



FCC ID:VOB-P2575

AUDIX Technology (Shenzhen) Co., Ltd.

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

NVIDIA Corporation

Remote Control

Model No.: P2575

FCC ID: VOB-P2575

Prepared for : NVIDIA Corporation

2701 San Tomas Expressway, Santa Clara, CA, 95050, USA

Prepared By : Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS-F15082-1

Date of Test : Jun.16~25, 2015

Date of Report : Jul.08, 2015

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TEST REPORT CERTIFICATION

Applicant : NVIDIA Corporation
Manufacturer : NVIDIA Corporation
EUT Description : Remote Control
FCC ID : VOB-P2575
(A) MODEL NO. : P2575
(B) SERIAL NO. : N/A
(C) Power Supply : (1)DC3.8V From Battery;
(2)DC 5V From USB port
(D) TEST VOLTAGE : DC 5V From PC Input AC 120V/60Hz

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.

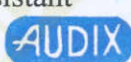
This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

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 : Jun.16~25, 2015 Report of date: Jul.08, 2015

Prepared by : Kayli He Reviewed by : Sunny Lu
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

Approved & Authorized Signer :

David Jin / Manager

Modified History

Edition No.	Date of Rev.	Summary	Report No.
0	Original Report.	Mar.30, 2015	ACS-F15082
Rev.01	1. Adjust GND around RF path, and void reference GND under the antenna feed clip, to improve impedance matching. 2. Improve AGND flood, by removing digital GND floods from above it. 3. Improve power delivery by removing unused 0ohm series resistors to power blocks.	Jul.08, 2015	ACS-F15082-1

Remark:

1. This report is an additional version with original report number ACS-F15082. the different with original report are See the above table of REV.01.
2. Through evaluation of the above difference, Power Line Conducted Emission, Radiated Emission, Maximum Peak Output Power and Band Edge Compliance needed to be re-performed. The EUT was retested and all the test data were recorded in this report.
3. This report is based on report of ACS-F15082.

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
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 : Remote Control

Model Number : P2575

FCC ID : VOB-P2575

Radio : Bluetooth V3.0+EDR

Operation Frequency : 2402-2480MHz

Modulation Technology : GFSK, $\pi/4$ DQPSK, 8-DPSK

Antenna Assembly : Antenna Type: IFA

Gain Bluetooth: -0.14dBi

Applicant : NVIDIA Corporation

2701 San Tomas Expressway, Santa Clara, CA,95050,USA

Manufacturer : NVIDIA Corporation

2701 San Tomas Expressway, Santa Clara, CA,95050,USA

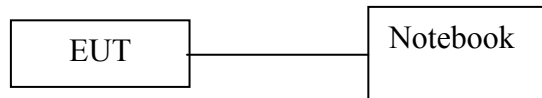
Date of Test : Jun.16~25, 2015

Date of Receipt : May.22, 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: Remote Control)

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)

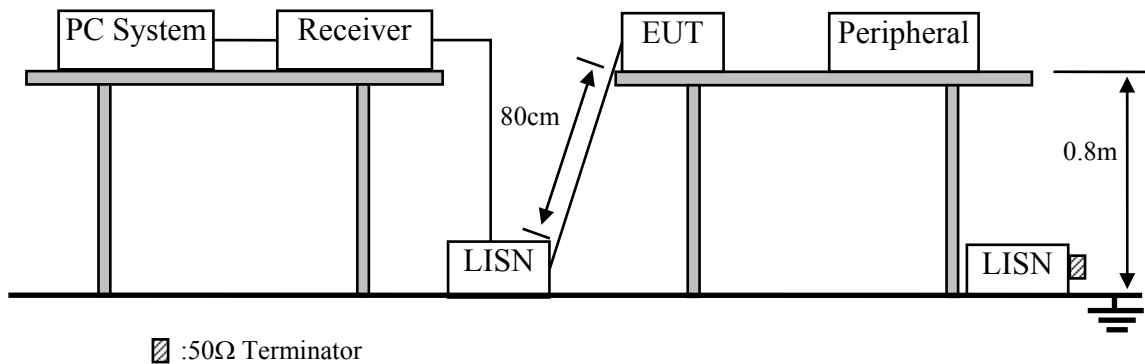
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.1dB (150KHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.3 dB(30~200MHz, Polarize: H)
	3.3 dB(30~200MHz, Polarize: V)
	3.5 dB(200M~1GHz, Polarize: H)
	3.4 dB(200M~1GHz, Polarize: V)
Uncertainty for 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℃
	3%

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	Apr.17,15	1 Year
2.	Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.28,15	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct.29,14	1 Year
4.	L.I.S.N.#2	Kyoritsu	K NW-403D	8-1750-2	Apr.28,15	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.28,15	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.28,15	1 Year
7.	RF Cable	MIYAZAKI	3D-2W	No.1	Apr.28,15	1Year
8.	Coaxial Switch	Anritsu	MP59B	6200766906	Apr.28,15	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101838	Oct.29,14	1 Year
10.	Test Software	AUDIX	E3	6.100913a	N/A	N/A

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Test

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

3.4.1. Remote Control (EUT)

Model Number : P2575
Serial Number : N/A

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3. Let the EUT work in test mode (TX Mode) and measure it.

3.6. Test Procedure

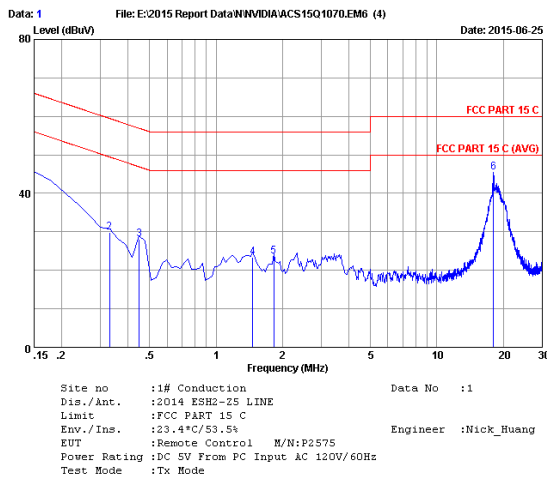
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10-2009 on conducted Emission test.

The bandwidth of test receiver (R & S ESHS10) is set at 9kHz and the QP detection was used.

The frequency range from 150kHz to 30MHz is checked. The test result are reported on Section 3.7.

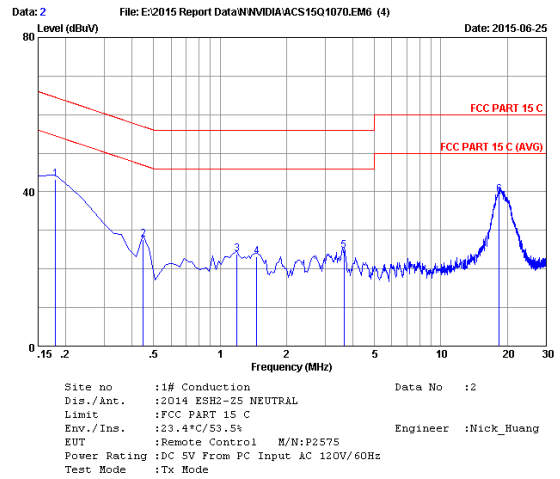
3.7. Conducted Emission at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)



No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.15000	0.14	9.92	34.56	44.62	66.00	21.38	QP
2	0.32910	0.14	9.93	19.74	29.81	59.47	29.66	QP
3	0.44850	0.50	9.94	17.63	28.07	56.90	28.83	QP
4	1.463	0.18	9.97	13.30	23.45	56.00	32.55	QP
5	1.822	0.18	9.98	13.44	23.60	56.00	32.40	QP
6	18.030	0.61	10.26	34.62	45.49	60.00	14.51	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17985	0.13	9.93	33.24	43.30	64.49	21.19	QP
2	0.44850	0.16	9.94	17.54	27.64	56.90	29.26	QP
3	1.1195	0.18	9.96	13.64	23.78	56.00	32.22	QP
4	1.463	0.18	9.97	12.99	23.14	56.00	32.86	QP
5	3.642	0.25	10.03	14.39	24.67	56.00	31.33	QP
6	18.359	0.70	10.26	28.29	39.25	60.00	20.75	QP

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

Frequency rang: 30~1000MHz

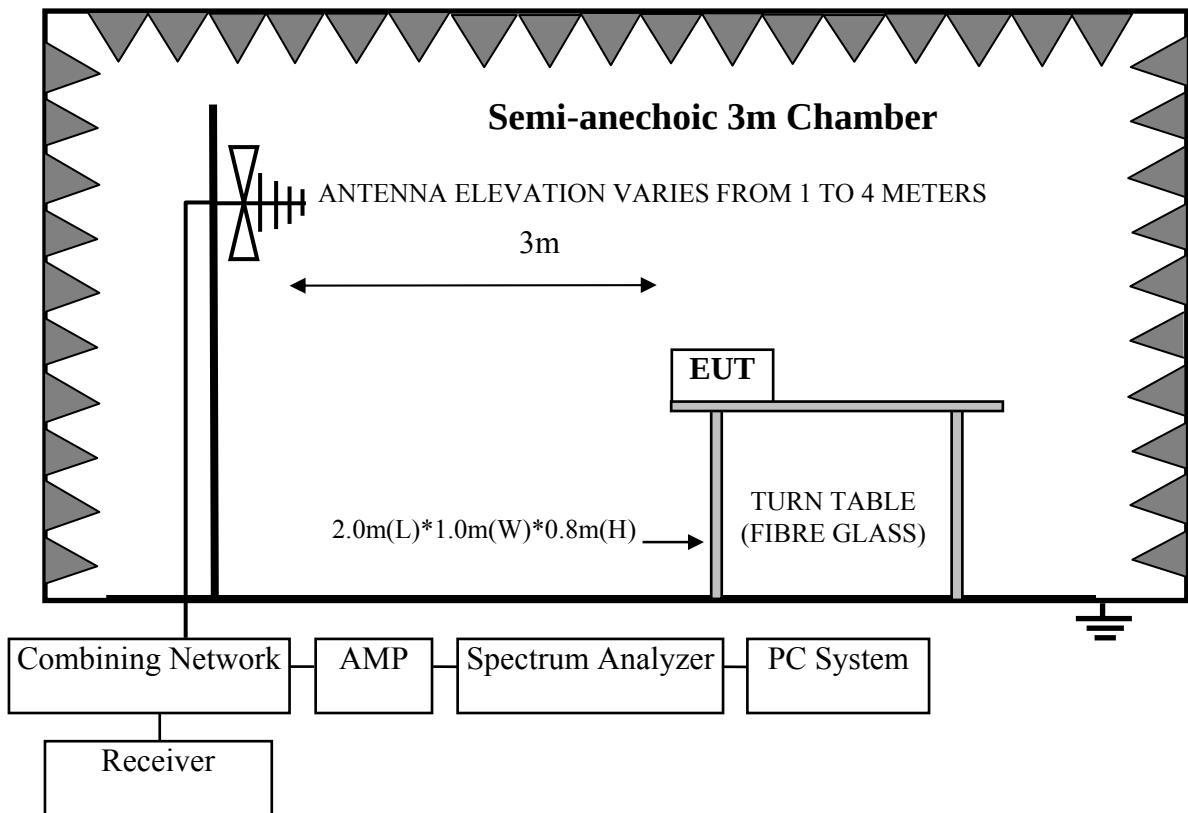
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber	AUDIX	N/A	N/A	Nov.23,14	1 Year
2.	EMI Spectrum	Agilent	E4407B	MY41440292	Apr.28,15	1 Year
3.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr.28,15	1 Year
4.	Amplifier	HP	8447D	2648A04738	Apr.28,15	1 Year
	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-493	May.06,15	1 Year
5.	RF Cable	MIYAZAKI	CFD400-NW (3.5M)	3# Chamber No.3	Apr.28,15	1 Year
6.	RF Cable	MIYAZAKI	CFD400-LW (22M)	3# Chamber No.7	Apr.28,15	1 Year
7.	Coaxial Switch	Anritsu	MP59B	6201397222	Apr.28,15	1 Year
8.	Test Software	AUDIX	E3	6.2009-5-21a(n)	N/A	N/A

Frequency rang: above 1000MHz

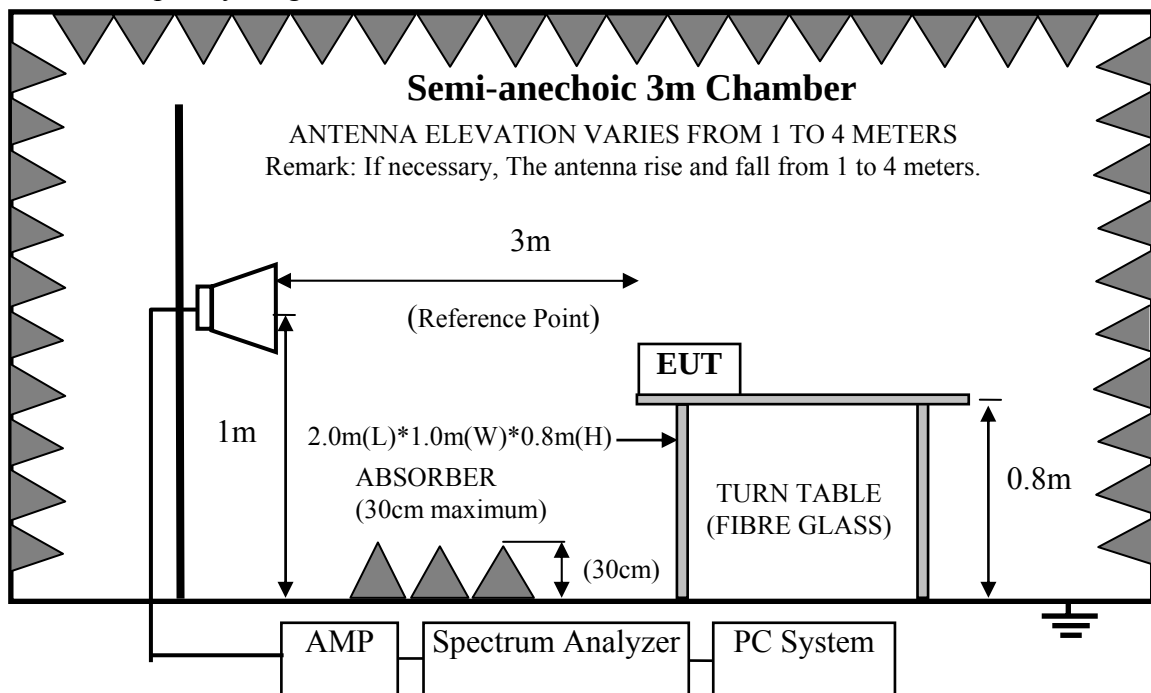
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4446A	US44300459	Apr.28,15	1 Year
3	Horn Antenna	ETS	3115	9510-4877	Sep.20,14	1 Year
4	Amplifier	Agilent	8449B	3008A02495	Apr.28,15	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	Apr.28,15	1 Year
6	Horn Antenna	ETS	3116	00060089	Sep.20,14	1 Year
7	Test Software	AUDIX	E3	6.2009-5-21a(n)	N/A	N/A

5.1. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



5.2. 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.

5.3. 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.

5.3.1. Remote Control (EUT)

Model Number : P2575
Serial Number : N/A

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT and simulator as shown as Section 4.2.
- 5.4.2. Turned on the power of all equipment.
- 5.4.3. Let EUT work in Tx mode.

5.5. Test Procedure

The EUT and its simulators are placed on a turn table, 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.

5.6.Radiated Emission Test Results

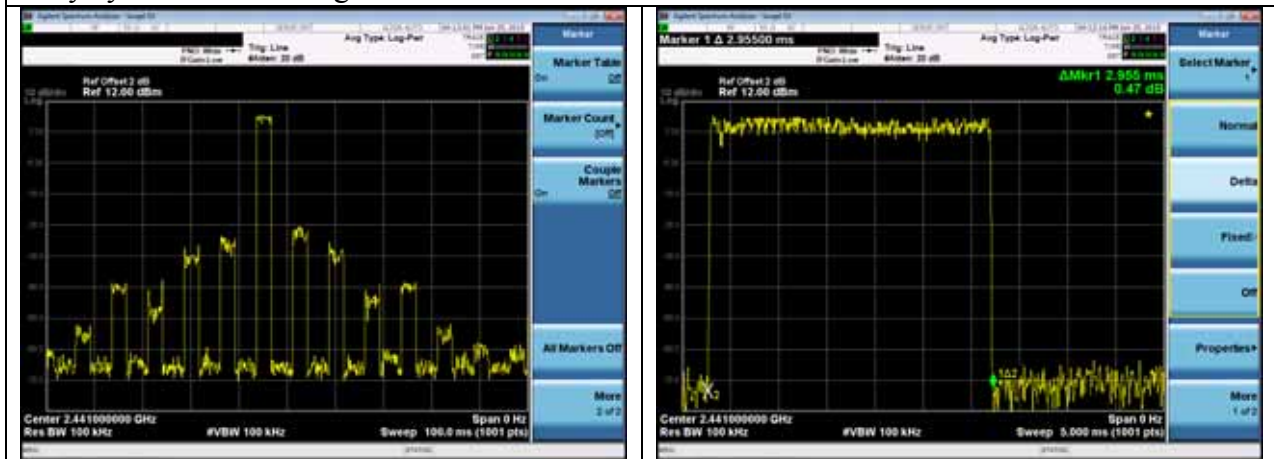
PASS.

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

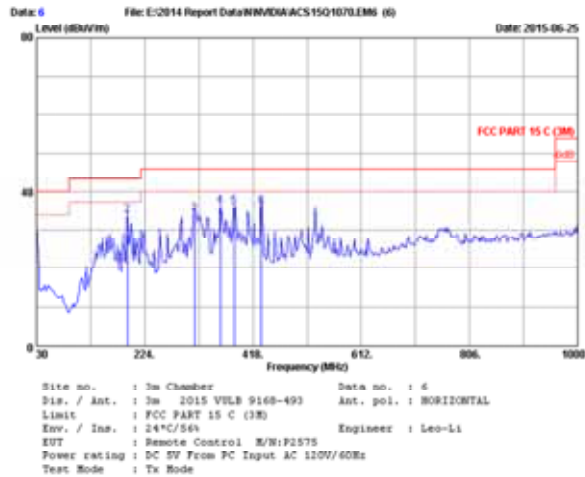
Note: The duty cycle factor for calculate average level is -30.589 dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

Mode	Emission Level * (dBuv/m)	Limit (dBuv/m)	Conclusion
GFSK	52.83(Peak)	74	Pass
	22.241(Average)	54	Pass
8-DPSK	52.83(Peak)	74	Pass
	22.241(Average)	54	Pass
*The worse case result for each mode.			

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

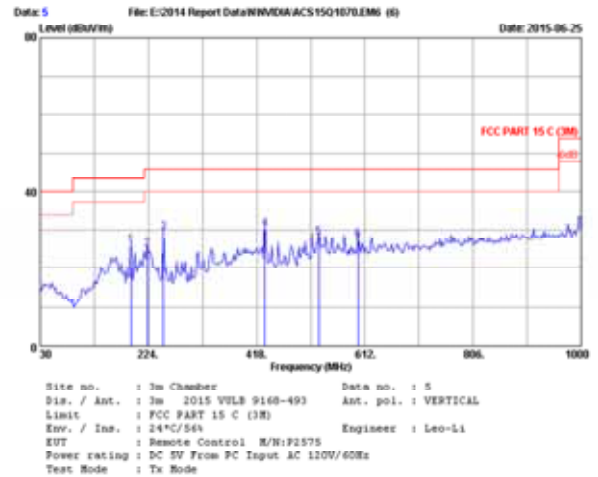


Frequency: 30MHz~1GHz



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	13.40	0.51	15.60	29.51	40.00	10.49	QP
2	192.96	11.55	1.49	21.12	34.16	43.50	9.34	QP
3	313.24	14.77	1.94	19.29	34.60	46.00	11.40	QP
4	359.60	15.37	2.07	19.00	36.44	46.00	9.56	QP
5	304.05	16.04	2.14	19.01	36.23	46.00	9.77	QP
6	432.55	16.89	2.31	17.05	36.25	46.00	9.75	QP

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

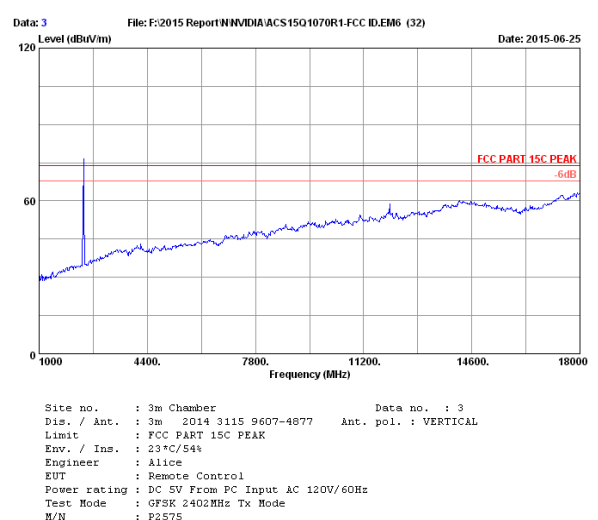
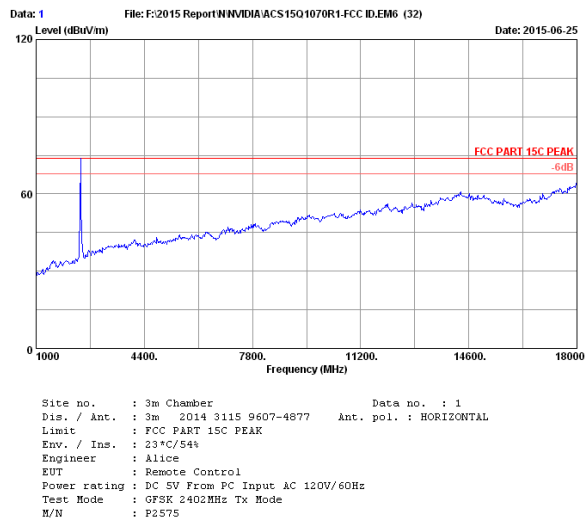


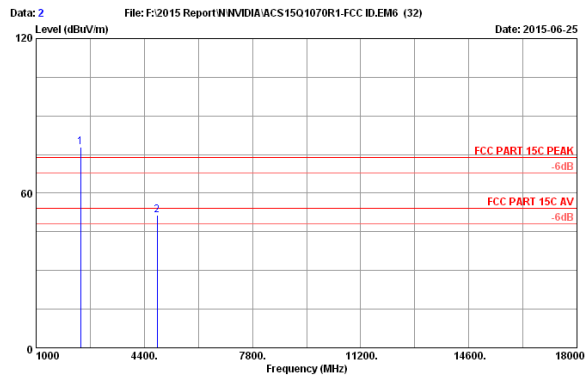
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	192.96	11.55	1.49	13.20	26.24	43.50	17.26	QP
2	222.06	10.97	1.60	12.53	25.10	46.00	20.90	QP
3	251.16	12.11	1.71	15.90	29.72	46.00	16.28	QP
4	432.55	16.89	2.31	11.25	30.45	46.00	15.55	QP
5	529.55	18.61	2.00	7.17	28.38	46.00	17.62	QP
6	600.36	20.00	2.77	4.96	27.73	46.00	18.27	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

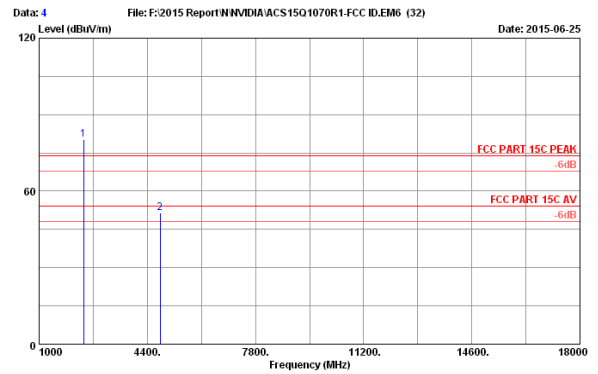




Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2402MHz Tx Mode
 M/N : P2575

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	2402.000	28.26	7.32	36.62	78.99	77.95	74.00	-3.95	Peak
2	4804.000	33.02	9.46	35.54	44.56	51.50	74.00	22.50	Peak

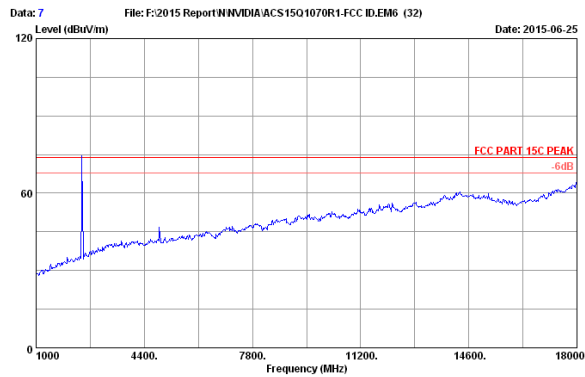
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



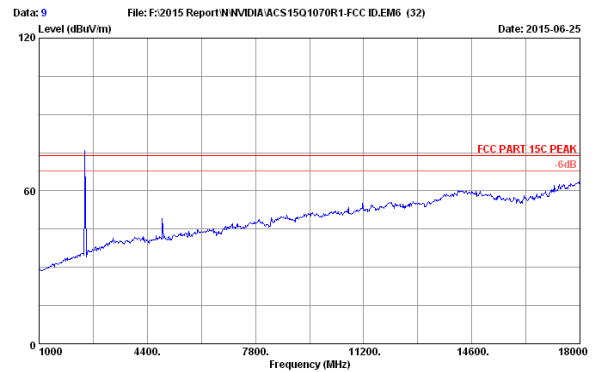
Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2402MHz Tx Mode
 M/N : P2575

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	2402.000	28.26	7.32	36.62	81.11	80.07	74.00	-6.07	Peak
2	4804.000	33.02	9.46	35.54	44.58	51.52	74.00	22.48	Peak

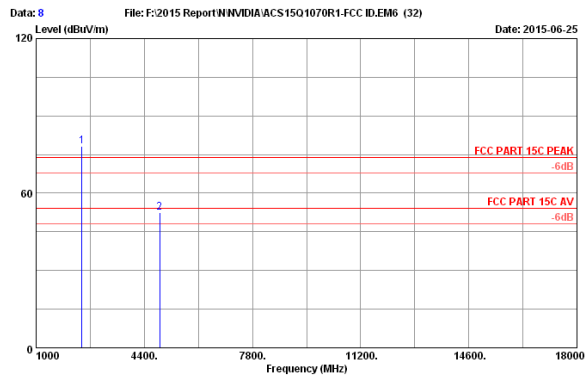
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2441MHz Tx Mode
 M/N : P2575



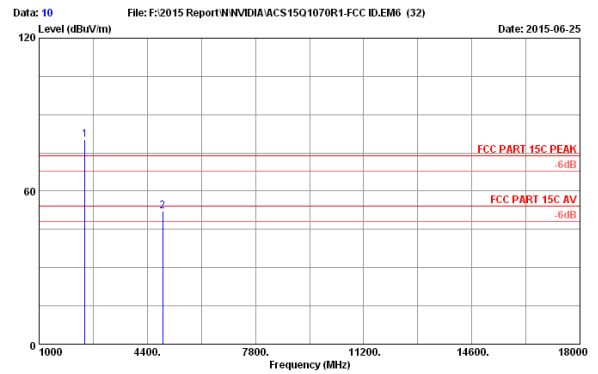
Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2441MHz Tx Mode
 M/N : P2575



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2441MHz Tx Mode
 M/N : P2575

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	28.31	7.39	36.60	78.98	78.08	74.00	-4.08	Peak
2	4882.000	33.17	9.49	35.51	45.24	52.39	74.00	21.61	Peak

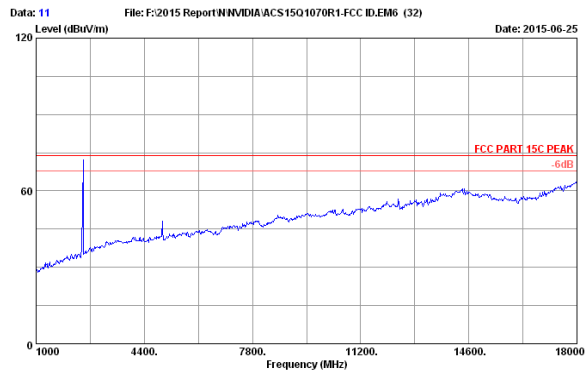
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



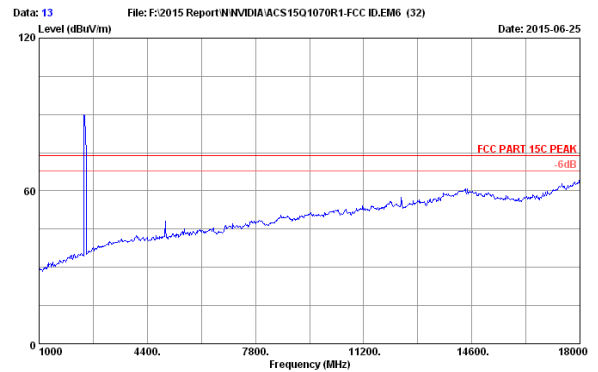
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2441MHz Tx Mode
 M/N : P2575

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	28.31	7.39	36.60	80.97	80.07	74.00	-6.07	Peak
2	4882.000	33.17	9.49	35.51	44.86	52.01	74.00	21.99	Peak

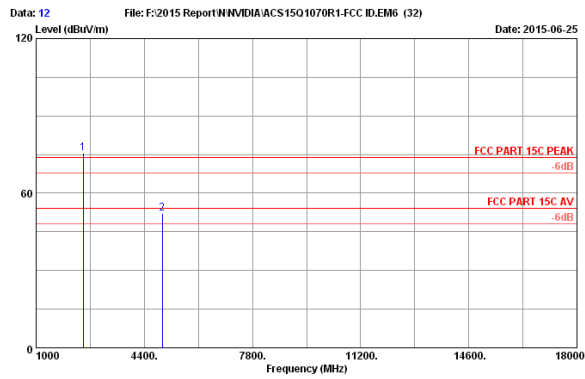
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2480MHz Tx Mode
 M/N : P2575



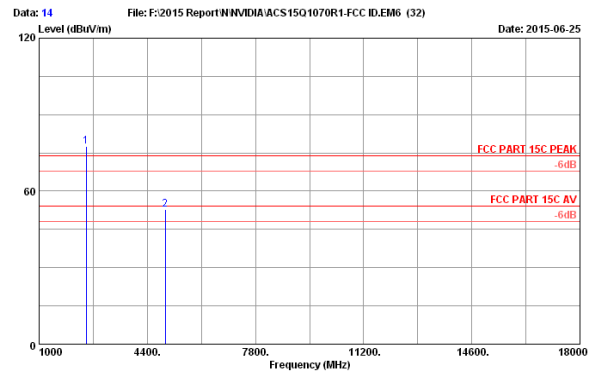
Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2480MHz Tx Mode
 M/N : P2575



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2480MHz Tx Mode
 M/N : P2575

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	2480.000	28.37	7.47	36.59	76.46	75.71	74.00	-1.71	Peak
2	4960.000	33.32	9.52	35.47	44.70	52.07	74.00	21.93	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.

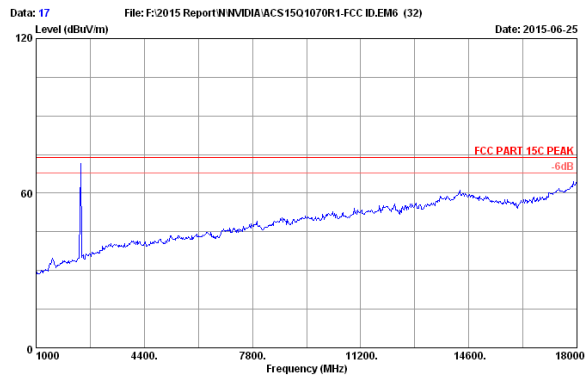


Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : GFSK 2480MHz Tx Mode
 M/N : P2575

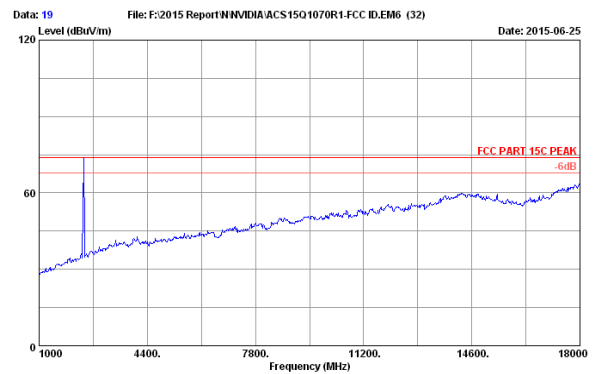
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.000	28.37	7.47	36.59	78.16	77.41	74.00	-3.41	Peak
2	4960.000	33.32	9.52	35.47	45.46	52.83	74.00	21.17	Peak

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.

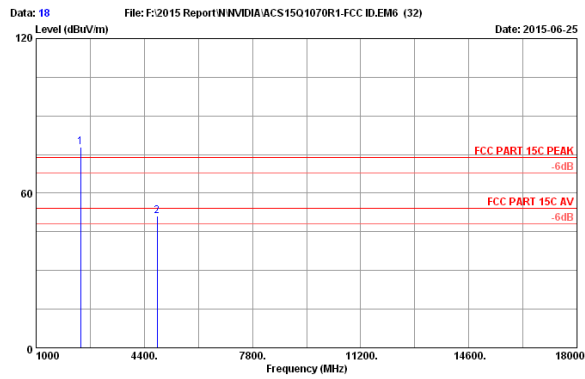
8-DPSK



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2402MHz Tx Mode
 M/N : P2575



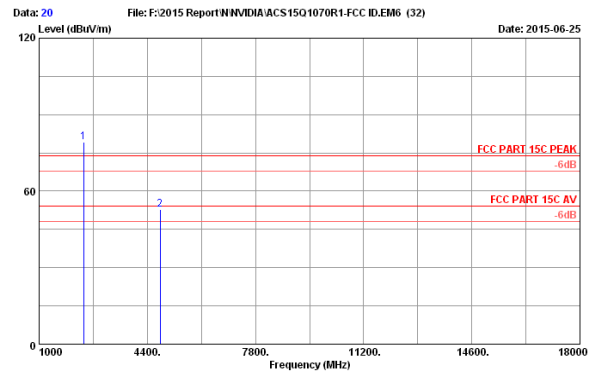
Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2402MHz Tx Mode
 M/N : P2575



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2402MHz Tx Mode
 M/N : P2575

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	2402.000	28.26	7.32	36.62	78.85	77.81	74.00	-3.81	Peak
2	4804.000	33.02	9.46	35.54	44.25	51.19	74.00	22.81	Peak

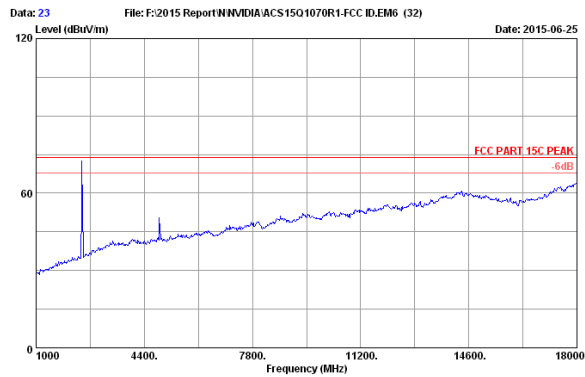
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



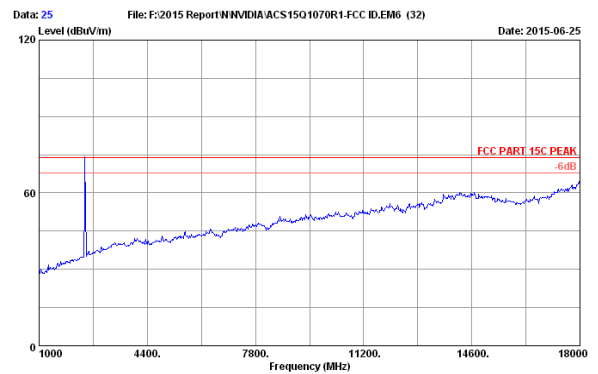
Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2402MHz Tx Mode
 M/N : P2575

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	2402.000	28.26	7.32	36.62	80.14	79.10	74.00	-5.10	Peak
2	4804.000	33.02	9.46	35.54	45.89	52.83	74.00	21.17	Peak

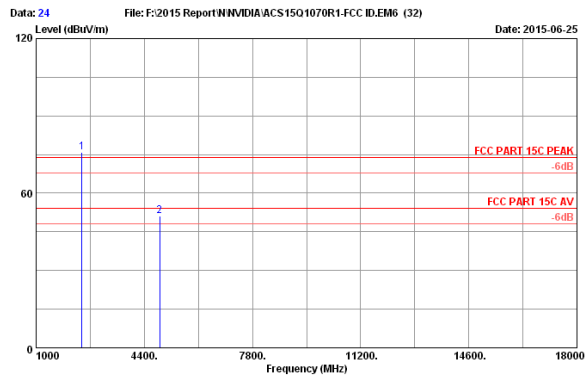
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



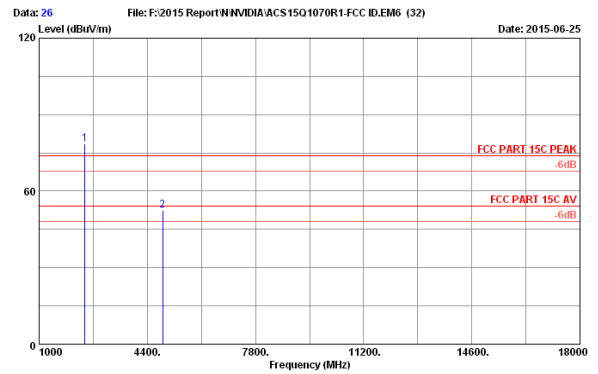
Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2441MHz Tx Mode
 M/N : P2575



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2441MHz Tx Mode
 M/N : P2575



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2441MHz Tx Mode
 M/N : P2575



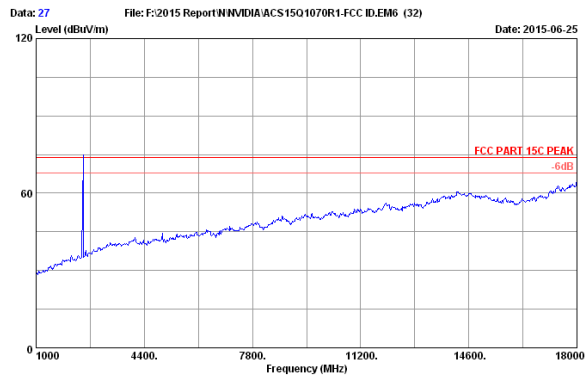
Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2441MHz Tx Mode
 M/N : P2575

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	28.31	7.39	36.60	76.85	75.95	74.00	-1.95	Peak
2	4882.000	33.17	9.49	35.51	43.86	51.01	74.00	22.99	Peak

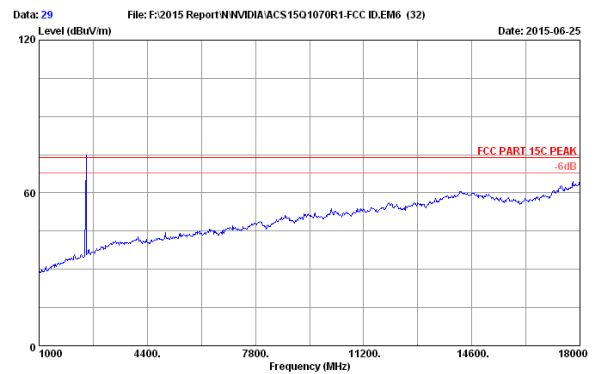
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.000	28.31	7.39	36.60	79.54	78.64	74.00	-4.64	Peak
2	4882.000	33.17	9.49	35.51	45.37	52.52	74.00	21.48	Peak

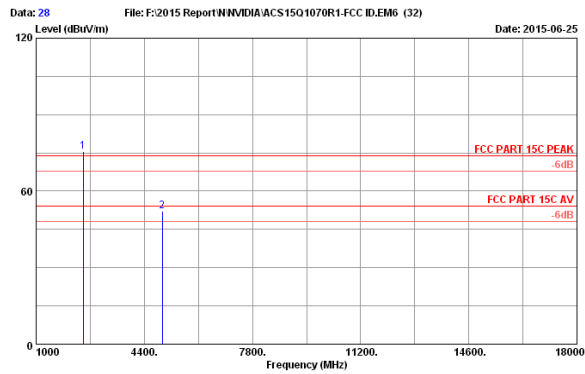
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2480MHz Tx Mode
 M/N : P2575



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2480MHz Tx Mode
 M/N : P2575



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2014 3115 9607-4877 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2480MHz Tx Mode
 M/N : P2575

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	2480.000	28.37	7.47	36.59	76.26	75.51	74.00	-1.51	Peak
2	4960.000	33.32	9.52	35.47	44.74	52.11	74.00	21.89	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 9607-4877 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54%
 Engineer : Alice
 EUT : Remote Control
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 8-DPSK 2480MHz Tx Mode
 M/N : P2575

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	2480.000	28.37	7.47	36.59	75.96	75.21	74.00	-1.21	Peak
2	4960.000	33.32	9.52	35.47	44.16	51.53	74.00	22.47	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.

6. MAXIMUM PEAK OUTPUT POWER TEST

6.1. 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

6.2. 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.

6.3. Test Procedure

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

6.4. Test Results

EUT: Remote Control			
M/N: P2575			
Test date: 2015-06-16		Pressure: 102.5±1.0 kpa	Humidity: 51.4±1.0%
Tested by: Alice_Yang		Test site: RF site	Temperature:21.2±1.0 °C
Test Mode	Frequency (MHz)	Max. Conducted Output Power (dBm)	Limit (dBm)
GFSK	2402	8.283	30
	2441	9.542	30
	2480	9.859	30
8-DPSK	2402	7.500	30
	2441	8.898	30
	2480	9.159	30
Conclusion: PASS			

7. BAND EDGE COMPLIANCE TEST

7.1. 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	9510-4877	Sep.20,14	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

7.2. 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.

7.3. 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

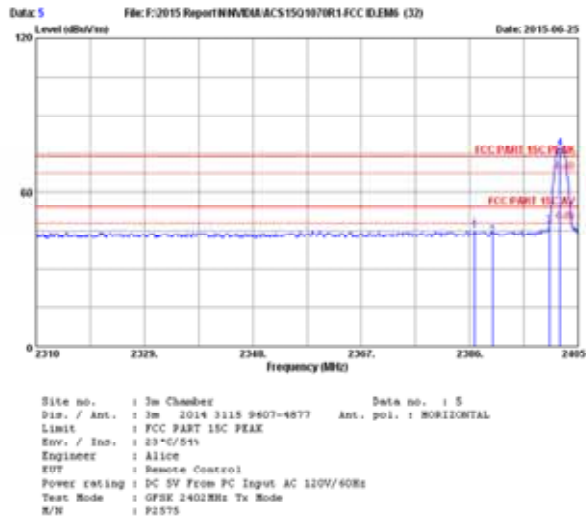
For emissions above two bandwidths away from the band-edge use below produce:

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

7.4. Test Results

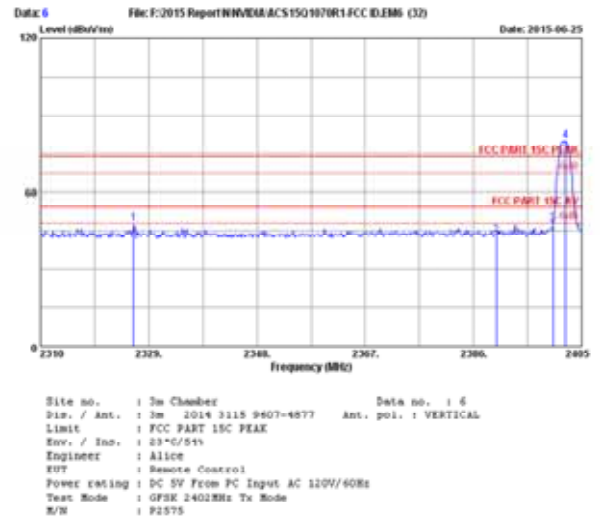
Pass (The testing data was attached in the next pages.)

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



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	2386.950	20.23	7.28	36.63	46.27	45.15	74.00	28.85	Peak
2	2390.000	20.24	7.28	36.62	44.22	43.12	74.00	30.88	Peak
3	2400.000	20.25	7.32	36.62	47.07	46.02	74.00	27.98	Peak
4	2401.865	20.26	7.32	36.62	78.16	77.12	74.00	-3.12	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.



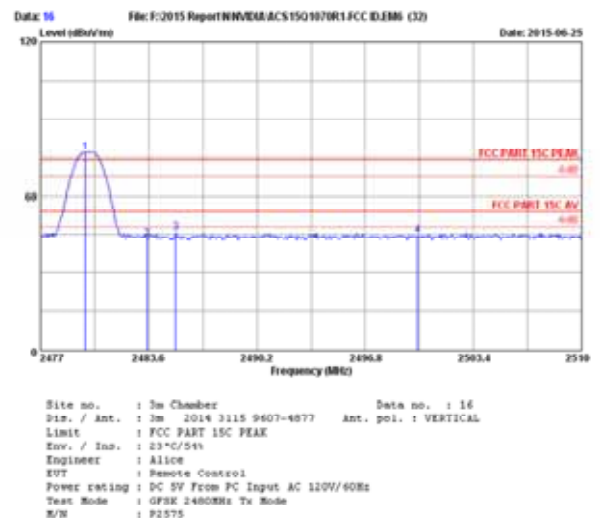
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2326.340	20.14	7.16	36.65	49.06	47.71	74.00	26.29	Peak
2	2390.000	20.24	7.28	36.62	44.22	43.42	74.00	30.58	Peak
3	2400.000	20.25	7.32	36.62	48.39	47.34	74.00	26.66	Peak
4	2402.150	20.26	7.32	36.62	81.11	80.07	74.00	-6.07	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.



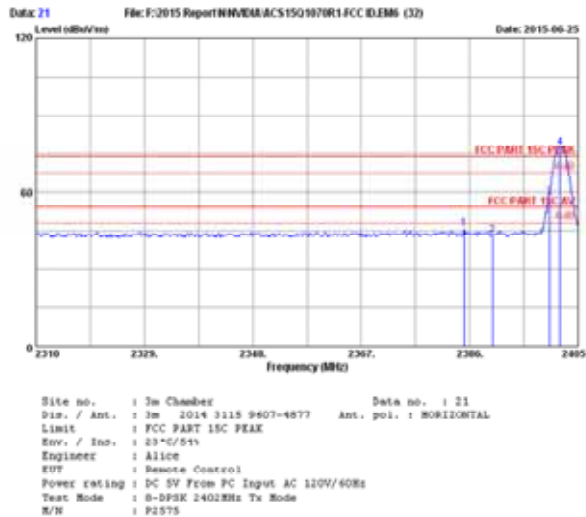
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.005	20.37	7.47	36.59	76.00	75.25	74.00	-1.25	Peak
2	2480.500	20.38	7.51	36.59	45.34	44.64	74.00	29.36	Peak
3	2485.250	20.38	7.51	36.59	46.91	46.21	74.00	27.79	Peak
4	2500.000	20.40	7.51	36.58	45.81	45.16	74.00	28.84	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.



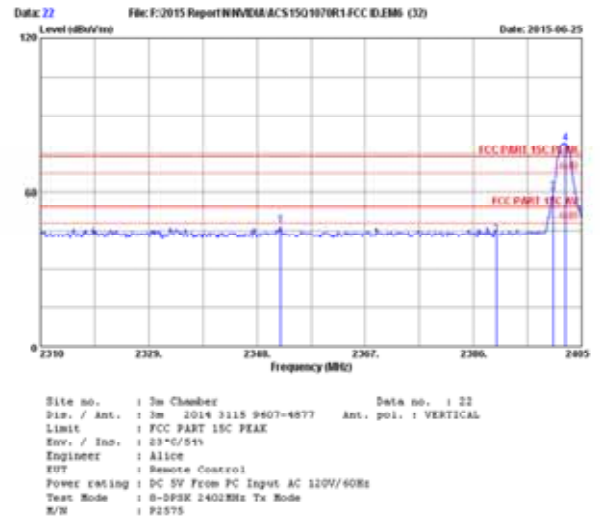
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.739	20.37	7.47	36.59	77.78	77.03	74.00	-3.03	Peak
2	2480.500	20.38	7.51	36.59	44.14	43.46	74.00	30.54	Peak
3	2485.250	20.38	7.51	36.59	46.50	45.80	74.00	28.20	Peak
4	2500.000	20.40	7.51	36.58	45.31	44.64	74.00	29.36	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.



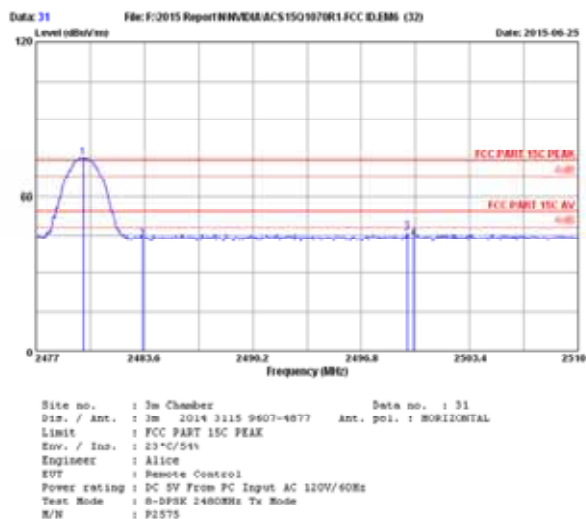
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.050	28.23	7.28	36.63	46.01	45.69	74.00	28.31	Peak
2	2390.000	28.24	7.28	36.62	44.44	43.24	74.00	30.46	Peak
3	2400.000	28.25	7.32	36.62	58.90	57.05	74.00	16.15	Peak
4	2401.865	28.26	7.32	36.62	78.54	77.50	74.00	-3.50	Peak

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



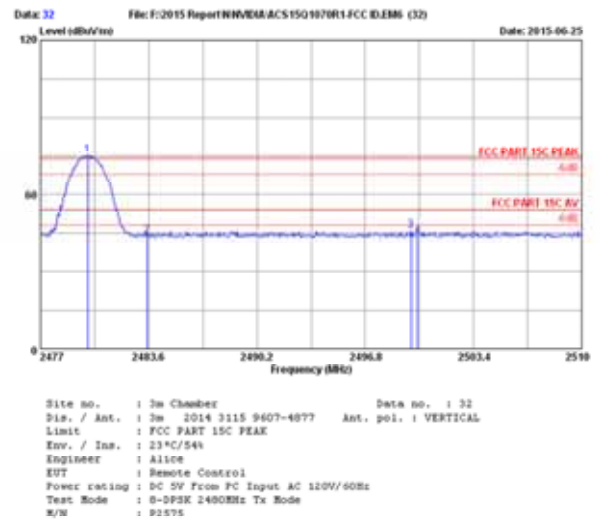
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2352.195	28.18	7.20	36.64	47.96	46.70	74.00	27.30	Peak
2	2390.000	28.24	7.28	36.62	44.45	43.25	74.00	30.45	Peak
3	2400.000	28.25	7.32	36.62	60.95	59.90	74.00	14.10	Peak
4	2402.150	28.26	7.32	36.62	80.22	79.18	74.00	-5.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant 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)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.871	28.37	7.47	36.59	75.03	75.08	74.00	-1.08	Peak
2	2483.500	28.38	7.51	36.59	44.13	43.42	74.00	30.57	Peak
3	2499.605	28.40	7.51	36.58	46.74	46.07	74.00	27.93	Peak
4	2500.000	28.40	7.51	36.58	44.40	43.93	74.00	30.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Ant 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)	AMP Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2479.871	28.37	7.47	36.59	75.03	75.08	74.00	-1.08	Peak
2	2483.500	28.38	7.51	36.59	44.72	44.02	74.00	29.98	Peak
3	2499.605	28.40	7.51	36.58	46.74	46.07	74.00	27.93	Peak
4	2500.000	28.40	7.51	36.58	44.40	43.93	74.00	30.07	Peak

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

8. TENNA REQUIREMENT

8.1. 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.

8.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are Dipole 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 -0.14dBi.

9. DEVIATION TO TEST SPECIFICATIONS

[NONE]