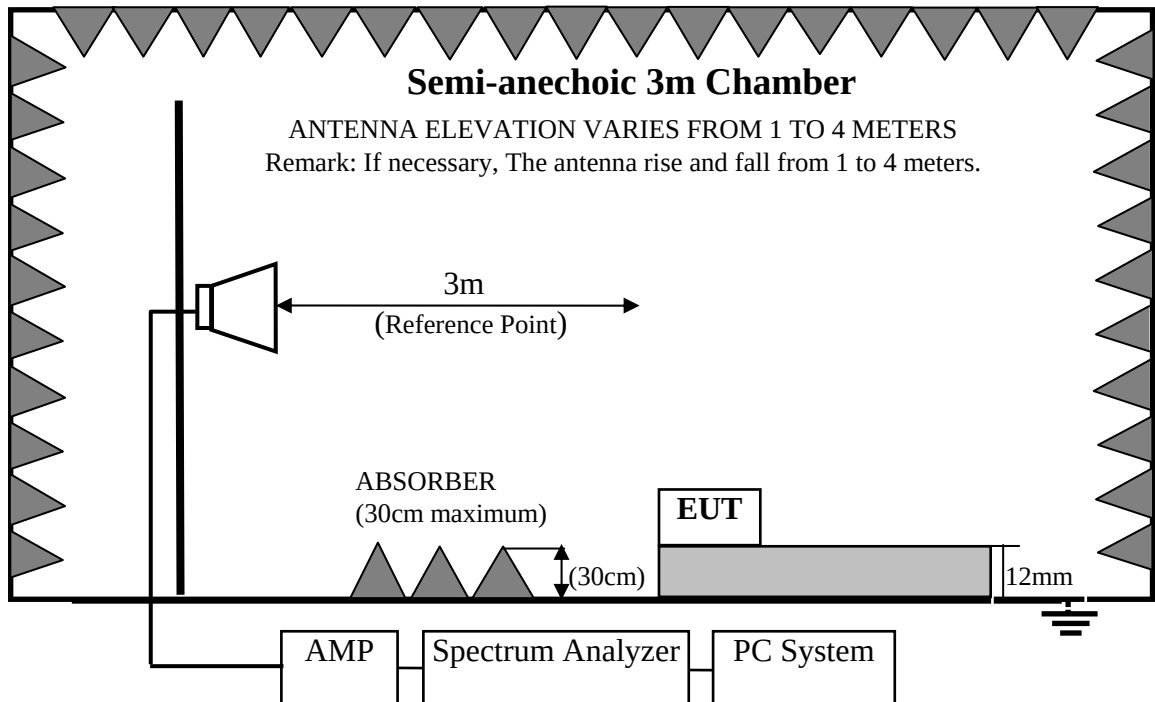
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.02, 14	1 Year
2.	Spectrum Analyzer	Agilent	E4407B	MY41440292	Apr. 28,15	1 Year
3.	Horn Antenna	ETS	3115	9607-4877	Sep.20, 14	1 Year
4.	Amplifier	Agilent	8449B	3008A00863	Apr. 28,15	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr. 28,15	1 Year
6.	RF Cable	Hubersuhner	SUCOFLEX106	28616/2	Apr. 28,15	1 Year
7.	Horn Antenna	ETS	3116	00060089	Sep.20, 14	1 Year

3.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



3.3. Radiated Emission Limit Standard:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.
 - (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

3.4. EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.4.1. Rock Band 4 Wireless Drum Set for PlayStation® 4 (EUT)

Model Number : 91262

Serial Number : N/A

3.5. Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 4.2.

3.5.2. Turned on the power of all equipment.

3.5.3. Let EUT work in Tx mode.

3.6. Test Procedure

The EUT and its simulators are placed on a insulating material (up to 12mm thick), which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10-2009 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

3.7.Radiated Emission Test Results

PASS.

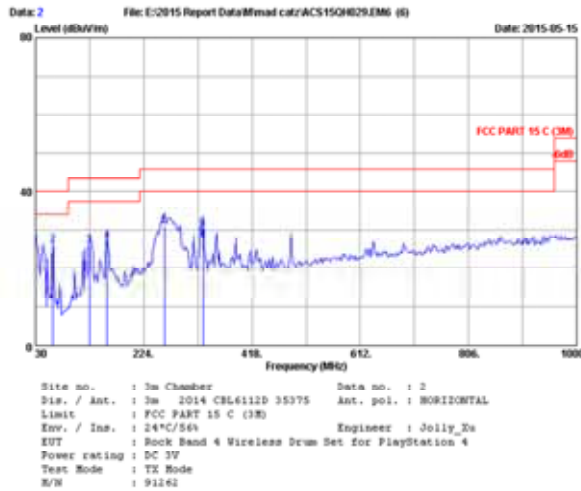
All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note: The duty cycle factor for calculate average level is -30.589 dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

$$\text{Duty cycle factor} = 20\log (\text{Dwell time}/100\text{ms}) = -30.589$$

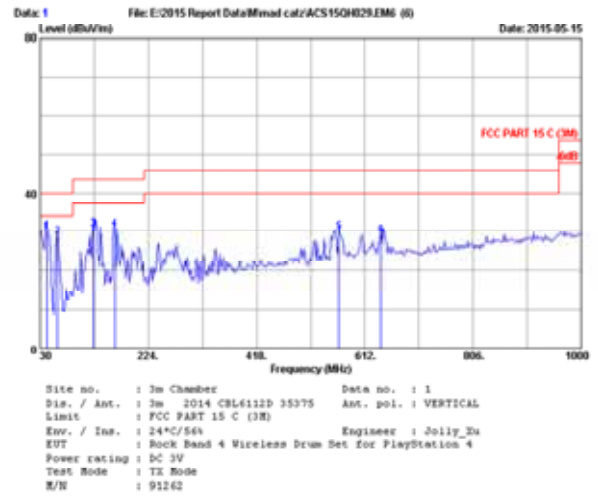


Frequency: 30MHz~1GHz



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	19.60	0.60	6.64	26.84	40.00	13.16	QP
2	61.04	6.40	0.87	19.03	26.30	40.00	13.70	QP
3	127.00	12.80	1.36	11.88	26.04	43.50	17.46	QP
4	150.04	11.00	1.59	14.00	27.59	43.50	16.11	QP
5	240.86	14.04	2.12	15.09	31.25	46.00	14.75	QP
6	350.70	14.71	2.45	13.34	30.50	46.00	15.50	QP

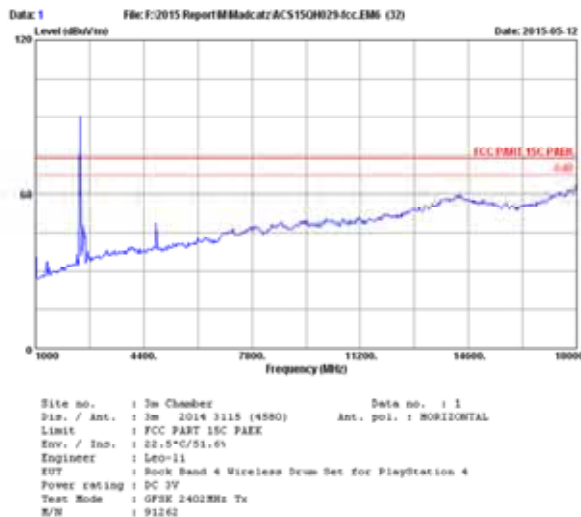
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

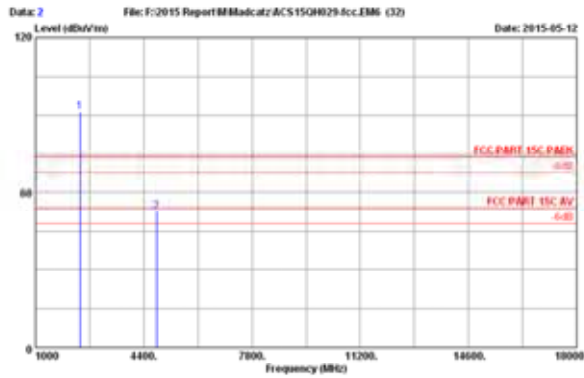


No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	41.64	12.73	0.71	16.48	29.92	40.00	10.08	QP
2	61.04	6.40	0.87	21.53	28.80	40.00	11.20	QP
3	125.06	12.85	1.35	16.44	30.64	43.50	12.86	QP
4	163.86	10.51	1.63	18.72	30.86	43.50	12.64	QP
5	365.44	19.11	3.55	7.35	30.01	46.00	15.99	QP
6	641.10	19.90	3.89	8.09	28.86	46.00	17.14	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

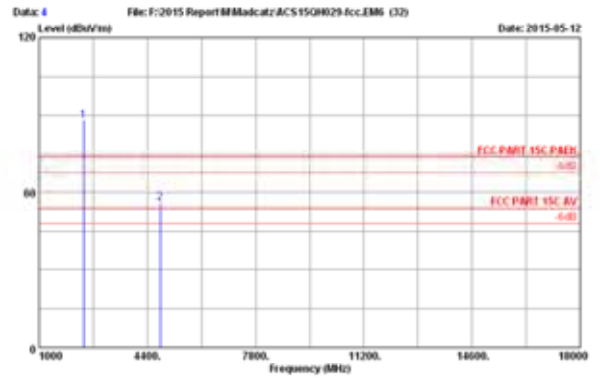
Frequency: 1GHz~18GHz GFSK





No.	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2402.000	20.10	5.00	35.70	92.00	91.16	74.00	-17.16	Peak
2	4804.000	32.85	0.56	35.70	46.95	52.66	74.00	21.34	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2402.000	20.10	5.00	35.70	89.56	87.04	74.00	-13.04	Peak
2	4804.000	32.85	0.56	35.70	50.39	56.10	74.00	17.90	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency (MHz)	Polarization	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit (dBuV/m)	Conclusion
4804	VERTICAL	56.10	-30.589	25.511	54	Pass



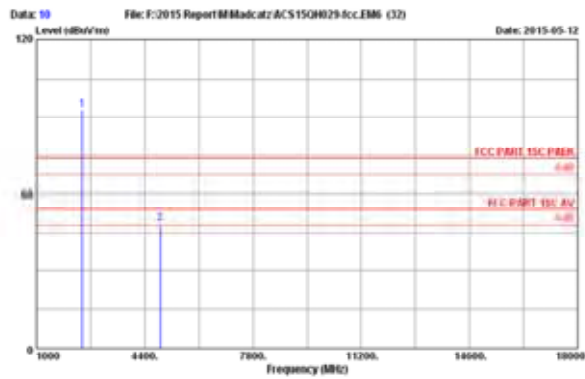
No.	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2402.000	20.10	5.00	35.70	89.56	87.04	74.00	-13.04	Peak
2	4804.000	32.85	0.56	35.70	50.39	56.10	74.00	17.90	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2402.000	20.10	5.00	35.70	89.56	87.04	74.00	-13.04	Peak
2	4804.000	32.85	0.56	35.70	50.39	56.10	74.00	17.90	Peak

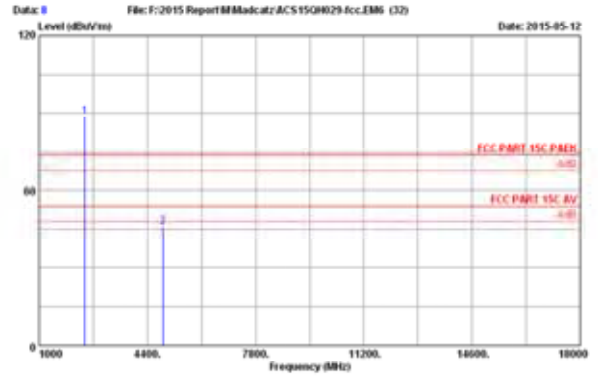
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GFSK 2441MHz Tx
 M/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.06	35.70	94.51	92.94	74.00	-18.94	Peak
2	4882.000	32.99	6.64	35.70	42.39	48.32	74.00	25.68	Peak

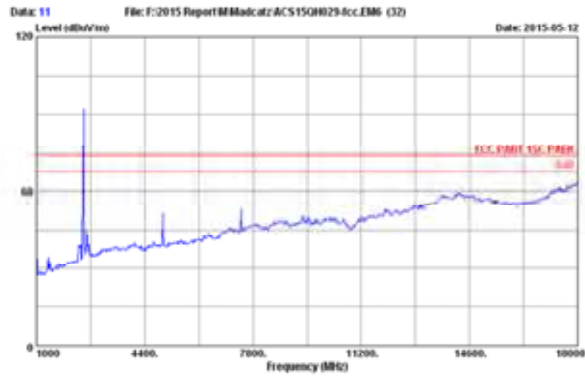
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GFSK 2441MHz Tx
 M/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.27	5.06	35.70	90.11	80.54	74.00	-14.54	Peak
2	4882.000	32.99	6.64	35.70	40.14	46.07	74.00	27.93	Peak

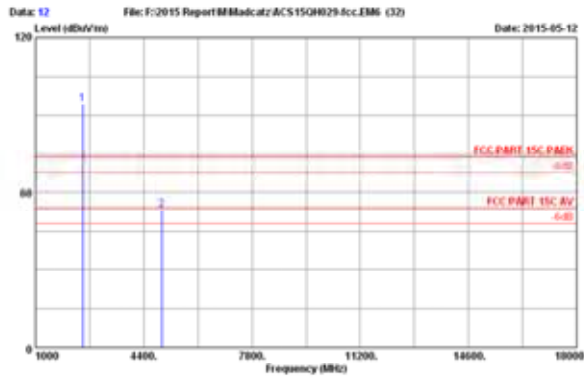
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GFSK 2400MHz Tx
 M/N : 91262



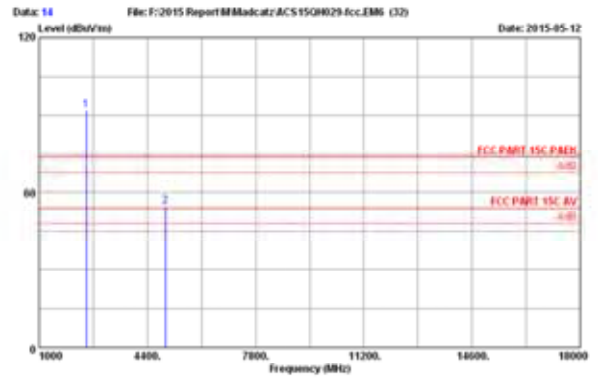
Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GFSK 2400MHz Tx
 M/N : 91262



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GFSK 2400MHz Tx
 M/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2400.000	20.36	5.91	35.70	95.00	94.37	74.00	-20.37	Peak
2	4960.000	33.13	0.72	35.70	47.24	53.39	74.00	20.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



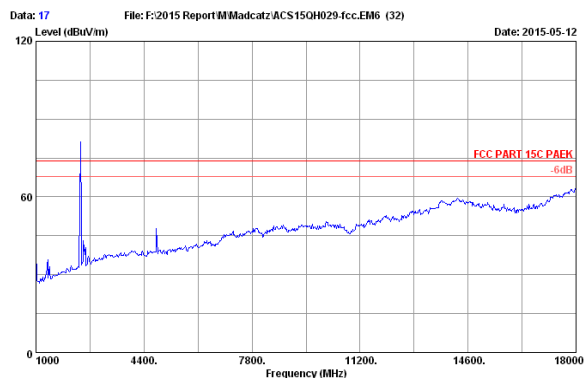
Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GFSK 2400MHz Tx
 M/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2479.000	20.35	5.91	35.70	93.22	91.70	74.00	-17.70	Peak
2	4961.000	33.13	0.72	35.70	48.54	54.69	74.00	19.31	Peak

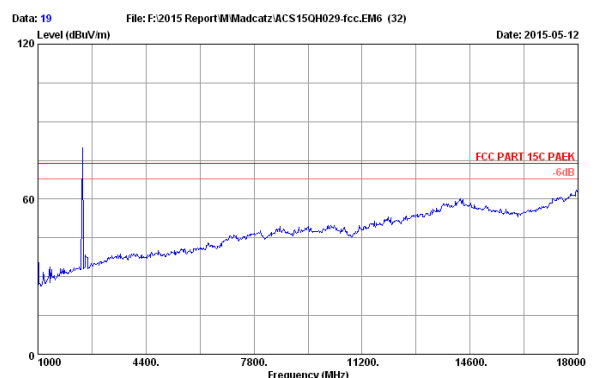
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

Frequency (MHz)	Polarization	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit (dBuV/m)	Conclusion
4960	VERTICAL	54.69	-30.589	24.101	54	Pass

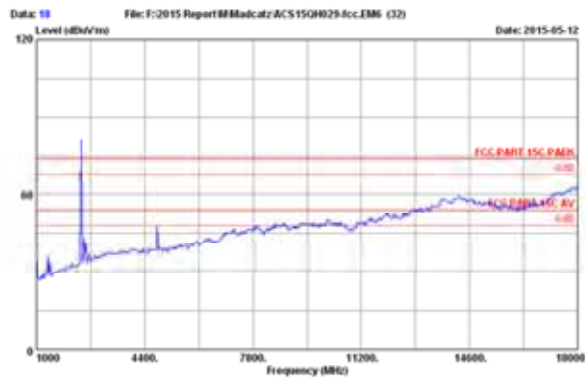
8-DPSK



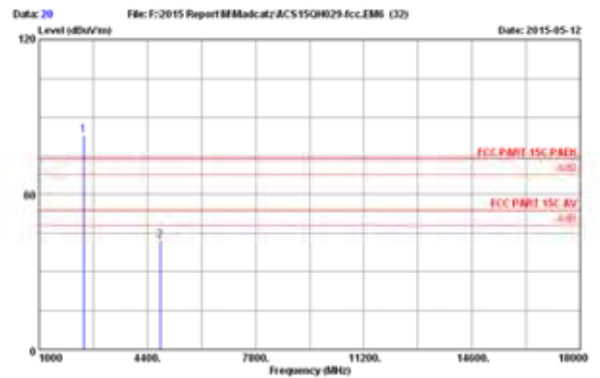
Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-DPSK 2402MHz Tx
 M/N : 91262



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-DPSK 2402MHz Tx
 M/N : 91262



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6k
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2402MHz Tx
 M/N : 91262



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6k
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2402MHz Tx
 M/N : 91262

No.	Freq.	Ant. Factor (dB)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dB)	Margin	Remark
1	2402.000	20.10	5.00	35.70	84.49	82.77	74.00	-8.77	Peak
2	4804.000	32.85	8.56	35.70	36.77	42.48	74.00	31.52	Peak

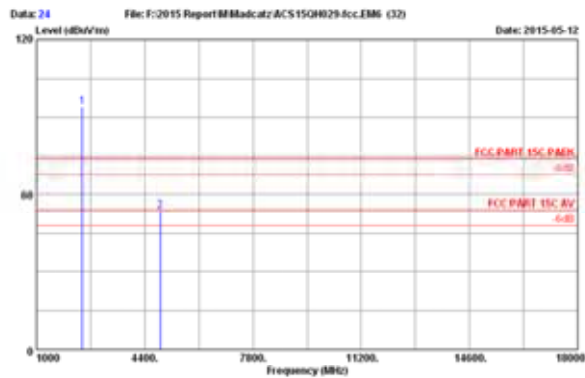
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 10dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6k
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2441MHz Tx
 M/N : 91262



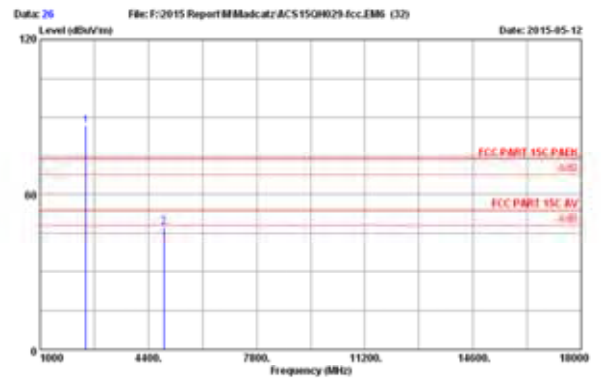
Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAK
 Env. / Ins. : 22.5°C/51.6k
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2441MHz Tx
 M/N : 91262



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 22.5°C/51.6k
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2441MHz Tx
 M/N : 91262

No.	Freq.	Ant.	Cable	AMP	Emission	Level	Limit	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
1	2441.000	20.27	5.06	35.70	95.55	93.90	74.00	-19.90	Peak
2	4882.000	32.99	0.64	35.70	47.94	53.87	74.00	20.13	Peak

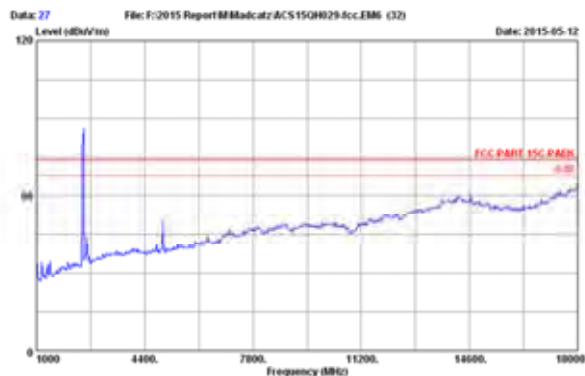
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 22.5°C/51.6k
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2441MHz Tx
 M/N : 91262

No.	Freq.	Ant.	Cable	AMP	Emission	Level	Limit	Margin	Remark
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	
1	2441.000	20.27	5.06	35.70	95.55	93.90	74.00	-19.90	Peak
2	4882.000	32.99	0.64	35.70	47.94	53.87	74.00	20.13	Peak

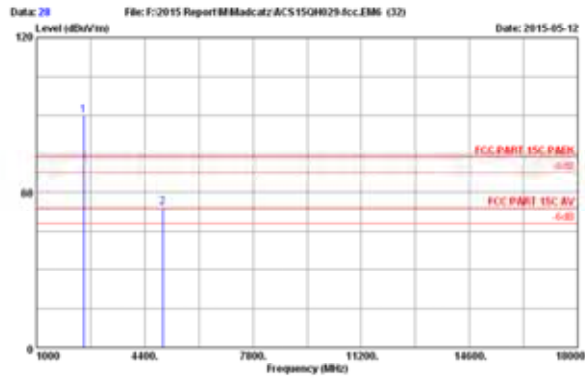
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 22.5°C/51.6k
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2400MHz Tx
 M/N : 91262



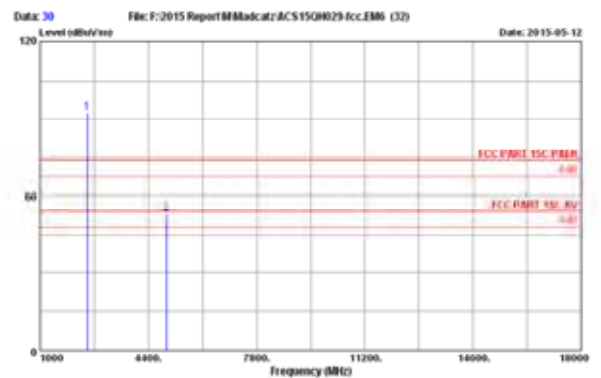
Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 22.5°C/51.6k
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2400MHz Tx
 M/N : 91262



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 22.5°C/51.6h
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2400MHz Tx
 E/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2400.000	20.36	5.91	35.70	91.19	89.76	74.00	-15.76	Peak
2	4960.000	33.13	0.72	35.70	48.40	54.55	74.00	19.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2014 3115 (4580) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAKK
 Env. / Ins. : 22.5°C/51.6h
 Engineer : Leo-11
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : 8-PSK 2400MHz Tx
 E/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin	Remark
1	2400.000	20.36	5.91	35.70	94.15	92.72	74.00	-18.72	Peak
2	4960.000	33.13	0.72	35.70	46.88	53.03	74.00	20.97	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -AMP Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

Frequency (MHz)	Polarization	Peak level (dBuV/m)	Duty cycle factor (dB)	AV level (dBuV/m)	Limit (dBuV/m)	Conclusion
4960	HORIZONTAL	54.55	-30.589	23.961	54	Pass

4. CONDUCTED SPURIOUS EMISSIONS

4.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,15	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,15	1 Year

4.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

4.3. Test Procedure

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions With peak detector.

4.4. Test result

PASS (The testing data was attached in the next pages.)

Hopping off

GFSK

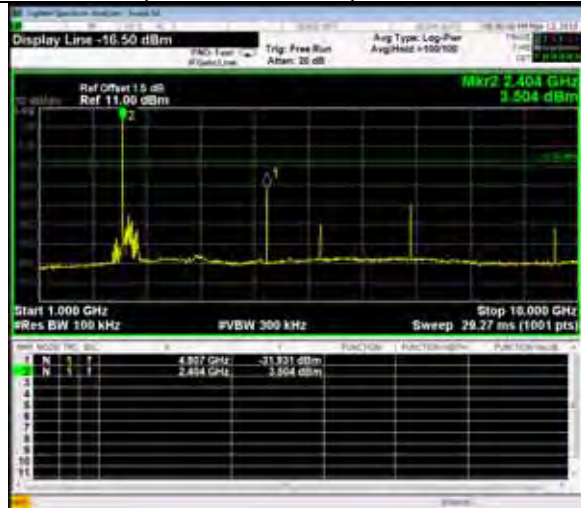
2402MHz(30MHz – 1GHz)



2402MHz(10GHz – 25GHz)



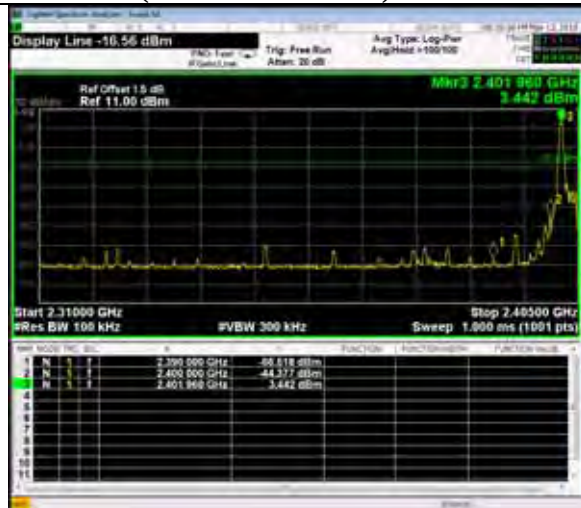
2402MHz(1GHz – 10GHz)



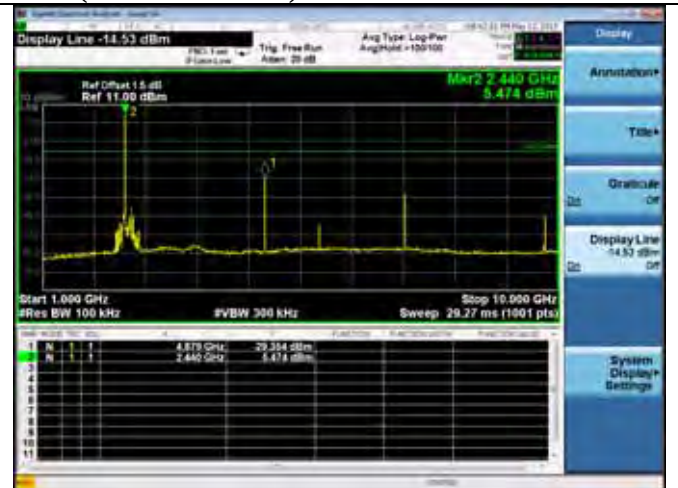
2441(30MHz – 1GHz)



2402MHz(2.3GHz – 2.4GHz)



2441(1GHz – 10GHz)



2441(10GHz – 25GHz)



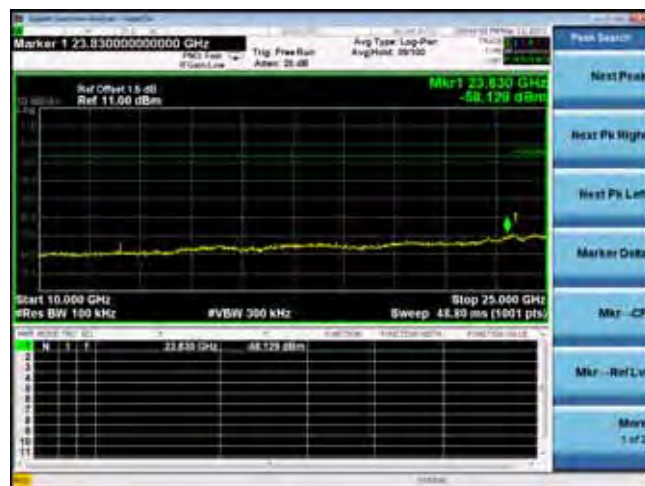
2480MHz(2.4GHz – 2.5GHz)



2480MHz(30MHz – 1GHz)

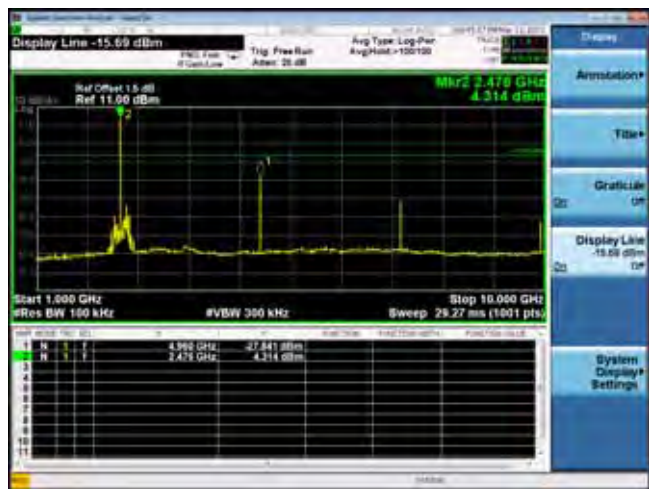


2480MHz(10GHz – 25GHz)



8-DPSK

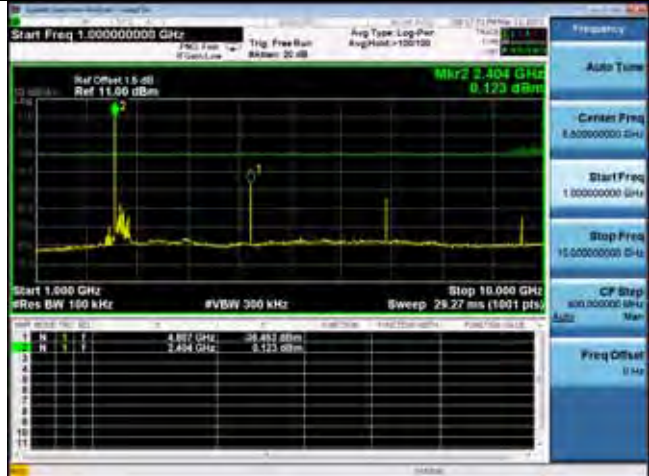
2480MHz(1GHz – 10GHz)



2402MHz(30MHz – 1GHz)



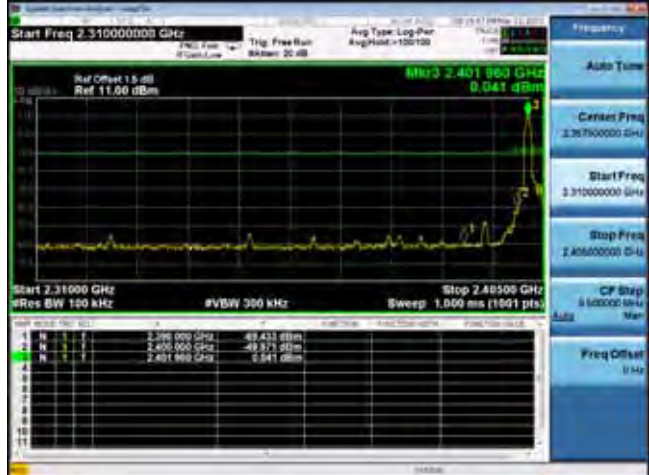
2402MHz(1GHz – 10GHz)



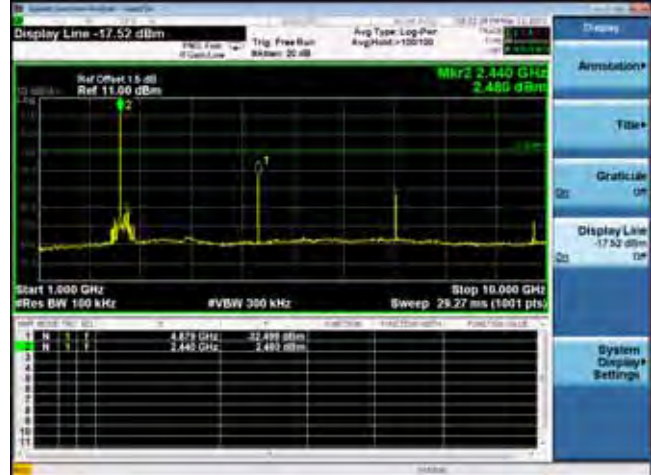
2441MHz (30MHz – 1GHz)



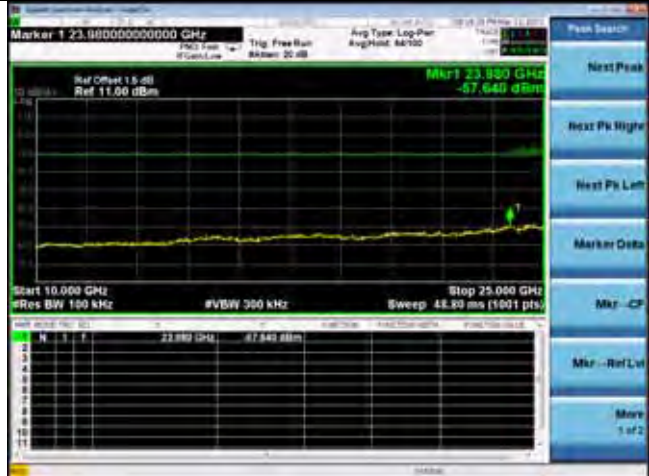
2402MHz(2.3GHz – 2.4GHz)



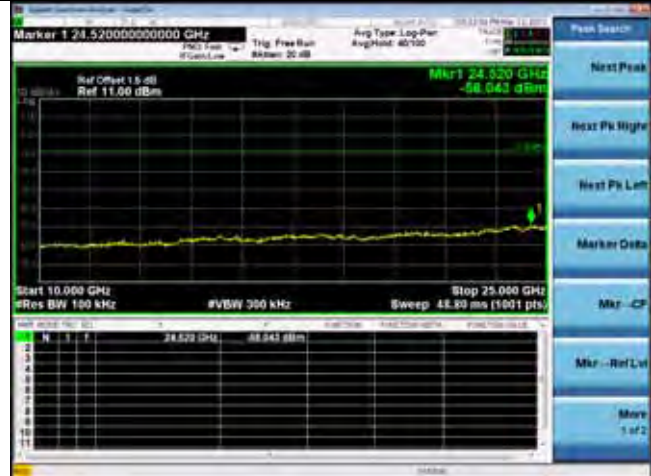
2441MHz(1GHz – 10GHz)



2402MHz(10GHz – 25GHz)



2441MHz(10GHz – 25GHz)



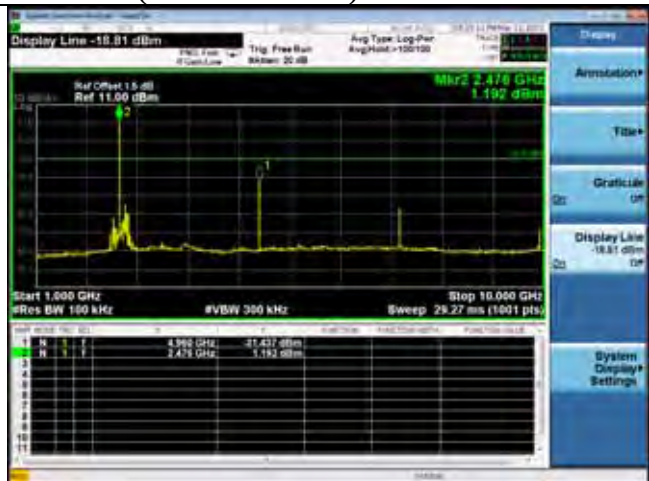
2480MHz(30MHz – 1GHz)



2480MHz(10GHz – 25GHz)



2480MHz(1GHz – 10GHz)



Hopping on

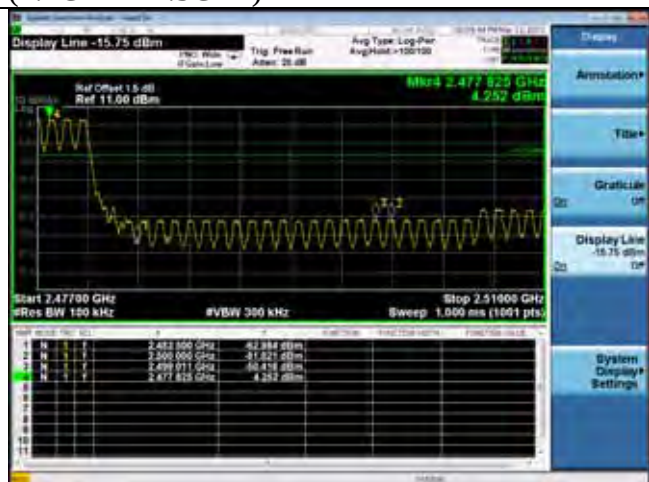
GFSK(2.3GHz – 2.4GHz)



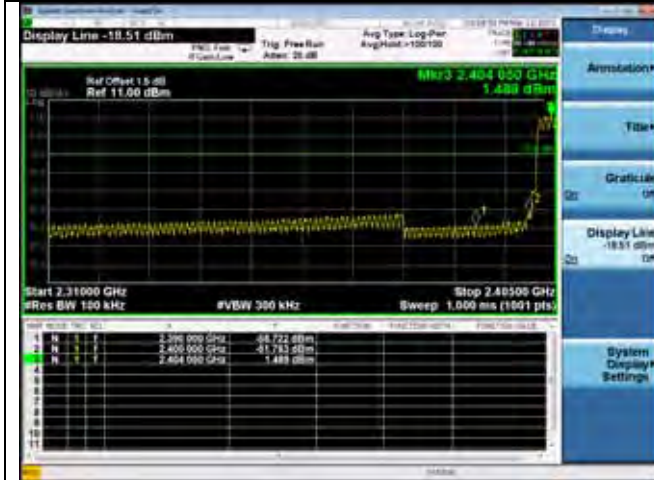
2480MHz(2.4GHz – 2.5GHz)



(2.4GHz – 2.5GHz)



8-DPSK(2.3GHz – 2.4GHz)



(2.4GHz – 2.5GHz)



5. 20 DB BANDWIDTH TEST

5.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,15	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,15	1 Year

5.2.Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

5.3.Test Results

EUT: Rock Band 4 Wireless Drum Set for PlayStation® 4		
M/N: 91262		
Test date: 2015-05-12	Pressure: 101.4±1.0 kpa	Humidity: 51.4±3.0%
Tested by: Donjon_Huang	Test site: RF Site	Temperature: 23.4±0.6℃

Test Mode	Frequency (MHz)	20dB Bandwidth (KHz)	Limit (KHz)
GFSK	2402	1102	N/A
	2441	1103	N/A
	2480	1100	N/A
8-DPSK	2402	1343	N/A
	2441	1344	N/A
	2480	1346	N/A

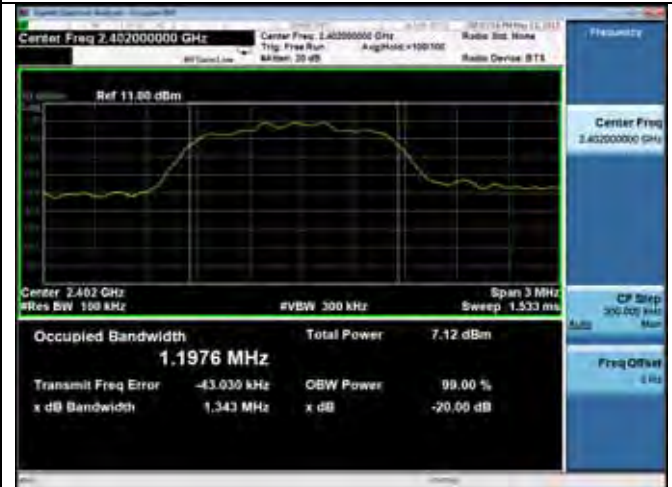
Conclusion : PASS

GFSK

2402MHz


8-DPSK

2402MHz



2441MHz



2441MHz



2480MHz



2480MHz



6. CARRIER FREQUENCY SEPARATION TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr. 28,15	1 Year

6.2. Limit

Frequency hopping systems shall have hopping channel carrier frequency separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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, provided the systems operate with an output power no greater than 125 mW.

6.3. Test Results.

EUT: Rock Band 4 Wireless Drum Set for PlayStation® 4		
M/N: 91262		
Test date: 2015-05-12	Pressure: 101.4±1.0 kpa	Humidity: 51.4±3.0%
Tested by: Donjon_Huang	Test site: RF Site	Temperature: 23.4±0.6℃

Test Mode	Channel separation	Limit(KHz)	Conclusion
8-DPSK	1.0MHz	581.67	PASS
GFSK	1.0MHz	808.67	PASS



7. NUMBER OF HOPPING FREQUENCY TEST

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.29, 14	1 Year
2.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr.28, 15	1 Year

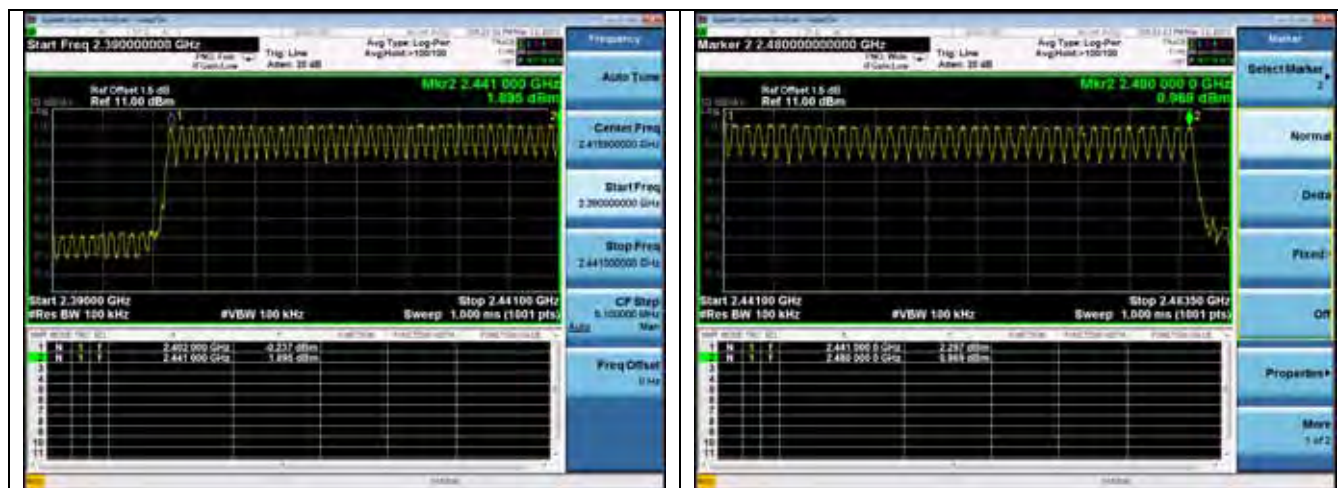
7.2. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

7.3. Test Results

EUT: Rock Band 4 Wireless Drum Set for PlayStation® 4		
M/N: 91262		
Test date: 2015-05-12	Pressure: 101.4±1.0 kpa	Humidity: 51.4±3.0%
Tested by: Donjon_Huang	Test site: RF Site	Temperature: 23.4±0.6°C

Test Mode	Number of channel	Limit	Conclusion
8-DPSK	79	>=15	PASS
GFSK	79	>=15	PASS



8. DWELL TIME

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	N9030A	MY51380221	Oct.29, 14	1Year
2.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr.28, 15	1 Year

8.2. Limit

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

8.3. Test Results

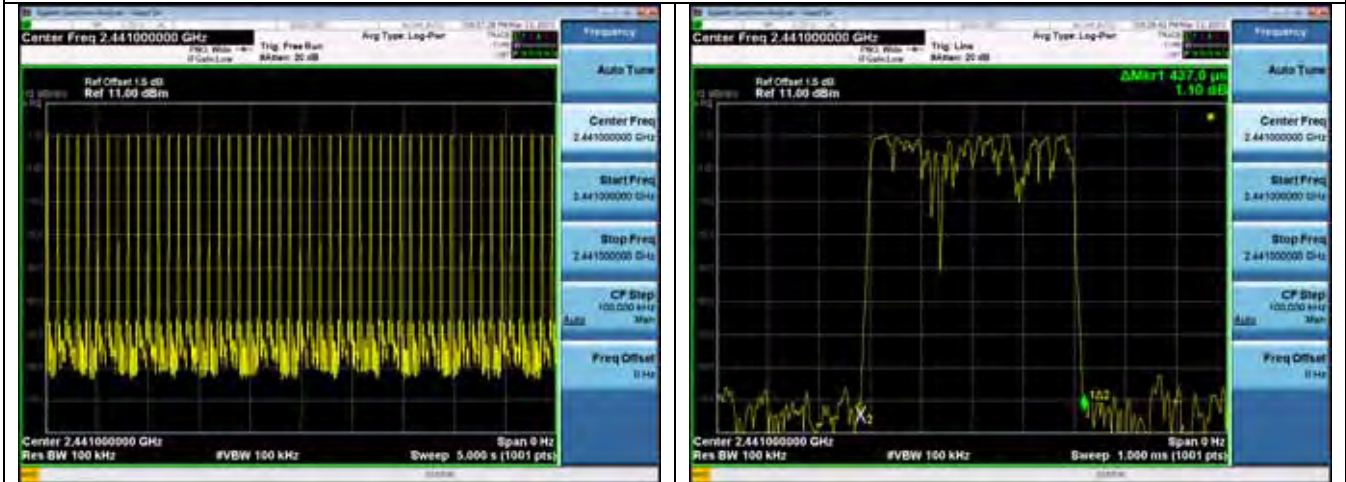
EUT: Rock Band 4 Wireless Drum Set for PlayStation® 4		
M/N: 91262		
Test date: 2015-05-12	Pressure: 101.4±1.0 kpa	Humidity: 51.4±3.0%
Tested by: Donjon_Huang	Test site: RF Site	Temperature: 23.4±0.6°C

Mode		dwel time	Limit	Conclusion
GFSK	DH1	51hops/5s*0.4*79chanel*0.437ms =140.53ms	<400ms	PASS
	DH3	25hops/5s*0.4*79chanel*1.698ms =268.28ms	<400ms	PASS
	DH5	17hops/5s*0.4*79chanel*2.960ms =317.49ms	<400ms	PASS
8-DPSK	DH1	51hops/5s*0.4*79chanel*0.453ms =147.89ms	<400ms	PASS
	DH3	25hops/5s*0.4*79chanel*1.701ms =270.18ms	<400ms	PASS
	DH5	17hops/5s*0.4*79chanel*2.965ms =317.49ms	<400ms	PASS

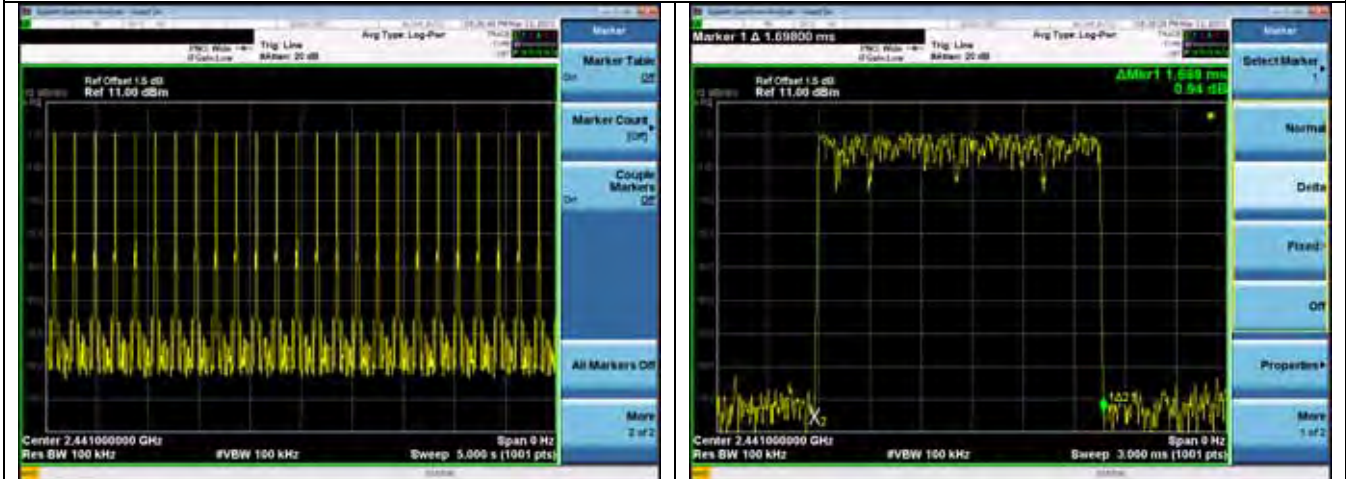
Note: All the lower levels were signaled from receiver and should not be considered in here.

GFSK

DH 1



DH 3

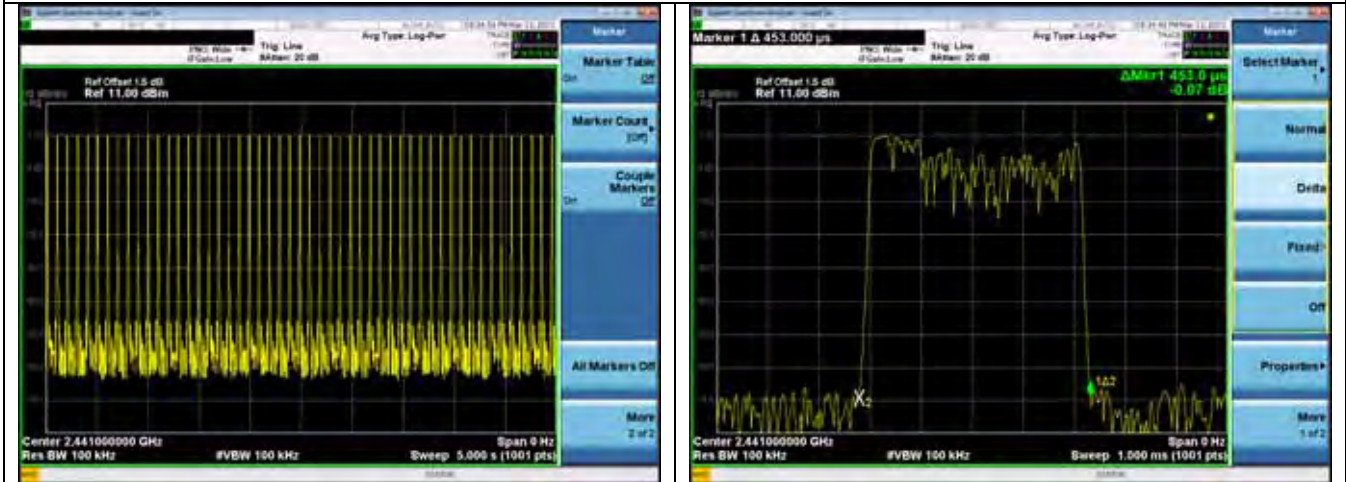


DH 5

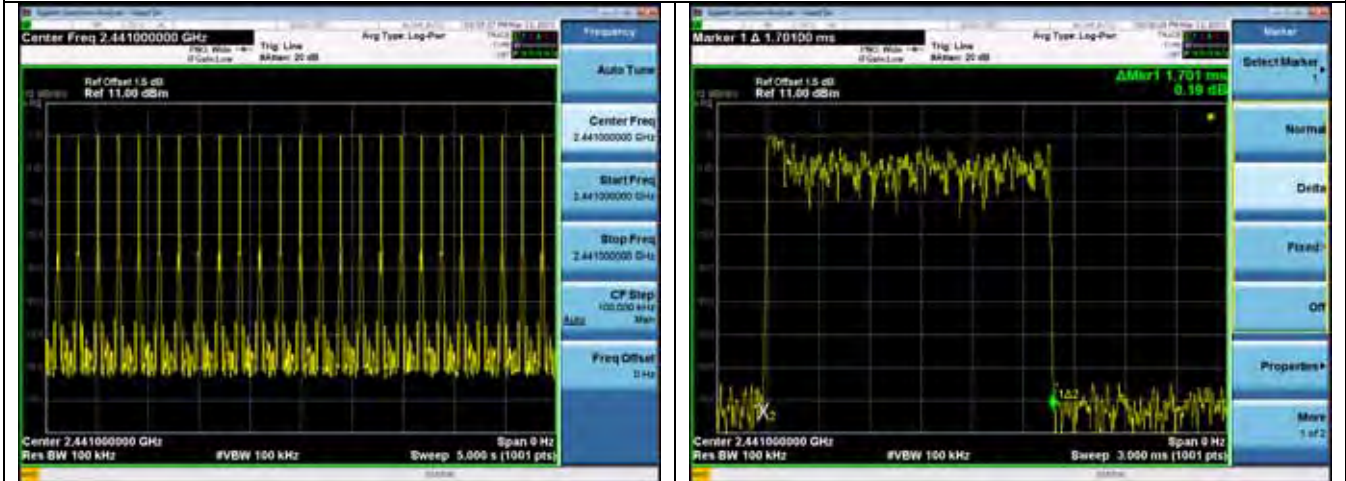


8-DPSK

3DH 1



3DH 3



3DH 5



9. MAXIMUM PEAK OUTPUT POWER TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.29, 14	1 Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Apr. 28,15	1 Year
3.	Power sensor	Anritsu	MA2491A	0033005	Apr. 28,15	1 Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 28,15	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr. 28,15	1 Year

9.2. Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.

9.3. Test Procedure

Connected the EUT's antenna port to Power Sensor, and use power meter to test peak output power directly.

9.4. Test Results

EUT: Rock Band 4 Wireless Drum Set for PlayStation® 4			
M/N: 91262			
Test date: 2015-05-12		Pressure: 101.4±1.0 kpa	Humidity: 51.3±1.0%
Tested by: Donjon_Huang		Test site: RF site	Temperature: 23.3±1.0 °C
Test Mode	Frequency (MHz)	Max. Conducted Output Power (dBm)	Limit (dBm)
GFSK	2402	3.716	30
	2441	5.494	30
	2480	4.370	30
8-DPSK	2402	2.017	30
	2441	4.071	30
	2480	2.827	30
Conclusion: PASS			

10.BAND EDGE COMPLIANCE TEST

10.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Amp	HP	8449B	3008A02495	Apr. 28,15	1 Year
2.	Horn Antenna	ETS	3115	9510-4580	Jun. 06, 14	1 Year
3.	HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 28,15	1 Year
4.	RF Cable	Hubersuhner	Sucoflex102	28610/2	Apr. 28,15	1 Year

10.2.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

10.3.Test Produce

For upper band emissions that are up to two bandwidths(2MHz) away (2483.5MHz to 2485.5MHz) from the band-edge use below produce:

1. Choose a spectrum analyzer span that encompasses both the peak of the fundamental emission and the band-edge emission under investigation. Set the analyzer RBW to 100KHz and with a video bandwidth 300KHz. Record the peak levels of the fundamental emission and the relevant band-edge emission, Observe the stored trace and measure the amplitude delta between the peak of the fundamental and the peak of the band-edge emission. This is not a field strength measurement, it is only a relative measurement to determine the amount by which the emission drops at the band edge relative to the highest fundamental emission level.
2. Subtract the delta measured in step (1) from the maximum field strengths measured in clause 4 .The resultant field strengths are then used to determine band-edge compliance as required by Section 15.205

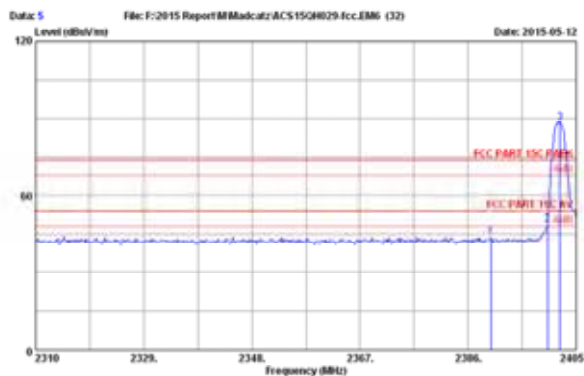
For emissions above two bandwidths away from the band-edge use below produce:

1. The EUT is placed on a insulating material (up to 12mm thick) 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=1MHz ;VBW=3MHz, PK detector, Sweep=AUTO
 - (b) This is pulse Modulation device a duty cycle factor was used to calculate average level based measured peak level.

10.4.Test Results

Pass (The testing data was attached in the next pages.)

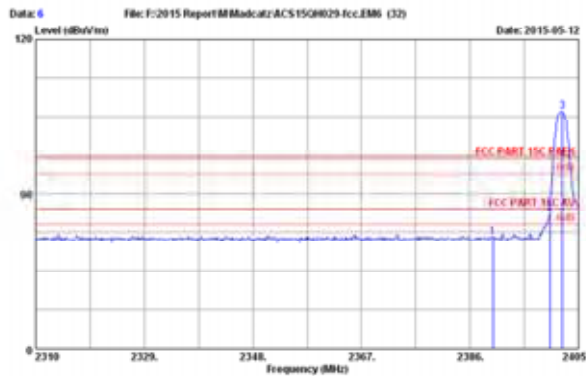
Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2014 3115 (4500) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAER
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-li
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GPSK 2400MHz Tx
 N/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Level Limits (dBuV/m)	Margin (dB)	Remark
1	2389.500	28.16	5.70	35.70	15.11	43.65	74.00	30.35	Peak
2	2400.000	28.18	5.80	35.70	50.52	49.80	74.00	24.20	Peak
3	2402.150	28.18	5.80	35.70	30.02	60.30	74.00	-13.70	Peak

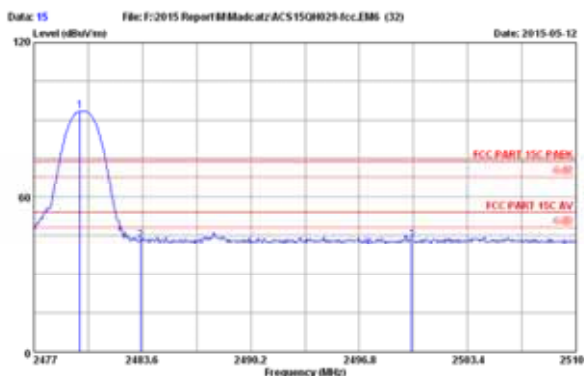
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2014 3115 (4500) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAER
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-li
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GPSK 2400MHz Tx
 N/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Level Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.70	35.70	44.76	43.00	74.00	31.00	Peak
2	2400.000	28.18	5.80	35.70	54.15	52.43	74.00	21.57	Peak
3	2402.150	28.18	5.80	35.70	39.33	91.81	74.00	-17.81	Peak

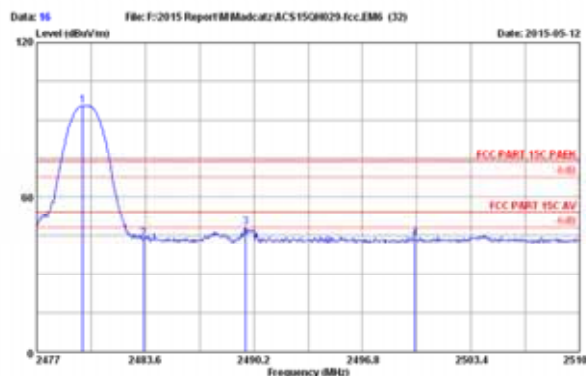
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2014 3115 (4500) Ant. pol. : VERTICAL
 Limit : FCC PART 15C PAER
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-li
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GPSK 2400MHz Tx
 N/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Level Limits (dBuV/m)	Margin (dB)	Remark
1	2479.005	28.36	5.91	35.70	94.63	93.20	74.00	-19.20	Peak
2	2483.500	28.36	5.92	35.70	44.41	42.99	74.00	31.01	Peak
3	2500.000	28.40	5.94	35.70	44.45	43.09	74.00	30.91	Peak

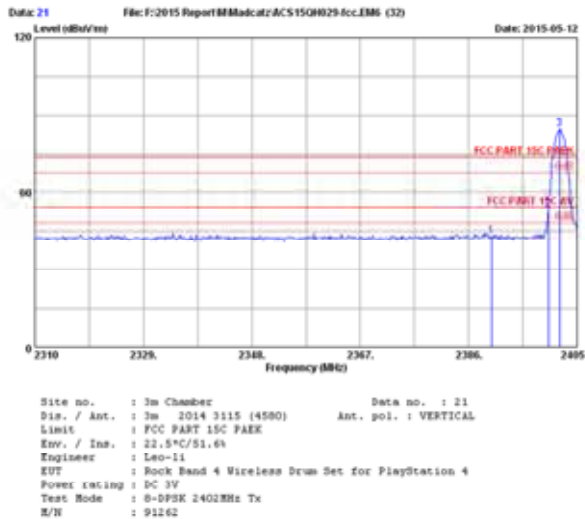
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2014 3115 (4500) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PAER
 Env. / Ins. : 22.5°C/51.6%
 Engineer : Leo-li
 EUT : Rock Band 4 Wireless Drum Set for PlayStation 4
 Power rating : DC 3V
 Test Mode : GPSK 2400MHz Tx
 N/N : 91262

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Level Limits (dBuV/m)	Margin (dB)	Remark
1	2479.005	28.36	5.91	35.70	94.70	95.35	74.00	-21.35	Peak
2	2483.500	28.36	5.92	35.70	45.15	43.73	74.00	30.27	Peak
3	2489.705	28.38	5.93	35.70	49.50	48.19	74.00	25.81	Peak
4	2500.000	28.40	5.94	35.70	45.06	43.70	74.00	30.30	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	ARP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.72	42.96	74.00	31.04	Peak
2	2400.000	28.18	5.80	35.70	55.17	53.45	74.00	20.55	Peak
3	2401.940	28.18	5.80	35.70	86.35	84.63	74.00	-10.63	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	ARP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	28.16	5.78	35.70	44.48	42.72	74.00	31.28	Peak
2	2400.000	28.18	5.80	35.70	59.34	57.62	74.00	16.38	Peak
3	2401.940	28.18	5.80	35.70	89.82	88.10	74.00	-14.10	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	ARP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.904	28.36	5.91	35.70	96.02	94.39	74.00	-20.59	Peak
2	2483.500	28.36	5.92	35.70	45.74	44.32	74.00	29.68	Peak
3	2500.000	28.40	5.94	35.70	43.09	42.53	74.00	31.47	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	ARP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.036	28.36	5.91	35.70	91.99	90.56	74.00	-16.56	Peak
2	2483.500	28.36	5.92	35.70	45.17	43.75	74.00	30.25	Peak
3	2500.000	28.40	5.94	35.70	43.09	42.53	74.00	31.47	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

11. TENNA REQUIREMENT

11.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are PCB antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 3.21dBi.

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]