

APPLICATION FOR CERTIFICATION

On Behalf of

Texas Instruments Incorporated

TI-Nspire CX Wireless Network Adapter v2

Model No. : TINAVWNA2

Brand : TEXAS INSTRUMENTS

FCC ID : V7R-TINAVWNA2

Prepared for

**Texas Instruments Incorporated**

12500 TI Boulevard Dallas, TX 75243-4136 USA

Prepared by

**Audix Technology (Wujiang) Co., Ltd. EMC Dept.**

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Report Number : ACWE-F1305005A

Date of Test : Apr.10~15, 2016

Date of Report : Apr.28, 2016

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**TEST REPORT CERTIFICATION**

Applicant : Texas Instruments Incorporated  
 Manufacturer : Inventec Appliances(Pudong) Corporation  
 EUT Description : TI-Nspire CX Wireless Network Adapter v2  
 FCC ID : V7R-TINAVWNA2  
 (A) Model No. : TINAVWNA2  
 (B) Brand : TEXAS INSTRUMENTS  
 (C) Power Supply : DC 3.7V (Supplied by NSC)  
 (D) Test Voltage : DC 3.7V

Applicable Standards:

**FCC RULES AND REGULATIONS PART 15 SUBPART E(Section 15.407)**  
**ANSI C63.10-2013**  
**KDB 789033 D02 General UNII Test Procedures v01r02**

The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C section 15.207, 15.205, 15.209&15.407 limits.

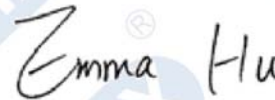
The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: Apr.10~15, 2016

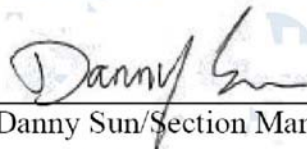
Date of Report: Apr.28, 2016

Prepared by :



(Emma Hu/Assistant Administrator)

Reviewer :



(Danny Sun/Section Manager)

Approved & Authorized Signer :



(Ken Lu/ Assistant General Manager)

## 1. Description of Version

Edition No.	Date of Rev.	Summary	Report No.
0	May 13, 2013	Original Report.	ACWE-F1305005
Rev. A	Apr.28, 2016	1.Update the standard from ANSI C63.10-2009 to ANSI C63.10-2013 2. Update the standard from FCC RULES AND REGULATIONS PART 15 SUBPART E, Oct. 2012 to FCC RULES AND REGULATIONS PART 15 SUBPART E(Section 15.407)	ACWE-F1305005A

## 2. SUMMARY OF MEASUREMENTS AND RESULTS

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

Description of Test Item	Standard	Results
RADIATED EMISSION	FCC 47 CFR Part 15 Subpart C/ Section 15.209& Section 15.205 ANSI C63.10	PASS
26 dB BANDWIDTH	FCC 47 CFR Part 15 Subpart E/ Section 15.403(i) ANSI C63.10 KDB 789033 D02 General UNII Test Procedures v01r02	PASS
6 dB BANDWIDTH	FCC 47 CFR Part 15 Subpart E/ Section 15.407(e) ANSI C63.10 KDB 789033 D02 General UNII Test Procedures v01r02	PASS
OUTPUT POWER	FCC 47 CFR Part 15 Subpart E/ Section 15. 407 (a)(1)(2)(3) ANSI C63.10 KDB 789033 D02 General UNII Test Procedures v01r02	PASS
POWER SPECTRAL DENSITY	FCC 47 CFR Part 15 Subpart E/ Section 15. 407 (a)(1)(2)(3) ANSI C63.10 KDB 789033 D02 General UNII Test Procedures v01r02	PASS
OCCUPIED BANDWIDTH 99% POWER	KDB 789033 D02 General UNII Test Procedures v01r02	PASS

### 3. GENERAL INFORMATION

#### 3.1. Description of Device (EUT)

Description	:	TI-Nspire CX Wireless Network Adapter v2
Model No.	:	TINAVWNA2
FCC ID	:	V7R-TINAVWNA2
Brand	:	TEXAS INSTRUMENTS
Applicant	:	Texas Instruments Incorporated 12500 TI Boulevard Dallas, TX 75243-4136 USA
Manufacturer	:	Inventec Appliances(Pudong) Corporation No. 789 Pu Xing Road, Shanghai, PRC
Radio Technology	:	DSSS &OFDM
Antenna Gain	:	1.5dBi
Type of Network	:	IEEE 802.11a/n HT20
Fundamental Range	:	5150 MHz -5825 MHz
Tested Frequency	:	5180MHz (Channel 36) 5220MHz (Channel 44) 5240MHz (Channel 48) 5745MHz (Channel 149) 5785MHz (Channel 157) 5825MHz (Channel 165)
Date of Receipt of Sample	:	Mar.24, 2016
Date of Test	:	Apr.10~15, 2016

#### 3.2. UUT's Configuration

Test UUT	:	UUT×1
I/O Ports	:	I/O port×1

### 3.3. Operating Condition of EUT

3.3.1. Set up the EUT as test setup diagram.

3.3.2. For all test measurement items, keep the EUT be powered by NSC, Drive the test software “TI-Nspire Computer Link Software v1.1.9182 ”, let the EUT operate wireless TX activity under measurement.

### 3.4. Tested Supporting System Details

#### 3.4.1. TI-nspire CX CAS (NSC)

Manufacturer : TI  
 Brand : TEXAS INSTRUMENTS

#### 3.4.2. TI-nspire CX Navigator Access point

Manufacturer : TI  
 Brand : TEXAS INSTRUMENTS  
 Model No. : TINAVAP3-2

#### 3.4.3. Laptop Computer

Manufacturer : DELL  
 Model Number : PP26L  
 Serial Number : JX193A01  
 FCC ID : FCC By DoC  
 Power Cord : Unshielded, Detachable, 1.5 m  
 AC Adapter : M/N: LA65NS1-00  
 Brand: DELL  
 Input: AC 100-240V, 50-60Hz, 1.5A  
 Output: DC 19.5V,3.34A  
 DC Cord: Unshielded, Undetachable,  
 2.0m, 1 ferrite core.



3.5. Description of Test Facility

Name of Firm : **Audix Technology (Wujiang) Co., Ltd. EMC Dept.**

Site Location : No. 1289 Jiangxing East Road, the Eastern Part of Wujiang Economic Development Zone  
Jiangsu China 215200

Test Facilities : **No.1 Conducted Shielding Enclosure**  
  
**No.1 3m Semi-anechoic Chamber**  
Date of Validity: Mar.30, 2018  
FCC Registration No.: 897661  
IC Registration No.:5183D-2

**RF Fully Chamber**

NVLAP Lab Code : 200786-0  
Valid until on Sep. 30, 2016  
(NVLAP is a signatory member of ILAC MRA)  
Remark: This report shall not be imply endorsement, certification or approval by NVLAP, NIST, or any agency of the U.S. Federal Government.

3.6. Measurement Uncertainty

Test Item	Range Frequency	Uncertainty
No.1 Conducted Disturbance Measurement	0.15MHz ~ 30MHz	± 2.65dB
Radiated Disturbance Measurement (At 3m Chamber)	30MHz ~ 300MHz	± 3.18dB
	300MHz ~ 1GHz	± 3.12dB
Radiated Disturbance Measurement (At 3m Chamber)	1GHz ~ 6GHz	± 4.56dB
	6GHz ~ 18GHz	± 5.03dB

Remark: Uncertainty =  $ku_c(y)$

Test Item	Uncertainty
6 dB Bandwidth	± 0.16 MHz
Maximum Peak Output Power	± 0.12dB
Band Edges	± 0.38dB
Power Spectral Density	± 0.38dB
Emission Limitations	± 0.38dB

Remark: Uncertainty =  $ku_c(y)$

## 4. RADIATED EMISSION MEASUREMENT

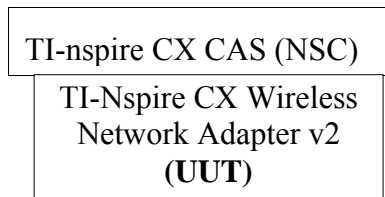
### 4.1. Test Equipment

The following test equipment was used during the radiated emission measurement:  
At 3m Semi-Anechoic Chamber

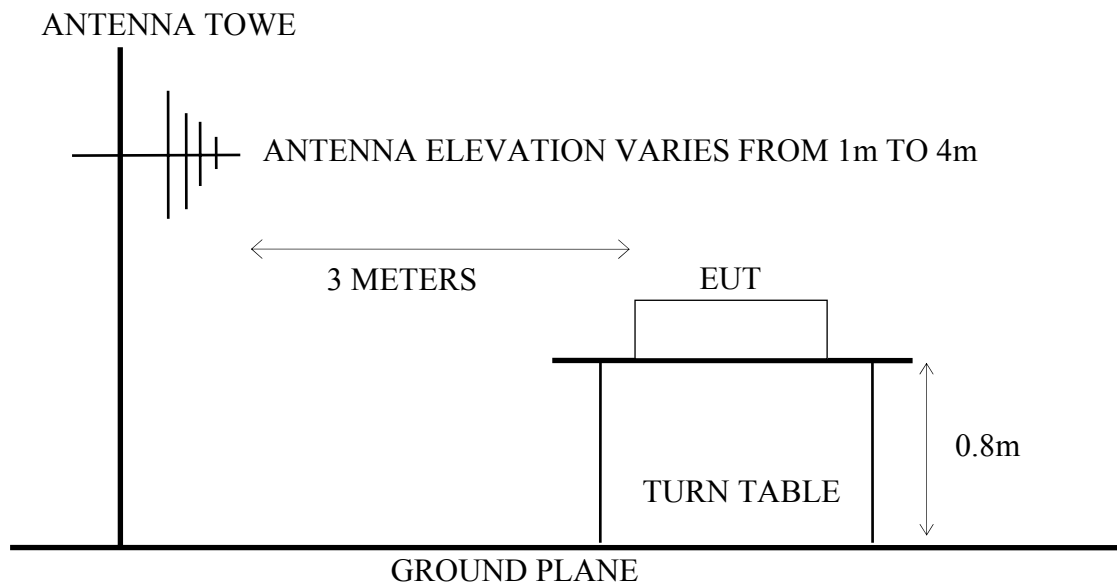
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Preamplifier	Agilent	8449B	3008A02233	2016-01-05	2017-01-04
2.	Preamplifier	Agilent	8447D	2944A10921	2015-07-03	2016-07-02
3.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22
4.	Test Receiver	R&S	ESCI	100361	2016-01-05	2017-01-04
5.	Bi-log Antenna	Schaffner	CBL6112D	22250	2015-09-02	2016-09-01
6.	Horn Antenna	EMCO	3115	62960	2015-06-30	2016-05-29
7.	RF Cable #1	Yuhang CSYH	cable-3m	001(0.5m)	2016-01-05	2017-01-04
8.	RF Cable #2	Yuhang CSYH	cable-3m	002(0.5m)	2016-01-05	2017-01-04
9.	RF Cable #3	Yuhang CSYH	cable-3m	003(3.0m)	2016-01-05	2017-01-04
10.	Software	Audix/e3(6.7.0313)				

### 4.2. Block Diagram of Test Setup

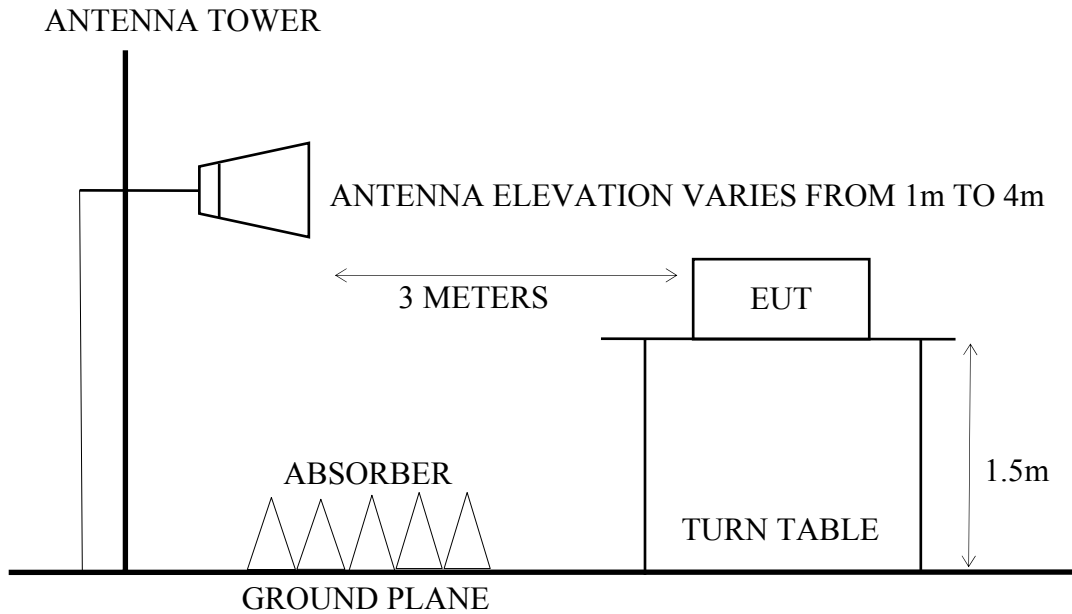
#### 4.2.1. Block Diagram of Test Setup between EUT and simulators



#### 4.2.2. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance:10m) for 30-1000MHz



4.2.3. No. 1 3m Semi-Anechoic Chamber Setup Diagram (Test distance: 3m) for above 1GHz



4.3. Radiated Emission Limits

4.3.1. Radiated Emission Limits (FCC Part15 C, section 15.209,CISPR22)

Frequency MHz	Distance Meters	Field Strengths Limits
		dB $\mu$ V/m
30 ~ 88	3	40.0
88~216	3	43.5
216~960	3	46
960~1000	3	54
Above 1G	3	74.0 dB $\mu$ V/m (Peak) 54.0 dB $\mu$ V/m (Average)

Remark : (1) Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)  
 (2)The tighter limit applies at the edge between two frequency bands.

4.4. Test Procedure

The measuring process is according to ANSI C63.10 and laboratory internal procedure TKC-301-024. (For FCC Part15 Subpart C)

In the radiated disturbance measurement, the EUT and all simulators were set up on a non-metallic turn table which was 0.8 meters (1.5 meters for Above 1GHz) above the ground plane. Measurement distance between EUT and receiving antennas was set at 10 meters at 30MHz~1000MHz and 3 meters at above 1GHz. The specified distance is the distance between the antennas and the closest periphery of EUT. During the radiated measurement, the EUT was rotated 360° and receiving antennas were moved from 1 ~ 4 meters for finding maximum emission. Two receiving antennas were used for both horizontal and vertical polarization detection for 30MHz~1GHz, One receiving antennas was used for both horizontal and vertical polarization detection for above 1GHz (the absorbing material was added when testing of above 1GHz was done). All cables or wires placement were verified to find out the maximum emission.

The bandwidth of measuring receiver (or spectrum analyzer) was set to:  
 RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz  
 RBW (1 MHz), VBW (1MHz) for Peak detector above 1GHz  
 RBW (1 MHz), VBW (10 Hz) for Averse detector above 1GHz

We had checked frequency range that is 30MHz to 10<sup>th</sup> Harmonic(40GHz) and no any emission were found 18GHz to 40GHz, so the radiated emission from 18GHz to 40GHz were not record.

The emission level is calculated automatically by the test system which uses the following equation :

1. For 30-1000MHz measurement:  
Emission Level (dBμV/m) = Reading (dBμV)+Antenna Factor (dB/m)+Cable Loss (dB)
2. For Above 1GHz measurement:  
Emission Level (dBμV/m) = Reading (dBμV)+Antenna Factor (dB/m)+Cable Loss(dB)  
-Pre-amplifier factor (dBμV)

4.5. Measurement Results

**PASSED**

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

4.5.1. For Restricted Bands:

For Frequency range: below 1GHz

No.	Test Mode and Frequency			Reference Test Data No.	
				Horizontal	Vertical
1	Transmitting	802.11a	5180MHz (Channel 36)	# 143	# 144
2			5220MHz (Channel 44)	# 145	# 146
3			5240MHz (Channel 48)	# 147	# 148
4			5745MHz (Channel 149)	# 149	# 150
5			5785MHz (Channel 157)	# 151	# 152
6			5825MHz (Channel 165)	# 153	# 154
7		802.11n HT20	5180MHz (Channel 36)	# 155	# 156
8			5220MHz (Channel 44)	# 157	# 158
9			5240MHz (Channel 48)	# 159	# 160
10			5745MHz (Channel 149)	# 161	# 162
11			5785MHz (Channel 157)	# 163	# 164
12			5825MHz (Channel 165)	# 165	# 166

For Frequency range: Above 1GHz

No.	Test Mode and Frequency			Reference Test Data No.	
				Horizontal	Vertical
1	Transmitting	802.11a	5180MHz (Channel 36)	#77 , #78	#79 , #80
2			5220MHz (Channel 44)	#81 , #82	#83 , #84
3			5240MHz (Channel 48)	#85 , #86	#87 , #88
4			5745MHz (Channel 149)	#101 , #102	#103 , #104
5			5785MHz (Channel 157)	#105 , #106	#107 , #108

6			5825MHz (Channel 165)	#109 , #110	#111 , #112
7		802.11n HT20	5180MHz (Channel 36)	#89 , #90	#91 , #92
8			5220MHz (Channel 44)	#93 , #94	#95 , #96
9			5240MHz (Channel 48)	#97 , #98	#99 , #100
10			5745MHz (Channel 149)	#113 , #114	# 115 , #116
11			5785MHz (Channel 157)	#117 , #118	#119 , #120
12			5825MHz (Channel 165)	#121 , #122	#123 , #124

#### 4.5.2. For Band Edge Emission

The EUT was tested in restricted bands and all the test results are listed in section 4.7. The restricted bands defined in part 15.205(a)

No.	Test Mode and Frequency			Reference Test Data No.	
				Horizontal	Vertical
1.	Transmitting	802.11a	5180MHz (Channel 36)	# 25, # 27	# 26, # 28
2.			5240MHz (Channel 48)	# 29, # 31	#30, #32
3.		802.11n	5180MHz (Channel 36)	# 33, #35	# 34, # 36
4.			HT20	5240MHz (Channel 48)	# 37, # 39

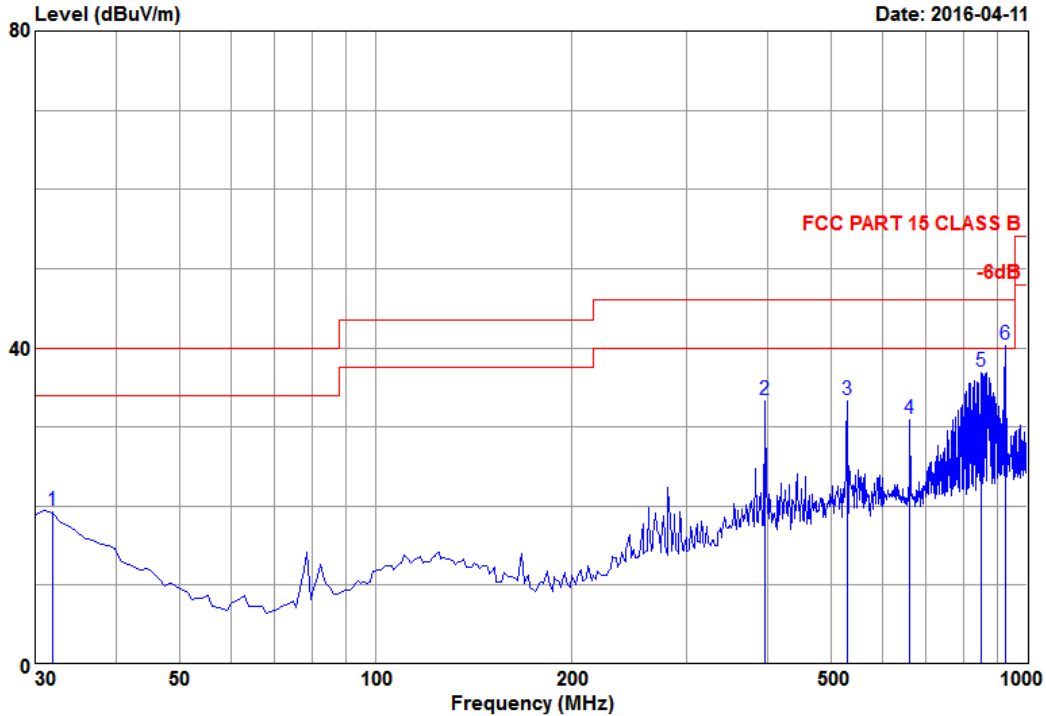
4.6. Restricted Bands Measurement Results (For Below 1GHz)

4.6.1. Type of Network : IEEE 802.11a



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Data: 143 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166) Date: 2016-04-11



Site NO. : 3m Chamber Data NO. :143  
 Dis. / Ant. : 3m 6112D(22253)-150805 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI Engineer : Mickey  
 EUT : TI-inspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH36 5180MHz  
 Memo :

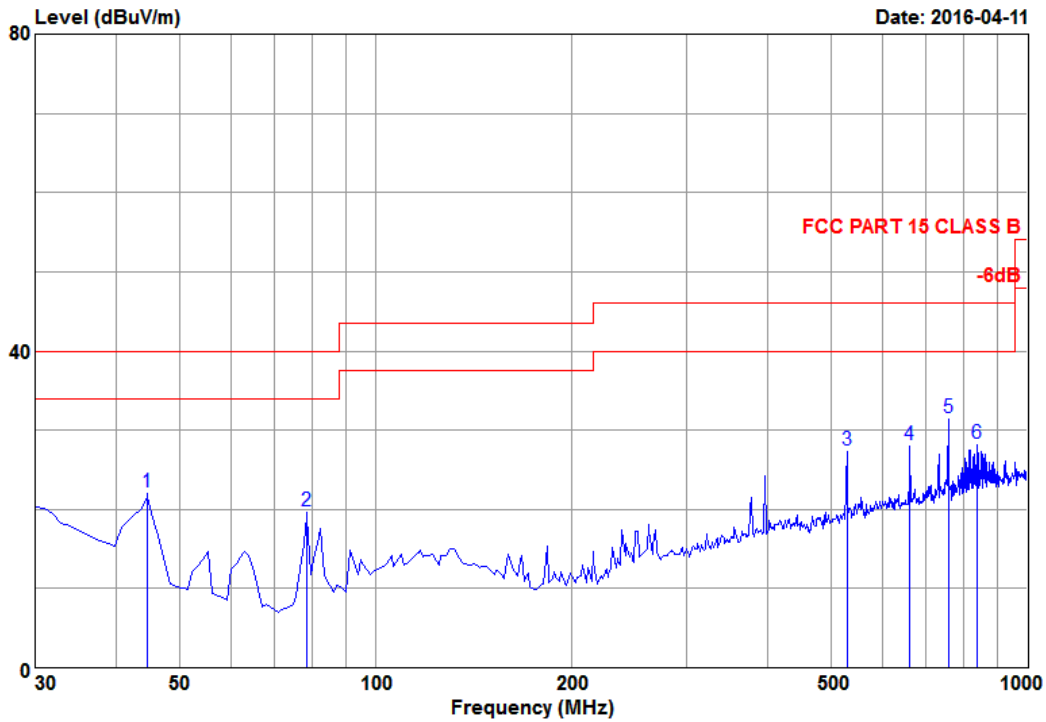
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	18.46	0.48	27.91	19.50	40.00	20.50	QP
2	396.66	16.52	1.86	42.35	33.45	46.00	12.55	QP
3	528.58	18.47	2.20	40.61	33.45	46.00	12.55	QP
4	660.50	19.70	2.50	36.62	30.98	46.00	15.02	QP
5	850.62	21.30	2.92	40.25	36.97	46.00	9.03	QP
6	924.34	22.02	3.10	42.36	40.38	46.00	5.62	QP

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



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Data: 144 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH36 5180MHz  
 Memo :  
 Data NO. :144  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

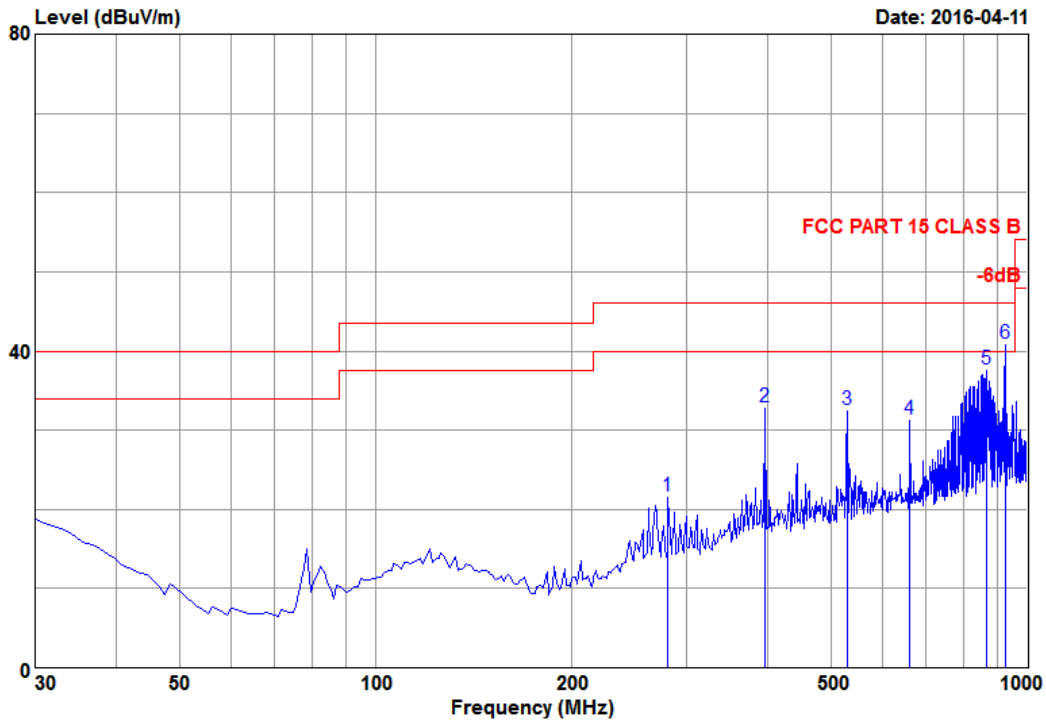
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	44.55	11.80	0.57	37.16	22.22	40.00	17.78	QP
2	78.50	7.79	0.76	38.52	19.83	40.00	20.17	QP
3	528.58	18.47	2.20	34.61	27.45	46.00	18.55	QP
4	660.50	19.70	2.50	33.84	28.20	46.00	17.80	QP
5	757.50	20.42	2.72	36.25	31.59	46.00	14.41	QP
6	836.07	21.16	2.89	31.86	28.33	46.00	17.67	QP

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



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Data: 145 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber	Data NO. :145
Dis. / Ant. : 3m 6112D(22253)-150805	Ant. pol. : HORIZONTAL
Limit : FCC PART 15 CLASS B	Engineer : Mickey
Env. / Ins. : 20.7*43%/ESCI	
EUT : TI-nspire CX Wireless Network Adapter v2	
M/N : TINAVWNA2	
Power Rating : DC 3.7V	
Test Mode : TX 802.11a CH44 5220MHz	
Memo :	

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	281.23	13.62	1.53	33.20	21.71	46.00	24.29	QP
2	396.66	16.52	1.86	41.90	33.00	46.00	13.00	QP
3	528.58	18.47	2.20	39.67	32.51	46.00	13.49	QP
4	660.50	19.70	2.50	37.01	31.37	46.00	14.63	QP
5	867.11	21.47	2.95	40.72	37.74	46.00	8.26	QP
6	924.34	22.02	3.10	42.85	40.87	46.00	5.13	QP

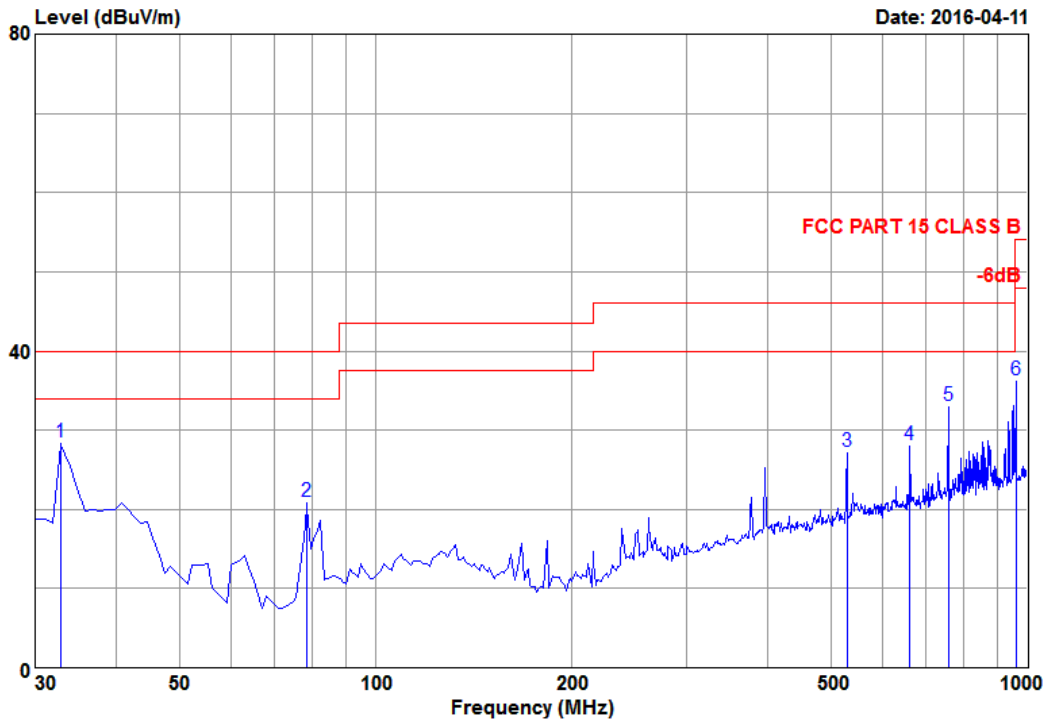
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 146 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber Data NO. :146  
 Dis. / Ant. : 3m 6112D(22253)-150805 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH44 5220MHz  
 Memo :

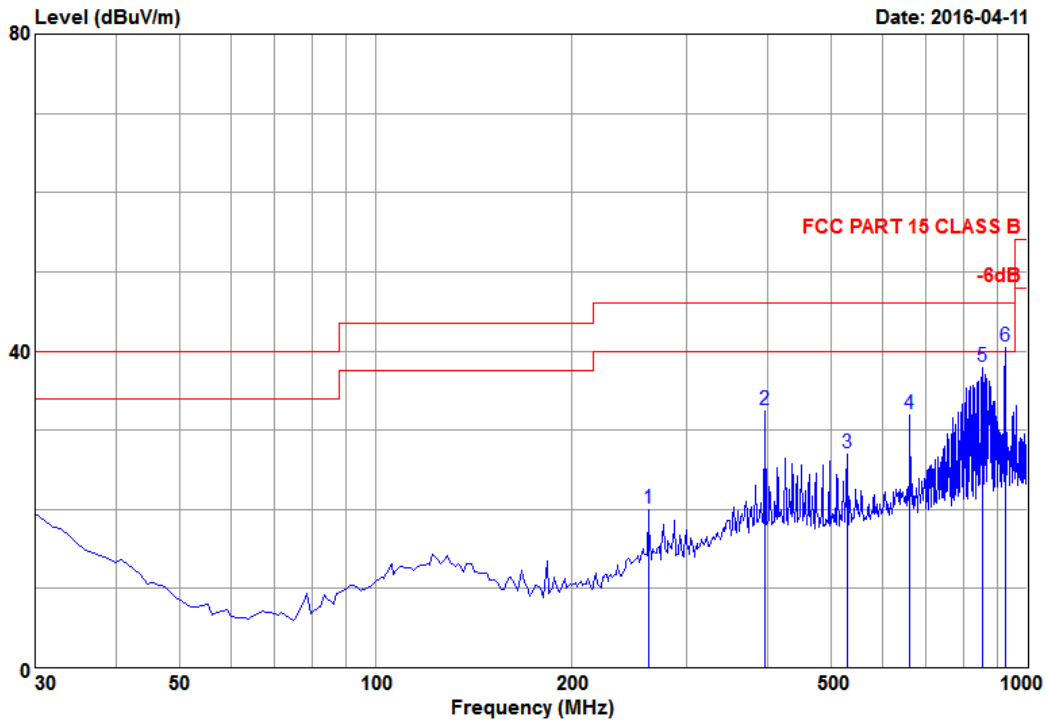
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	32.91	17.94	0.49	37.38	28.47	40.00	11.53	QP
2	78.50	7.79	0.76	39.75	21.06	40.00	18.94	QP
3	528.58	18.47	2.20	34.39	27.23	46.00	18.77	QP
4	660.50	19.70	2.50	33.78	28.14	46.00	17.86	QP
5	757.50	20.42	2.72	37.79	33.13	46.00	12.87	QP
6	960.23	22.34	3.22	37.76	36.36	54.00	17.64	QP

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



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Data: 147 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber Data NO. :147  
 Dis. / Ant. : 3m 6112D(22253)-150805 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH48 5240MHz  
 Memo :

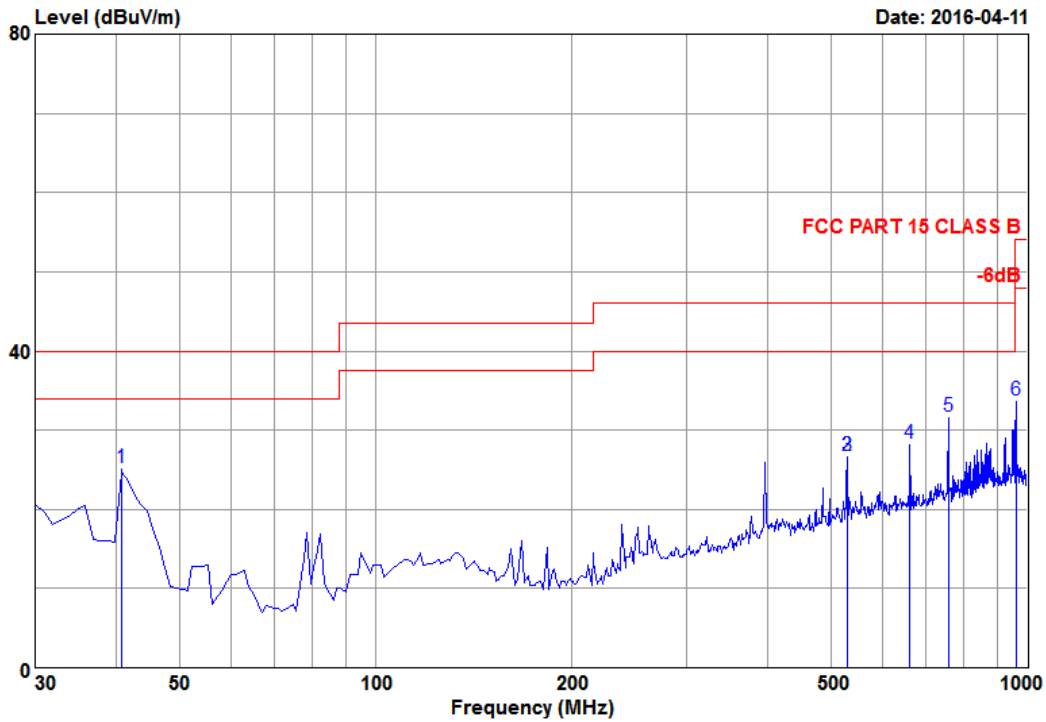
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	261.83	13.96	1.47	31.40	20.15	46.00	25.85	QP
2	396.66	16.52	1.86	41.46	32.56	46.00	13.44	QP
3	528.58	18.47	2.20	34.21	27.05	46.00	18.95	QP
4	660.50	19.70	2.50	37.69	32.05	46.00	13.95	QP
5	855.47	21.35	2.93	41.19	38.00	46.00	8.00	QP
6	924.34	22.02	3.10	42.56	40.58	46.00	5.42	QP

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



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Data: 148 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH48 5240MHz  
 Memo :  
 Data NO. :148  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

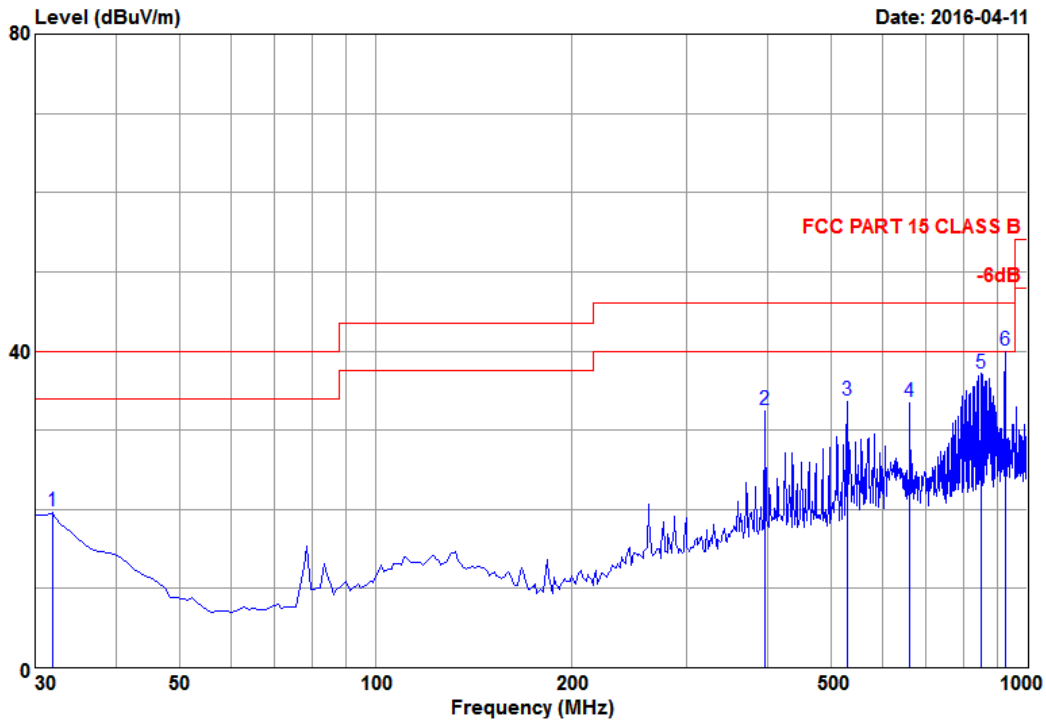
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	40.67	13.80	0.54	38.28	25.30	40.00	14.70	QP
2	528.58	18.47	2.20	34.02	26.86	46.00	19.14	QP
3	528.58	18.47	2.20	34.02	26.86	46.00	19.14	QP
4	660.50	19.70	2.50	33.96	28.32	46.00	17.68	QP
5	757.50	20.42	2.72	36.46	31.80	46.00	14.20	QP
6	960.23	22.34	3.22	35.24	33.84	54.00	20.16	QP

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



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Data: 149 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH149 5745MHz  
 Memo :  
 Data NO. :149  
 Ant. pol. : HORIZONTAL  
 Engineer : Mickey

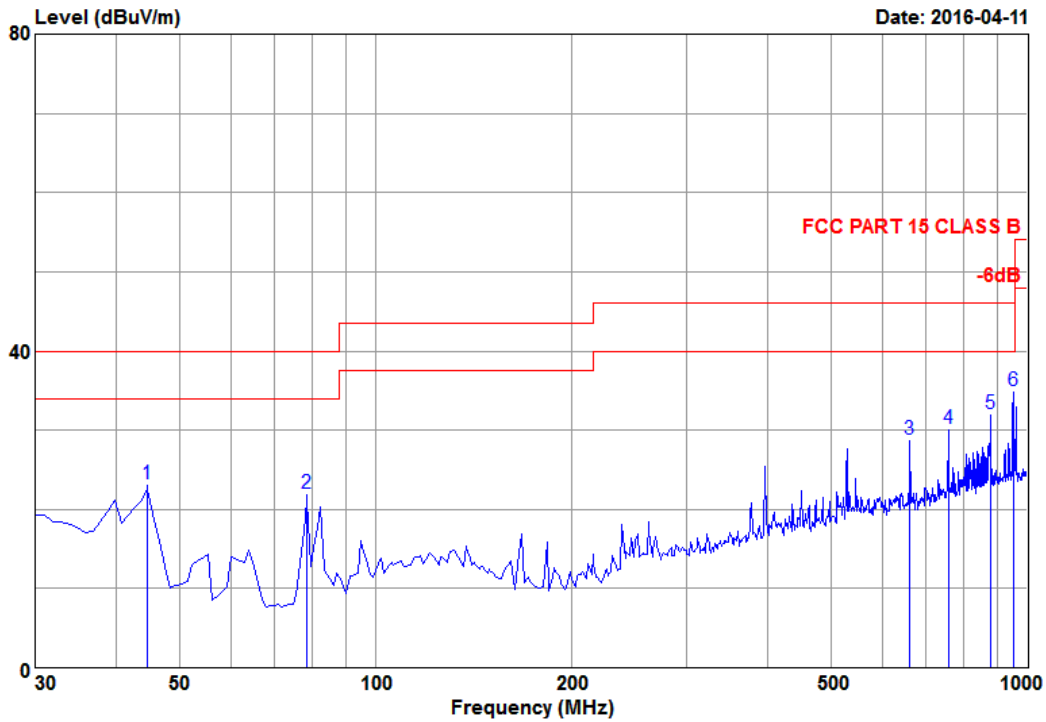
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.94	18.46	0.48	28.25	19.84	40.00	20.16	QP
2	396.66	16.52	1.86	41.46	32.56	46.00	13.44	QP
3	528.58	18.47	2.20	40.91	33.75	46.00	12.25	QP
4	660.50	19.70	2.50	39.18	33.54	46.00	12.46	QP
5	850.62	21.30	2.92	40.54	37.26	46.00	8.74	QP
6	924.34	22.02	3.10	42.11	40.13	46.00	5.87	QP

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



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Data: 150 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH149 5745MHz  
 Memo :  
 Data NO. :150  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

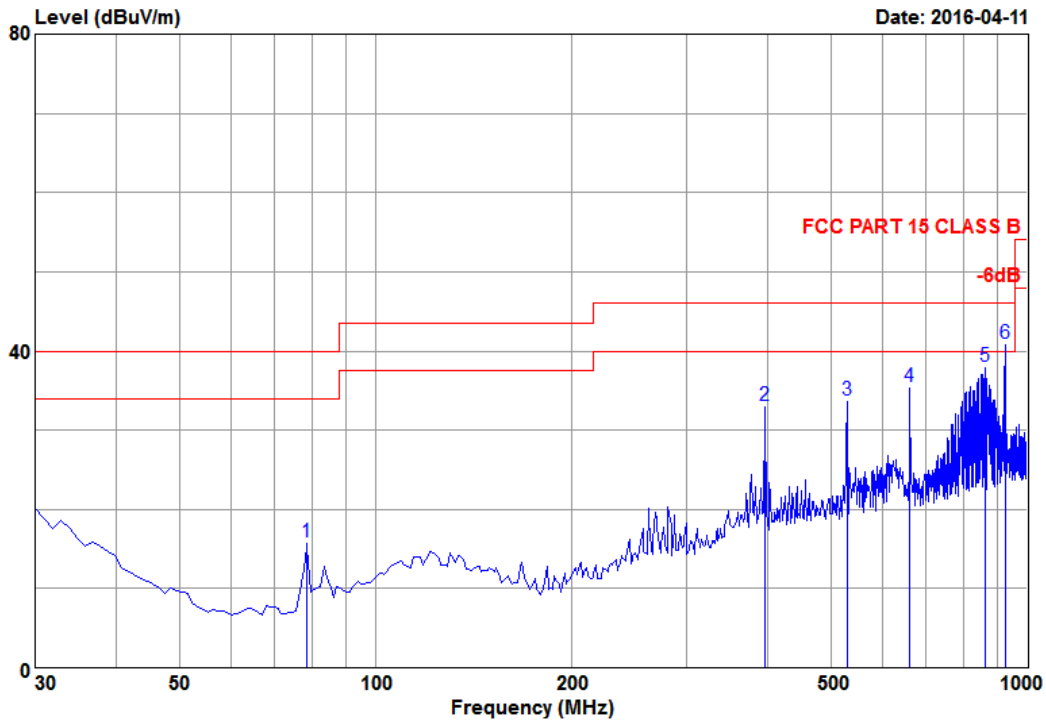
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	44.55	11.80	0.57	38.19	23.25	40.00	16.75	QP
2	78.50	7.79	0.76	40.67	21.98	40.00	18.02	QP
3	660.50	19.70	2.50	34.51	28.87	46.00	17.13	QP
4	757.50	20.42	2.72	34.81	30.15	46.00	15.85	QP
5	878.75	21.59	2.98	34.90	32.14	46.00	13.86	QP
6	951.50	22.26	3.19	36.53	34.99	46.00	11.01	QP

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



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Data: 151 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH157 5785MHz  
 Memo :  
 Data NO. :151  
 Ant. pol. : HORIZONTAL  
 Engineer : Mickey

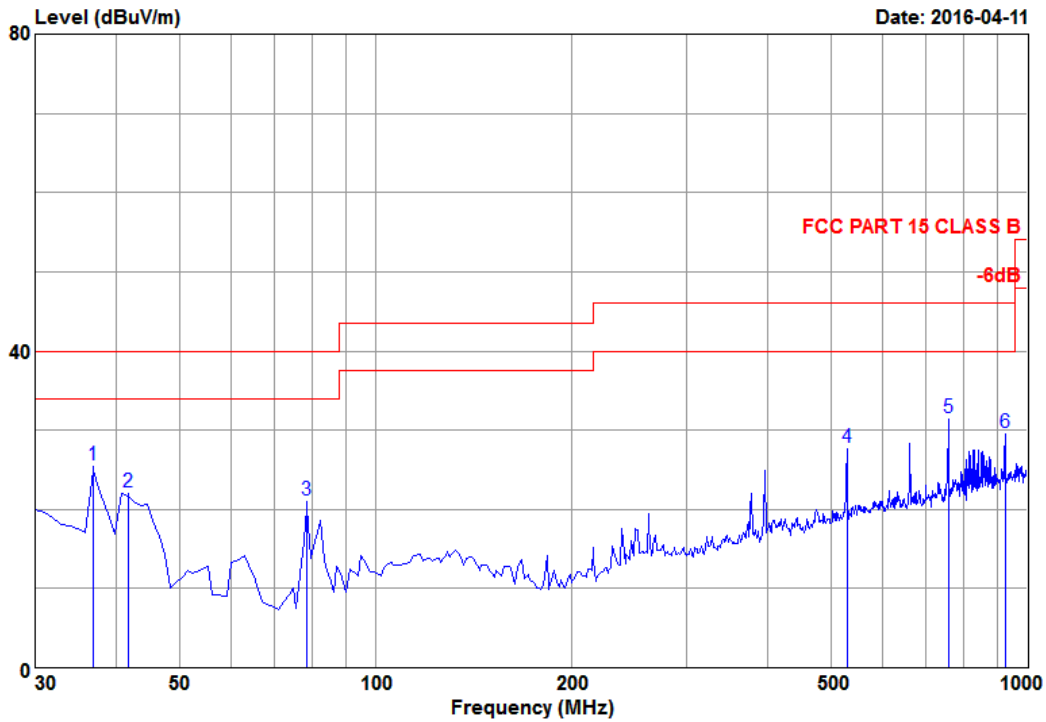
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	78.50	7.79	0.76	34.48	15.79	40.00	24.21	QP
2	396.66	16.52	1.86	41.92	33.02	46.00	12.98	QP
3	528.58	18.47	2.20	40.88	33.72	46.00	12.28	QP
4	660.50	19.70	2.50	41.04	35.40	46.00	10.60	QP
5	862.26	21.42	2.94	41.17	38.10	46.00	7.90	QP
6	924.34	22.02	3.10	42.99	41.01	46.00	4.99	QP

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



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Data: 152 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH157 5785MHz  
 Memo :  
 Data NO. :152  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

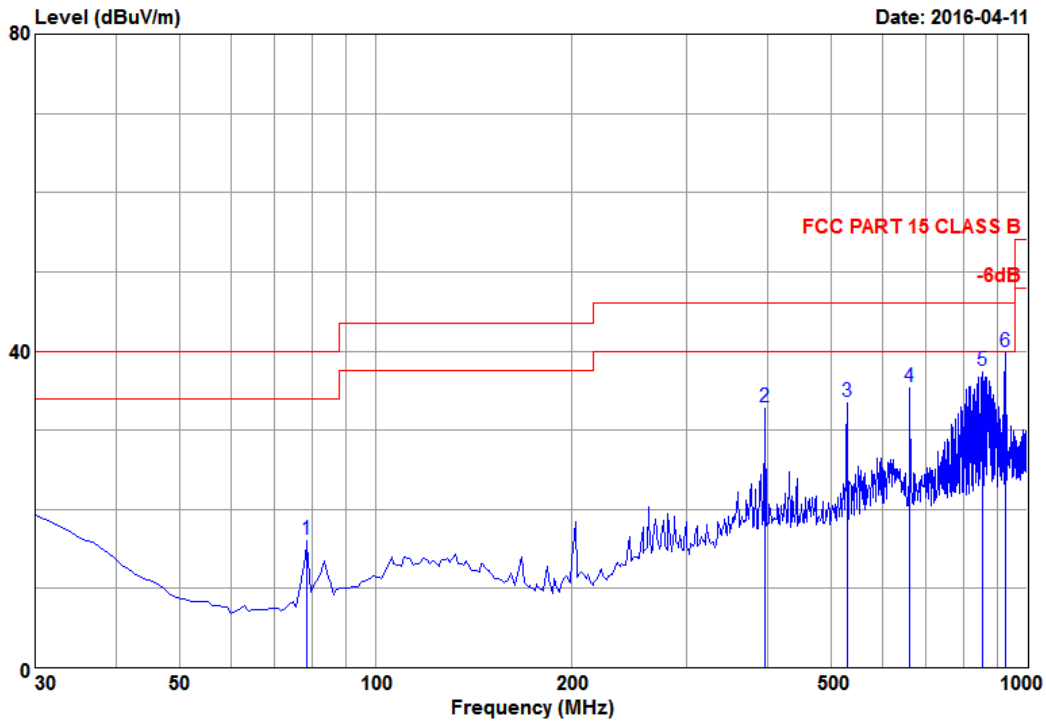
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	36.79	15.86	0.52	36.49	25.54	40.00	14.46	QP
2	41.64	13.30	0.55	35.68	22.21	40.00	17.79	QP
3	78.50	7.79	0.76	39.78	21.09	40.00	18.91	QP
4	528.58	18.47	2.20	34.93	27.77	46.00	18.23	QP
5	757.50	20.42	2.72	36.23	31.57	46.00	14.43	QP
6	924.34	22.02	3.10	31.65	29.67	46.00	16.33	QP

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



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Data: 153 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH165 5825MHz  
 Memo :  
 Data NO. :153  
 Ant. pol. : HORIZONTAL  
 Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	78.50	7.79	0.76	34.92	16.23	40.00	23.77	QP
2	396.66	16.52	1.86	41.88	32.98	46.00	13.02	QP
3	528.58	18.47	2.20	40.83	33.67	46.00	12.33	QP
4	660.50	19.70	2.50	41.04	35.40	46.00	10.60	QP
5	855.47	21.35	2.93	40.79	37.60	46.00	8.40	QP
6	924.34	22.02	3.10	41.86	39.88	46.00	6.12	QP

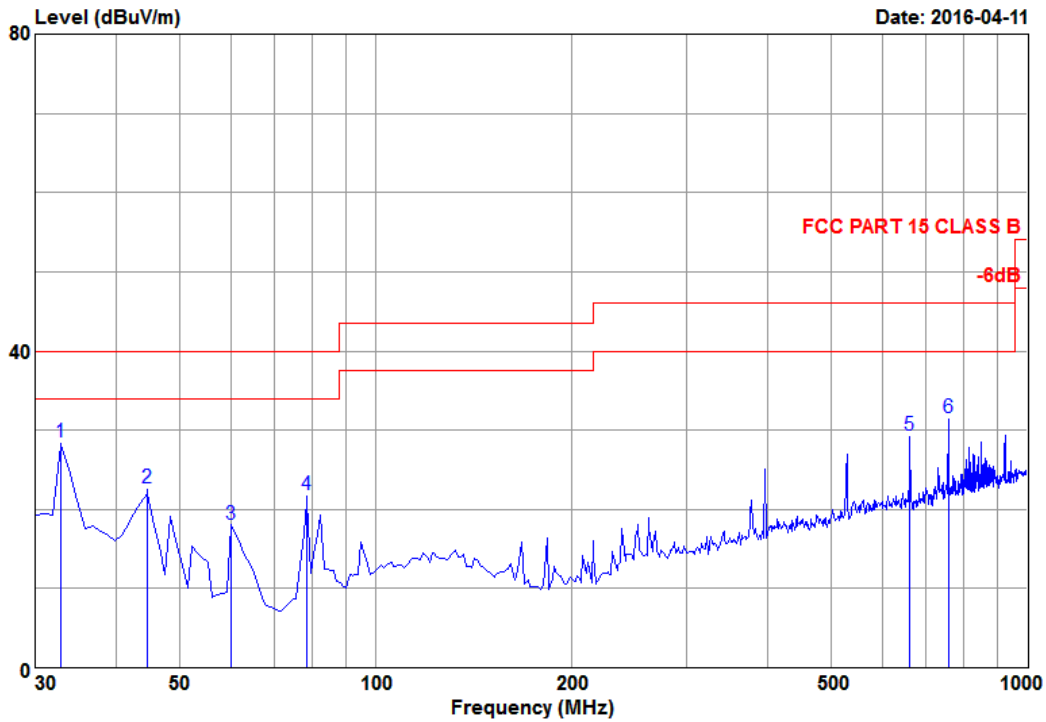
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 154 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber Data NO. :154  
 Dis. / Ant. : 3m 6112D(22253)-150805 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11a CH165 5825MHz  
 Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	32.91	17.94	0.49	37.40	28.49	40.00	11.51	QP
2	44.55	11.80	0.57	37.71	22.77	40.00	17.23	QP
3	60.07	6.50	0.66	38.29	18.17	40.00	21.83	QP
4	78.50	7.79	0.76	40.45	21.76	40.00	18.24	QP
5	660.50	19.70	2.50	34.92	29.28	46.00	16.72	QP
6	757.50	20.42	2.72	36.22	31.56	46.00	14.44	QP

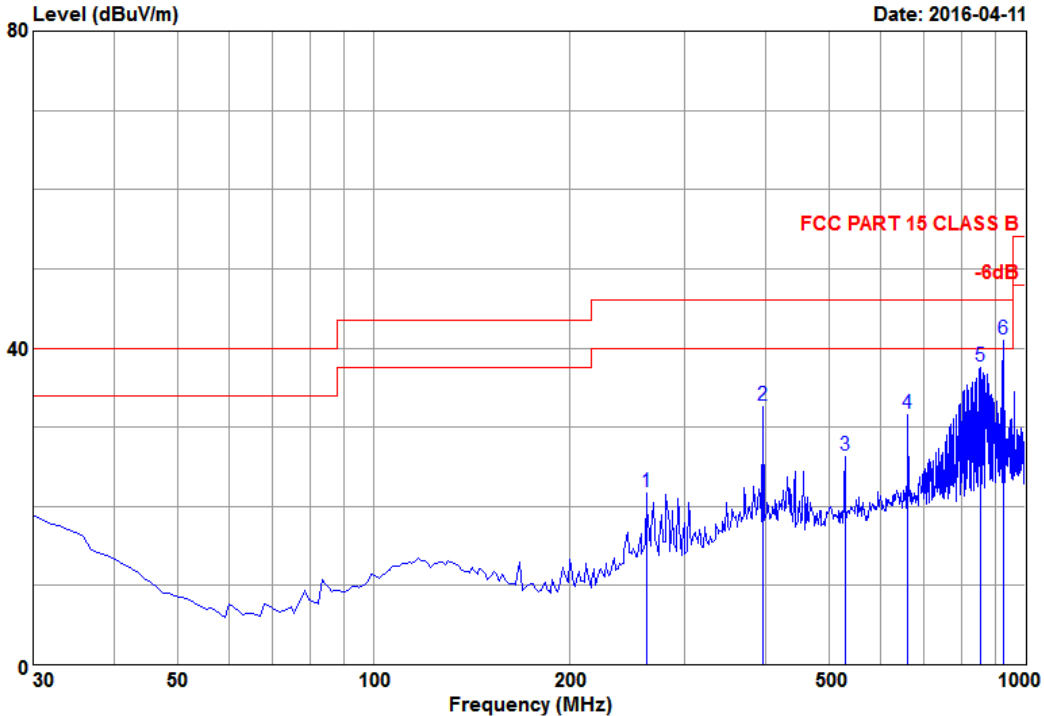
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

4.6.2. Type of Network : IEEE 802.11a802.11n HT20



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Data: 155 File: G:\Test Data\2013\Reports\04\IG1304008R2.EM6 (166) Date: 2016-04-11



Site NO. : 3m Chamber Data NO. :155  
 Dis. / Ant. : 3m 6112D(22253)-150805 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI Engineer : Mickey  
 EUT : TI-inspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH36 5180MHz  
 Memo :

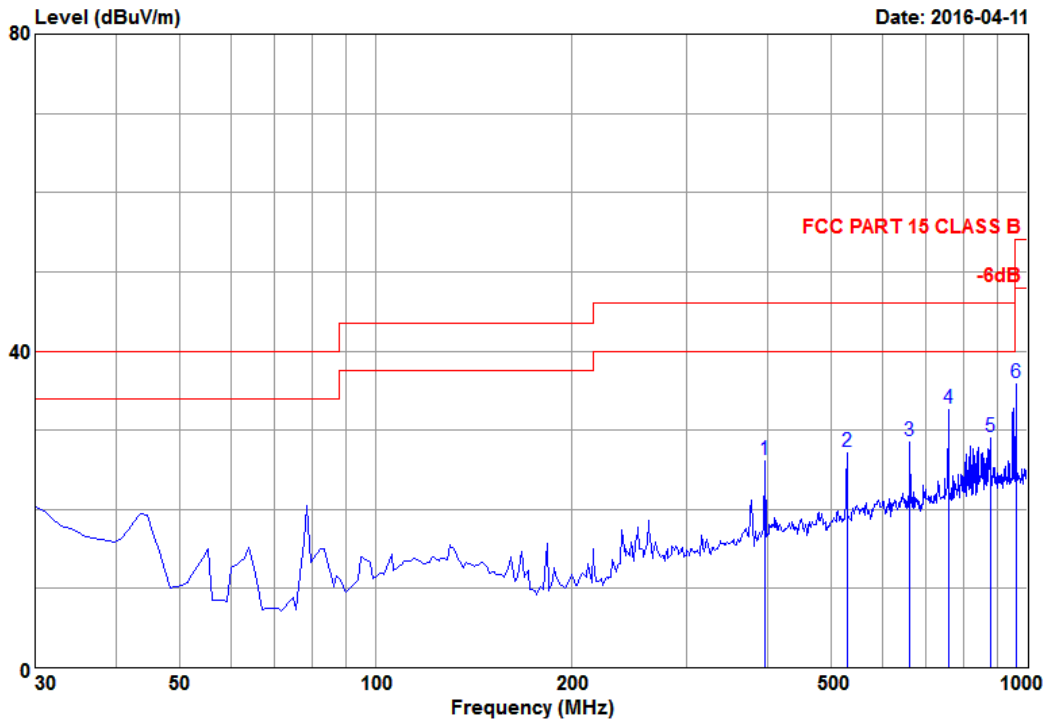
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	261.83	13.96	1.47	33.17	21.92	46.00	24.08	QP
2	396.66	16.52	1.86	41.68	32.78	46.00	13.22	QP
3	528.58	18.47	2.20	33.66	26.50	46.00	19.50	QP
4	660.50	19.70	2.50	37.45	31.81	46.00	14.19	QP
5	855.47	21.35	2.93	40.85	37.66	46.00	8.34	QP
6	924.34	22.02	3.10	43.08	41.10	46.00	4.90	QP

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



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Data: 156 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH36 5180MHz  
 Memo :  
 Data NO. :156  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

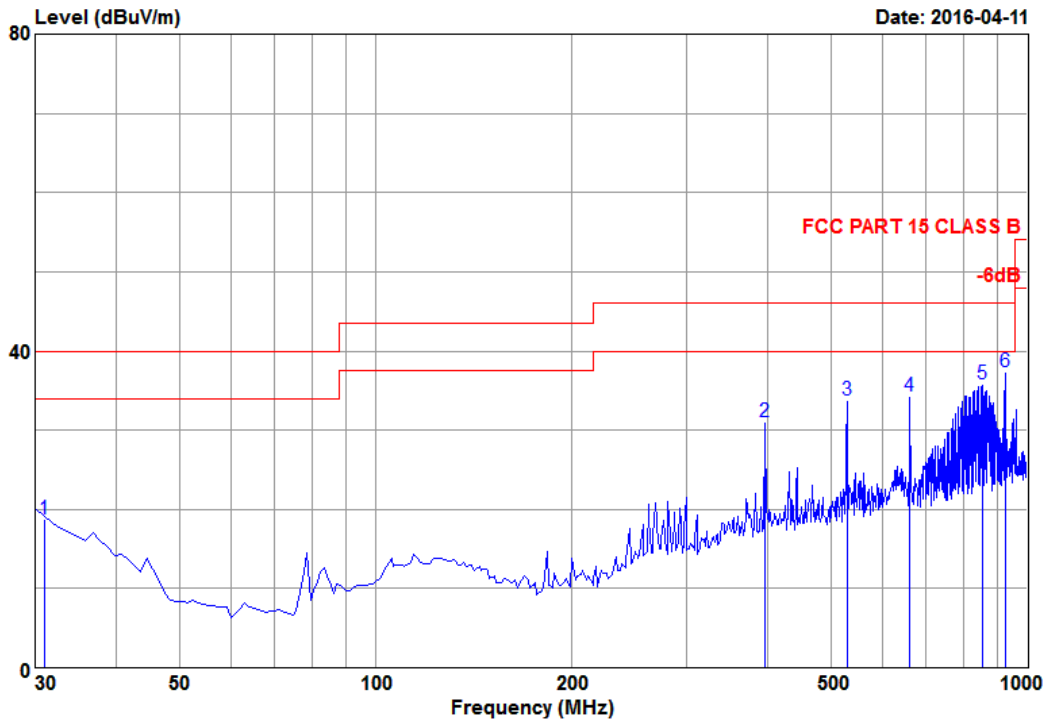
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	396.66	16.52	1.86	35.13	26.23	46.00	19.77	QP
2	528.58	18.47	2.20	34.40	27.24	46.00	18.76	QP
3	660.50	19.70	2.50	34.30	28.66	46.00	17.34	QP
4	757.50	20.42	2.72	37.44	32.78	46.00	13.22	QP
5	878.75	21.59	2.98	31.88	29.12	46.00	16.88	QP
6	960.23	22.34	3.22	37.40	36.00	54.00	18.00	QP

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



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Data: 157 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH44 5220MHz  
 Memo :  
 Data NO. :157  
 Ant. pol. : HORIZONTAL  
 Engineer : Mickey

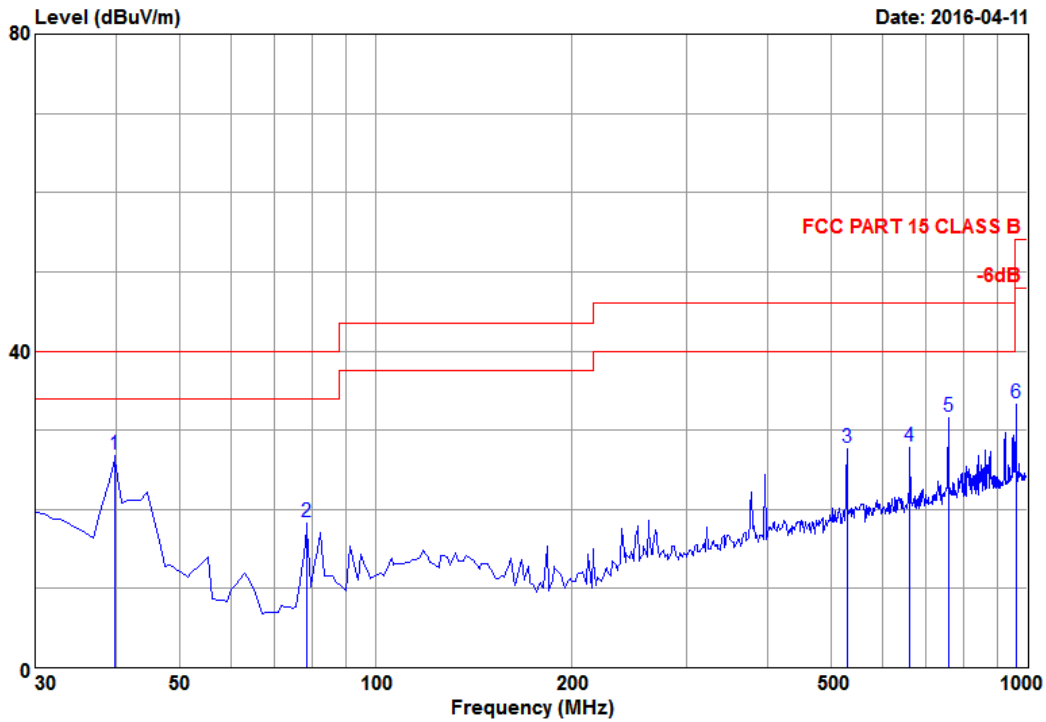
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.97	18.98	0.48	26.64	18.75	40.00	21.25	QP
2	396.66	16.52	1.86	39.89	30.99	46.00	15.01	QP
3	528.58	18.47	2.20	40.88	33.72	46.00	12.28	QP
4	660.50	19.70	2.50	39.96	34.32	46.00	11.68	QP
5	855.47	21.35	2.93	39.08	35.89	46.00	10.11	QP
6	924.34	22.02	3.10	39.39	37.41	46.00	8.59	QP

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



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Data: 158 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH44 5220MHz  
 Memo :  
 Data NO. :158  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

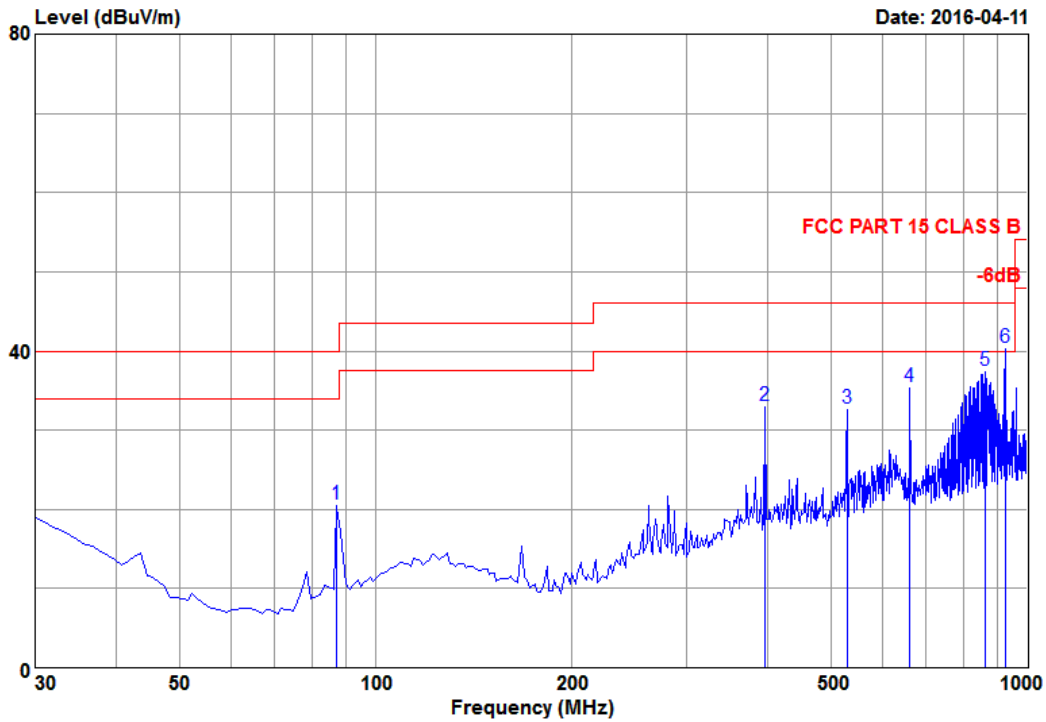
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	39.70	14.30	0.54	39.42	26.93	40.00	13.07	QP
2	78.50	7.79	0.76	37.08	18.39	40.00	21.61	QP
3	528.58	18.47	2.20	34.98	27.82	46.00	18.18	QP
4	660.50	19.70	2.50	33.68	28.04	46.00	17.96	QP
5	757.50	20.42	2.72	36.47	31.81	46.00	14.19	QP
6	960.23	22.34	3.22	34.80	33.40	54.00	20.60	QP

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



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Data: 159 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber	Data NO. :159
Dis. / Ant. : 3m 6112D(22253)-150805	Ant. pol. : HORIZONTAL
Limit : FCC PART 15 CLASS B	Engineer : Mickey
Env. / Ins. : 20.7*43%/ESCI	
EUT : TI-nspire CX Wireless Network Adapter v2	
M/N : TINAVWNA2	
Power Rating : DC 3.7V	
Test Mode : TX 802.11nHT20 CH48 5240MHz	
Memo :	

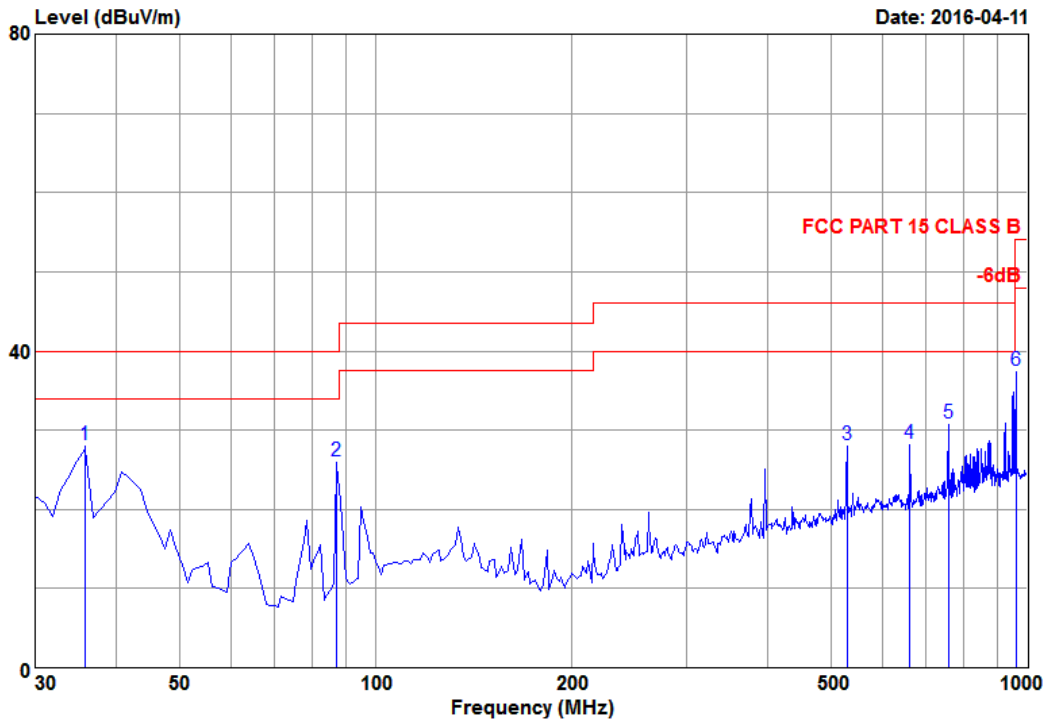
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	87.23	8.87	0.80	38.14	20.58	40.00	19.42	QP
2	396.66	16.52	1.86	41.98	33.08	46.00	12.92	QP
3	528.58	18.47	2.20	39.84	32.68	46.00	13.32	QP
4	660.50	19.70	2.50	41.11	35.47	46.00	10.53	QP
5	862.26	21.42	2.94	40.60	37.53	46.00	8.47	QP
6	924.34	22.02	3.10	42.40	40.42	46.00	5.58	QP

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



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Data: 160 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber Data NO. :160  
 Dis. / Ant. : 3m 6112D(22253)-150805 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH48 5240MHz  
 Memo :

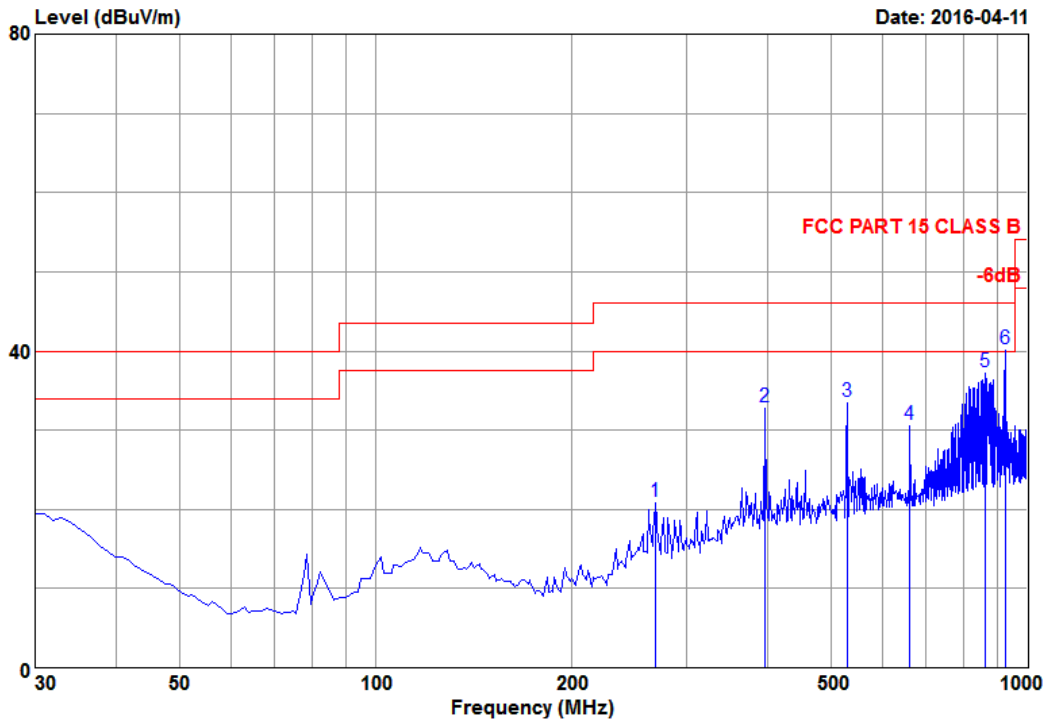
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	35.82	16.38	0.51	38.61	28.16	40.00	11.84	QP
2	87.23	8.87	0.80	43.59	26.03	40.00	13.97	QP
3	528.58	18.47	2.20	35.29	28.13	46.00	17.87	QP
4	660.50	19.70	2.50	33.97	28.33	46.00	17.67	QP
5	757.50	20.42	2.72	35.46	30.80	46.00	15.20	QP
6	960.23	22.34	3.22	38.89	37.49	54.00	16.51	QP

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



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Data: 161 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber Data NO. :161  
 Dis. / Ant. : 3m 6112D(22253)-150805 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH149 5745MHz  
 Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	268.62	13.83	1.49	32.27	20.93	46.00	25.07	QP
2	396.66	16.52	1.86	41.78	32.88	46.00	13.12	QP
3	528.58	18.47	2.20	40.73	33.57	46.00	12.43	QP
4	660.50	19.70	2.50	36.37	30.73	46.00	15.27	QP
5	862.26	21.42	2.94	40.49	37.42	46.00	8.58	QP
6	924.34	22.02	3.10	42.28	40.30	46.00	5.70	QP

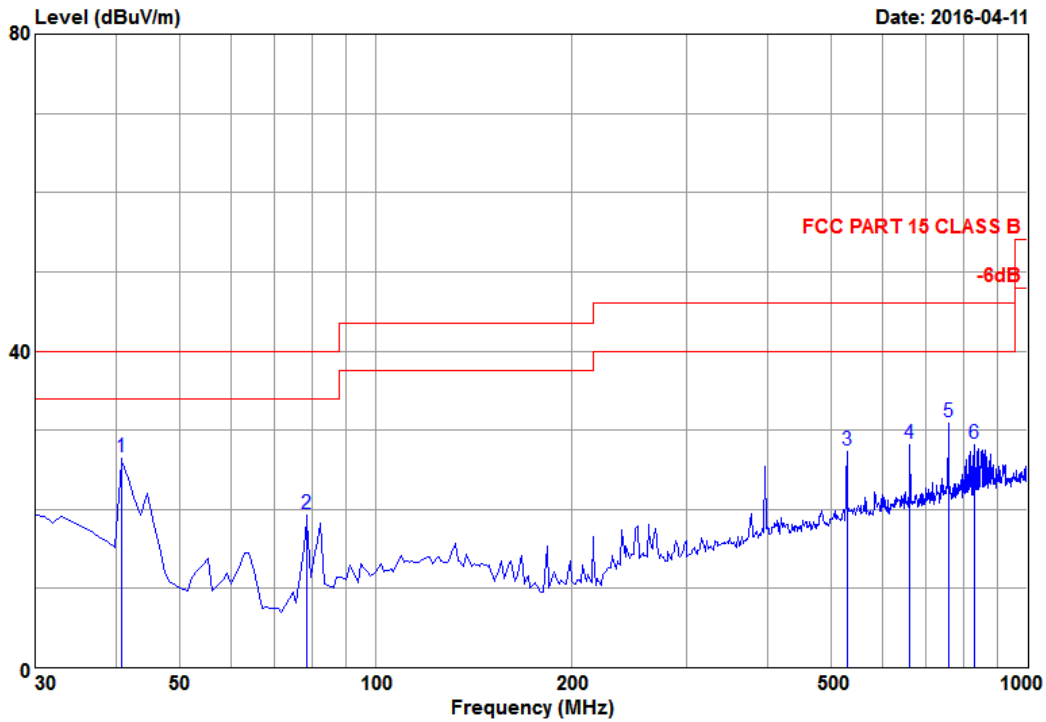
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 162 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH149 5745MHz  
 Memo :  
 Data NO. :162  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

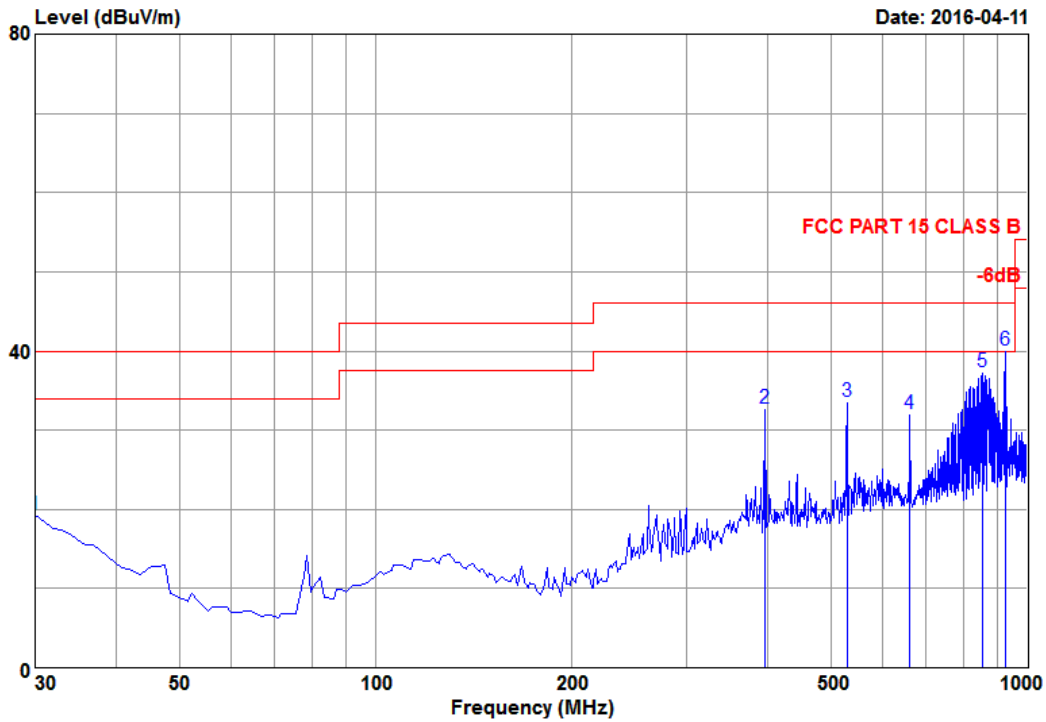
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	40.67	13.80	0.54	39.65	26.67	40.00	13.33	QP
2	78.50	7.79	0.76	38.12	19.43	40.00	20.57	QP
3	528.58	18.47	2.20	34.67	27.51	46.00	18.49	QP
4	660.50	19.70	2.50	33.88	28.24	46.00	17.76	QP
5	757.50	20.42	2.72	35.67	31.01	46.00	14.99	QP
6	831.22	21.11	2.88	31.99	28.37	46.00	17.63	QP

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



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Data: 163 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH157 5785MHz  
 Memo :  
 Data NO. :163  
 Ant. pol. : HORIZONTAL  
 Engineer : Mickey

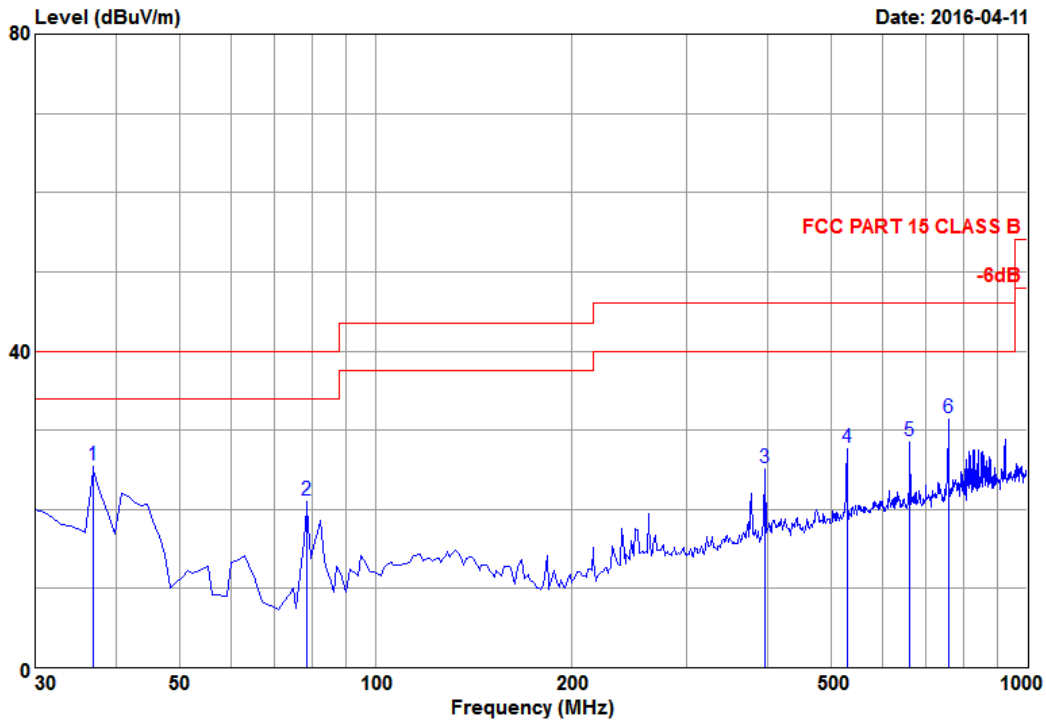
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.00	19.50	0.47	26.70	19.32	40.00	20.68	QP
2	396.66	16.52	1.86	41.63	32.73	46.00	13.27	QP
3	528.58	18.47	2.20	40.79	33.63	46.00	12.37	QP
4	660.50	19.70	2.50	37.74	32.10	46.00	13.90	QP
5	855.47	21.35	2.93	40.50	37.31	46.00	8.69	QP
6	924.34	22.02	3.10	42.11	40.13	46.00	5.87	QP

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



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Data: 164 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber Data NO. :164  
 Dis. / Ant. : 3m 6112D(22253)-150805 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH157 5785MHz  
 Memo :

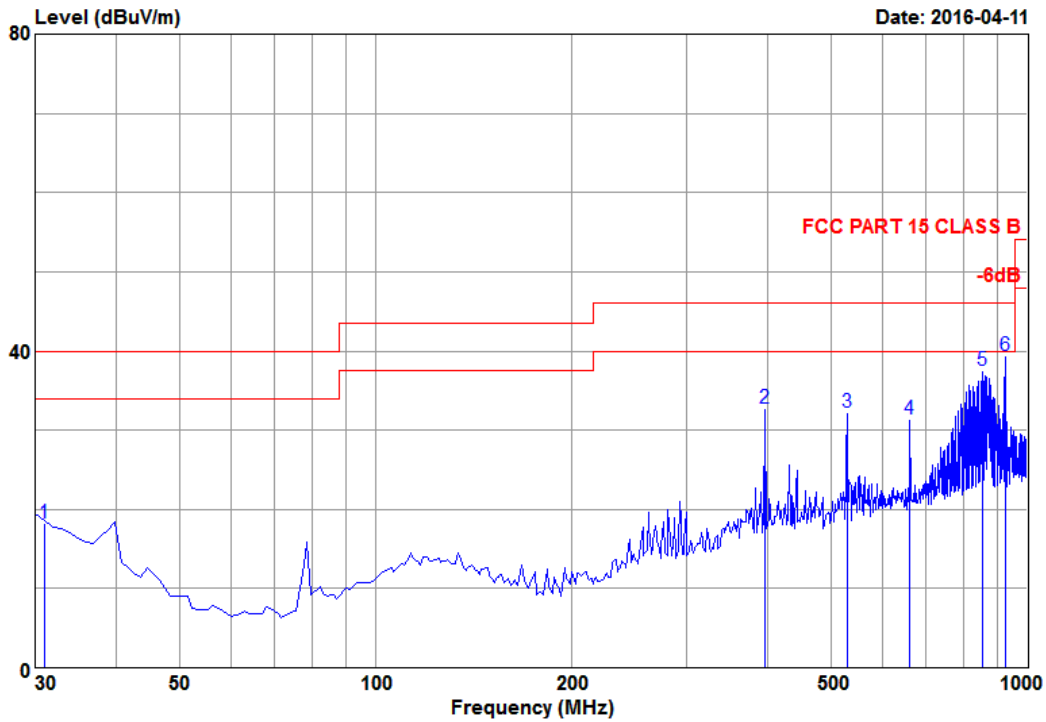
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	36.79	15.86	0.52	36.49	25.54	40.00	14.46	QP
2	78.50	7.79	0.76	39.78	21.09	40.00	18.91	QP
3	396.66	16.52	1.86	34.19	25.29	46.00	20.71	QP
4	528.58	18.47	2.20	34.93	27.77	46.00	18.23	QP
5	660.50	19.70	2.50	34.32	28.68	46.00	17.32	QP
6	757.50	20.42	2.72	36.23	31.57	46.00	14.43	QP

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



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Data: 165 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Chamber  
 Dis. / Ant. : 3m 6112D(22253)-150805  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH165 5825MHz  
 Memo :  
 Data NO. :165  
 Ant. pol. : HORIZONTAL  
 Engineer : Mickey

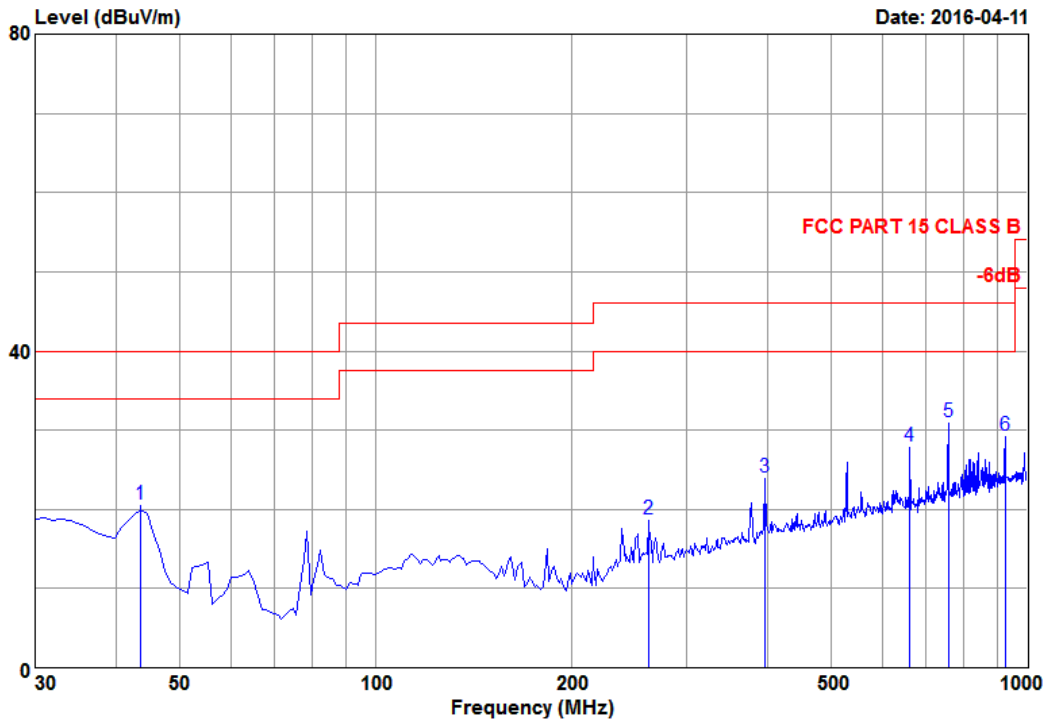
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.97	18.98	0.48	26.09	18.20	40.00	21.80	QP
2	396.66	16.52	1.86	41.57	32.67	46.00	13.33	QP
3	528.58	18.47	2.20	39.33	32.17	46.00	13.83	QP
4	660.50	19.70	2.50	37.06	31.42	46.00	14.58	QP
5	855.47	21.35	2.93	40.69	37.50	46.00	8.50	QP
6	924.34	22.02	3.10	41.35	39.37	46.00	6.63	QP

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



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Data: 166 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Chamber Data NO. :166  
 Dis. / Ant. : 3m 6112D(22253)-150805 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 CLASS B  
 Env. / Ins. : 20.7\*43%/ESCI Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating : DC 3.7V  
 Test Mode : TX 802.11nHT20 CH165 5825MHz  
 Memo :

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	43.58	12.30	0.56	35.17	20.71	40.00	19.29	QP
2	261.83	13.96	1.47	29.96	18.71	46.00	27.29	QP
3	396.66	16.52	1.86	32.90	24.00	46.00	22.00	QP
4	660.50	19.70	2.50	33.68	28.04	46.00	17.96	QP
5	757.50	20.42	2.72	35.79	31.13	46.00	14.87	QP
6	924.34	22.02	3.10	31.29	29.31	46.00	16.69	QP

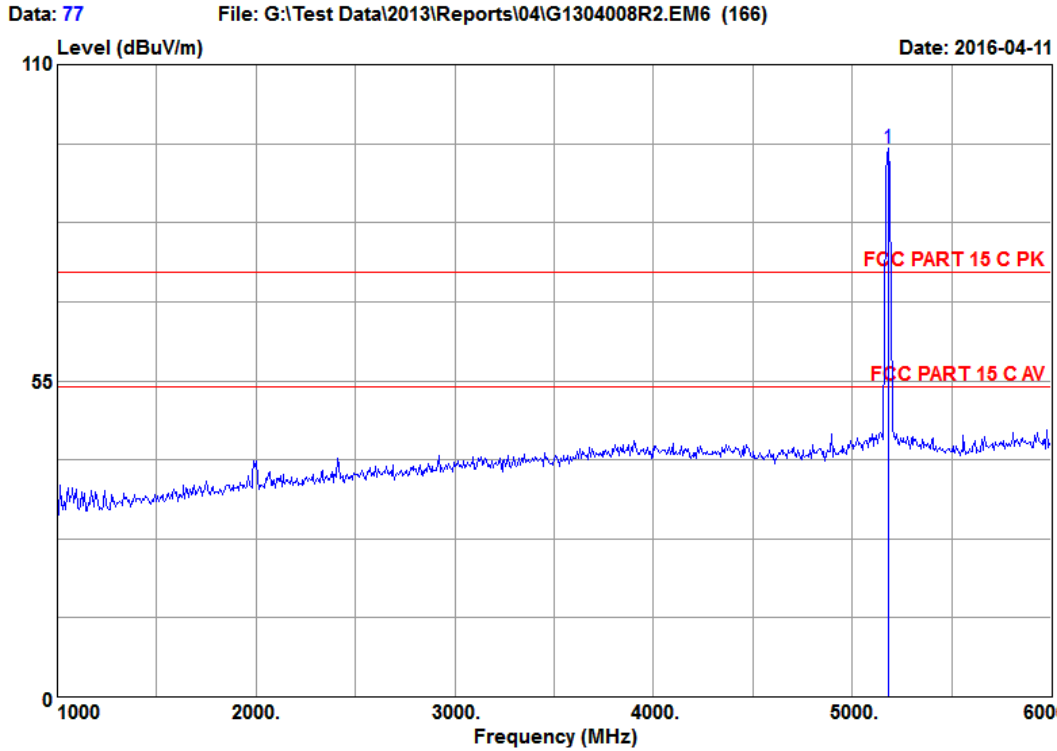
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

4.7. Restricted Bands Measurement Results (For Above 1GHz)

4.7.1. Type of Network : IEEE 802.11a



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Site NO. : 3m Semi-Anechoic Chamber	Data NO. : 77
Dis. / Ant. : 3m 3115-62960-150630	Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C PK	Engineer : Mickey
Env. / Ins. : 21.8*C&48%/N9030A	
EUT : TI-nspire CX Wireless Network Adapter v2	
M/N : TINAVWNA2	
Power Rating: DC 3.7V	
Test Mode : TX 802.11a CH36 5180MHz	
Memo :	

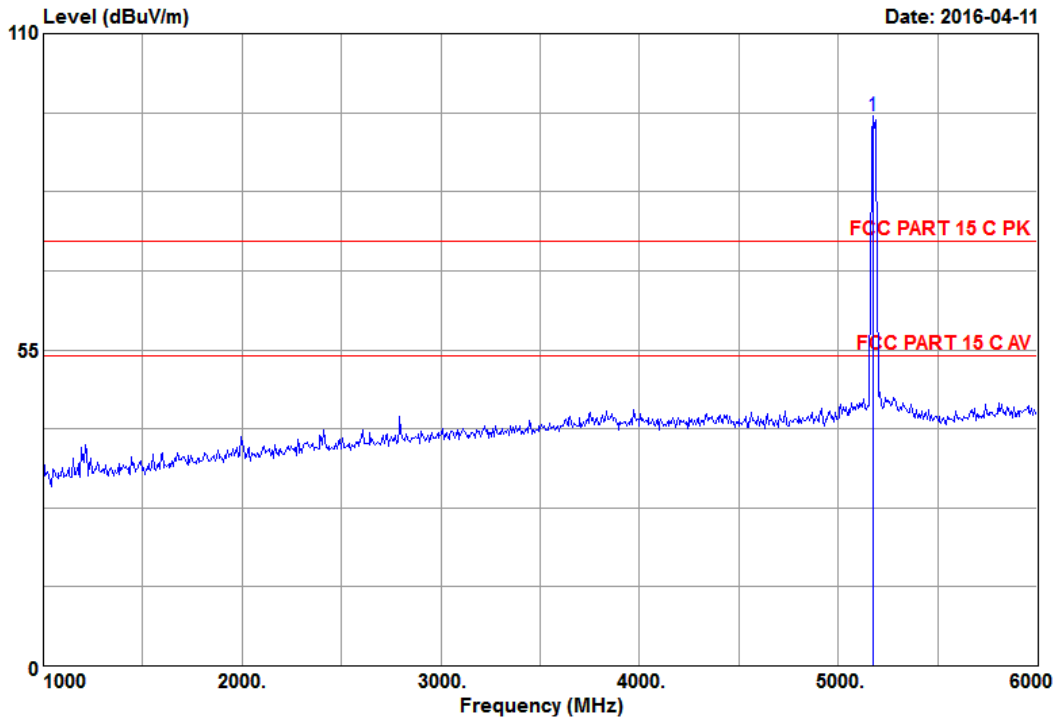
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5182.00	33.49	7.62	88.29	33.91	95.49	74.00	-21.49	Peak

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



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Data: 79 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH36 5180MHz  
 Memo :  
 Data NO. : 79  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

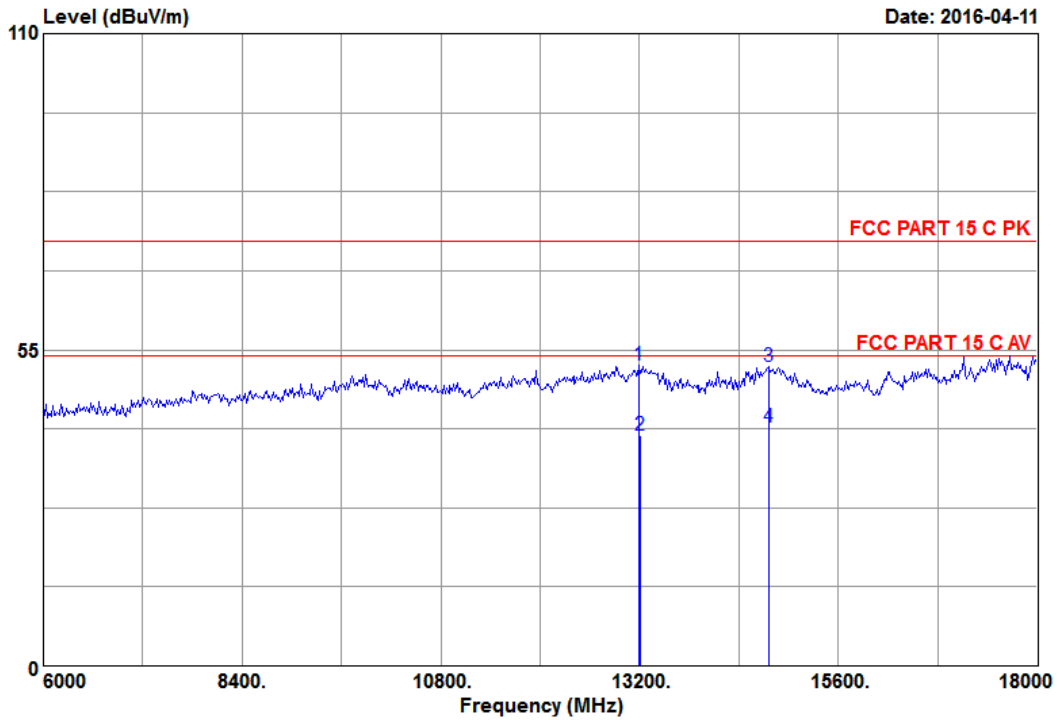
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5176.00	33.49	7.62	88.42	33.91	95.62	74.00	-21.62	Peak

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



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Data: 78 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 78  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH36 5180MHz  
 Memo :

Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 13200.00	40.40	12.41	31.84	32.30	52.35	74.00	21.65	Peak
2 13201.55	40.40	12.41	19.66	32.30	40.17	54.00	13.83	Average
3 14768.00	41.75	13.10	29.92	32.67	52.10	74.00	21.90	Peak
4 14770.11	41.75	13.10	19.26	32.67	41.44	54.00	12.56	Average

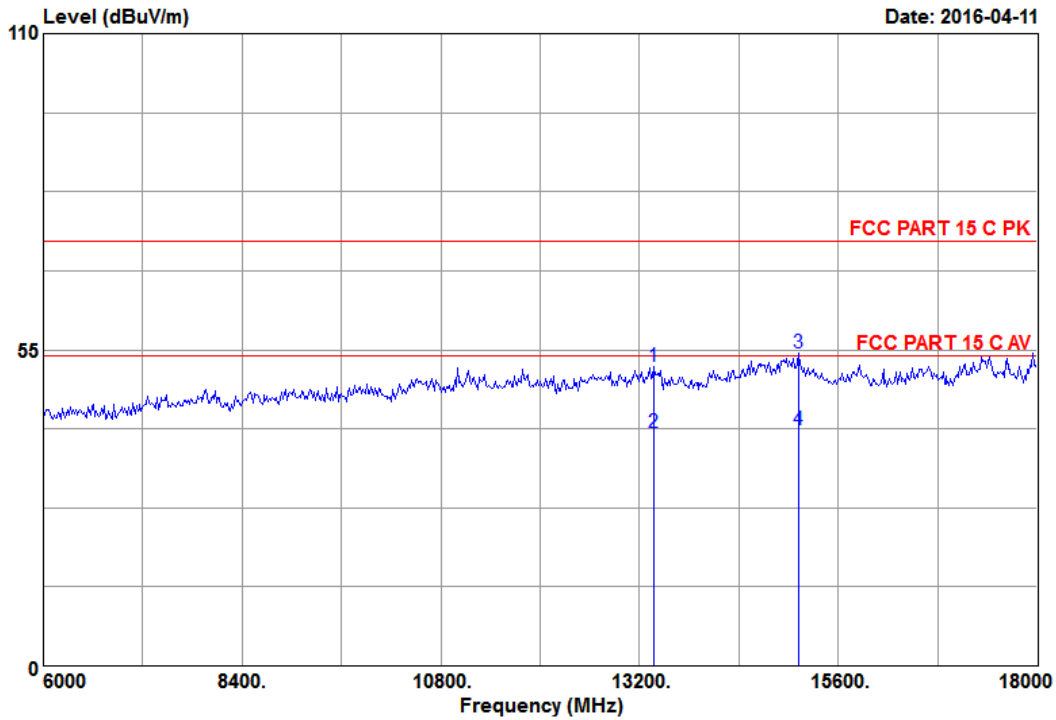
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 80 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 80  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH36 5180MHz  
 Memo :

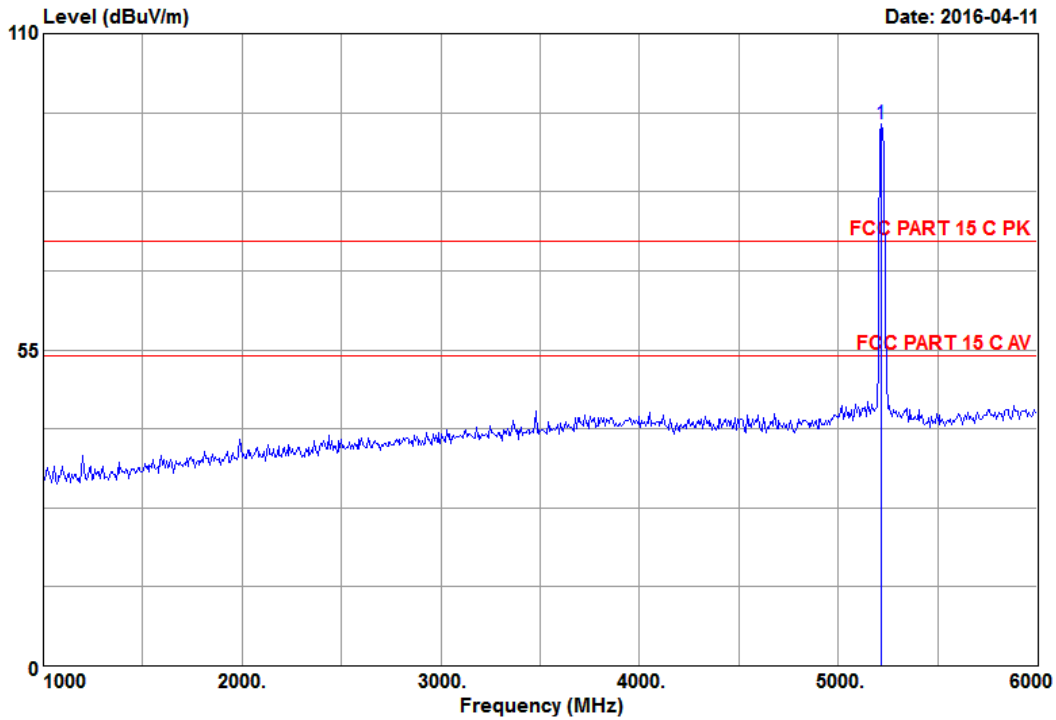
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 13376.00	40.81	12.50	30.86	32.15	52.02	74.00	21.98	Peak
2 13379.66	40.81	12.50	19.38	32.15	40.54	54.00	13.46	Average
3 15120.00	40.32	13.34	34.01	33.13	54.54	74.00	19.46	Peak
4 15121.14	40.32	13.34	20.63	33.13	41.16	54.00	12.84	Average

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



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Data: 81 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber	Data NO. : 81
Dis. / Ant. : 3m 3115-62960-150630	Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C PK	
Env. / Ins. : 21.8*C&48%/N9030A	Engineer : Mickey
EUT : TI-nspire CX Wireless Network Adapter v2	
M/N : TINAVWNA2	
Power Rating: DC 3.7V	
Test Mode : TX 802.11a CH44 5220MHz	
Memo :	

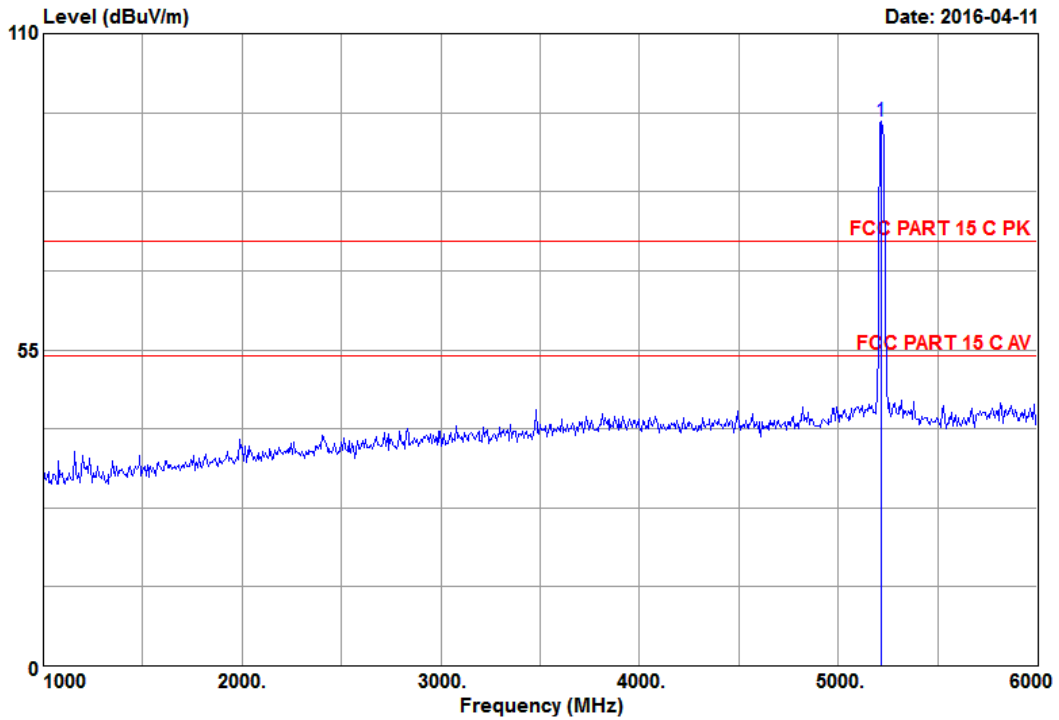
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5218.00	33.55	7.65	86.99	33.91	94.28	74.00	-20.28	Peak

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



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Data: 83 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber	Data NO. : 83
Dis. / Ant. : 3m 3115-62960-150630	Ant. pol. : VERTICAL
Limit : FCC PART 15 C PK	Engineer : Mickey
Env. / Ins. : 21.8*C&48%/N9030A	
EUT : TI-nspire CX Wireless Network Adapter v2	
M/N : TINAVWNA2	
Power Rating: DC 3.7V	
Test Mode : TX 802.11a CH44 5220MHz	
Memo :	

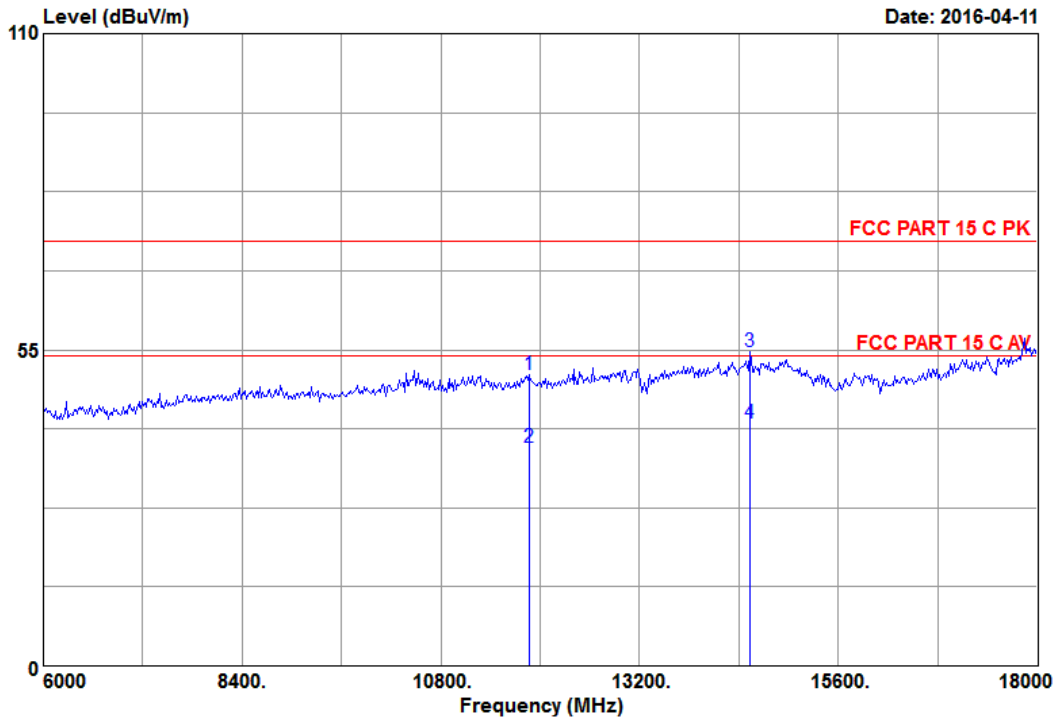
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5218.00	33.55	7.65	87.52	33.91	94.81	74.00	-20.81	Peak

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



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Data: 82 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 82  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH44 5220MHz  
 Memo :

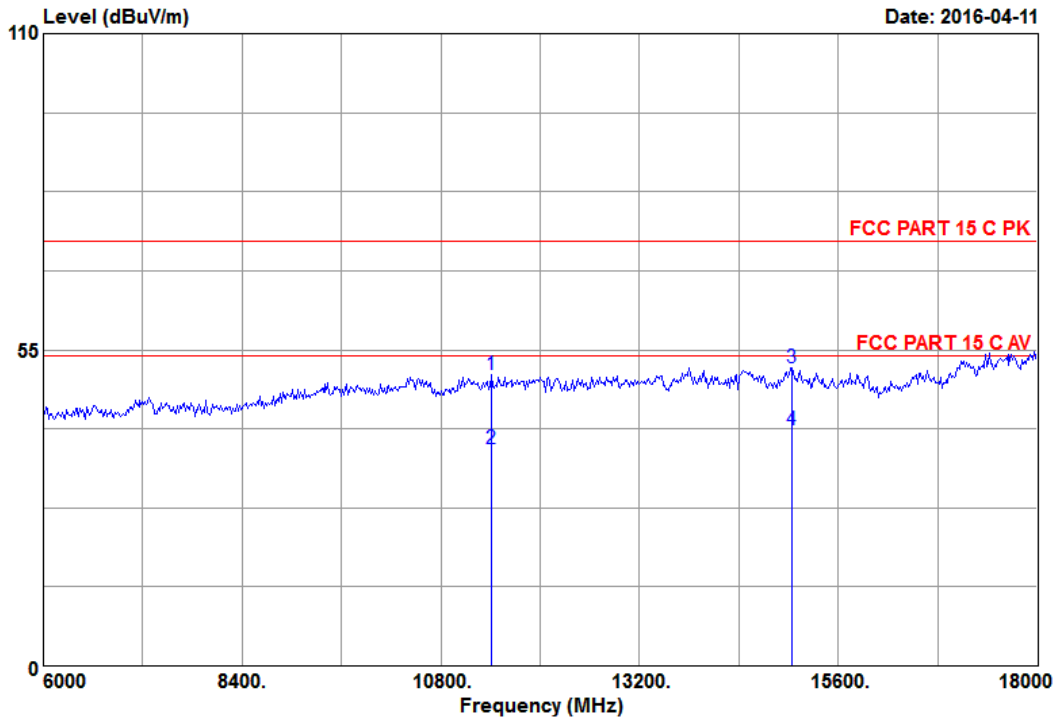
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 11872.00	39.17	11.49	33.83	33.79	50.70	74.00	23.30	Peak
2 11873.39	39.17	11.49	21.05	33.79	37.92	54.00	16.08	Average
3 14528.00	42.49	13.02	31.47	32.35	54.63	74.00	19.37	Peak
4 14529.35	42.49	13.02	19.16	32.35	42.32	54.00	11.68	Average

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



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Data: 84 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 84  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH44 5220MHz  
 Memo :

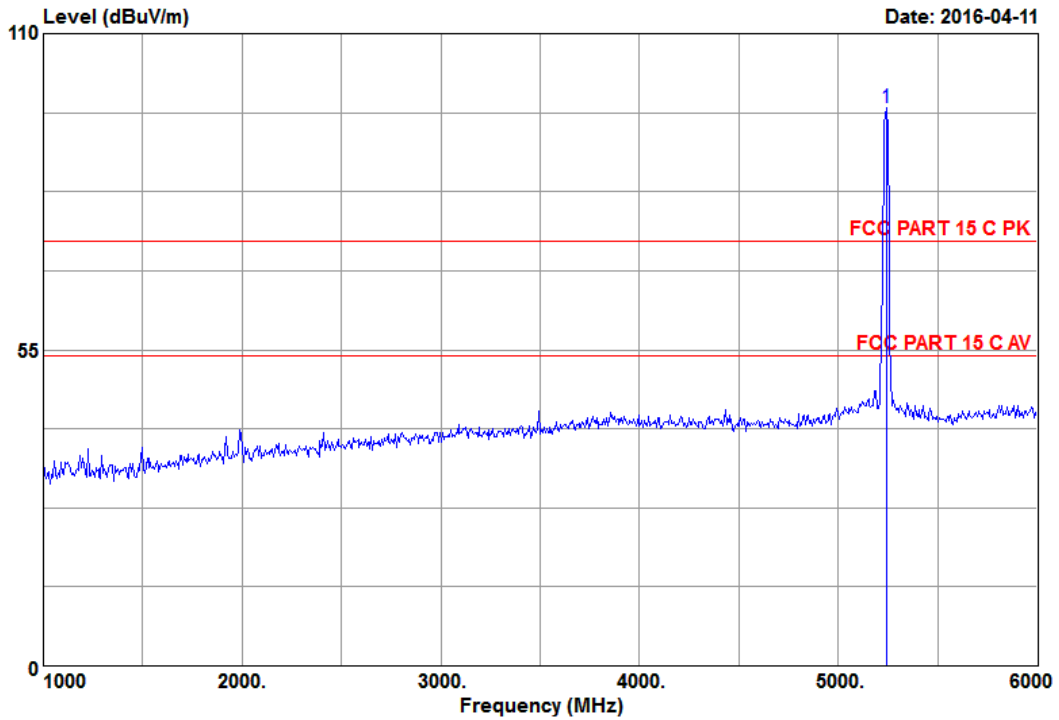
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 11408.00	39.34	11.41	33.58	33.71	50.62	74.00	23.38	Peak
2 11410.52	39.34	11.41	20.66	33.71	37.70	54.00	16.30	Average
3 15040.00	40.81	13.24	30.78	33.05	51.78	74.00	22.22	Peak
4 15043.15	40.81	13.24	19.96	33.05	40.96	54.00	13.04	Average

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



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Data: 85 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 85  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH48 5240MHz  
 Memo :

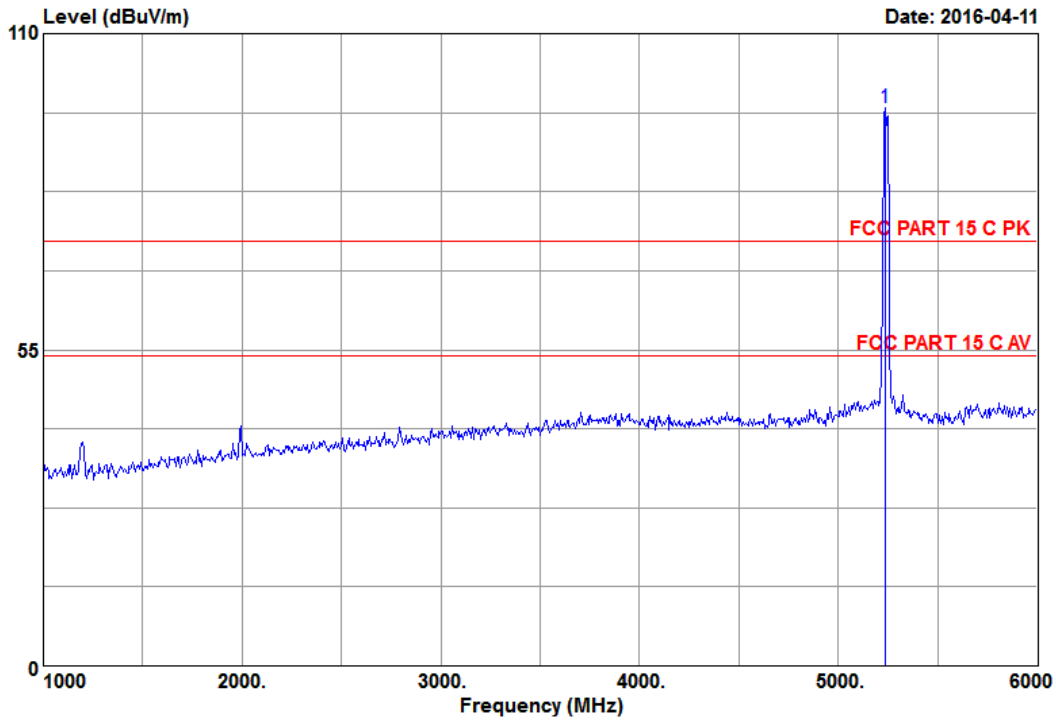
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5242.00	33.60	7.68	89.80	33.91	97.17	74.00	-23.17	Peak

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



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Data: 87 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 87  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH48 5240MHz  
 Memo :

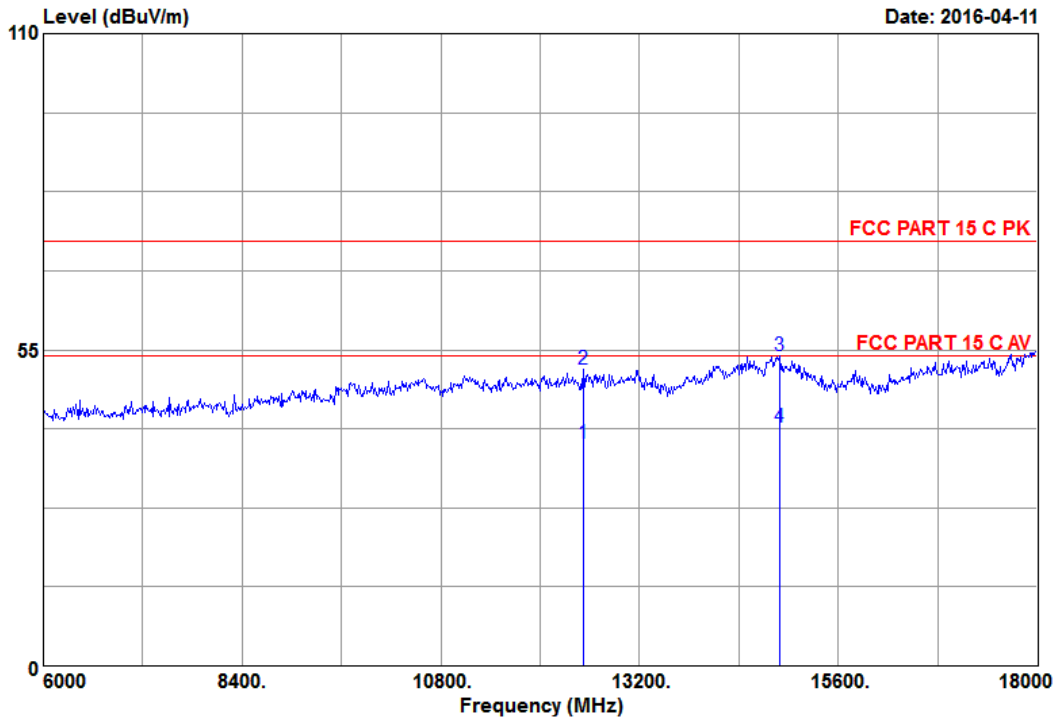
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5236.00	33.57	7.68	89.71	33.91	97.05	74.00	-23.05	Peak

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



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Data: 86 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 86  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH48 5240MHz  
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	12523.33	38.87	11.93	21.04	33.10	38.74	54.00	15.26	Average
2	12524.00	38.87	11.93	34.00	33.10	51.70	74.00	22.30	Peak
3	14890.00	41.37	13.14	32.42	32.86	54.07	74.00	19.93	Peak
4	14891.19	41.37	13.14	19.96	32.86	41.61	54.00	12.39	Average

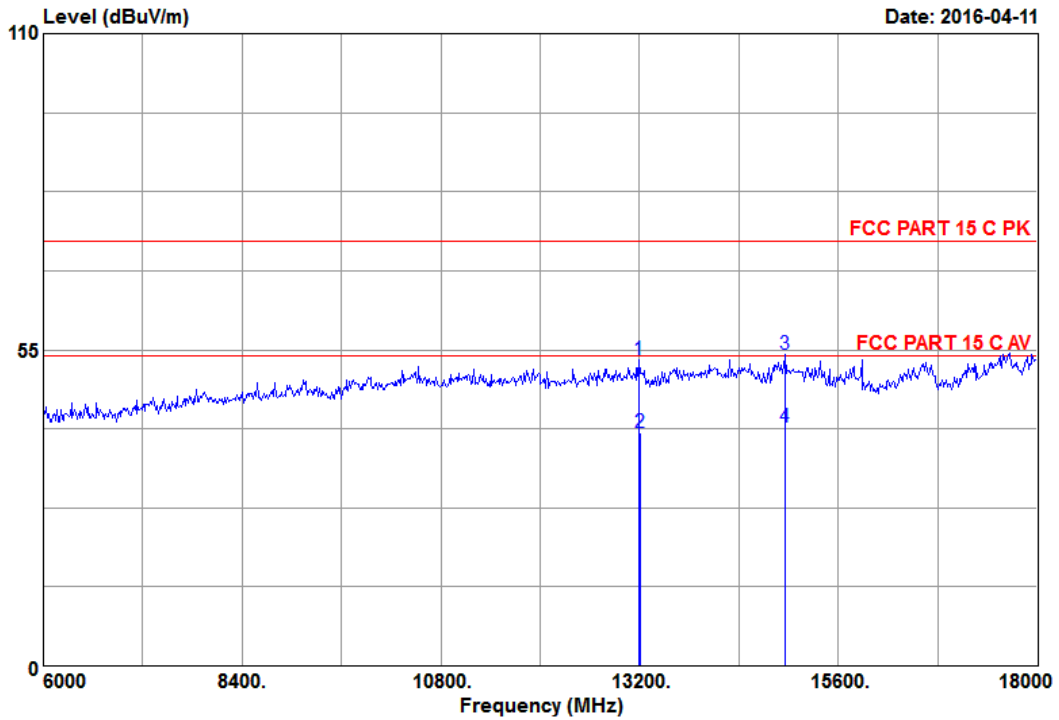
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 88 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 88  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH48 5240MHz  
 Memo :

Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 13196.00	40.36	12.41	32.69	32.30	53.16	74.00	20.84	Peak
2 13201.11	40.40	12.41	20.07	32.30	40.58	54.00	13.42	Average
3 14960.00	41.16	13.15	32.85	32.93	54.23	74.00	19.77	Peak
4 14965.51	41.11	13.16	20.32	32.96	41.63	54.00	12.37	Average

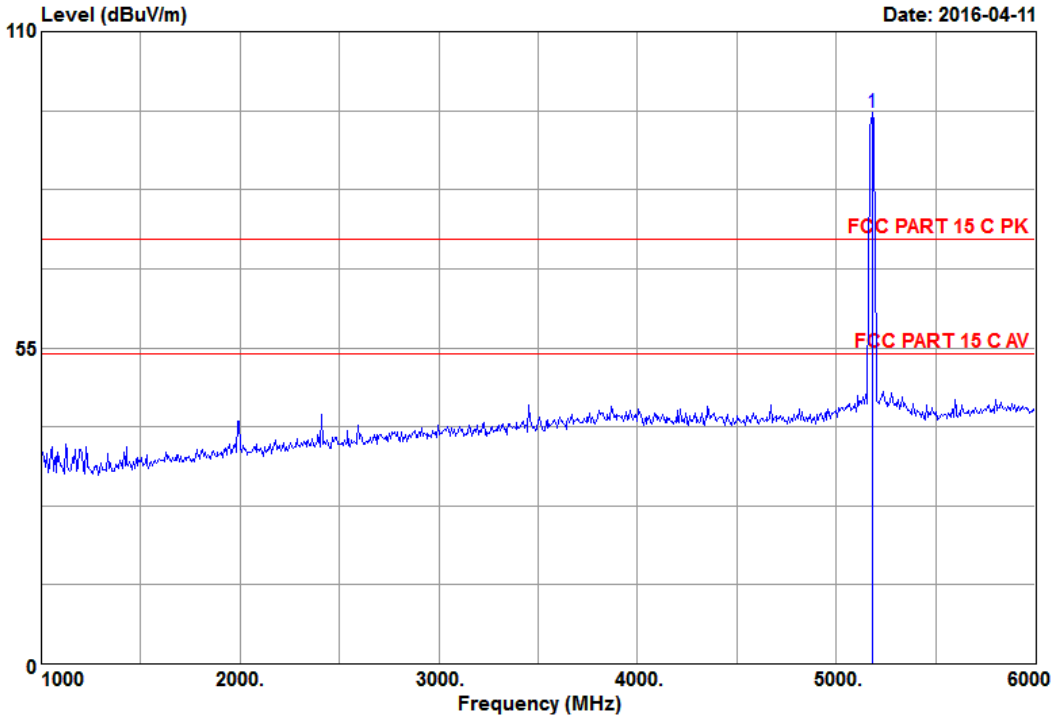
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.

4.7.2. Type of Network : IEEE 802.11n HT20



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Data: 89 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166) Date: 2016-04-11



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 89  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*CS&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M-N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH36 5180MHz  
 Memo :

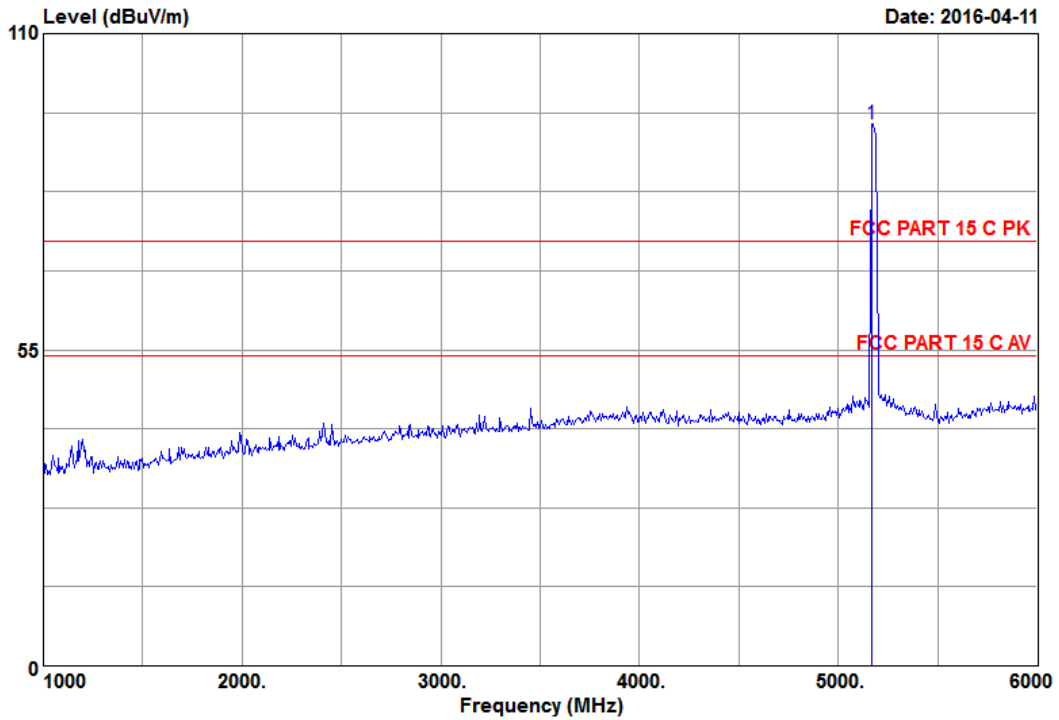
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5182.00	33.49	7.62	88.82	33.91	96.02	74.00	-22.02	Peak

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



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Data: 91 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH36 5180MHz  
 Memo :  
 Data NO. : 91  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

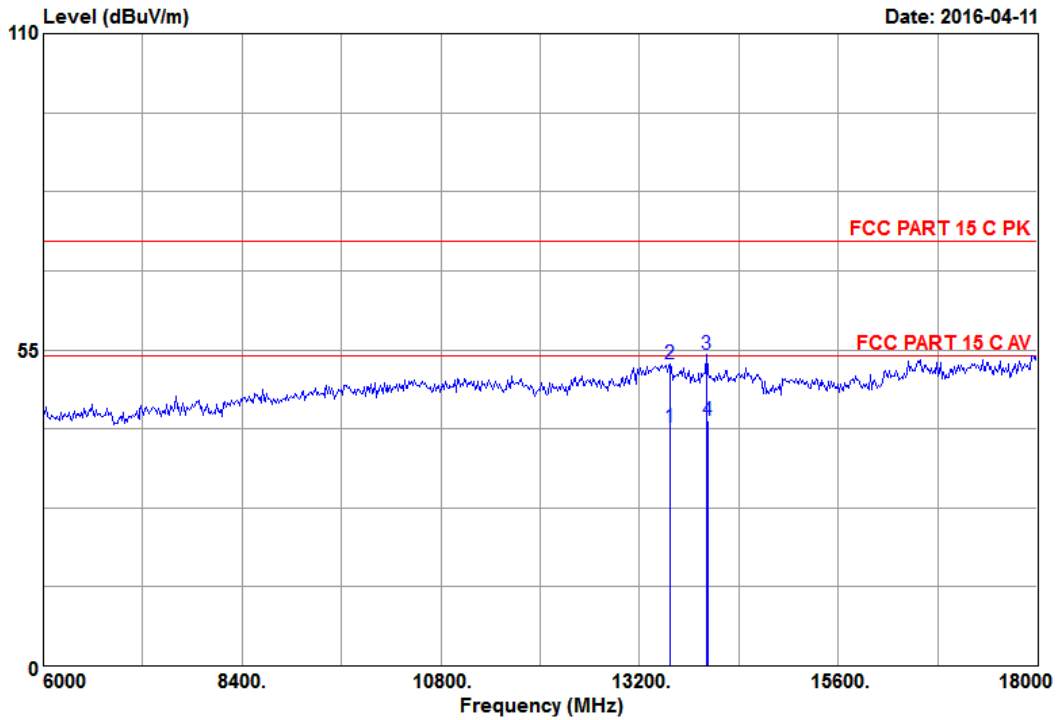
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5170.00	33.47	7.62	87.09	33.91	94.27	74.00	-20.27	Peak

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



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Data: 90 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 90  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH36 5180MHz  
 Memo :

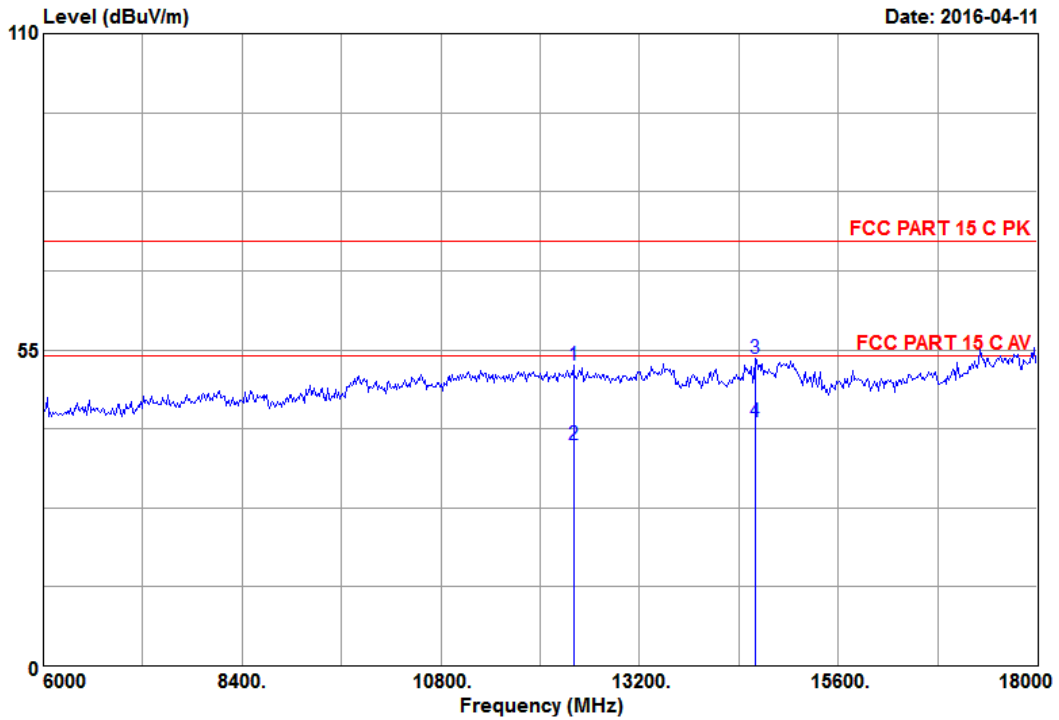
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	13567.71	41.25	12.61	19.60	31.97	41.49	54.00	12.51	Average
2	13568.00	41.25	12.61	30.56	31.97	52.45	74.00	21.55	Peak
3	14016.00	42.21	12.85	30.81	31.59	54.28	74.00	19.72	Peak
4	14020.11	42.21	12.86	19.32	31.63	42.76	54.00	11.24	Average

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



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Data: 92 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH36 5180MHz  
 Memo :  
 Data NO. : 92  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

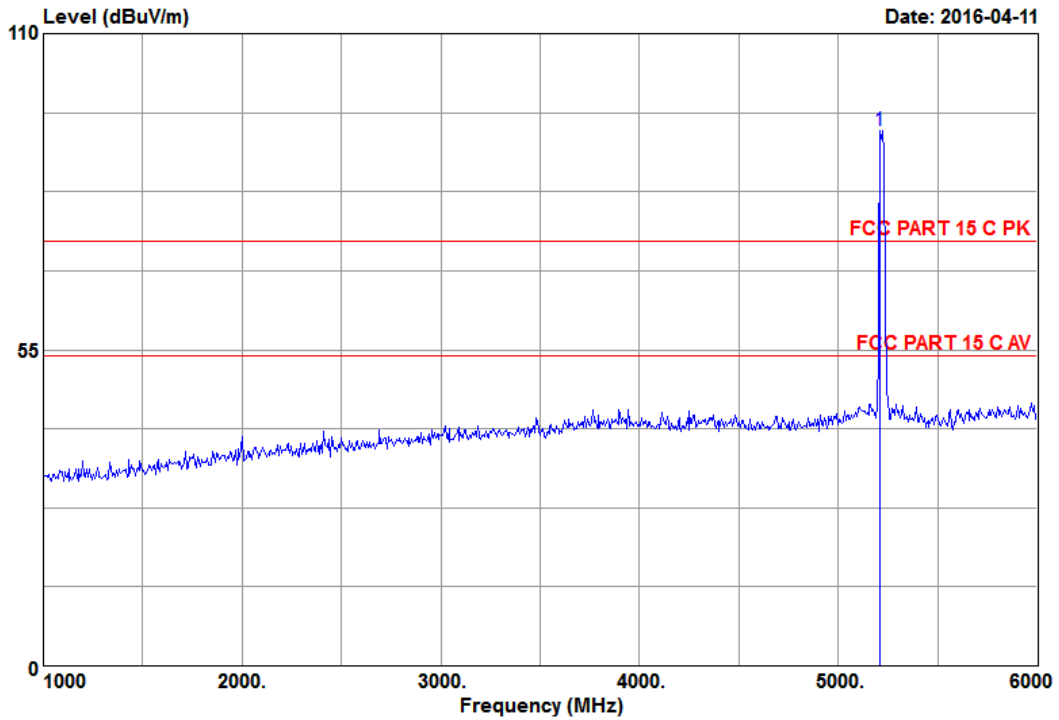
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 12400.00	38.85	11.83	34.85	33.27	52.26	74.00	21.74	Peak
2 12403.35	38.85	11.83	21.15	33.27	38.56	54.00	15.44	Average
3 14592.00	42.28	13.04	30.58	32.42	53.48	74.00	20.52	Peak
4 14593.37	42.28	13.04	19.59	32.42	42.49	54.00	11.51	Average

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



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Data: 93 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 93  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH44 5220MHz  
 Memo :

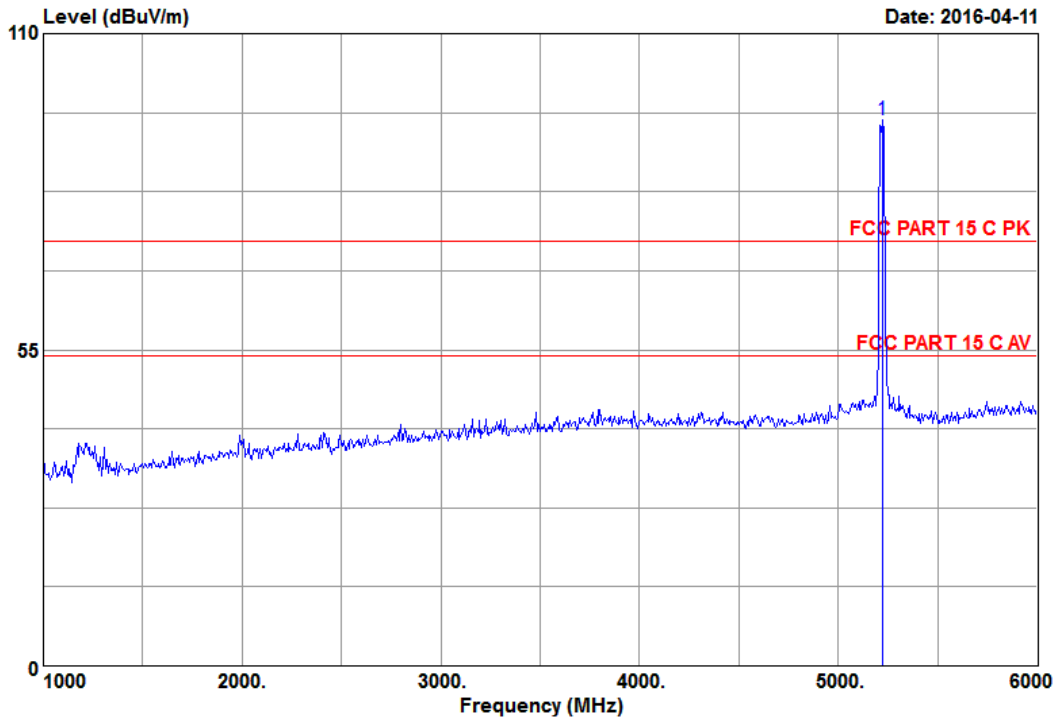
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5212.00	33.55	7.65	85.79	33.91	93.08	74.00	-19.08	Peak

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



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Data: 95 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH44 5220MHz  
 Memo :  
 Data NO. : 95  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

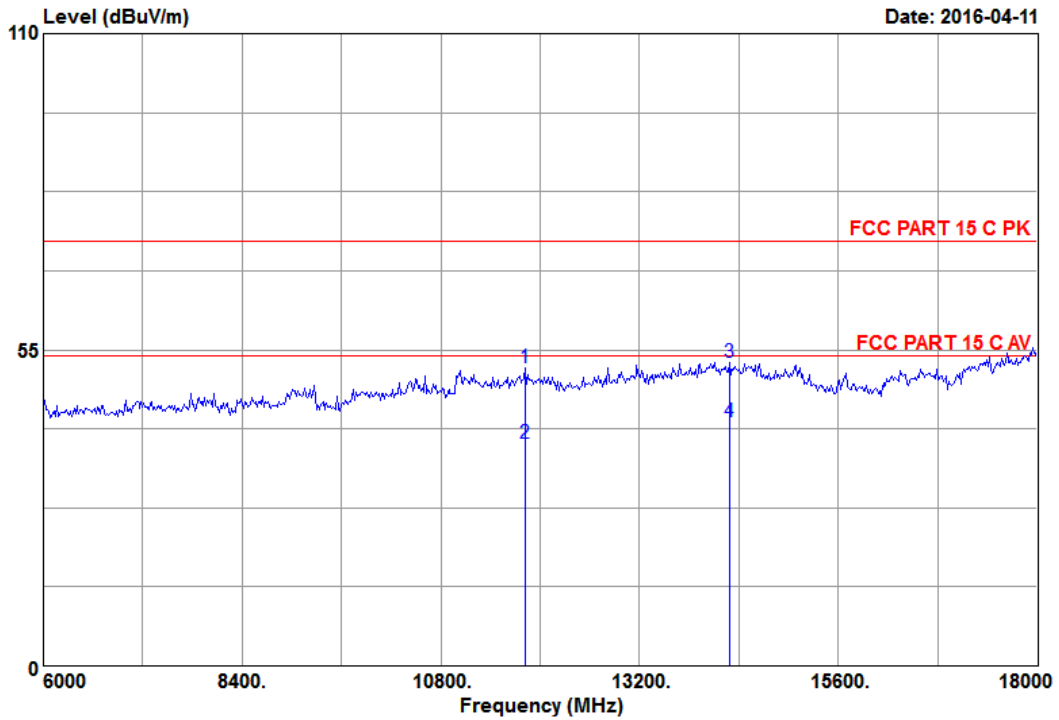
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5224.00	33.55	7.68	87.72	33.91	95.04	74.00	-21.04	Peak

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



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Data: 94 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 94  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH44 5220MHz  
 Memo :

Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 11824.00	39.20	11.48	34.85	33.78	51.75	74.00	22.25	Peak
2 11826.34	39.20	11.48	21.70	33.78	38.60	54.00	15.40	Average
3 14288.00	42.43	12.94	29.45	31.99	52.83	74.00	21.17	Peak
4 14290.17	42.43	12.94	19.07	31.99	42.45	54.00	11.55	Average

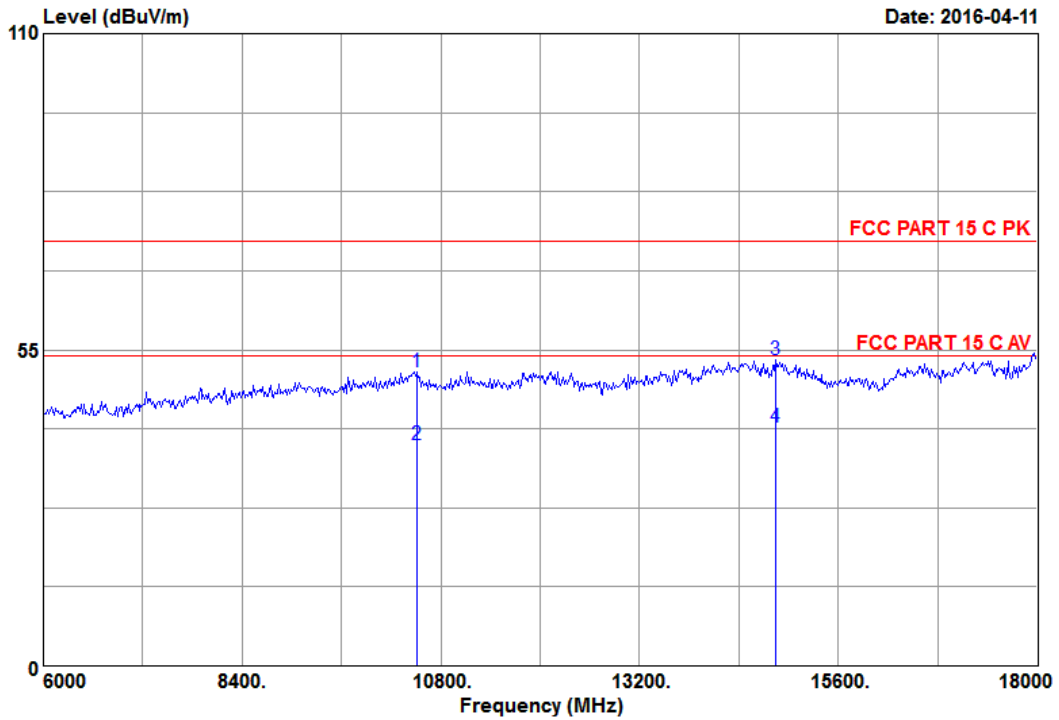
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 96 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 96  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH44 5220MHz  
 Memo :

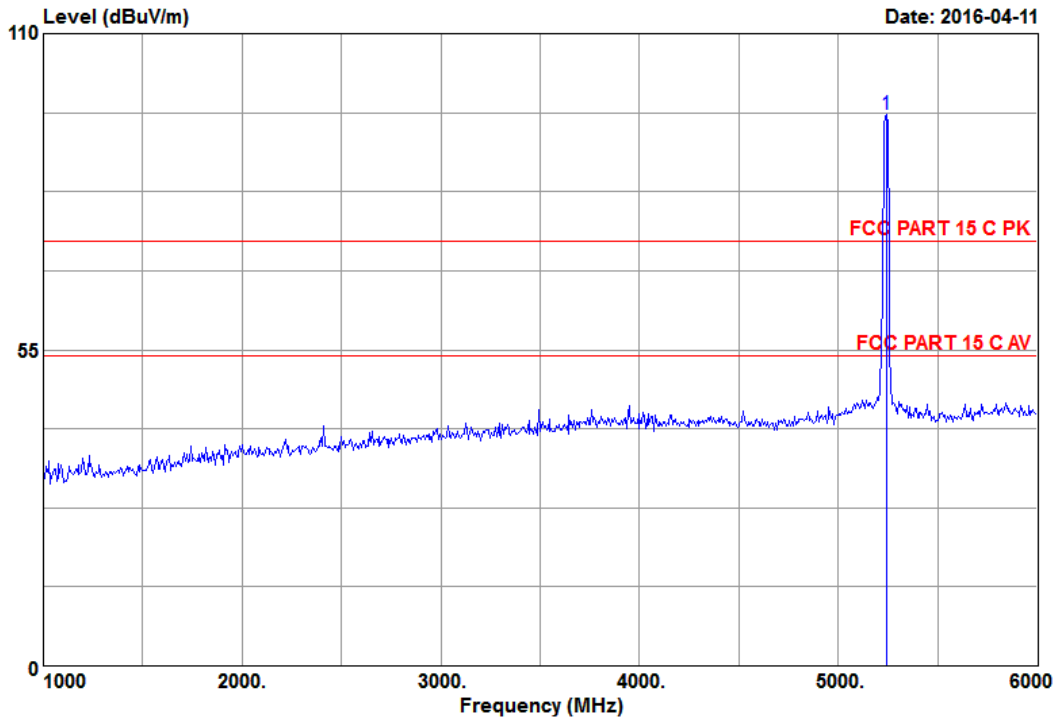
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	10512.00	39.58	11.10	34.51	34.04	51.15	74.00	22.85	Peak
2	10513.39	39.58	11.10	21.79	34.04	38.43	54.00	15.57	Average
3	14848.00	41.48	13.12	31.52	32.78	53.34	74.00	20.66	Peak
4	14850.33	41.48	13.12	19.70	32.78	41.52	54.00	12.48	Average

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



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Data: 97 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 97  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH48 5240MHz  
 Memo :

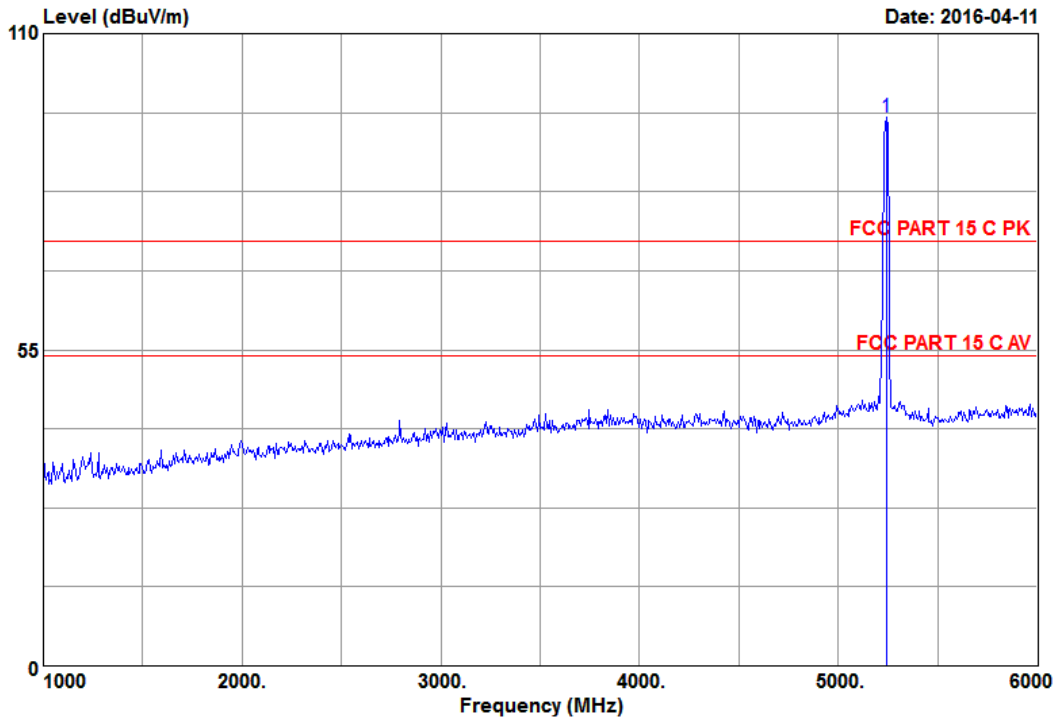
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5242.00	33.60	7.68	88.66	33.91	96.03	74.00	-22.03	Peak

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



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Site NO. : 3m Semi-Anechoic Chamber	Data NO. : 99
Dis. / Ant. : 3m 3115-62960-150630	Ant. pol. : VERTICAL
Limit : FCC PART 15 C PK	Engineer : Mickey
Env. / Ins. : 21.8*C&48%/N9030A	
EUT : TI-nspire CX Wireless Network Adapter v2	
M/N : TINAVWNA2	
Power Rating: DC 3.7V	
Test Mode : TX 802.11nHT20 CH48 5240MHz	
Memo :	

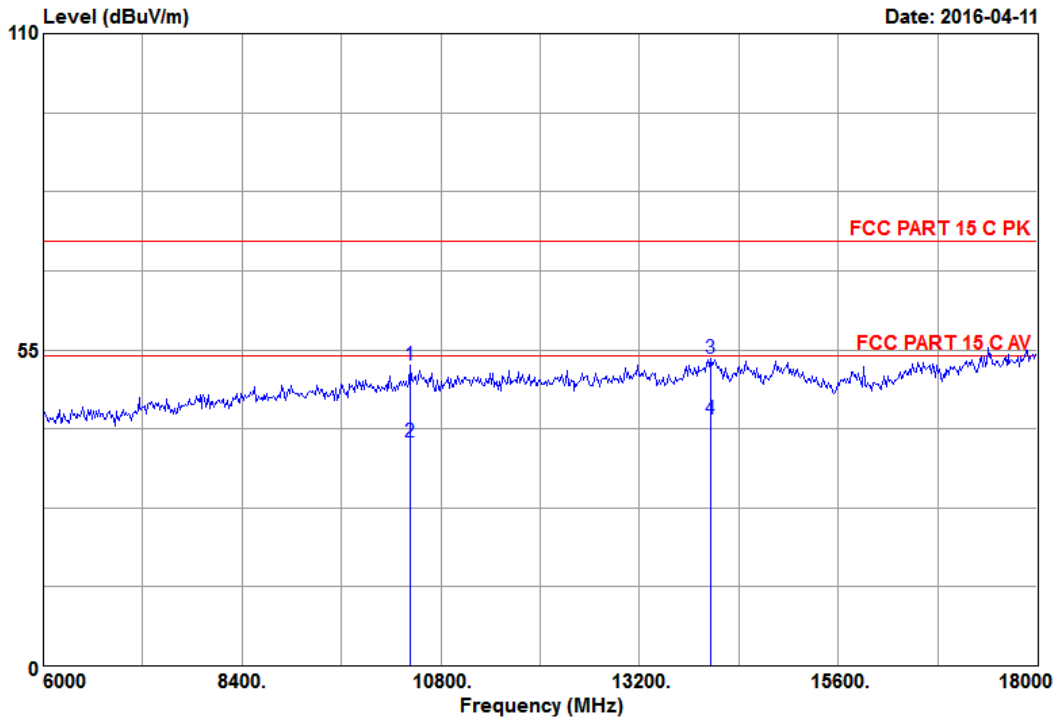
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5242.00	33.60	7.68	88.08	33.91	95.45	74.00	-21.45	Peak

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



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Data: 98 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 98  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH48 5240MHz  
 Memo :

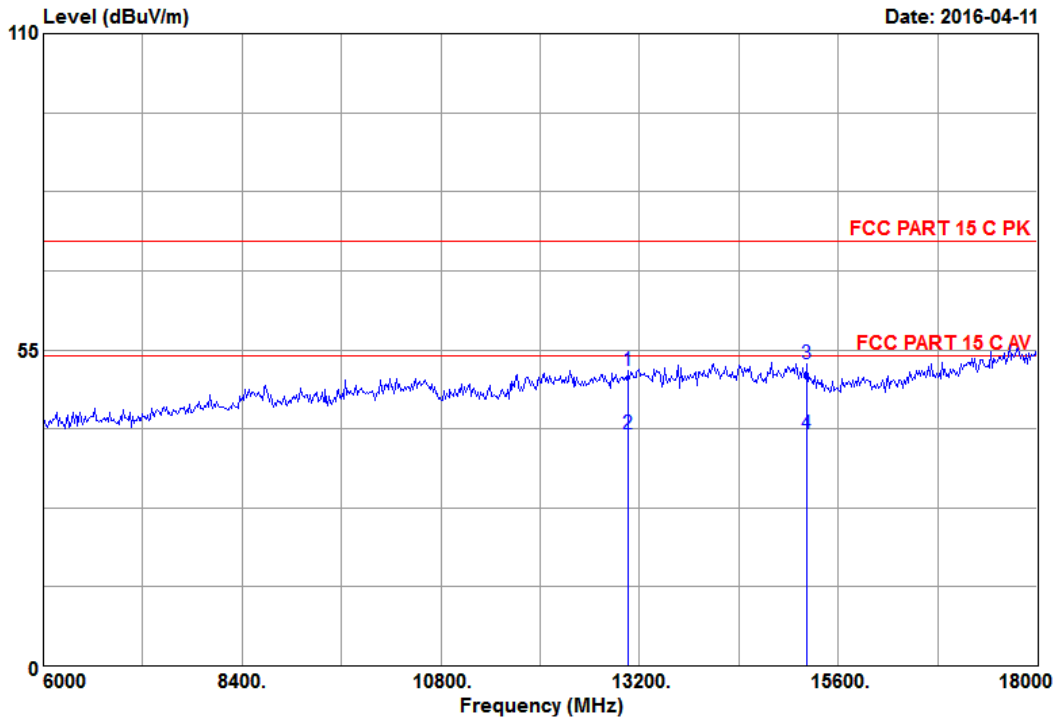
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 10432.00	39.49	11.06	35.87	34.11	52.31	74.00	21.69	Peak
2 10433.61	39.49	11.06	22.62	34.11	39.06	54.00	14.94	Average
3 14064.00	42.24	12.87	30.12	31.66	53.57	74.00	20.43	Peak
4 14066.27	42.26	12.87	19.52	31.66	42.99	54.00	11.01	Average

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



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Data: 100 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 100  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH48 5240MHz  
 Memo :

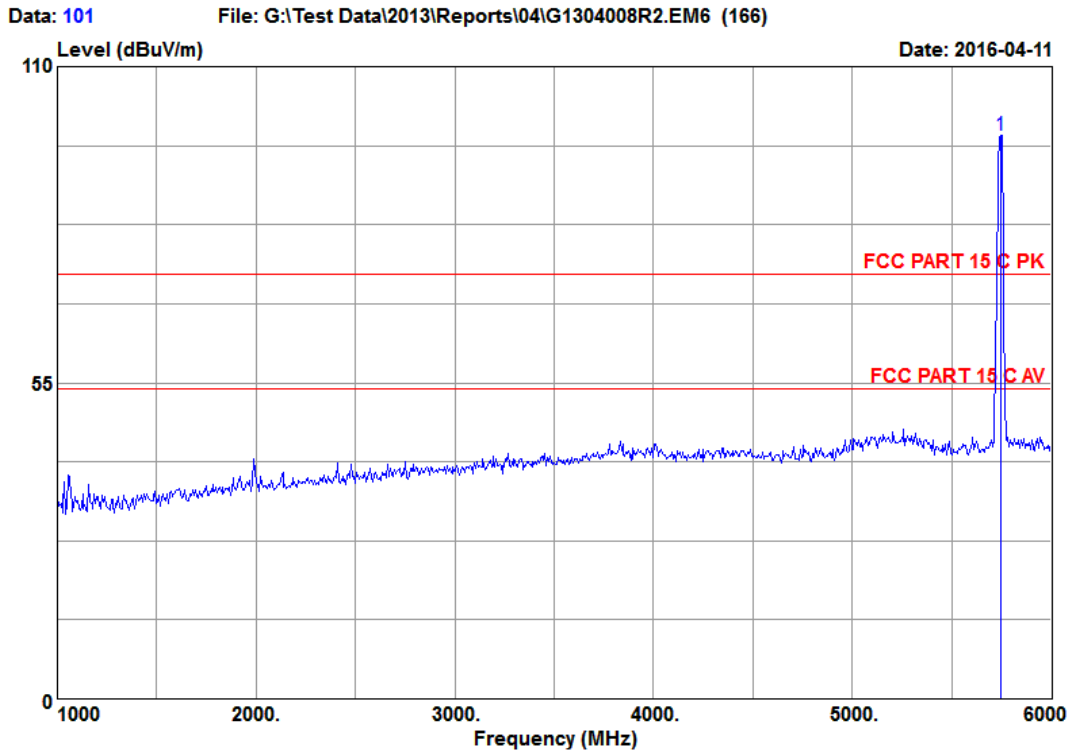
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 13056.00	40.02	12.34	31.36	32.42	51.30	74.00	22.70	Peak
2 13060.14	40.02	12.34	20.36	32.42	40.30	54.00	13.70	Average
3 15216.00	39.84	13.44	32.49	33.20	52.57	74.00	21.43	Peak
4 15220.34	39.84	13.47	20.32	33.23	40.40	54.00	13.60	Average

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

4.7.3. Type of Network : IEEE 802.11a



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Site NO. : 3m Semi-Anechoic Chamber Data NO. : 101  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*CS&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M-N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH149 5745MHz  
 Memo :

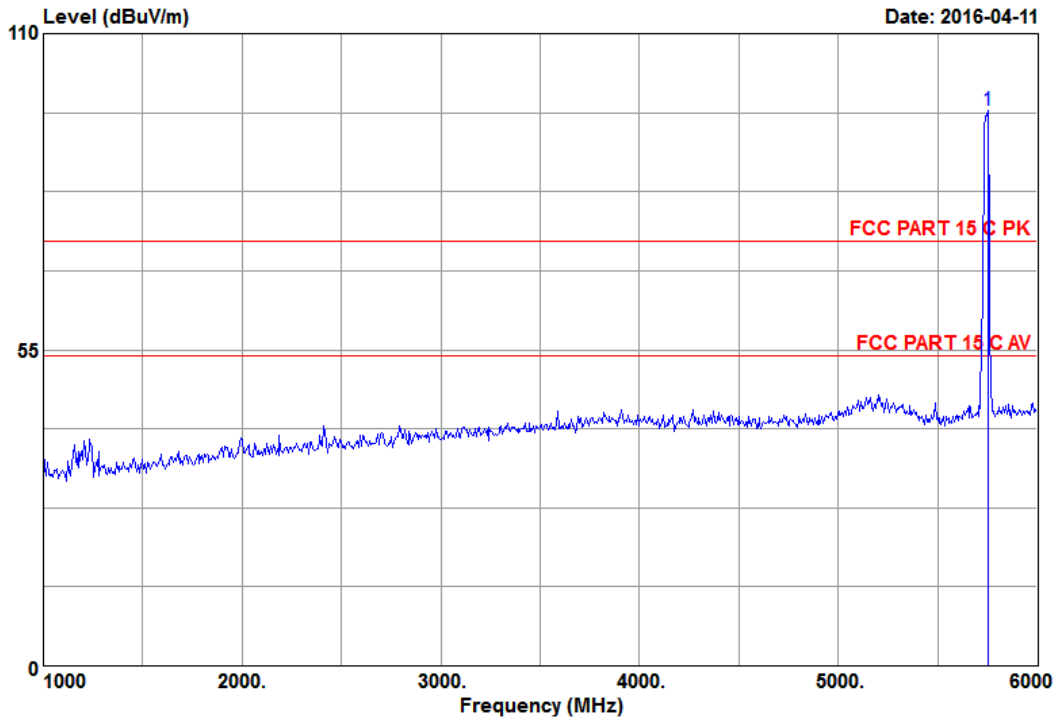
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5746.00	34.10	8.26	89.54	33.90	98.00	74.00	-24.00	Peak

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



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Data: 103 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH149 5745MHz  
 Memo :  
 Data NO. : 103  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

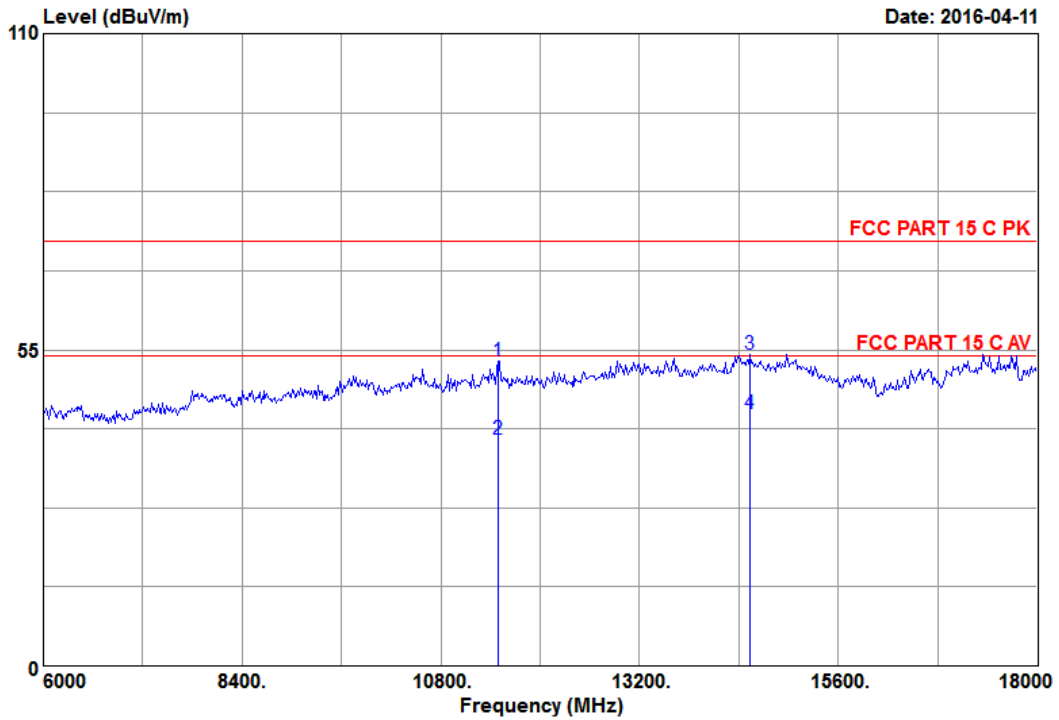
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5752.00	34.10	8.26	88.28	33.90	96.74	74.00	-22.74	Peak

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



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Data: 102 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 102  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH149 5745MHz  
 Memo :

Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 11488.00	39.39	11.42	35.99	33.72	53.08	74.00	20.92	Peak
2 11489.37	39.39	11.42	22.31	33.72	39.40	54.00	14.60	Average
3 14528.00	42.49	13.02	31.09	32.35	54.25	74.00	19.75	Peak
4 14530.17	42.49	13.02	20.61	32.35	43.77	54.00	10.23	Average

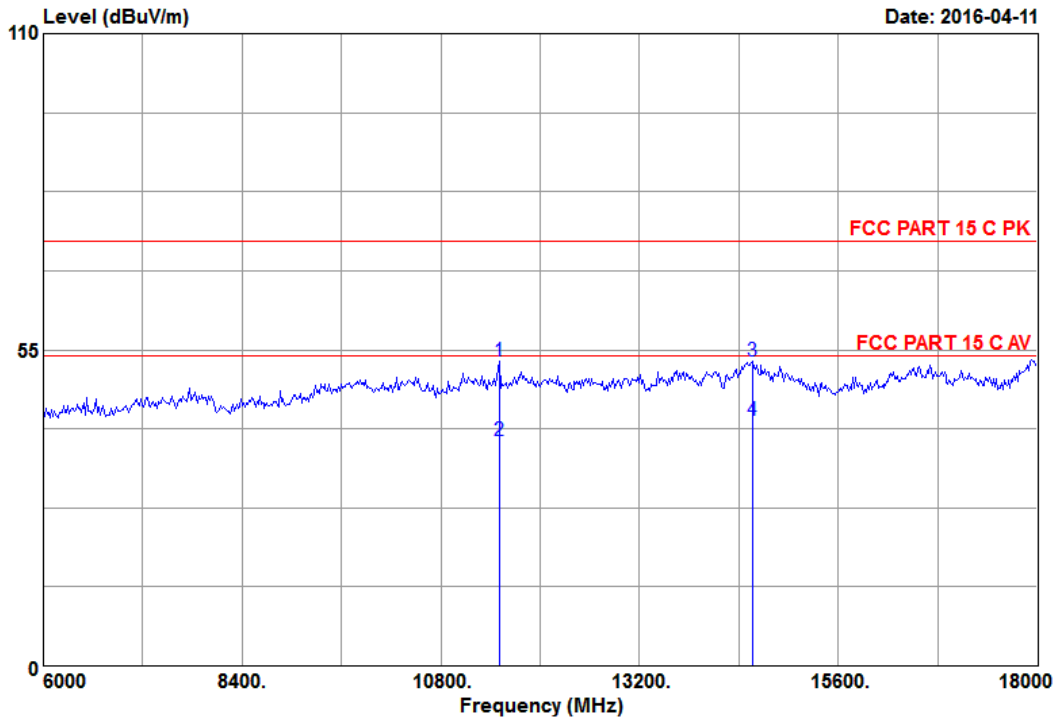
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 104 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 104  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH149 5745MHz  
 Memo :

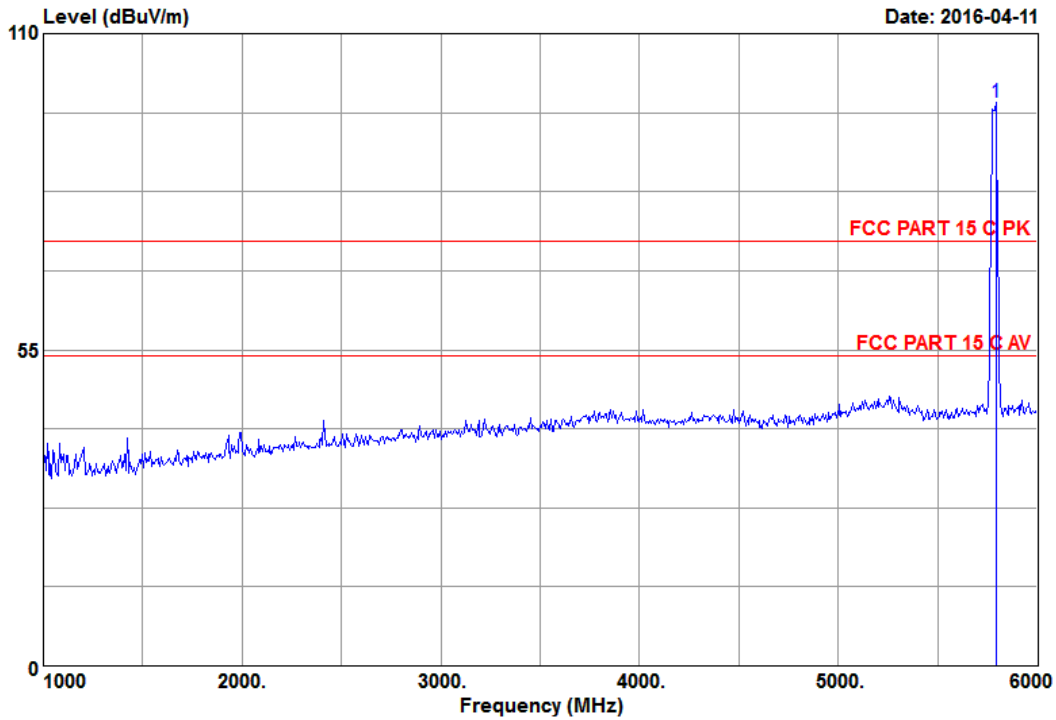
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11504.00	39.40	11.43	35.87	33.73	52.97	74.00	21.03	Peak
2	11507.19	39.40	11.43	22.14	33.73	39.24	54.00	14.76	Average
3	14560.00	42.39	13.03	29.96	32.39	52.99	74.00	21.01	Peak
4	14561.79	42.39	13.03	19.60	32.39	42.63	54.00	11.37	Average

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



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Data: 105 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber	Data NO. : 105
Dis. / Ant. : 3m 3115-62960-150630	Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C PK	Engineer : Mickey
Env. / Ins. : 21.8*C&48%/N9030A	
EUT : TI-nspire CX Wireless Network Adapter v2	
M/N : TINAVWNA2	
Power Rating: DC 3.7V	
Test Mode : TX 802.11a CH157 5785MHz	
Memo :	

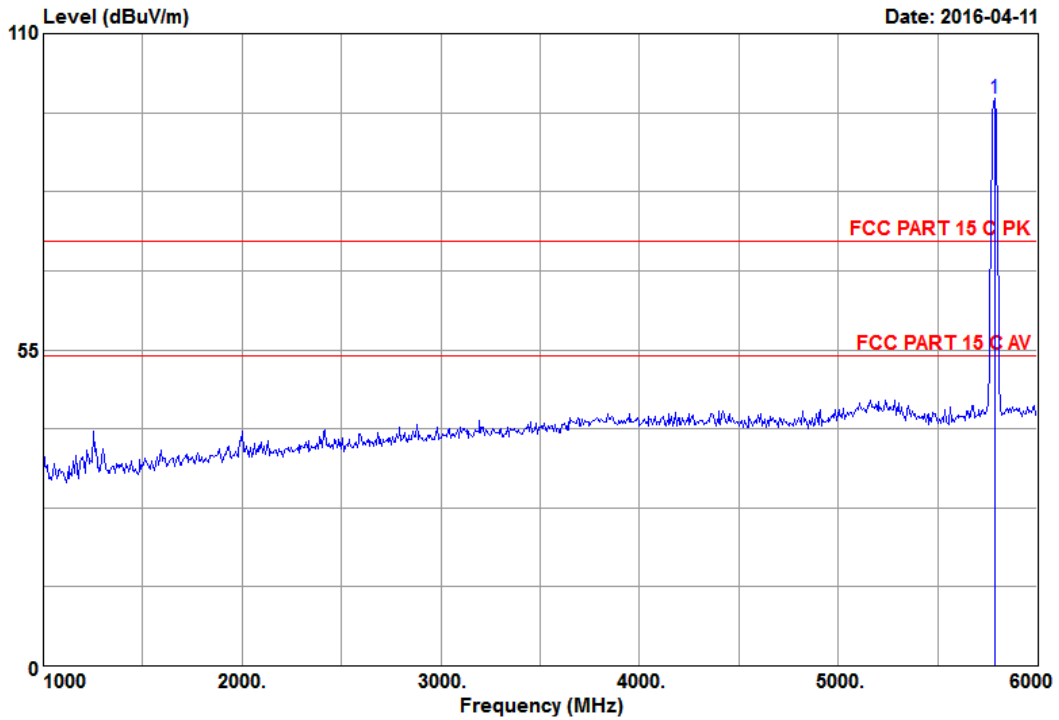
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5794.00	34.12	8.32	89.50	33.90	98.04	74.00	-24.04	Peak

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



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Data: 107 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH157 5785MHz  
 Memo :  
 Data NO. : 107  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

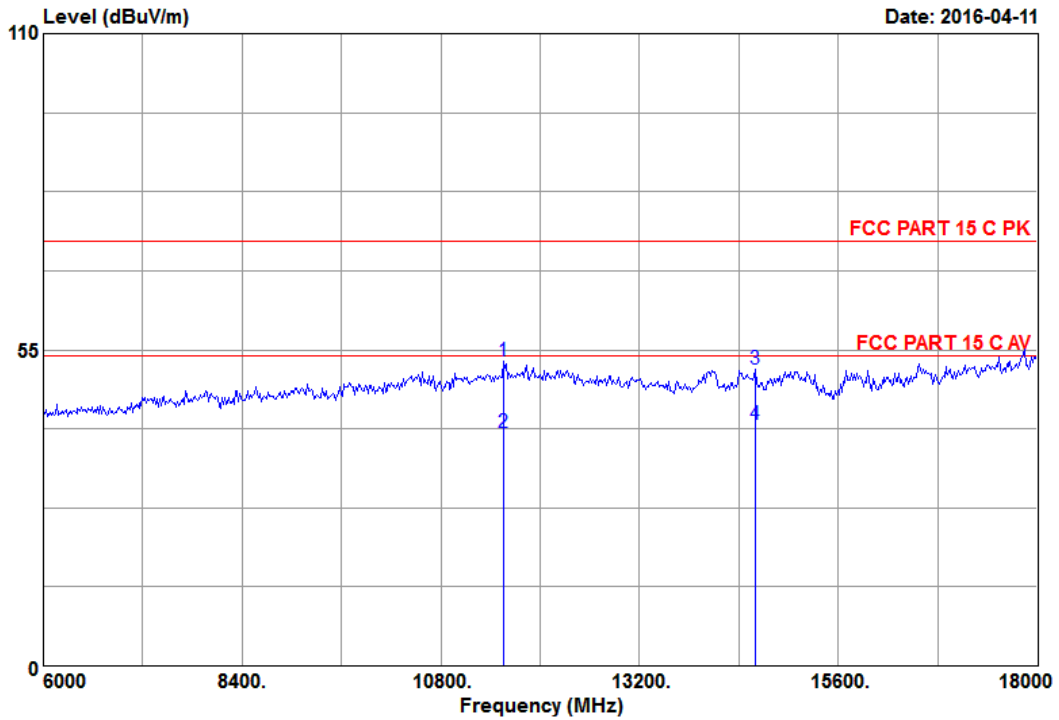
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5788.00	34.12	8.32	90.23	33.90	98.77	74.00	-24.77	Peak

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



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Data: 106 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 106  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH157 5785MHz  
 Memo :

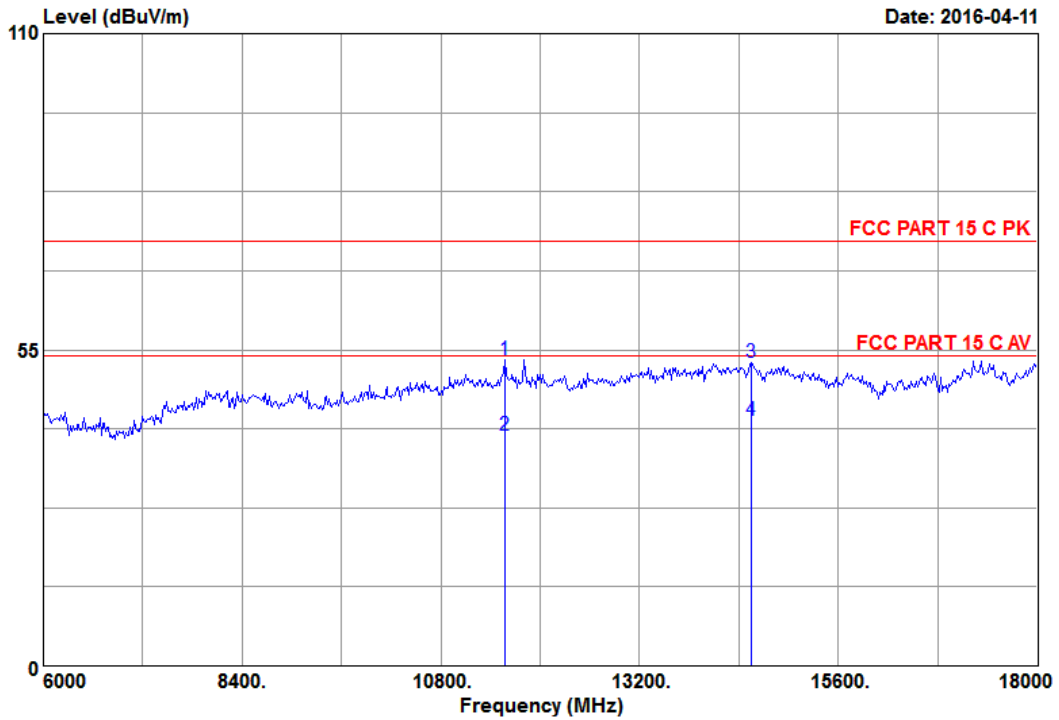
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11552.00	39.37	11.44	36.05	33.74	53.12	74.00	20.88	Peak
2	11553.61	39.37	11.44	23.60	33.74	40.67	54.00	13.33	Average
3	14592.00	42.28	13.04	28.78	32.42	51.68	74.00	22.32	Peak
4	14593.78	42.28	13.04	19.05	32.42	41.95	54.00	12.05	Average

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



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Data: 108 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 108  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH157 5785MHz  
 Memo :

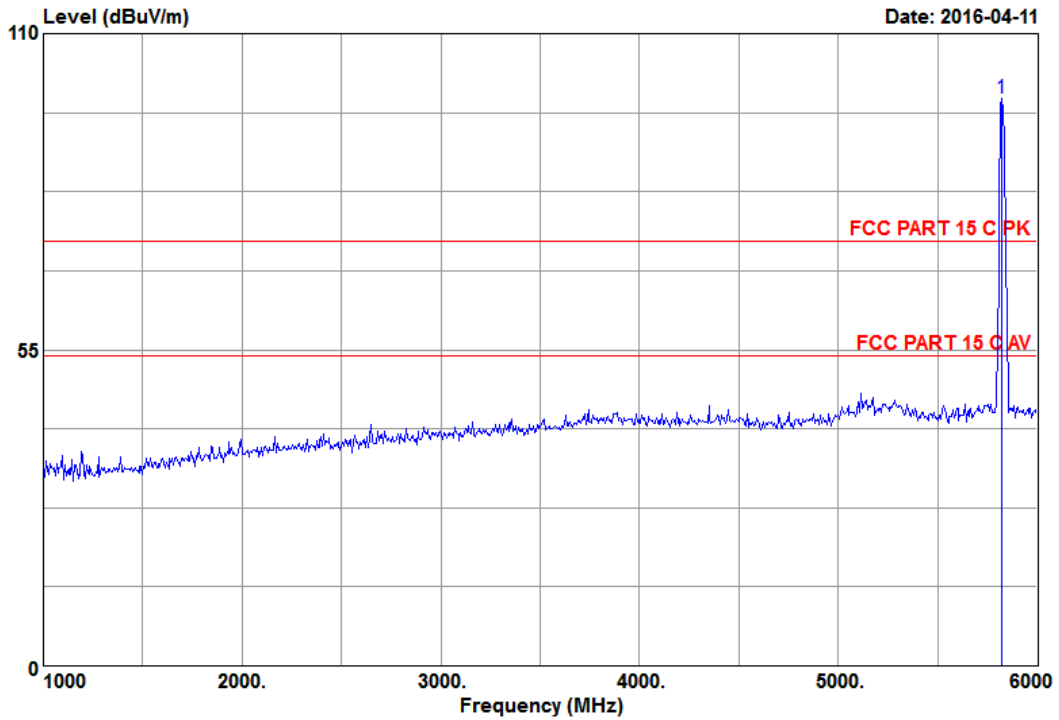
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 11568.00	39.36	11.44	36.26	33.74	53.32	74.00	20.68	Peak
2 11570.18	39.36	11.44	23.17	33.74	40.23	54.00	13.77	Average
3 14544.00	42.44	13.02	29.67	32.35	52.78	74.00	21.22	Peak
4 14545.12	42.44	13.02	19.61	32.35	42.72	54.00	11.28	Average

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



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Data: 109 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH165 5825MHz  
 Memo :  
 Data NO. : 109  
 Ant. pol. : HORIZONTAL  
 Engineer : Mickey

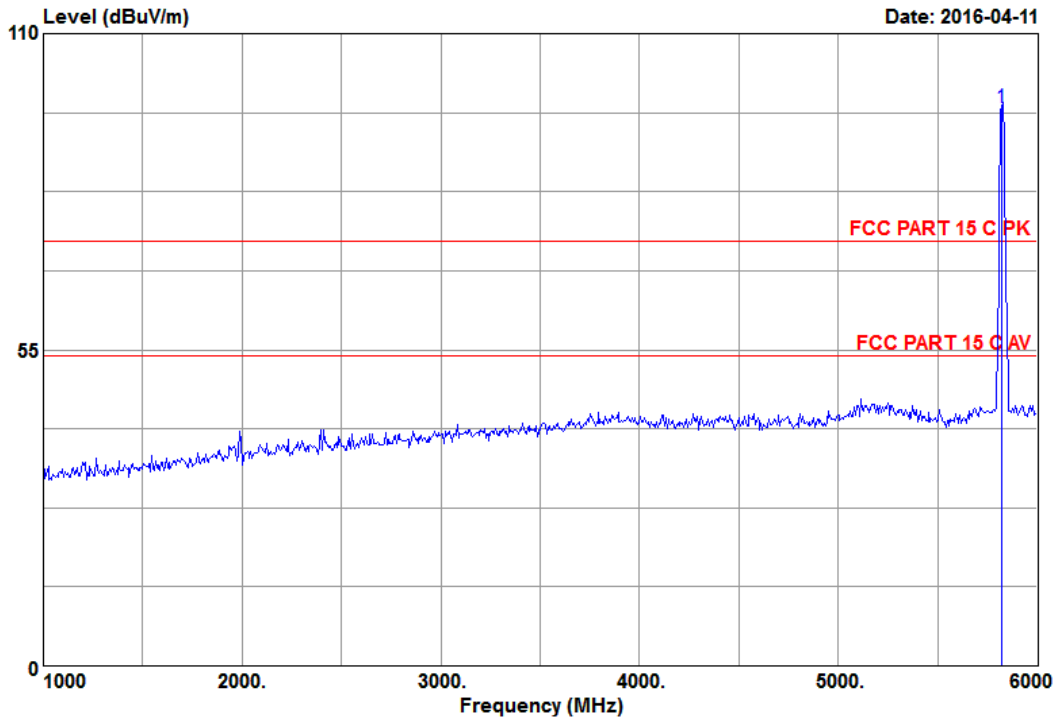
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5824.00	34.13	8.35	90.27	33.90	98.85	74.00	-24.85	Peak

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



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Data: 111 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH165 5825MHz  
 Memo :  
 Data NO. : 111  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

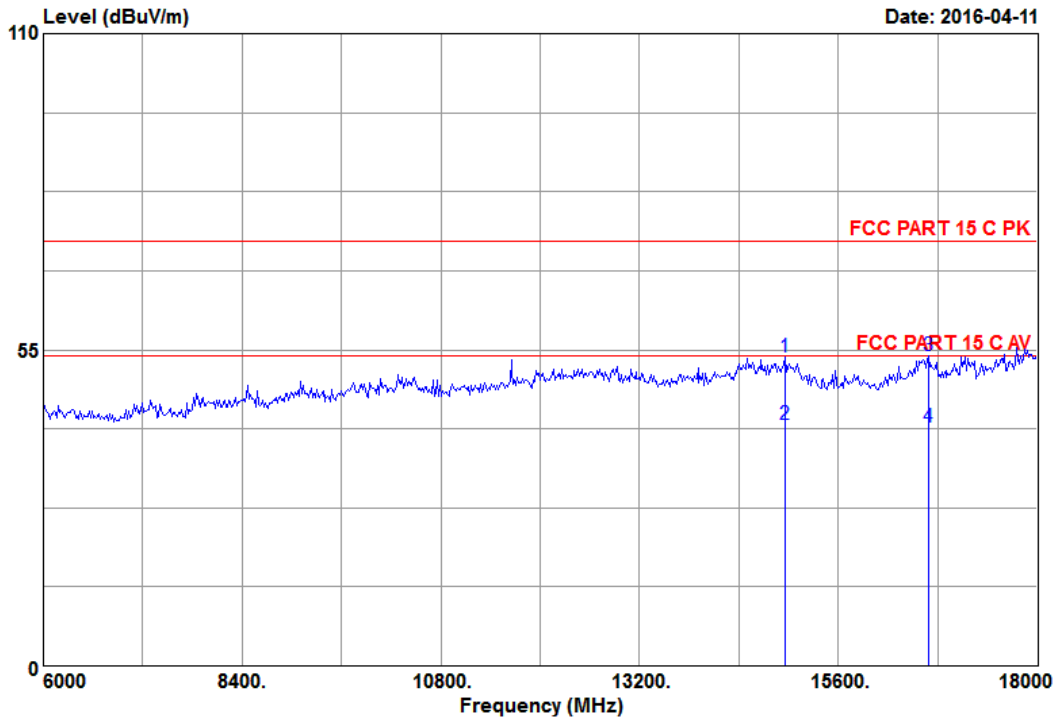
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5824.00	34.13	8.35	88.44	33.90	97.02	74.00	-23.02	Peak

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



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Data: 110 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 110  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH165 5825MHz  
 Memo :

Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 14960.00	41.16	13.15	32.36	32.93	53.74	74.00	20.26	Peak
2 14961.97	41.16	13.16	20.69	32.96	42.05	54.00	11.95	Average
3 16688.00	40.11	14.09	32.87	33.18	53.89	74.00	20.11	Peak
4 16689.33	40.11	14.09	20.46	33.18	41.48	54.00	12.52	Average

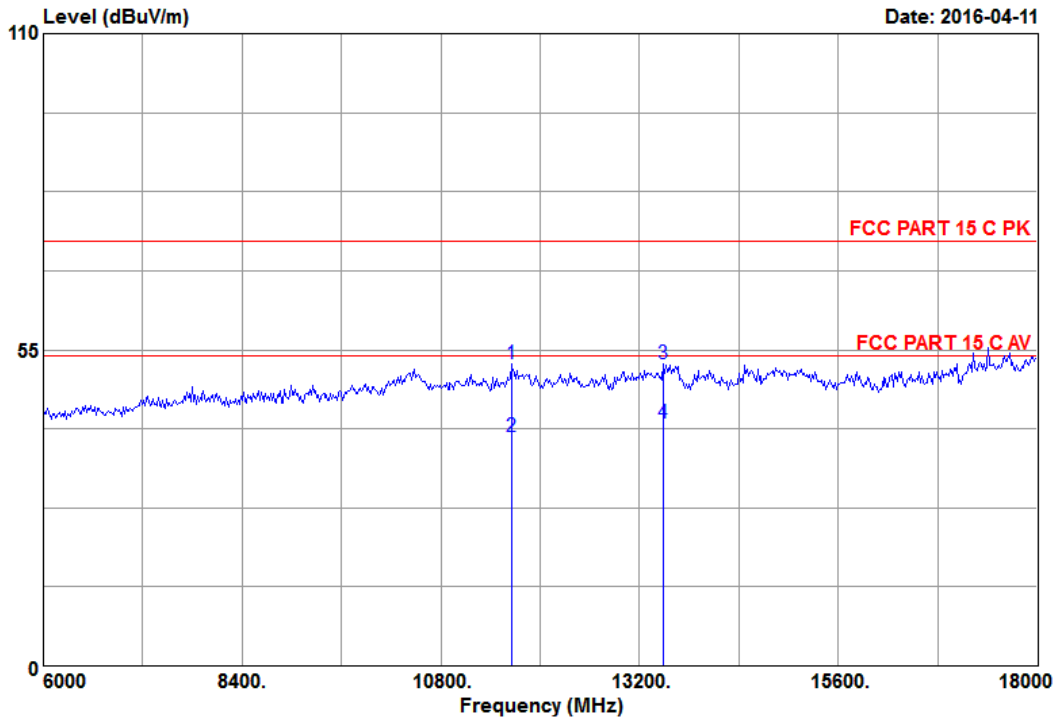
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 112 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH165 5825MHz  
 Memo :  
 Data NO. : 112  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

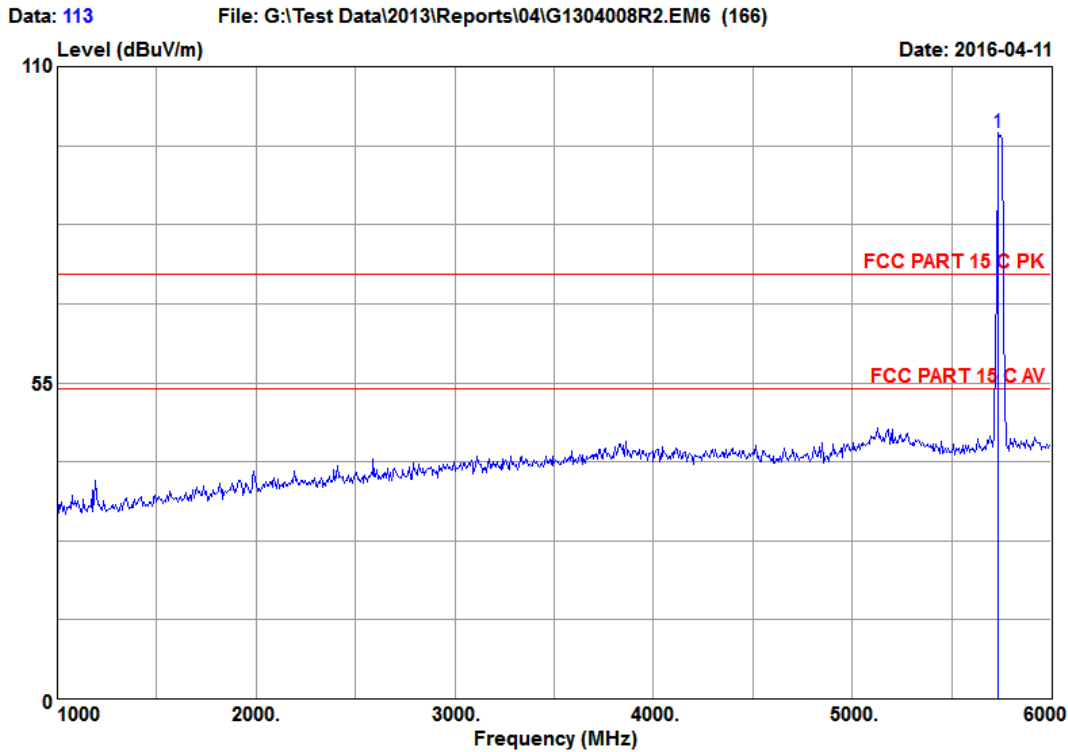
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 11648.00	39.32	11.45	35.53	33.75	52.55	74.00	21.45	Peak
2 11650.12	39.32	11.45	22.78	33.75	39.80	54.00	14.20	Average
3 13488.00	41.10	12.57	30.82	32.04	52.45	74.00	21.55	Peak
4 13490.13	41.10	12.57	20.52	32.04	42.15	54.00	11.85	Average

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

4.7.4. Type of Network : IEEE 802.11n HT20



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Site NO. : 3m Semi-Anechoic Chamber Data NO. : 113  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*CS&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M-N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH149 5745MHz  
 Memo :

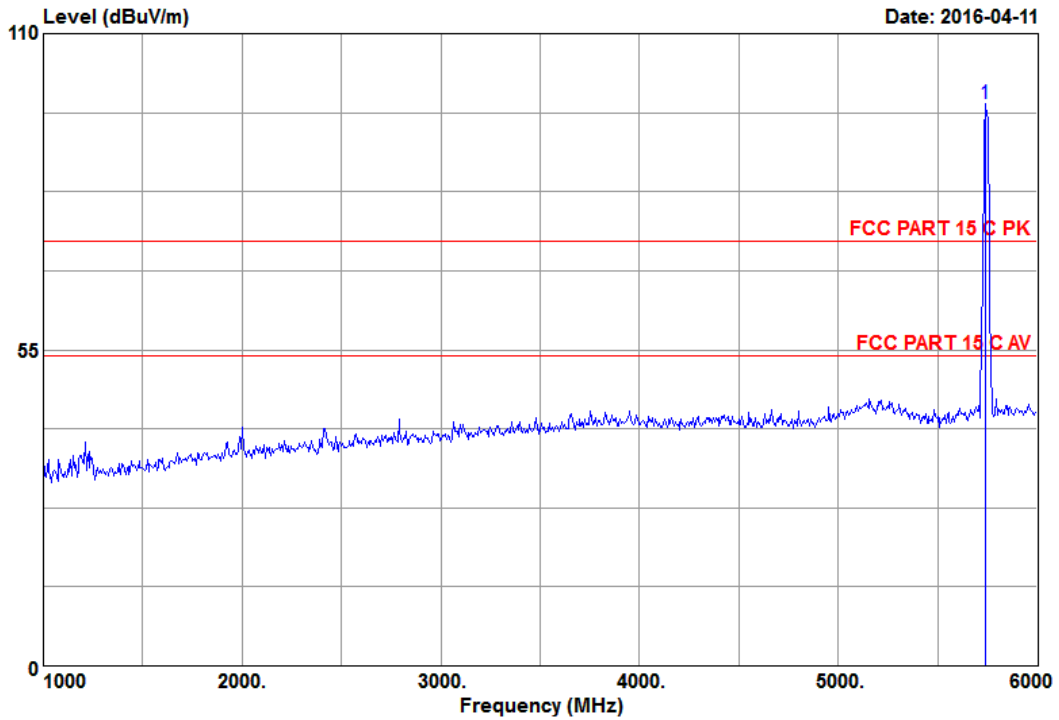
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5734.00	34.09	8.26	90.05	33.90	98.50	74.00	-24.50	Peak

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



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Data: 115 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 115  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH149 5745MHz  
 Memo :

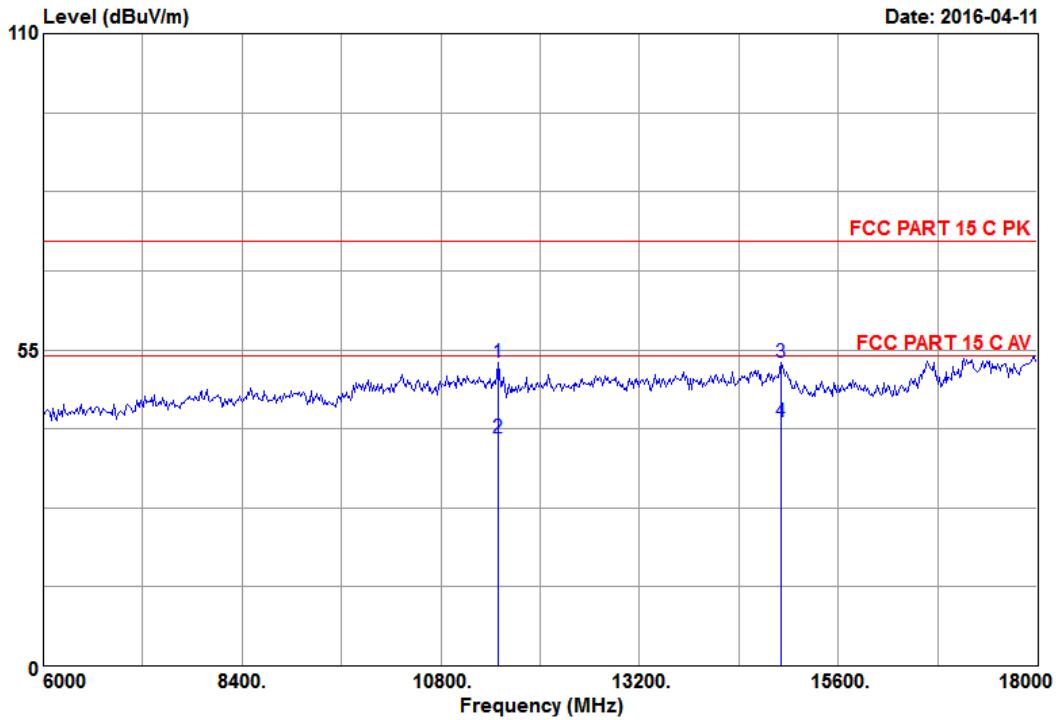
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5740.00	34.10	8.26	89.24	33.90	97.70	74.00	-23.70	Peak

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



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Data: 114 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Date: 2016-04-11

Site NO. : 3m Semi-Anechoic Chamber Data NO. : 114  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH149 5745MHz  
 Memo :

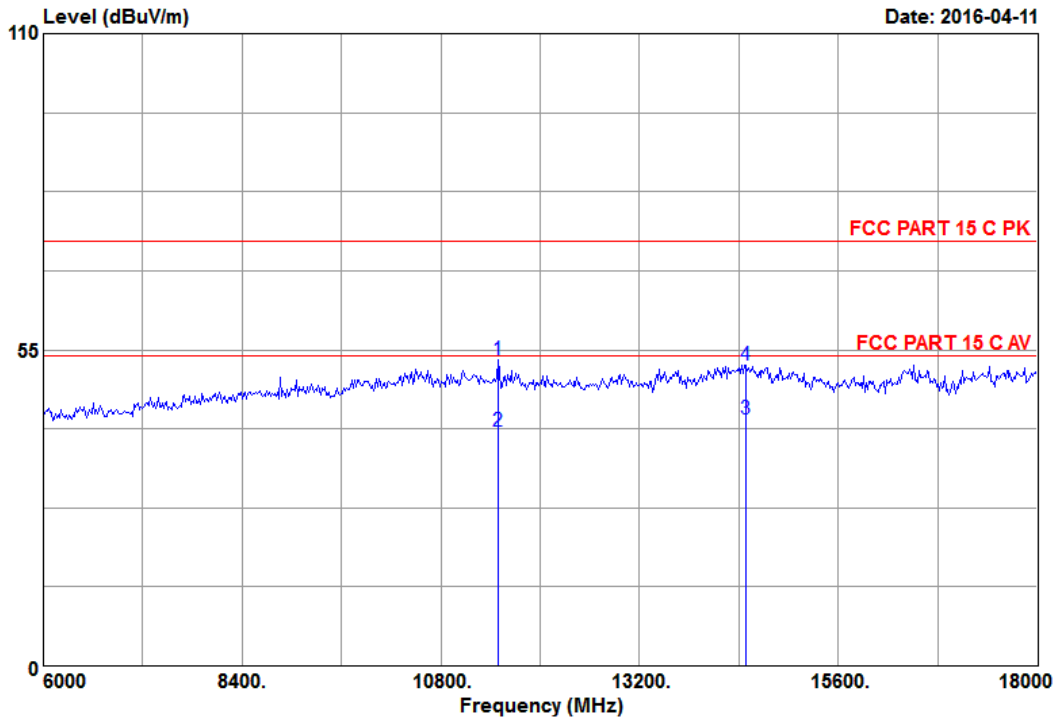
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	11488.00	39.39	11.42	35.74	33.72	52.83	74.00	21.17	Peak
2	11489.60	39.39	11.42	22.50	33.72	39.59	54.00	14.41	Average
3	14912.00	41.32	13.15	31.14	32.89	52.72	74.00	21.28	Peak
4	14915.36	41.27	13.15	20.91	32.89	42.44	54.00	11.56	Average

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



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Data: 116 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 116  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH149 5745MHz  
 Memo :

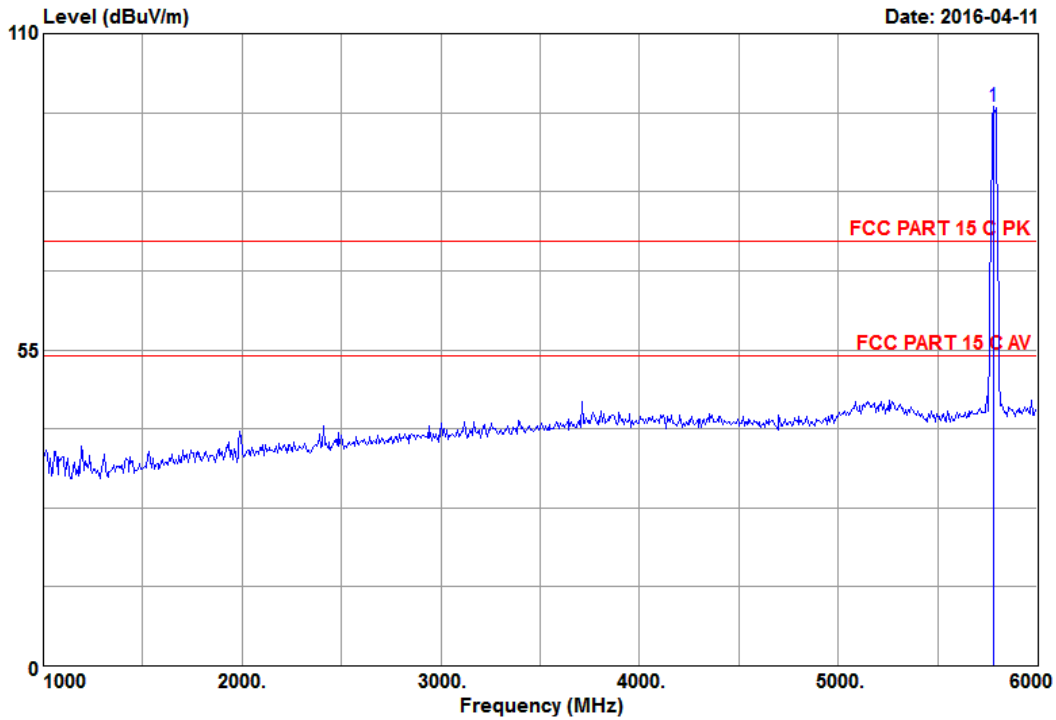
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 11488.00	39.39	11.42	36.15	33.72	53.24	74.00	20.76	Peak
2 11490.22	39.39	11.42	23.69	33.72	40.78	54.00	13.22	Average
3 14479.69	42.59	13.01	19.55	32.28	42.87	54.00	11.13	Average
4 14480.00	42.59	13.01	29.01	32.28	52.33	74.00	21.67	Peak

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



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Data: 117 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 117  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH157 5785MHz  
 Memo :

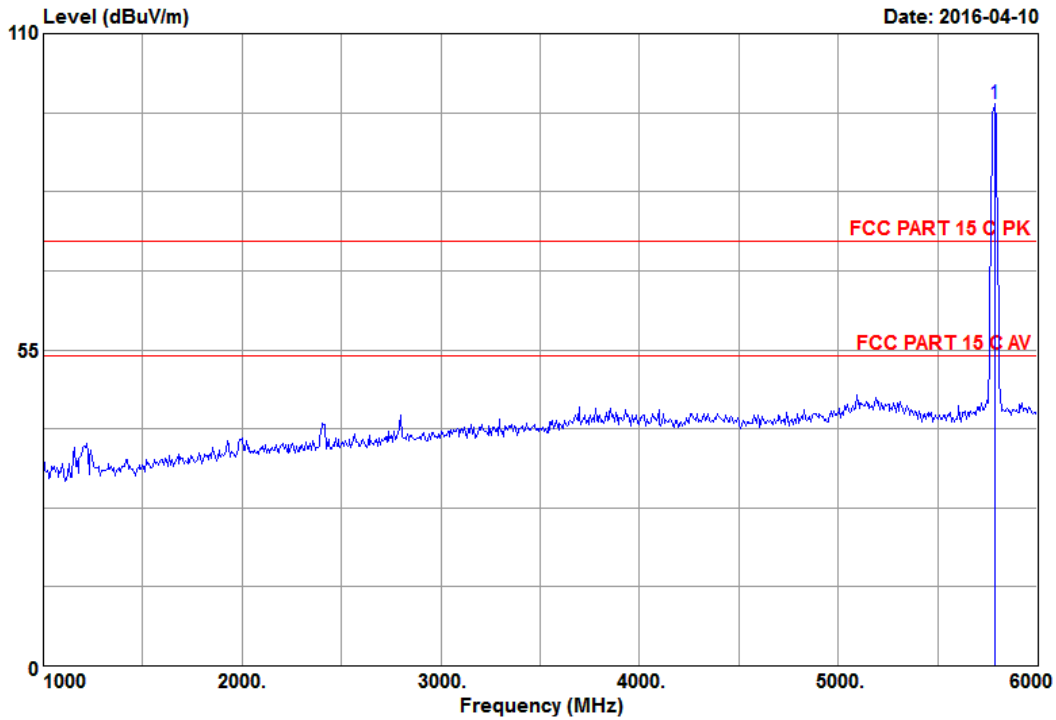
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5782.00	34.11	8.32	88.86	33.90	97.39	74.00	-23.39	Peak

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



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Data: 119 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 119  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX navigator access point  
 M/N : TINAVAP3-2  
 Power Rating: DC 5V  
 Test Mode : TX 802.11nHT20 CH157 5785MHz  
 Memo :

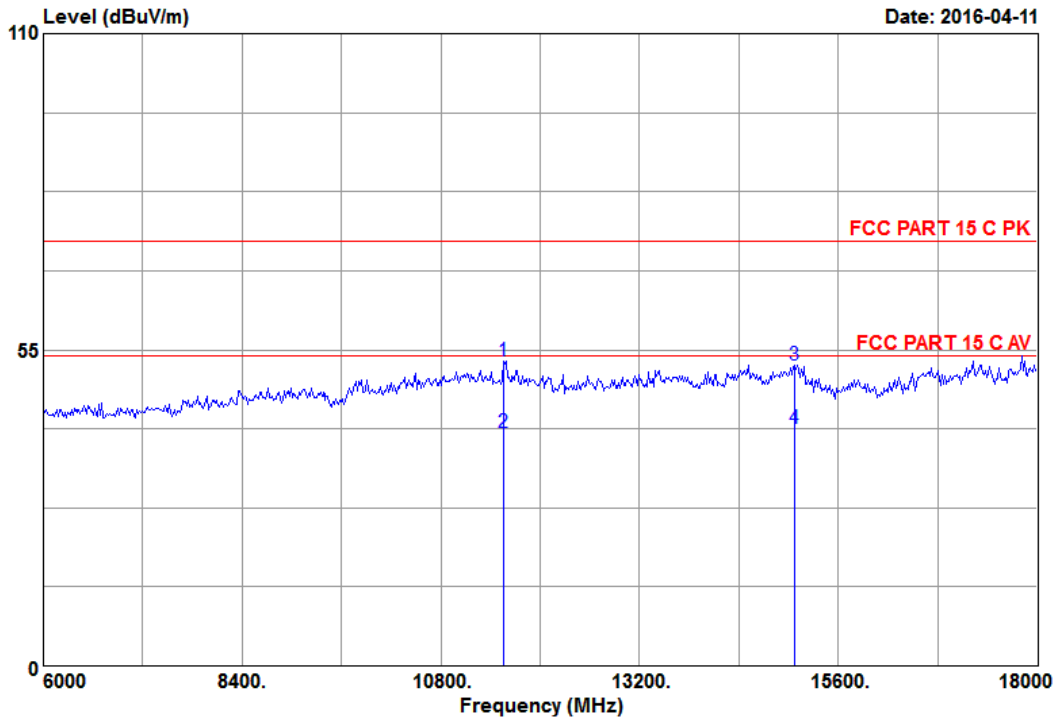
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5788.00	34.12	8.32	89.24	33.90	97.78	74.00	-23.78	Peak

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



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Data: 118 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 118  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH157 5785MHz  
 Memo :

Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 11552.00	39.37	11.44	35.89	33.74	52.96	74.00	21.04	Peak
2 11553.98	39.37	11.44	23.40	33.74	40.47	54.00	13.53	Average
3 15072.00	40.61	13.27	31.56	33.08	52.36	74.00	21.64	Peak
4 15079.81	40.61	13.27	20.56	33.08	41.36	54.00	12.64	Average

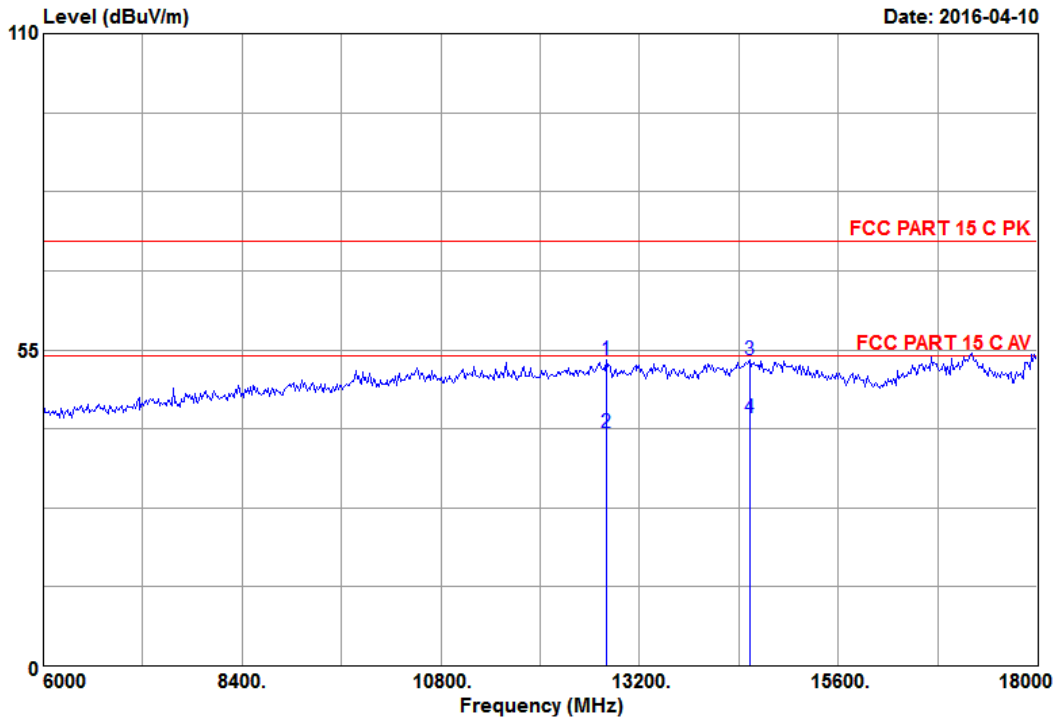
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 120 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 120  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX navigator access point  
 M/N : TINAVAP3-2  
 Power Rating: DC 5V  
 Test Mode : TX 802.11nHT20 CH157 5785MHz  
 Memo :

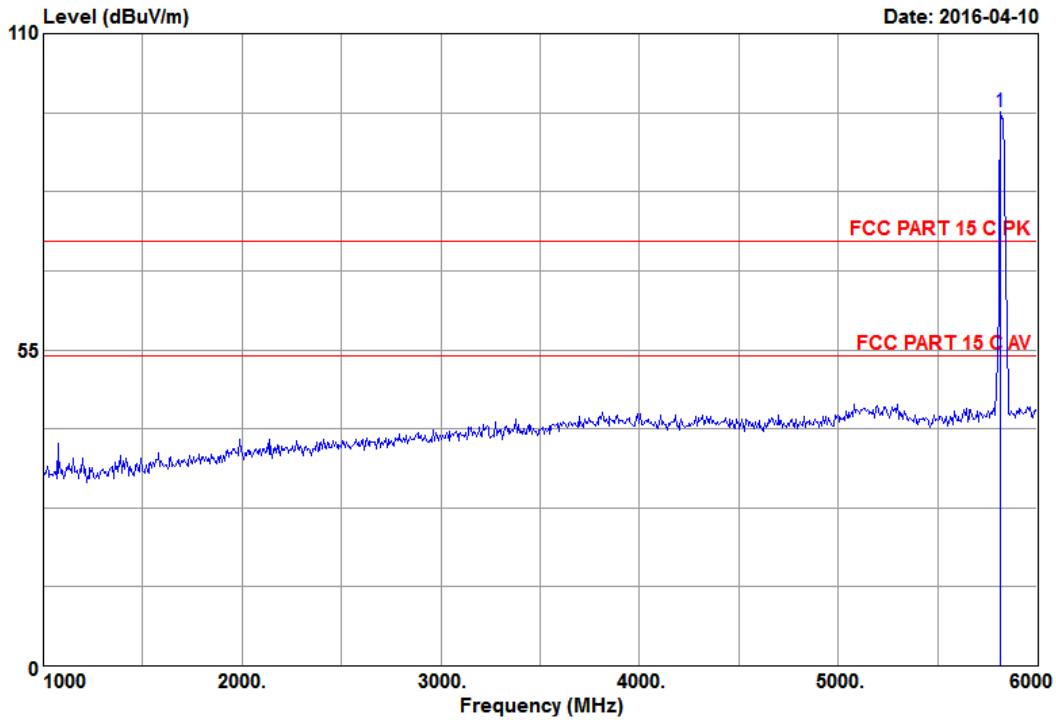
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 12800.00	39.46	12.15	34.39	32.73	53.27	74.00	20.73	Peak
2 12803.33	39.46	12.15	21.69	32.73	40.57	54.00	13.43	Average
3 14528.00	42.49	13.02	30.13	32.35	53.29	74.00	20.71	Peak
4 14530.19	42.49	13.02	20.00	32.35	43.16	54.00	10.84	Average

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



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Data: 121 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber	Data NO. : 121
Dis. / Ant. : 3m 3115-62960-150630	Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C PK	
Env. / Ins. : 21.8*C&48%/N9030A	Engineer : Mickey
EUT : TI-nspire CX navigator access point	
M/N : TINAVAP3-2	
Power Rating: DC 5V	
Test Mode : TX 802.11nHT20 CH165 5825MHz	
Memo :	

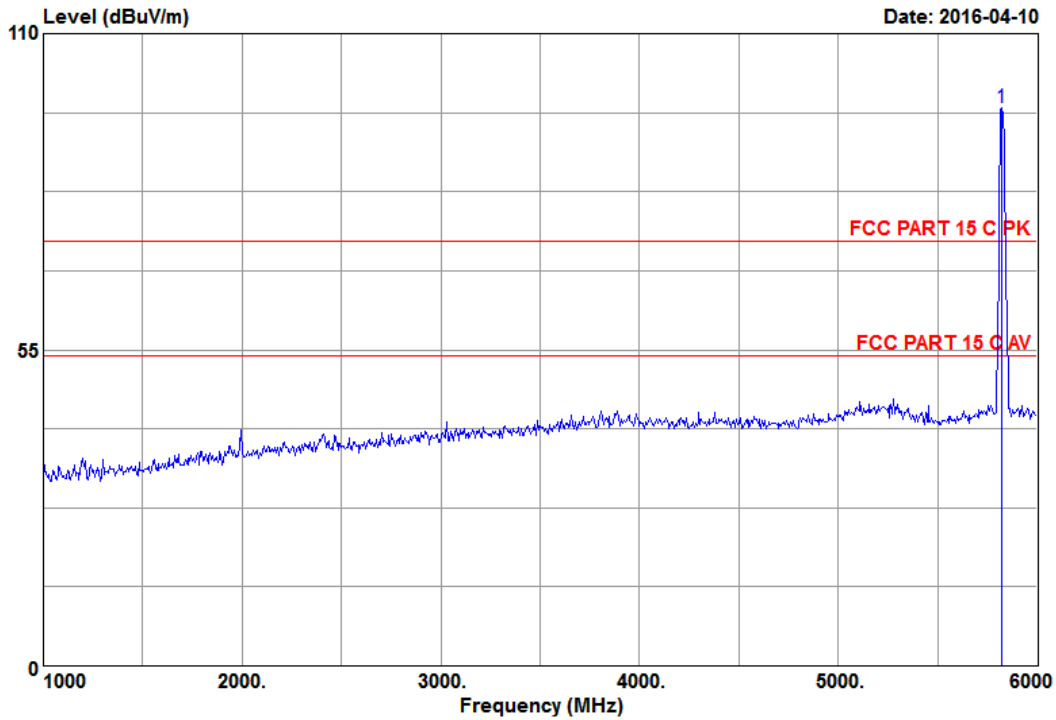
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5818.00	34.12	8.35	87.77	33.90	96.34	74.00	-22.34	Peak

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



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Data: 123 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 123  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX navigator access point  
 M/N : TINAVAP3-2  
 Power Rating: DC 5V  
 Test Mode : TX 802.11nHT20 CH165 5825MHz  
 Memo :

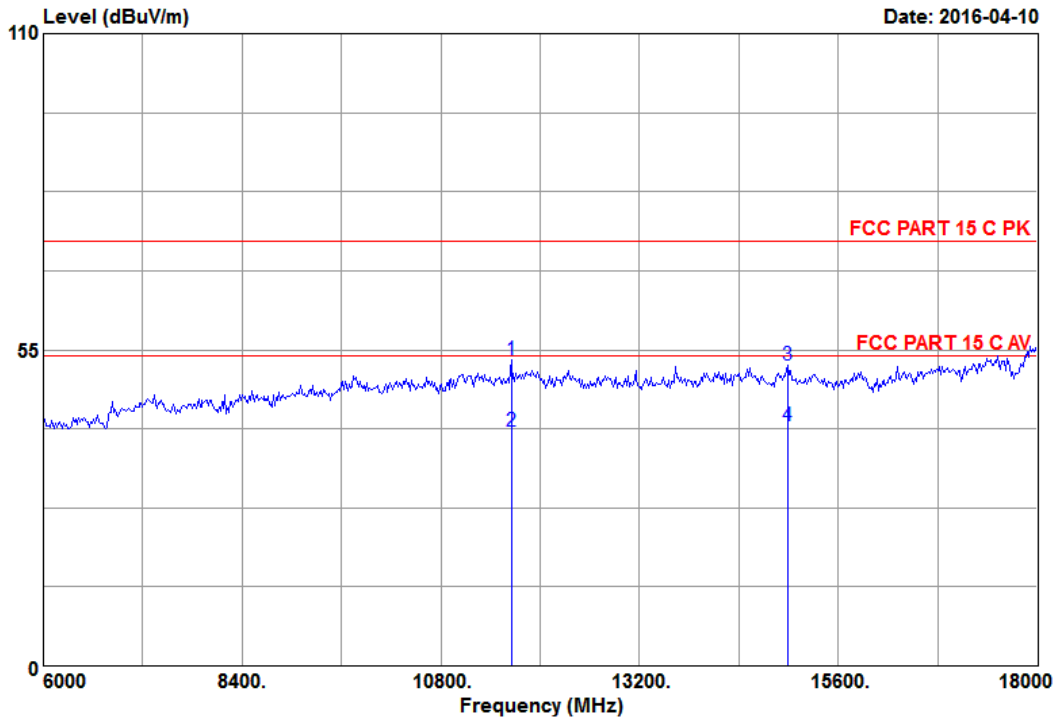
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5824.00	34.13	8.35	88.59	33.90	97.17	74.00	-23.17	Peak

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



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Data: 122 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 122  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX navigator access point  
 M/N : TINAVAP3-2  
 Power Rating: DC 5V  
 Test Mode : TX 802.11nHT20 CH165 5825MHz  
 Memo :

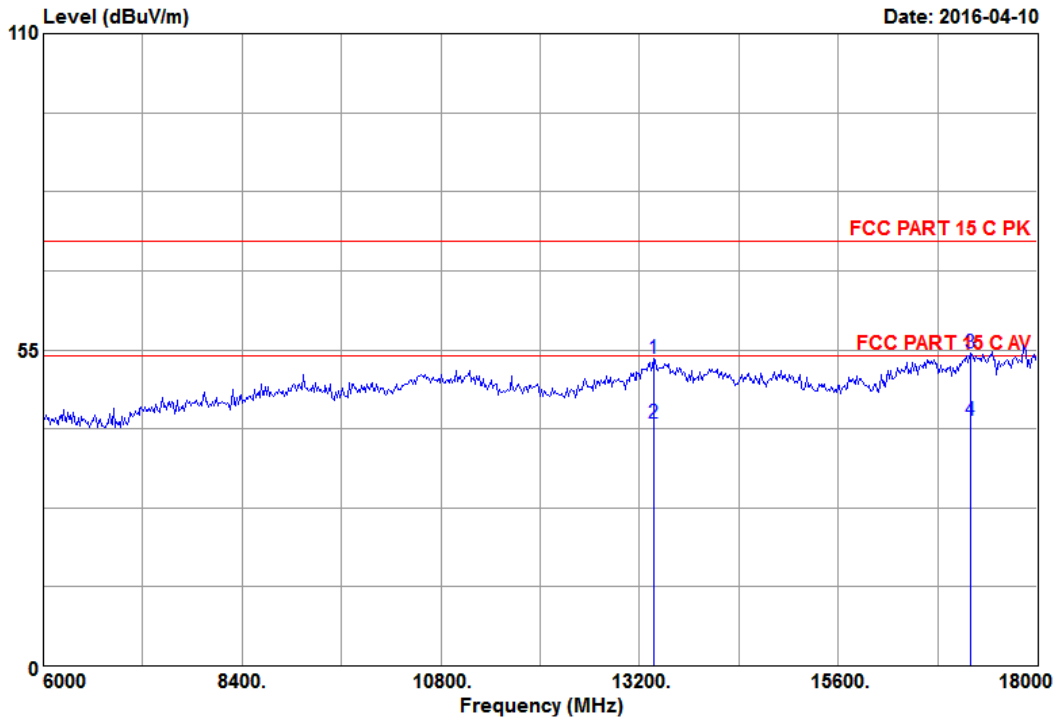
Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 11648.00	39.32	11.45	36.16	33.75	53.18	74.00	20.82	Peak
2 11650.27	39.32	11.45	23.91	33.75	40.93	54.00	13.07	Average
3 14992.00	41.05	13.17	31.12	33.00	52.34	74.00	21.66	Peak
4 14996.61	41.05	13.17	20.57	33.00	41.79	54.00	12.21	Average

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



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Data: 124 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 124  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX navigator access point  
 M/N : TINAVAP3-2  
 Power Rating: DC 5V  
 Test Mode : TX 802.11nHT20 CH165 5825MHz  
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	13376.00	40.81	12.50	32.31	32.15	53.47	74.00	20.53	Peak
2	13379.62	40.81	12.50	21.14	32.15	42.30	54.00	11.70	Average
3	17200.00	42.60	13.89	30.69	32.84	54.34	74.00	19.66	Peak
4	17203.35	42.60	13.89	19.10	32.84	42.75	54.00	11.25	Average

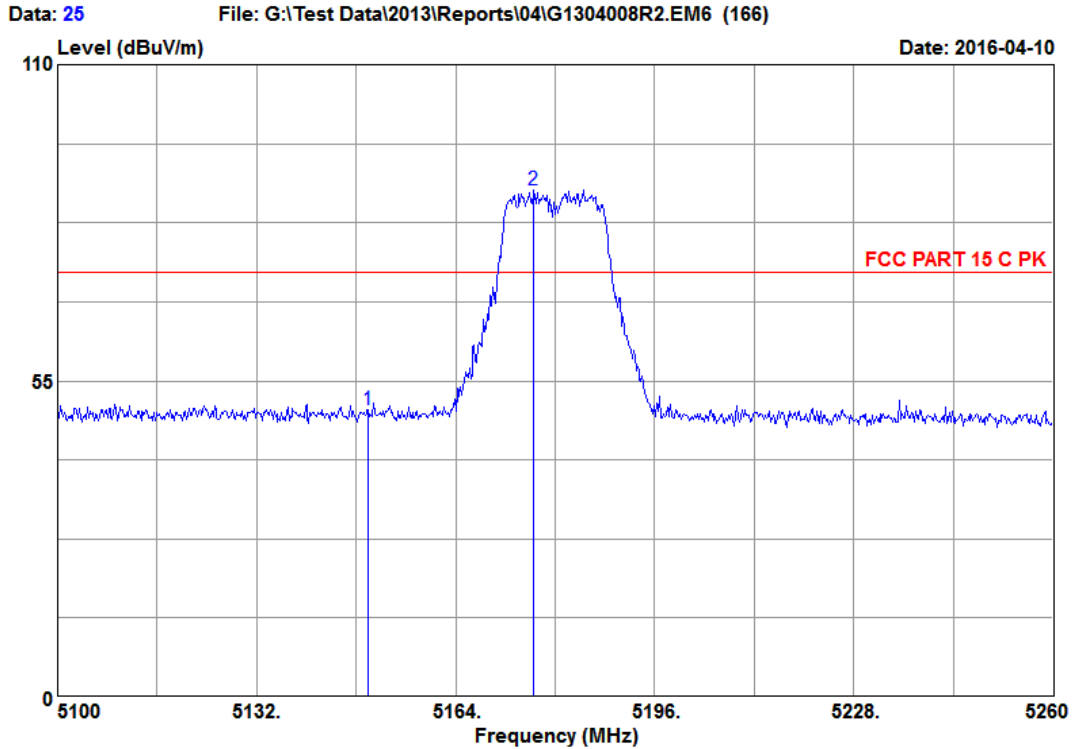
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.

4.8. Spurious Emission Measurement Results in Band Edge Emission

4.8.1. IEEE 802.11a



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Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH36 5180MHz  
 Memo :  
 Data NO. : 25  
 Ant. pol. : HORIZONTAL  
 Engineer : Mickey

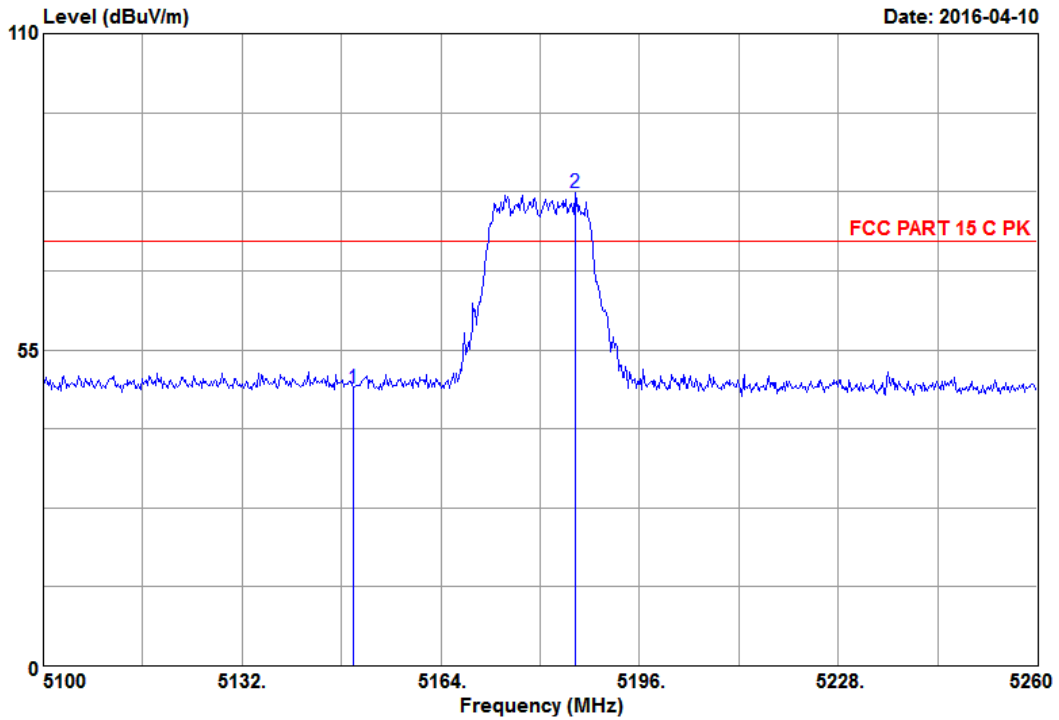
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.44	7.59	42.74	33.92	49.85	74.00	24.15	Peak
2	5176.60	33.49	7.62	80.90	33.91	88.10	74.00	-14.10	Peak

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



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Data: 26 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH36 5180MHz  
 Memo :  
 Data NO. : 26  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.44	7.59	41.23	33.92	48.34	74.00	25.66	Peak
2	5185.60	33.49	7.62	75.19	33.91	82.39	74.00	-8.39	Peak

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

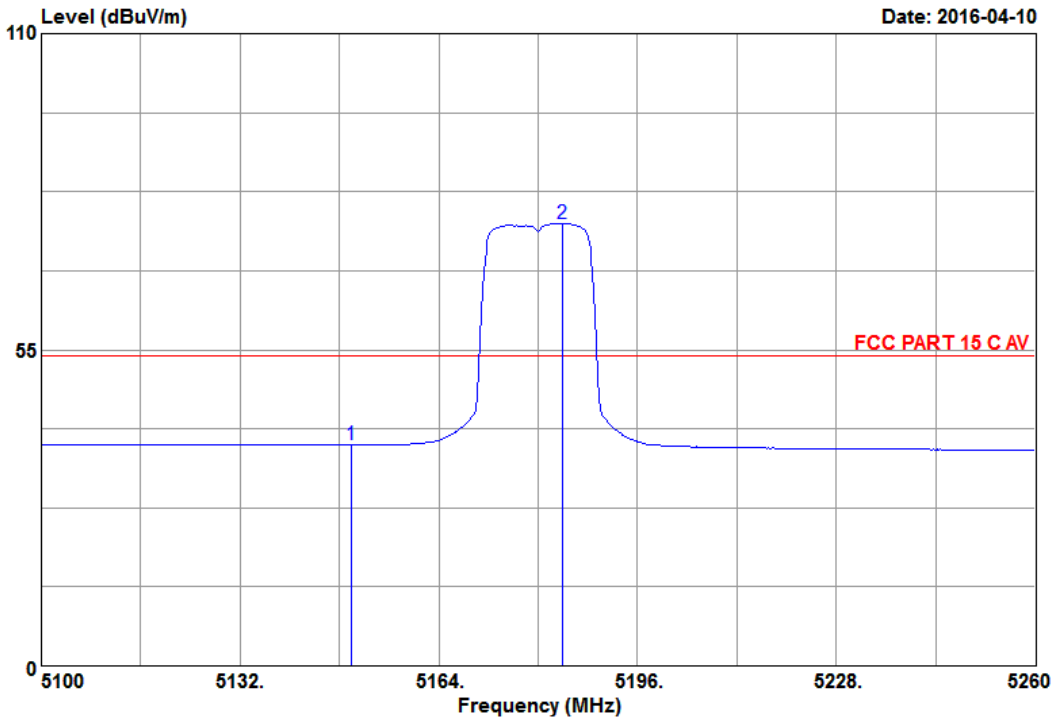


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Data: 27

File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)

Date: 2016-04-10



Site NO. : 3m Semi-Anechoic Chamber	Data NO. : 27
Dis. / Ant. : 3m 3115-62960-150630	Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C AV	Engineer : Mickey
Env. / Ins. : 21.8*C&48%/N9030A	
EUT : TI-nspire CX Wireless Network Adapter v2	
M/N : TINAVWNA2	
Power Rating: DC 3.7V	
Test Mode : TX 802.11a CH36 5180MHz	
Memo :	

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.44	7.59	31.36	33.92	38.47	54.00	15.53	Average
2	5184.00	33.49	7.62	69.74	33.91	76.94	54.00	-22.94	Average

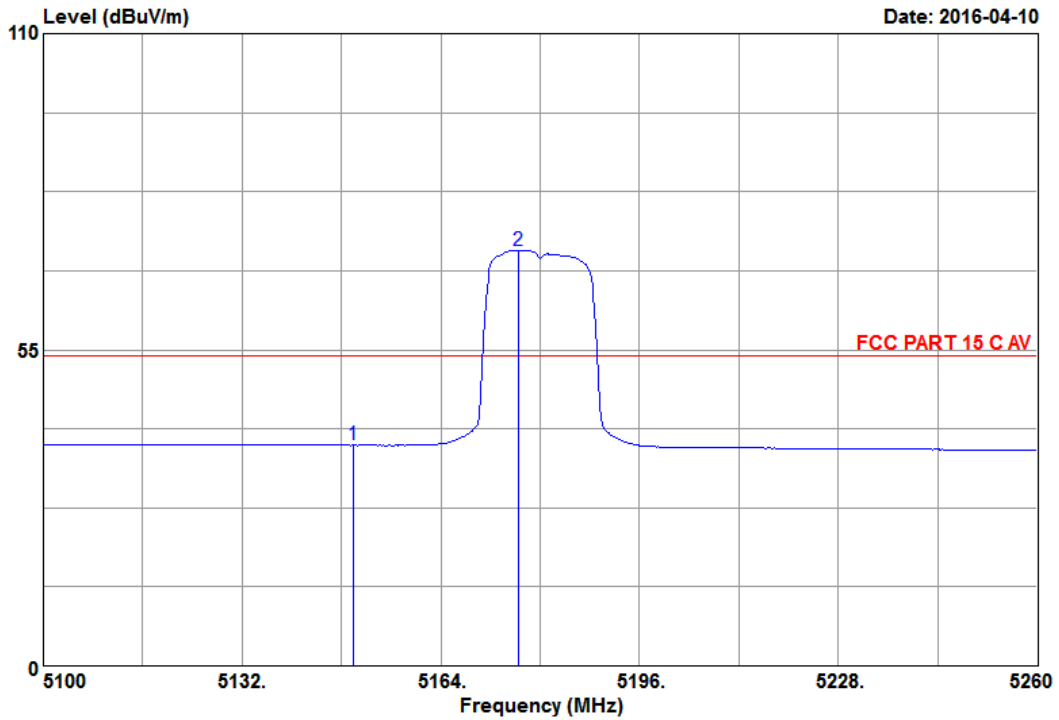
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 28 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C AV  
 Env. / Ins. : 21.8\*C&48%/N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH36 5180MHz  
 Memo :  
 Data NO. : 28  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

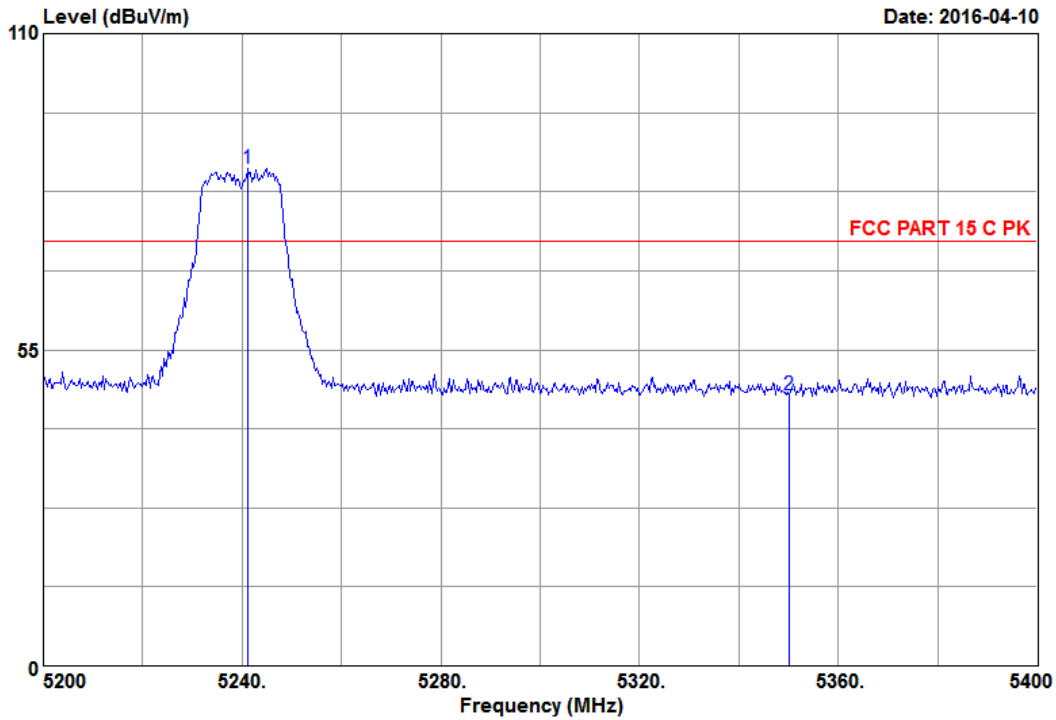
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.44	7.59	31.28	33.92	38.39	54.00	15.61	Average
2	5176.60	33.49	7.62	65.06	33.91	72.26	54.00	-18.26	Average

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



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Data: 29 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 29  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH48 5240MHz  
 Memo :

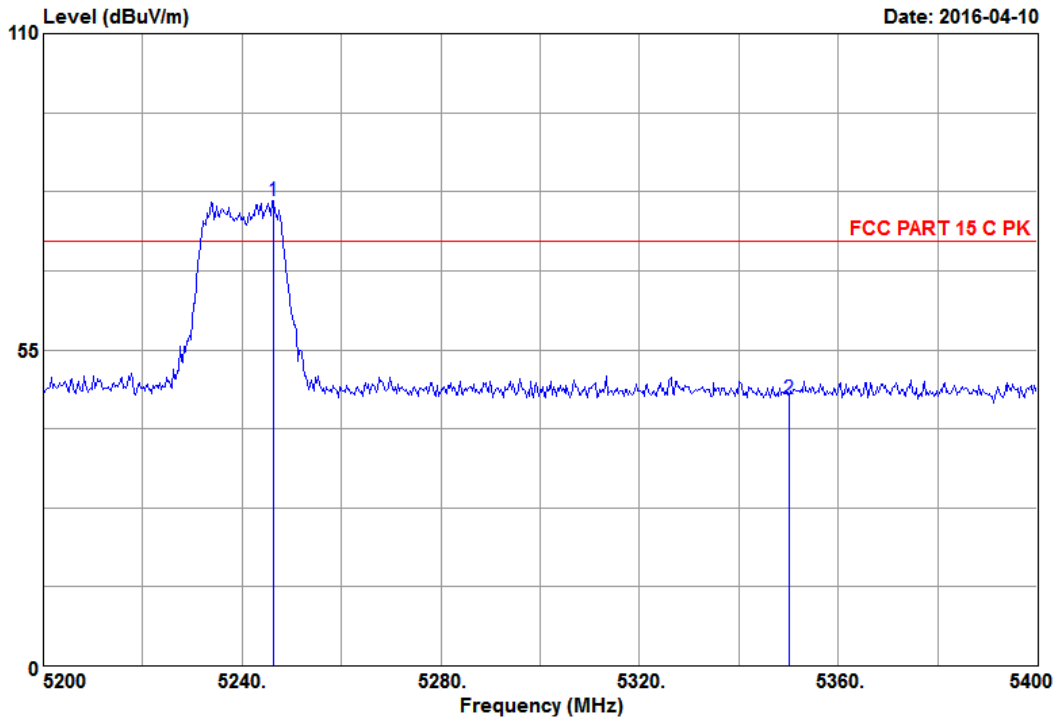
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5241.04	33.57	7.68	79.15	33.91	86.49	74.00	-12.49	Peak
2	5350.00	33.76	7.83	39.39	33.91	47.07	74.00	26.93	Peak

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



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Data: 30 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 30  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH48 5240MHz  
 Memo :

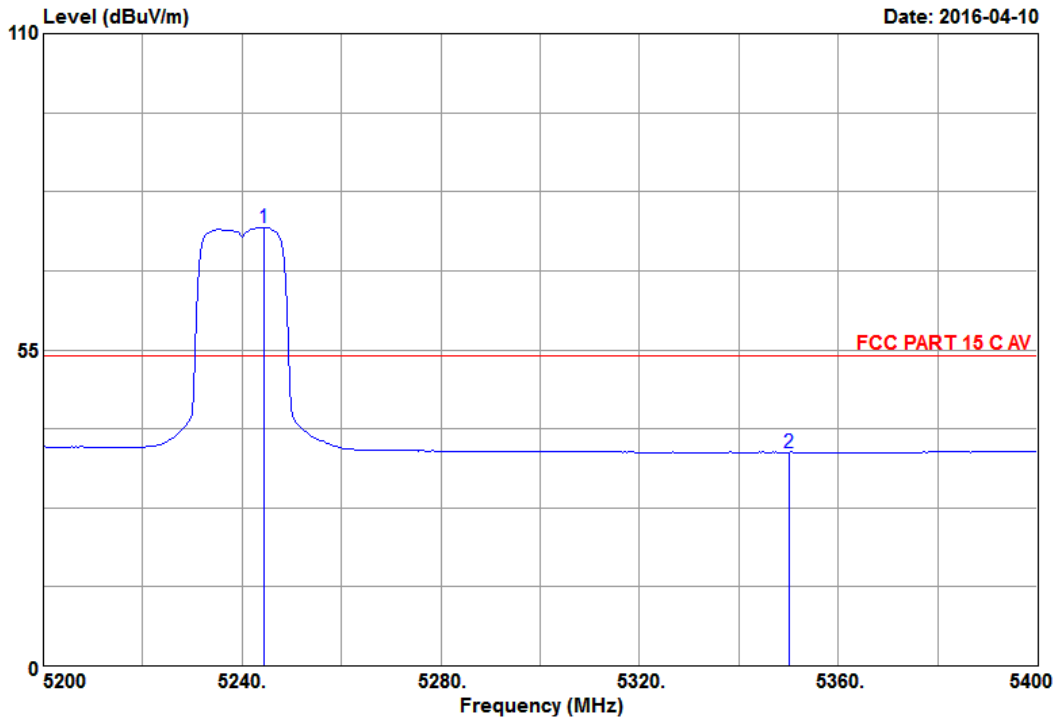
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5246.44	33.60	7.71	73.59	33.91	80.99	74.00	-6.99	Peak
2	5350.00	33.76	7.83	38.72	33.91	46.40	74.00	27.60	Peak

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



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Data: 31 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber	Data NO. : 31
Dis. / Ant. : 3m 3115-62960-150630	Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C AV	Engineer : Mickey
Env. / Ins. : 21.8*C&48%/N9030A	
EUT : TI-nspire CX Wireless Network Adapter v2	
M/N : TINAVWNA2	
Power Rating: DC 3.7V	
Test Mode : TX 802.11a CH48 5240MHz	
Memo :	

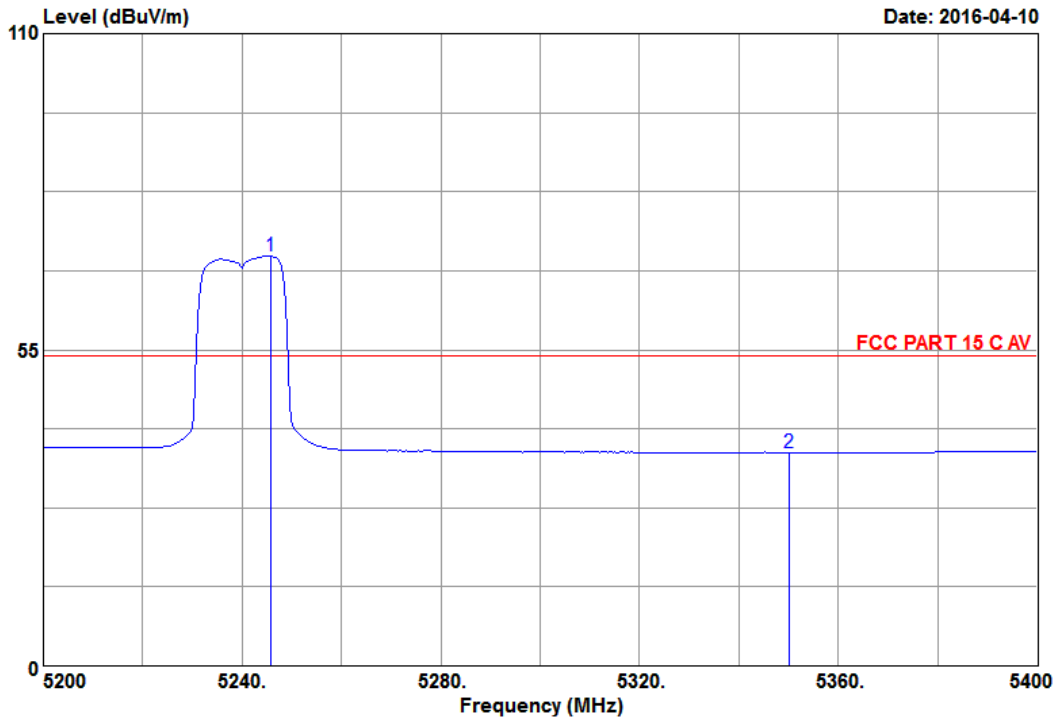
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5244.28	33.60	7.68	68.87	33.91	76.24	54.00	-22.24	Average
2	5350.00	33.76	7.83	29.46	33.91	37.14	54.00	16.86	Average

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



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Data: 32 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 32  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C AV  
 Env. / Ins. : 21.8\*C&48%/N9030A Engineer : Mickey  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11a CH48 5240MHz  
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5245.63	33.60	7.68	63.96	33.91	71.33	54.00	-17.33	Average
2	5350.00	33.76	7.83	29.45	33.91	37.13	54.00	16.87	Average

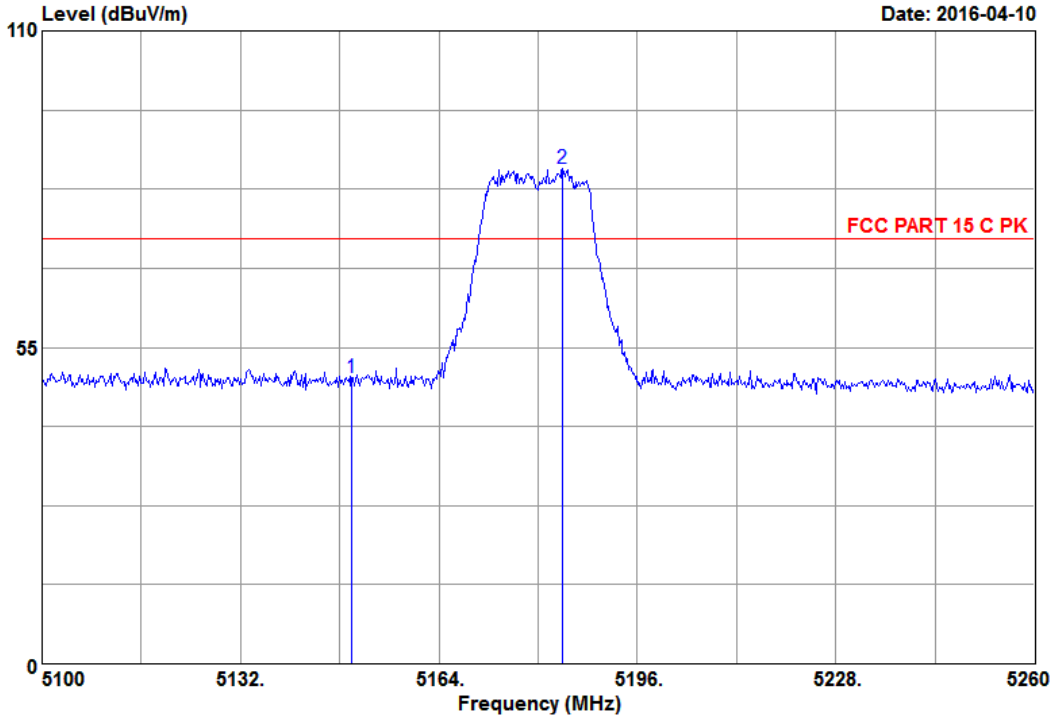
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.

4.8.2. IEEE 802.11n HT20



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Data: 33 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166) Date: 2016-04-10



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*CS&48%N9030A  
 EUT : TI-nspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH36 5180MHz  
 Memo :  
 Data NO. : 33  
 Ant. pol. : HORIZONTAL  
 Engineer : Mickey

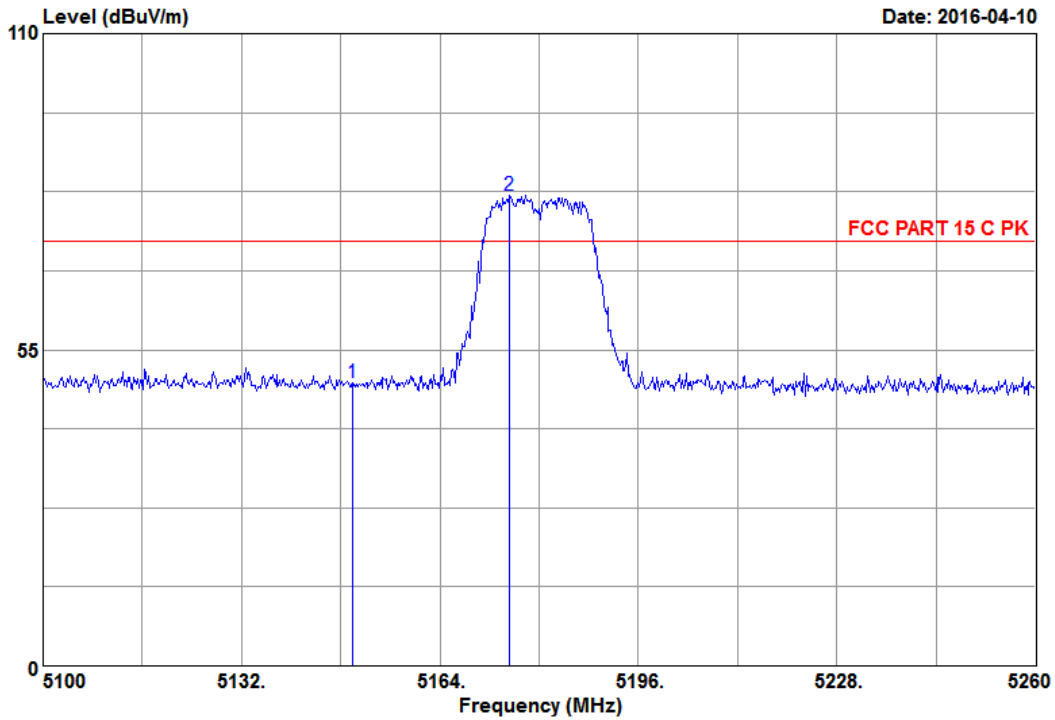
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.44	7.59	42.60	33.92	49.71	74.00	24.29	Peak
2	5184.00	33.49	7.62	78.82	33.91	86.02	74.00	-12.02	Peak

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



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Data: 34 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber  
 Dis. / Ant. : 3m 3115-62960-150630  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*CG&48%/N9030A  
 EUT : TI-inspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH36 5180MHz  
 Memo :  
 Data NO. : 34  
 Ant. pol. : VERTICAL  
 Engineer : Mickey

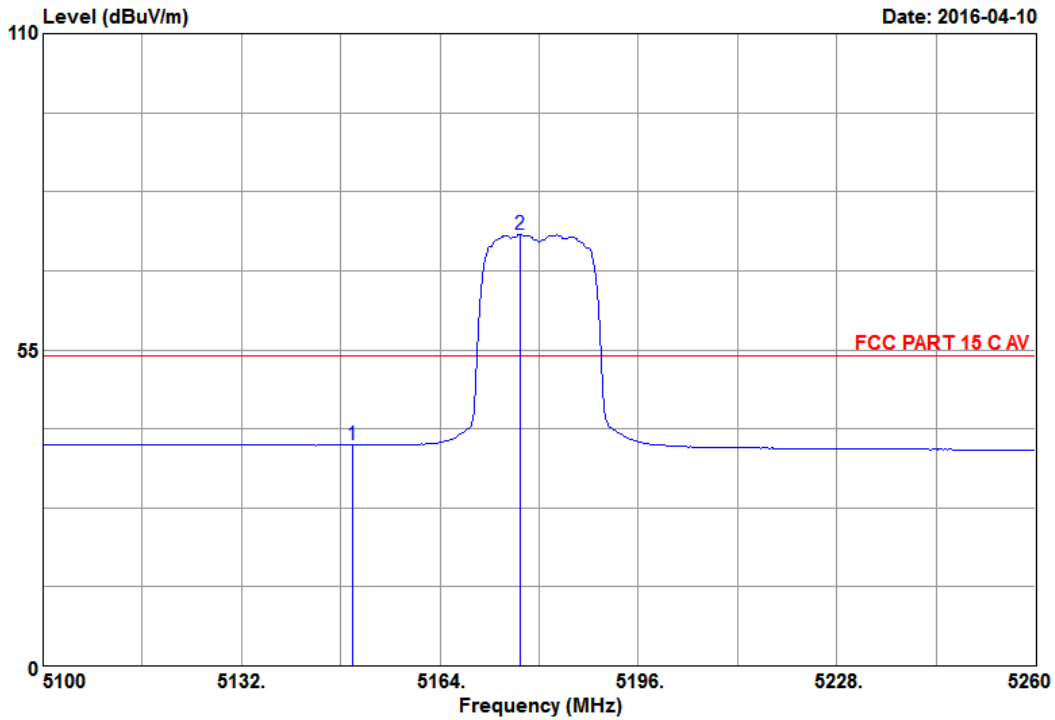
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.44	7.59	42.23	33.92	49.34	74.00	24.66	Peak
2	5175.20	33.49	7.62	74.77	33.91	81.97	74.00	-7.97	Peak

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



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Data: 35 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 35  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C AV  
 Env. / Ins. : 21.8\*CG&48%/N9030A Engineer : Mickey  
 EUT : TI-inspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH36 5180MHz  
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5150.00	33.44	7.59	31.32	33.92	38.43	54.00	15.57	Average
2	5177.00	33.49	7.62	67.82	33.91	75.02	54.00	-21.02	Average

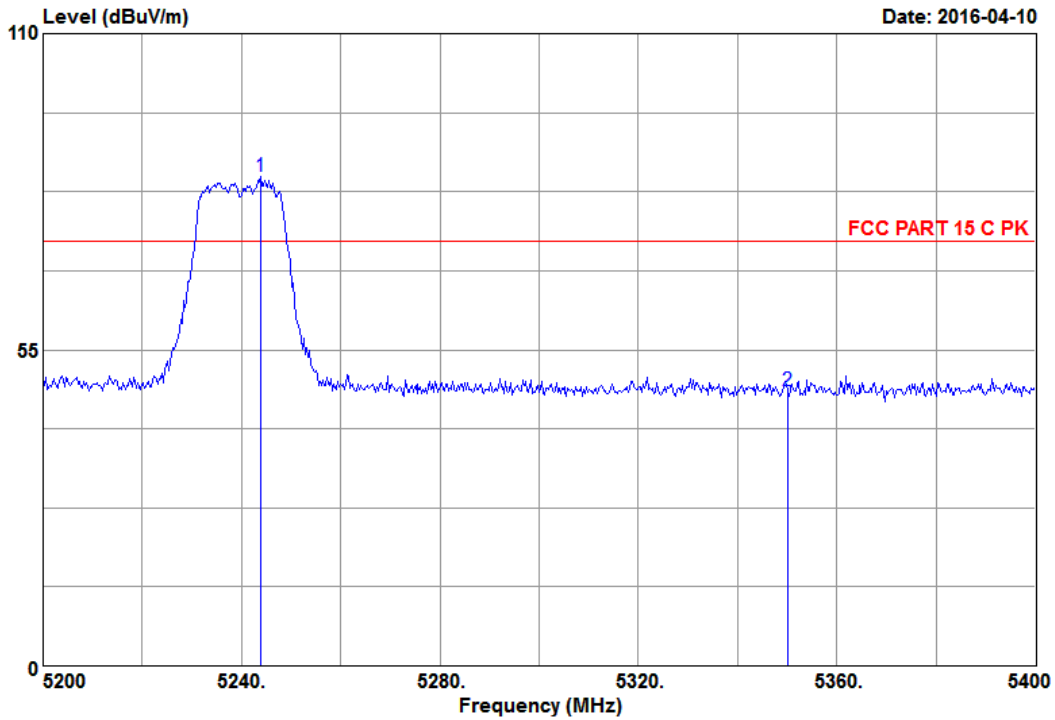
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.





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Data: 37 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 37  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*CG&48%/N9030A Engineer : Mickey  
 EUT : TI-inspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH48 5240MHz  
 Memo :

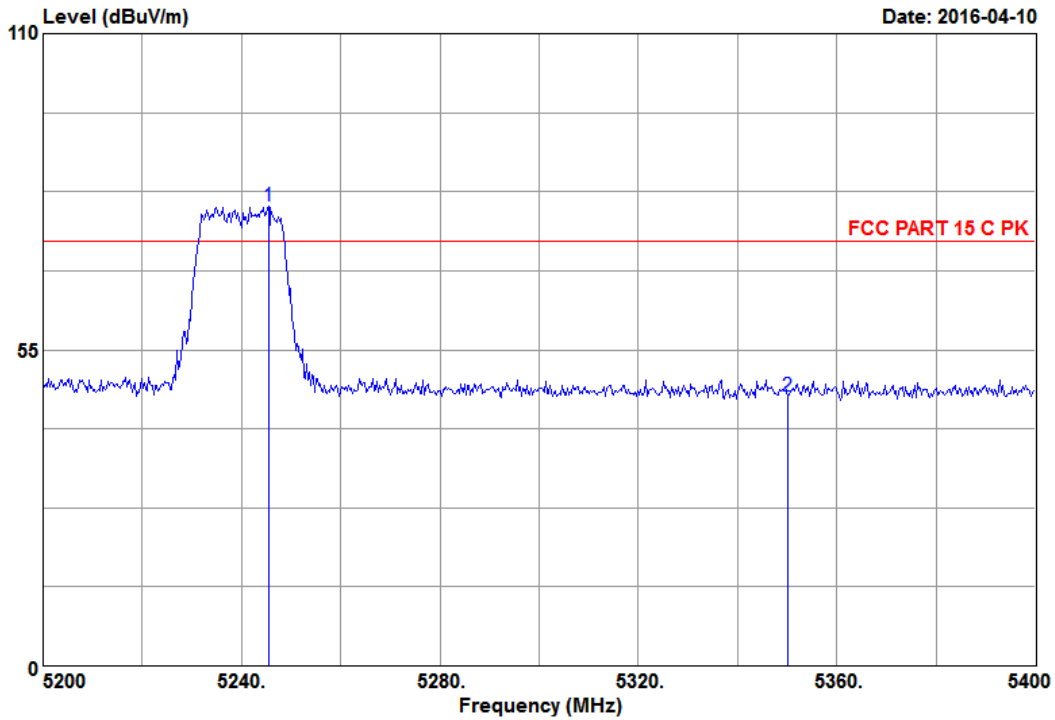
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5243.74	33.60	7.68	77.67	33.91	85.04	74.00	-11.04	Peak
2	5350.00	33.76	7.83	40.23	33.91	47.91	74.00	26.09	Peak

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



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Data: 38 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 38  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C PK  
 Env. / Ins. : 21.8\*CG&48%/N9030A Engineer : Mickey  
 EUT : TI-inspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH48 5240MHz  
 Memo :

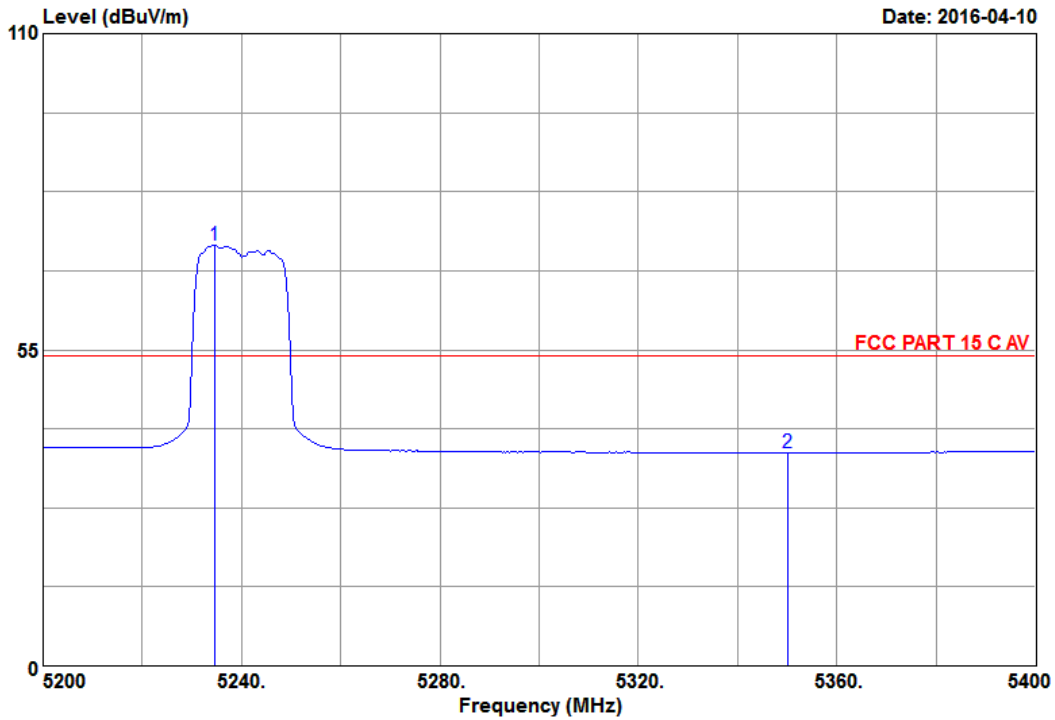
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5245.36	33.60	7.68	72.55	33.91	79.92	74.00	-5.92	Peak
2	5350.00	33.76	7.83	39.19	33.91	46.87	74.00	27.13	Peak

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



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Data: 39 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 39  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 C AV  
 Env. / Ins. : 21.8\*CG&48%/N9030A Engineer : Mickey  
 EUT : TI-inspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH48 5240MHz  
 Memo :

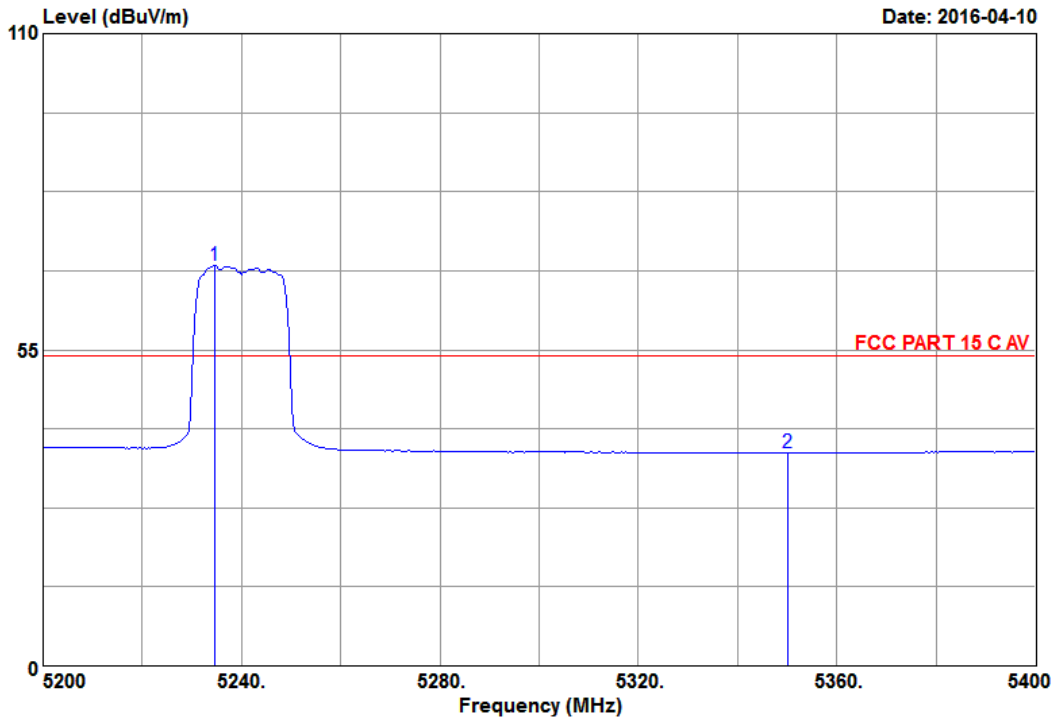
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5234.56	33.57	7.68	65.91	33.91	73.25	54.00	-19.25	Average
2	5350.00	33.76	7.83	29.46	33.91	37.14	54.00	16.86	Average

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



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Data: 40 File: G:\Test Data\2013\Reports\04\G1304008R2.EM6 (166)



Site NO. : 3m Semi-Anechoic Chamber Data NO. : 40  
 Dis. / Ant. : 3m 3115-62960-150630 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 C AV  
 Env. / Ins. : 21.8\*CG&48%/N9030A Engineer : Mickey  
 EUT : TI-inspire CX Wireless Network Adapter v2  
 M/N : TINAVWNA2  
 Power Rating: DC 3.7V  
 Test Mode : TX 802.11nHT20 CH48 5240MHz  
 Memo :

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5234.56	33.57	7.68	62.31	33.91	69.65	54.00	-15.65	Average
2	5350.00	33.76	7.83	29.43	33.91	37.11	54.00	16.89	Average

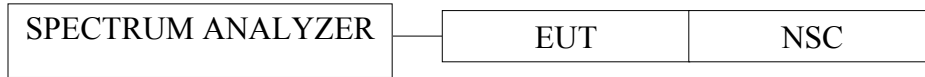
Remarks: 1. Emission Level= Ant.Factor + Cable Loss + Reading - Preamp.Factor.  
 2. The emission levels that are 20dB below the official limit are not reported.

## 5. 26 dB BANDWIDTH MEASUREMENT

### 5.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

### 5.2. Block Diagram of Test Setup



— : SIGNAL LINE

### 5.3. Test Procedure

The measurement guideline was according to KDB 789033 D02 General UNII Test Procedures v01r02.

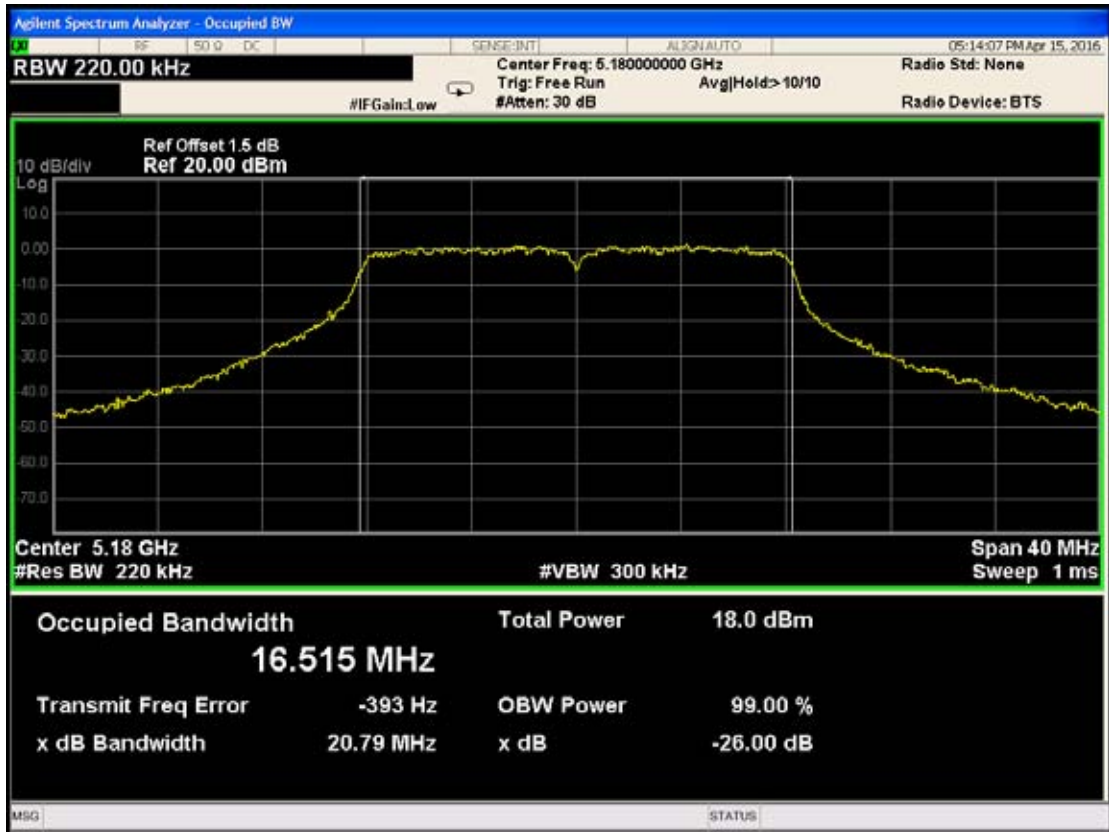
### 5.4. Test Results

**PASSED.** All the test results are attached in next pages.

Item	Channel	Test Frequency	26dB Bandwidth
802.11a	36	5180MHz	20.79MHz
	44	5220MHz	20.81 MHz
	48	5240MHz	21.11MHz
802.11n HT20	36	5180MHz	21.86 MHz
	44	5220MHz	21.67 MHz
	48	5240MHz	21.77 MHz

5.4.1. 802.11a

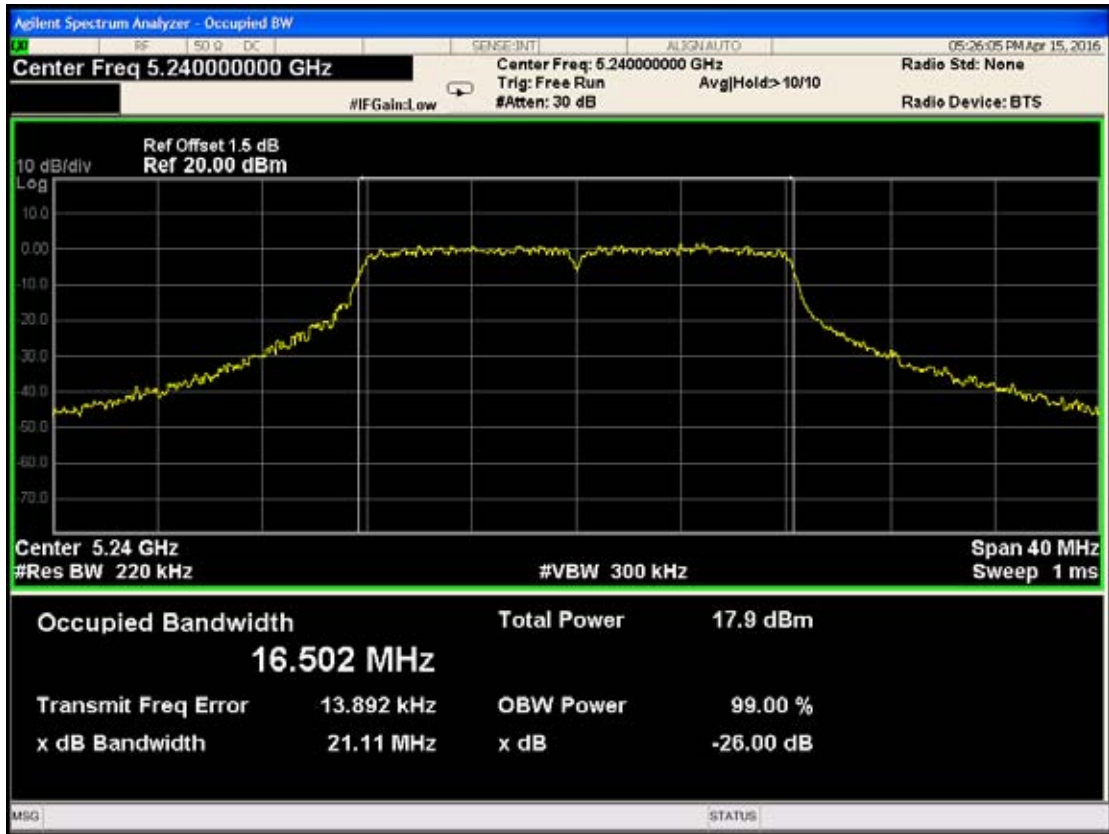
CH 36



CH 44

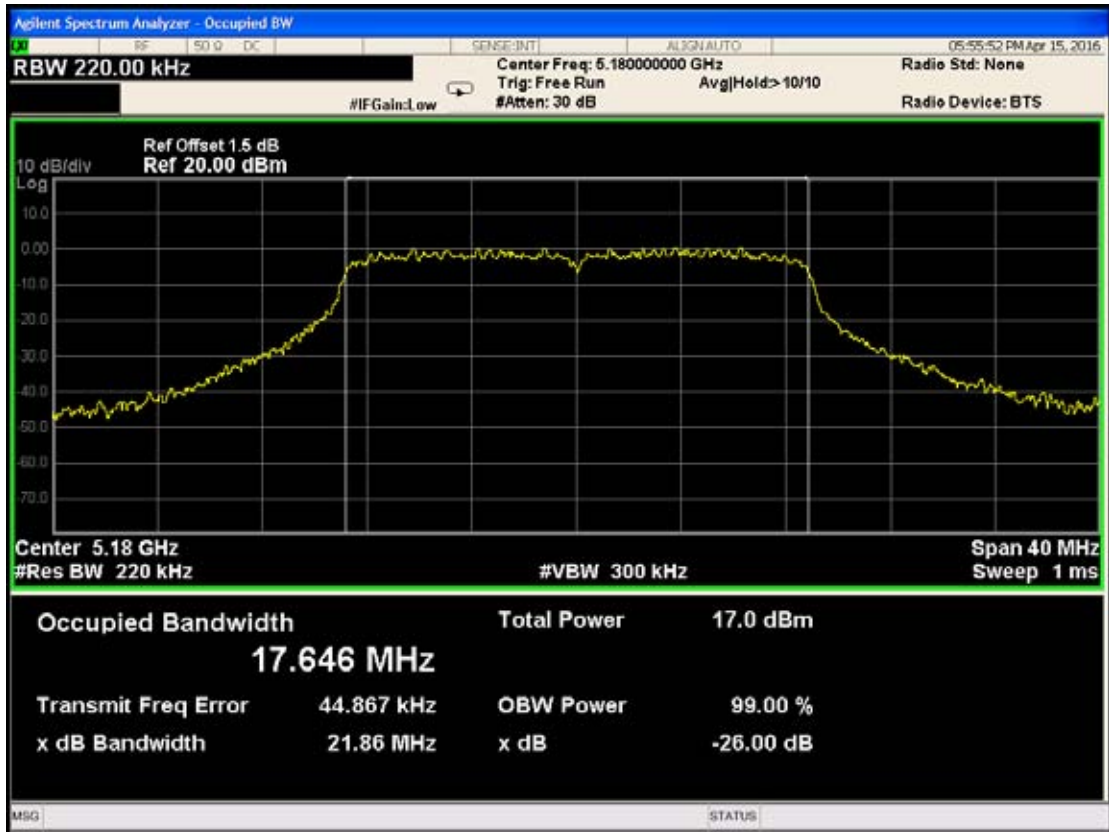


CH 48

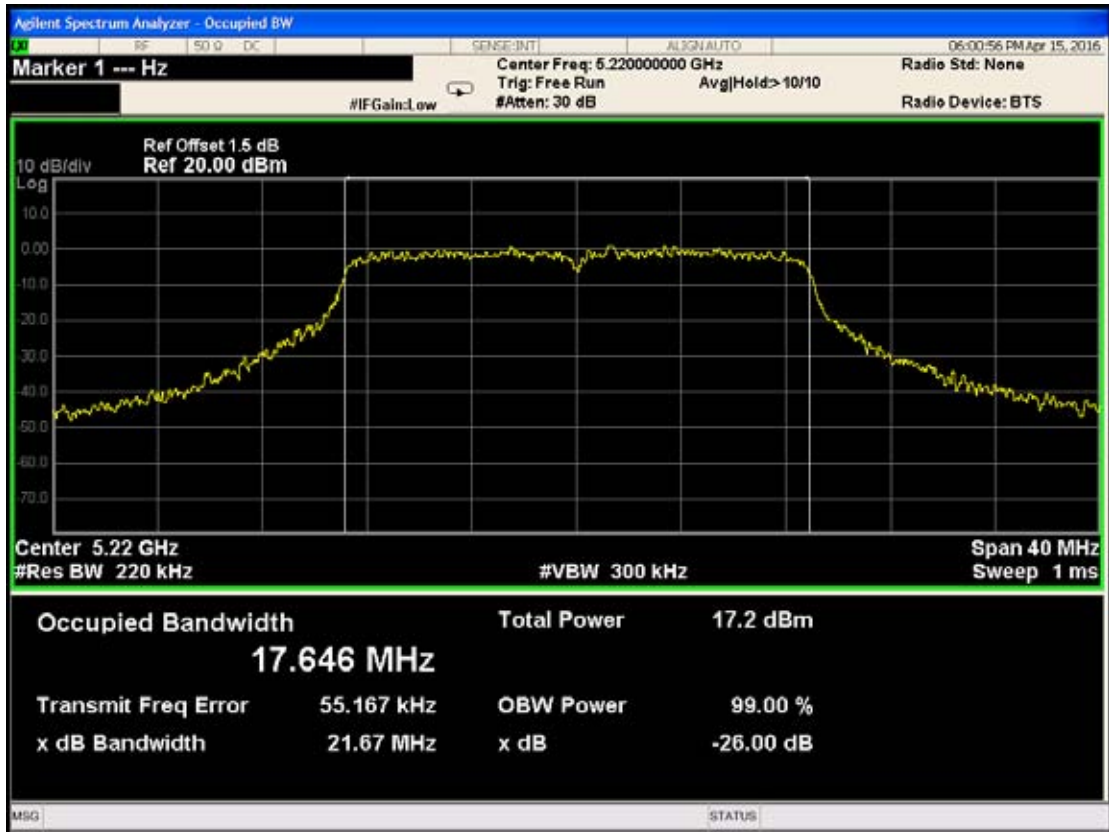


5.4.2. 802.11n HT20

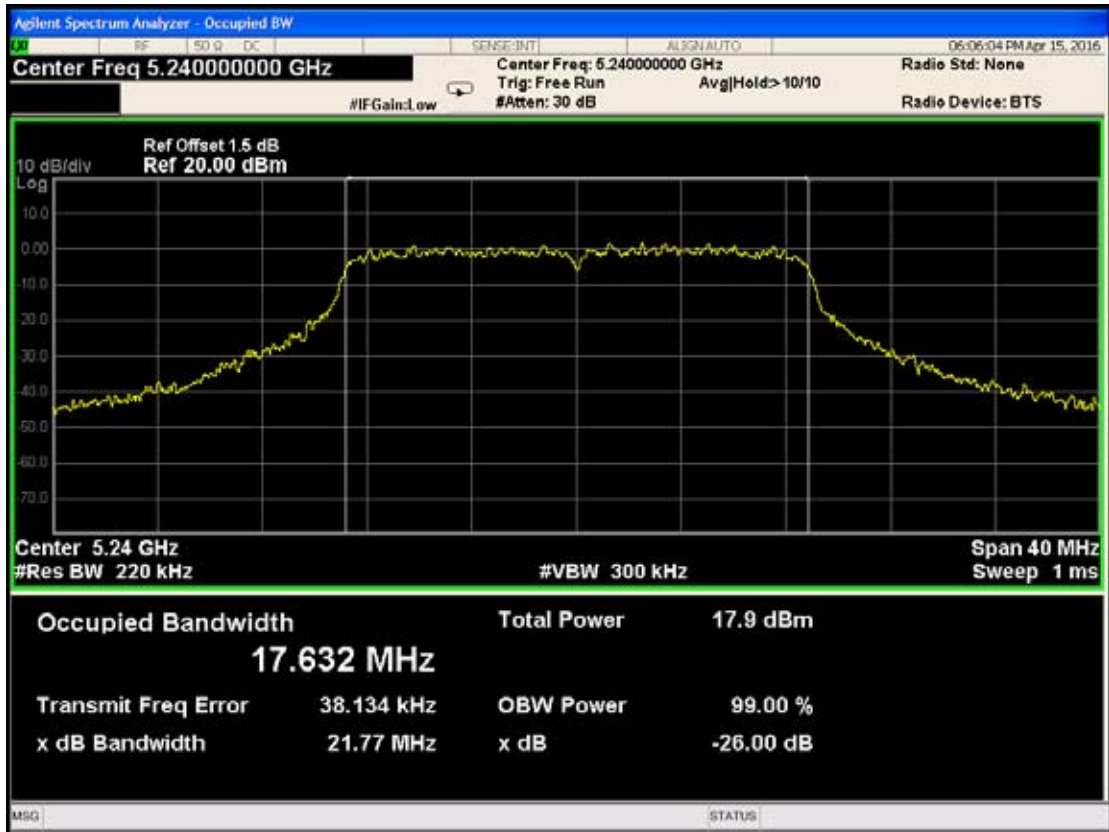
CH 36



CH 44



CH 48



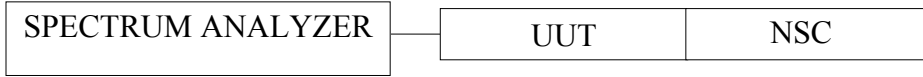


## 6. 6 dB BANDWIDTH MEASUREMENT

### 6.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

### 6.2. Block Diagram of Test Setup



— : SIGNAL LINE

### 6.3. Specification Limits (§15.407(e))

Within the 5.725-5.85GHz band, the minimum 6dB bandwidth of U-NII devices shall be at least 500kHz.

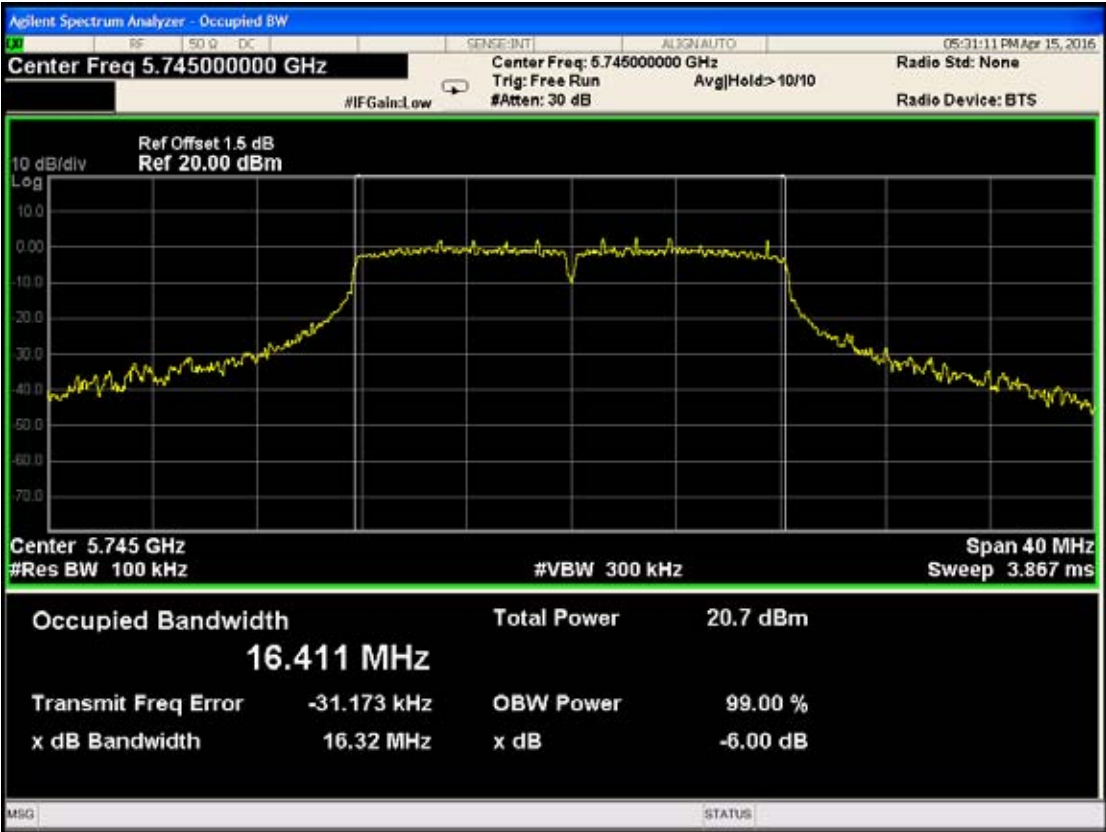
### 6.4. Test Results

**PASSED.** All the test results are attached in next pages.

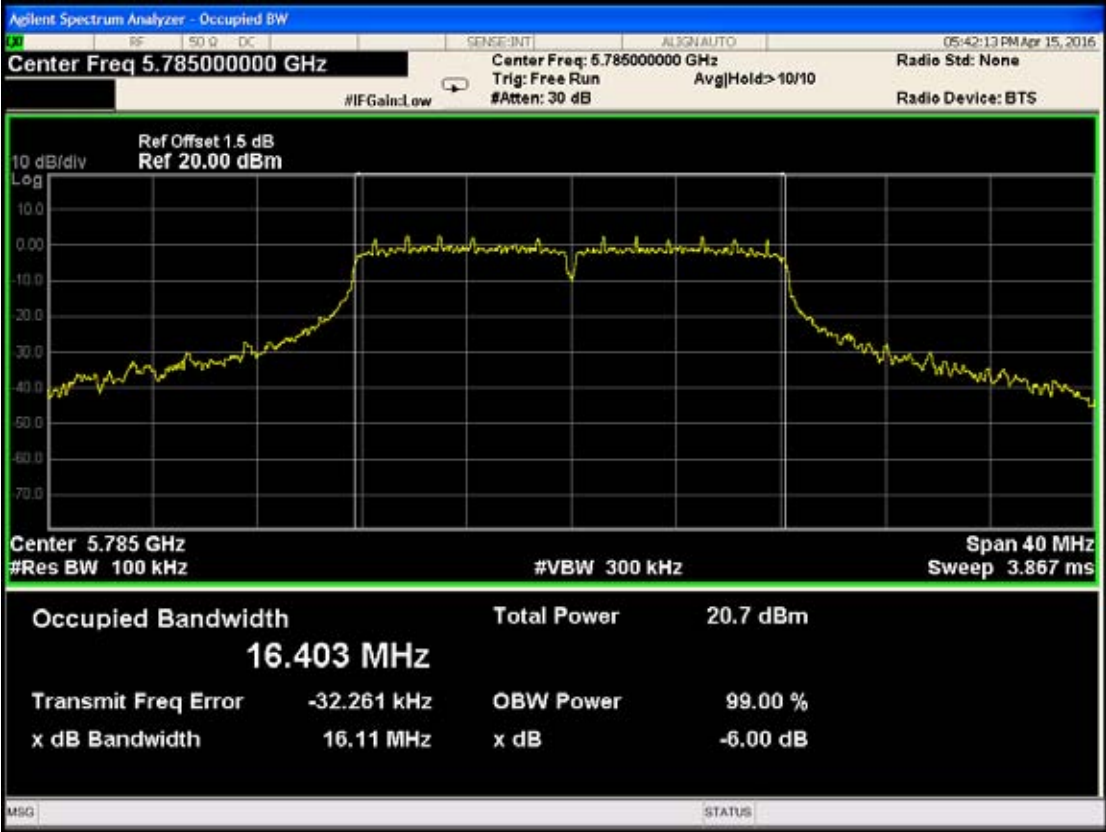
Item	Channel	Test Frequency	6dB Bandwidth
802.11a	149	5745MHz	16.32 MHz
	157	5785MHz	16.11 MHz
	165	5825MHz	16.34 MHz
802.11n HT20	149	5745MHz	16.91MHz
	157	5785MHz	16.84 MHz
	165	5825MHz	16.94 MHz

6.4.1. 802.11a

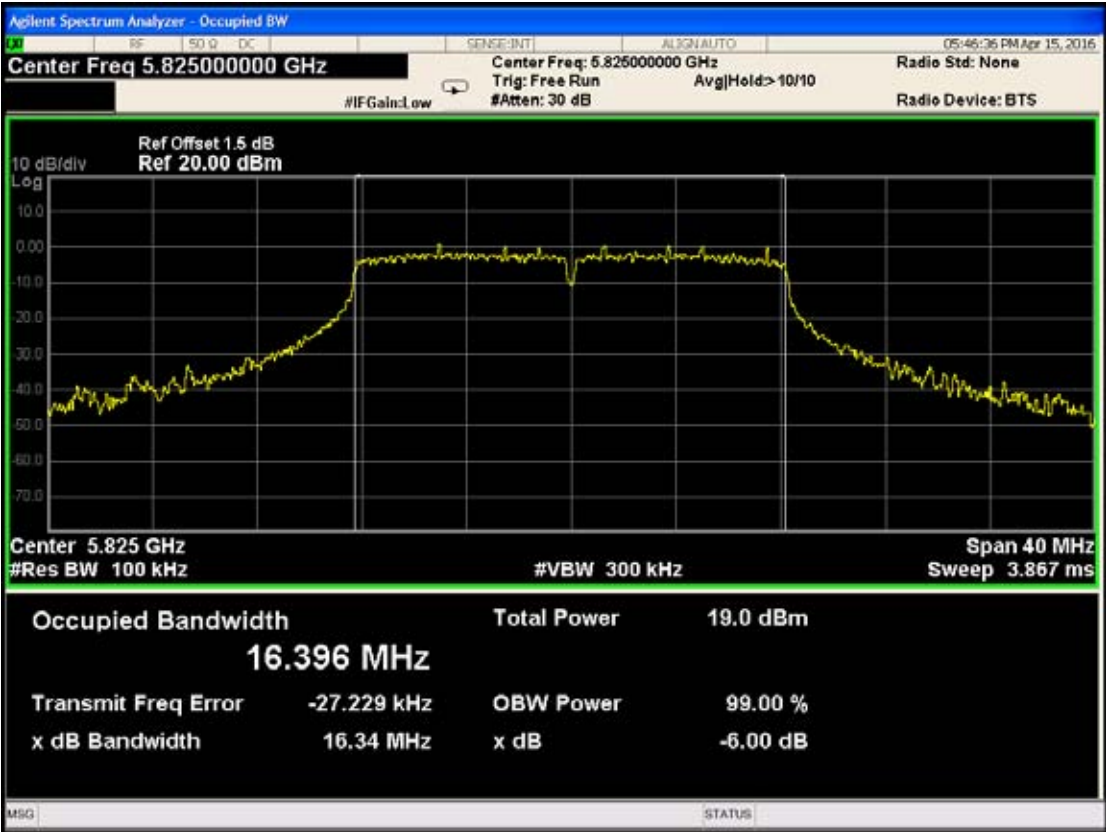
CH 149



CH 157

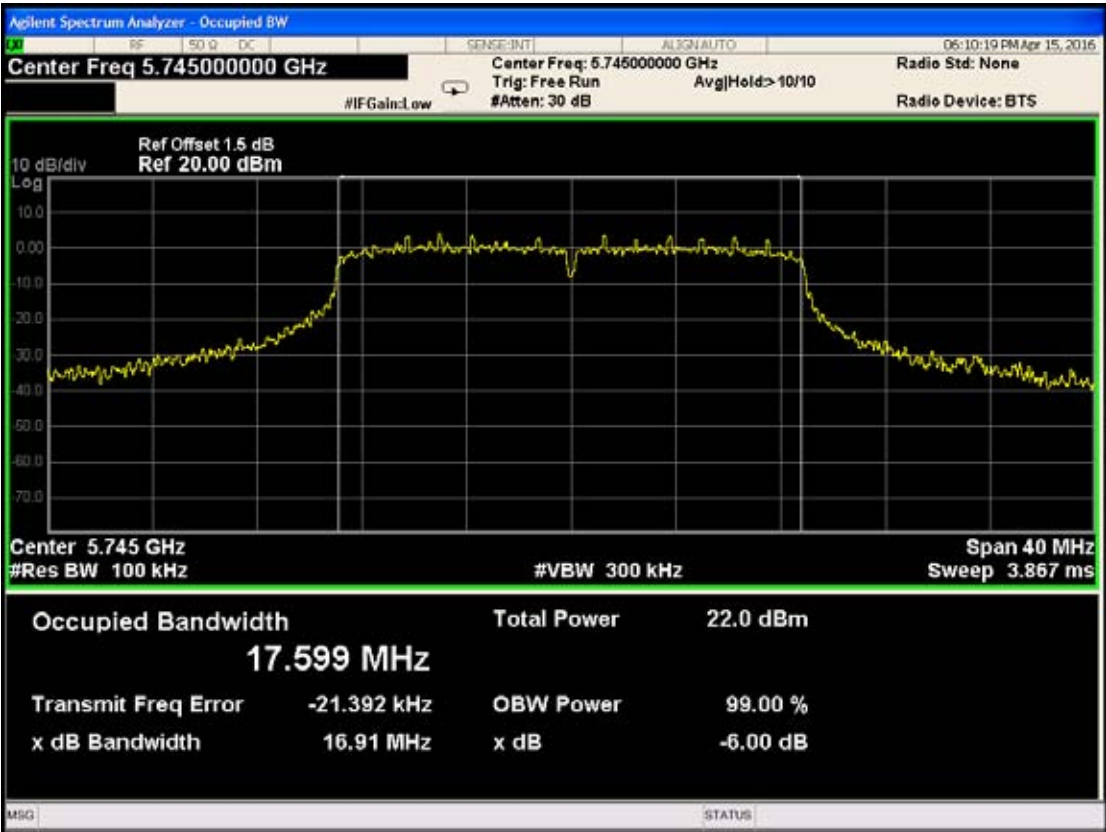


CH 165

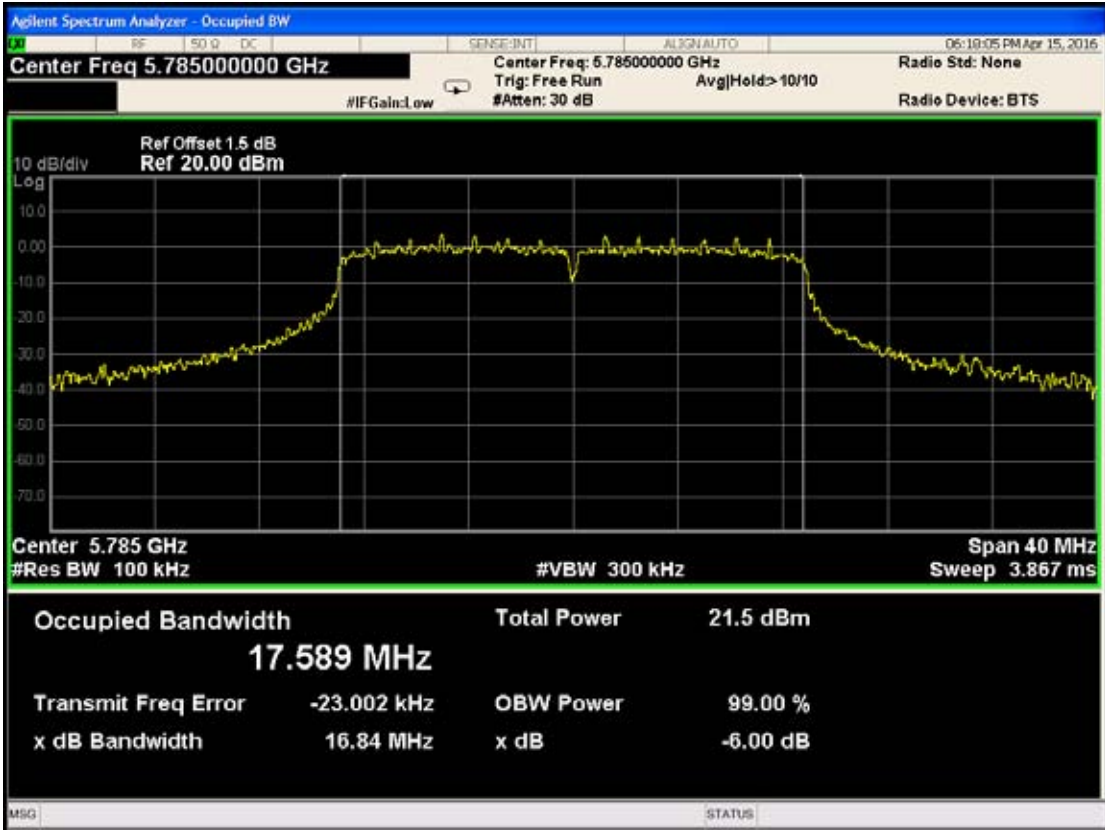


6.4.2. 802.11n HT20

CH 149



CH 157



CH 165



## 7. OUTPUT POWER MEASUREMENT

### 7.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

### 7.2. Block Diagram of Test Setup



— : SIGNAL LINE

### 7.3. Specification Limits (§15.407(a) (1) (2) (3))

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi, and for the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

### 7.4. Test Procedure

The measurement guideline was according to KDB 789033 D02 General UNII Test Procedures v01r02.

### 7.5. Test Results

**PASSED.** All the test results are attached in next pages.

Test Mode: 802.11a

Test Condition	Peak Power(dBm)					
Rate/ Channel	CH36	CH44	CH48	CH149	CH157	CH165
6Mbps	14.76	15.21	14.81	21.31	19.63	20.30
9 Mbps	13.81	14.65	14.73	20.76	20.12	20.36
12 Mbps	14.18	13.58	14.76	20.01	20.32	20.09
18 Mbps	14.65	14.19	14.06	20.23	19.86	20.06
24 Mbps	13.89	13.79	14.11	20.74	20.69	20.53
36 Mbps	13.54	13.44	13.76	20.33	19.76	19.81
48 Mbps	13.42	13.56	13.71	20.18	18.85	19.21
54 Mbps	13.65	13.41	13.55	19.21	18.04	16.92

Test Condition	Average Power(dBm)					
Rate/ Channel	CH36	CH44	CH48	CH149	CH157	CH165
6Mbps	10.82	10.62	10.51	12.02	12.81	12.37
9 Mbps	11.02	10.68	10.77	11.65	11.78	11.91
12 Mbps	11.43	10.76	10.87	11.78	11.84	11.23
18 Mbps	10.65	11.07	10.69	11.54	11.27	12.17
24 Mbps	11.21	10.26	10.79	11.25	11.95	11.76
36 Mbps	11.12	11.19	10.76	11.19	11.26	11.54
48 Mbps	10.54	10.65	10.85	11.20	10.97	11.09
54 Mbps	9.53	9.35	9.61	10.05	9.29	8.52

Test Mode: 802.11n HT20

Test Condition	Peak Power(dBm)					
Rate/ Channel	CH36	CH44	CH48	CH149	CH157	CH165
MCS 0	14.74	13.74	14.76	21.16	20.02	20.82
MCS1	14.21	14.21	14.32	20.21	20.23	20.15
MCS2	13.89	13.76	14.23	20.12	20.31	20.17
MCS3	13.97	13.77	14.13	20.15	20.25	20.66
MCS4	14.20	13.66	14.31	20.65	20.32	20.51
MCS5	12.68	13.21	13.41	18.98	19.67	19.55
MCS6	12.76	12.54	13.21	15.87	15.23	16.02

Test Condition	Average Power(dBm)					
Rate/ Channel	CH36	CH44	CH48	CH149	CH157	CH165
MCS 0	10.75	10.45	10.61	12.72	12.75	13.30
MCS1	10.66	11.21	10.87	12.67	12.56	12.87
MCS2	10.25	10.65	11.21	12.25	12.64	12.71
MCS3	10.54	10.32	10.77	12.54	12.31	12.66
MCS4	10.71	10.76	10.76	12.32	12.69	12.84
MCS5	10.63	10.23	10.32	11.09	11.12	11.65
MCS6	10.14	10.29	10.69	9.02	9.15	9.58

## 8. POWER SPECTRAL DENSITY MEASUREMENT

### 8.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

### 8.2. Block Diagram of Test Setup

The same as section 5.2.

### 8.3. Specification Limits (§15.407(a) (1) (2) (3))

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band, and for the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

### 8.4. Test Procedure

The measurement guideline was according to KDB 789033 D02 General UNII Test Procedures v01r02.

### 8.5. Test Results

**PASSED.** All the test results are attached in next page.

Test Date: Apr.15, 2016

Temperature: 19.1 °C

Humidity: 58 %

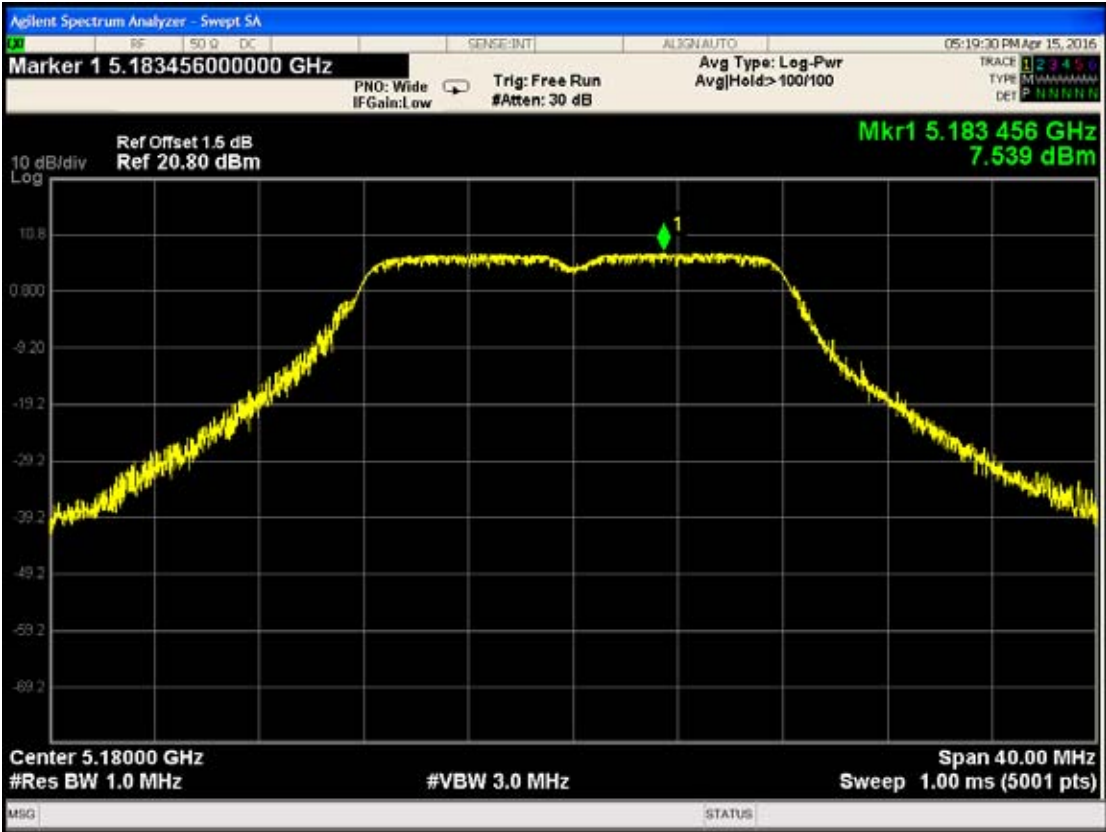
Item	Channel	Frequency (MHz)	Result (dBm/MHz)	Limit (dBm/MHz)
802.11a	36	5180	7.539	11dBm/MHz
	44	5220	8.165	
	48	5240	8.404	
802.11 nHT20	36	5180	7.446	
	44	5220	7.902	
	48	5240	8.131	

Item	Channel	Frequency (MHz)	Result (dBm/300kHz)	Result (dBm/500kHz)	Limit (dBm/500kHz)
802.11a	149	5745	6.248	8.466	30dBm/MHz
	157	5785	5.251	7.469	
	165	5825	4.502	6.720	
802.11 nHT20	149	5745	6.743	8.961	
	157	5785	5.735	7.953	
	165	5825	4.528	6.746	

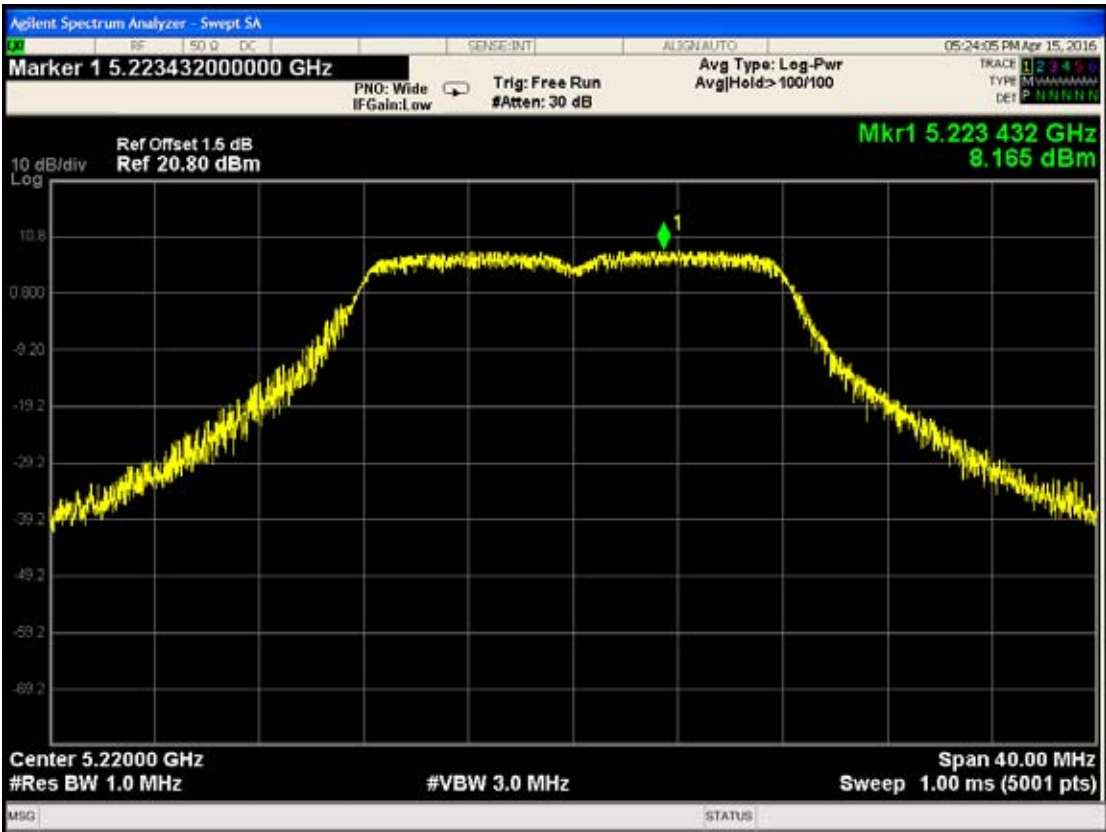


8.5.1. 802.11a

CH 36

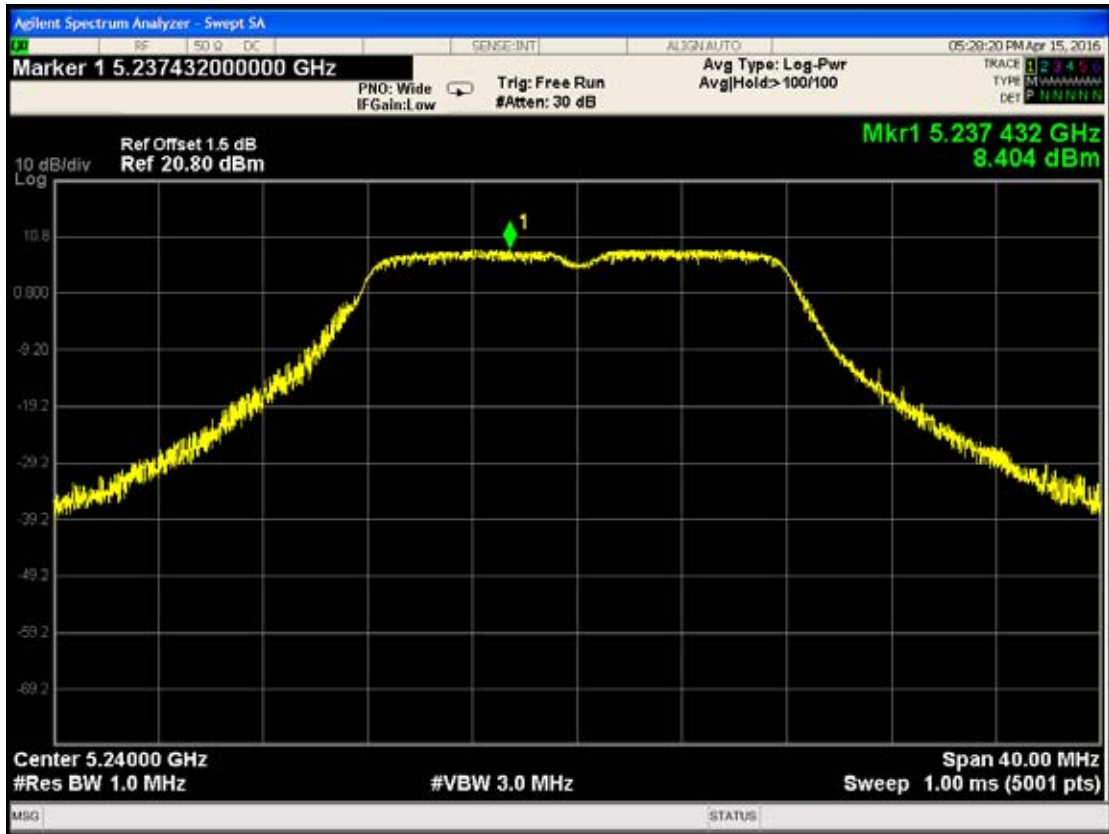


CH 44





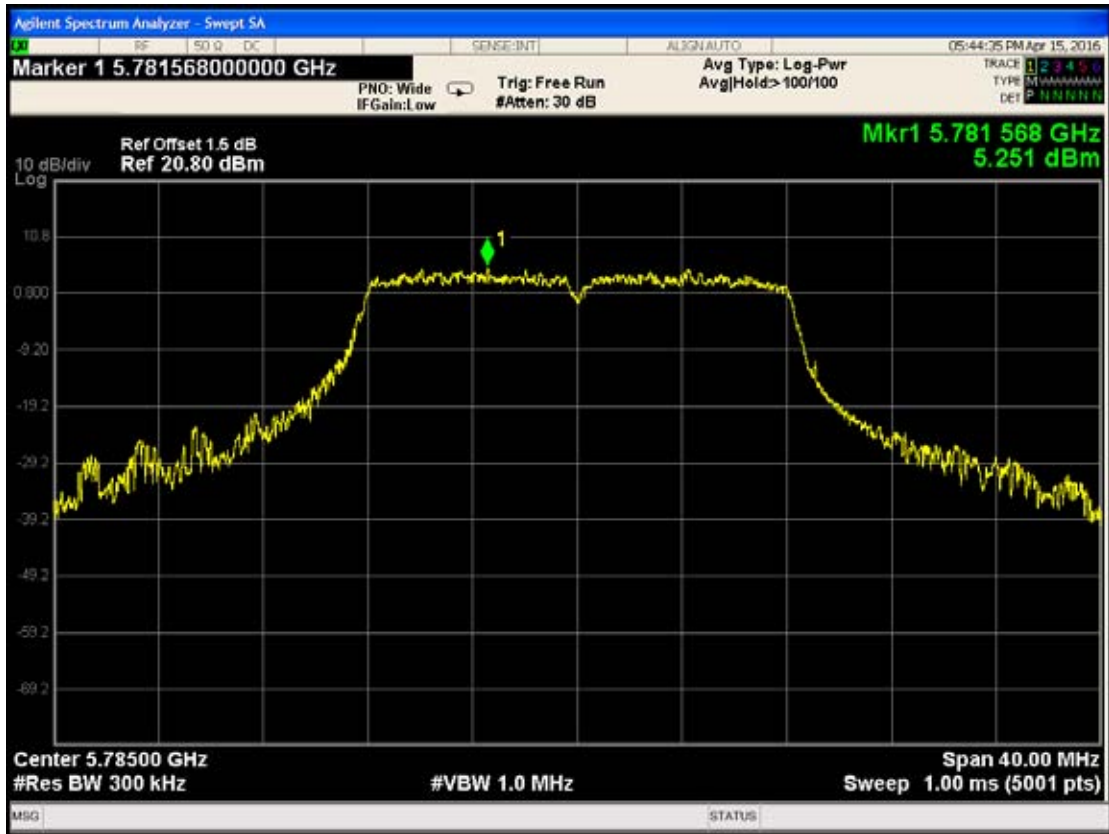
CH 48



CH 149



CH 157

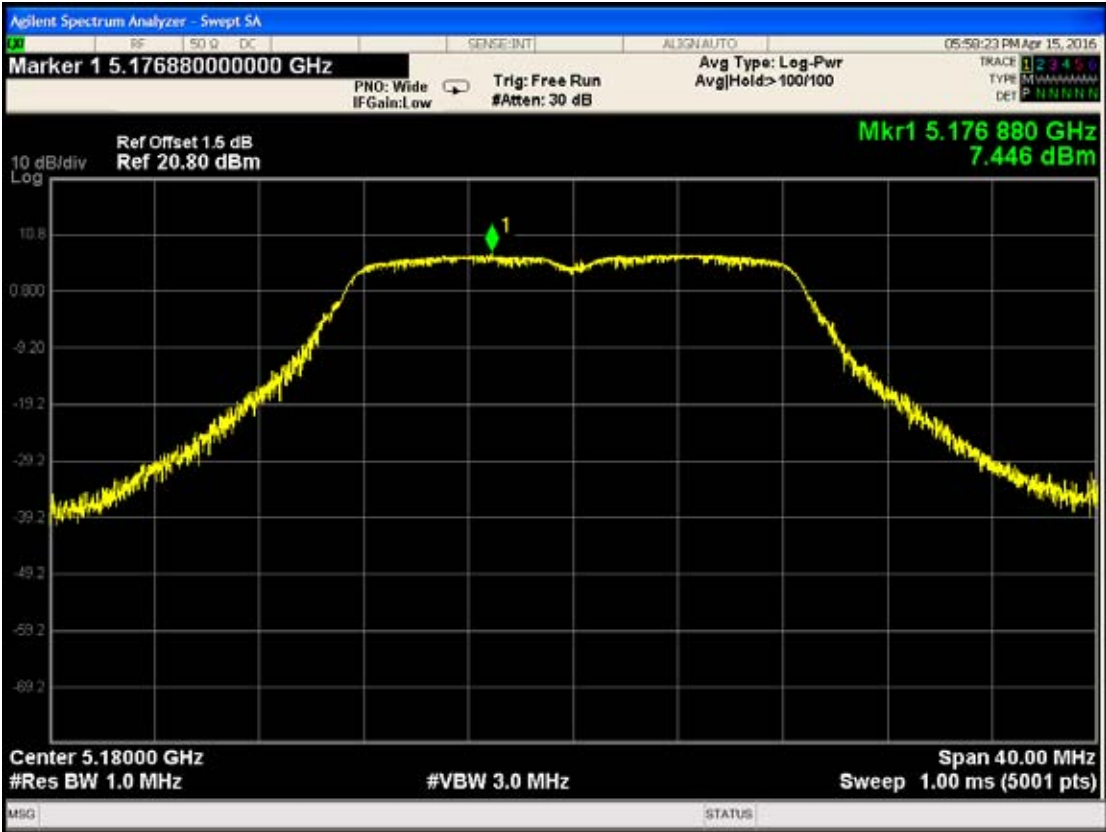


CH 165



8.5.2. 802.11n HT20

CH 36



CH 44



CH 48



CH 149



CH 157



CH 165



## 9. OCCUPIED BANDWIDTH 99%POWER MEASUREMENT

### 9.1. Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	PXA Signal Analyzer	Agilent	N9030A	MY53120367	2015-06-23	2016-06-22

### 9.2. Block Diagram of Test Setup

The same as section 5.2.

### 9.3. Test Procedure

The measurement guideline was according to KDB 789033 D02 General UNII Test Procedures v01r02.

### 9.4. Test Results

**PASSED.** All the test results are attached in next pages.

Test Date: Apr.15, 2016

Temperature: 19.1 °C

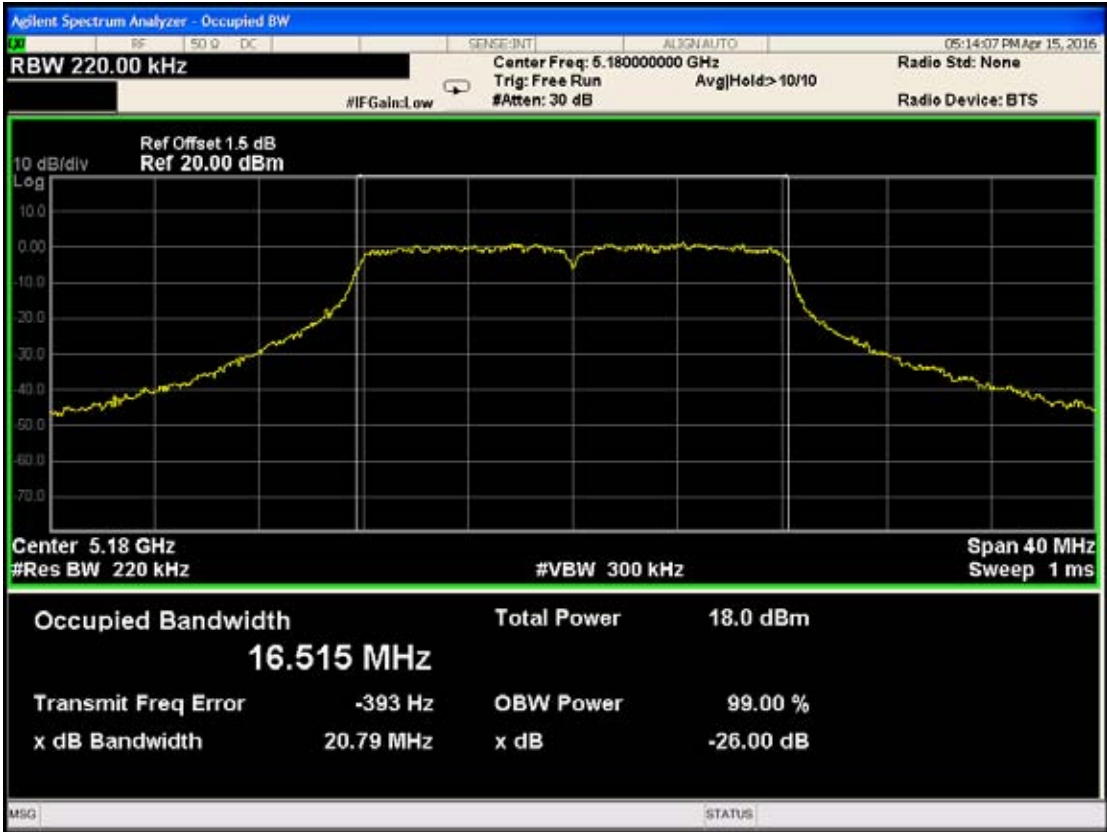
Humidity: 58 %

Item	Channel	Frequency (GHz)	Occupied Bandwidth (MHz)
802.11a	36	5.18	16.515
	44	5.22	16.510
	48	5.24	16.502
	149	5.745	16.411
	157	5.785	16.403
	165	5.825	16.396
802.11n HT 20	36	5.18	17.646
	44	5.22	17.646
	48	5.24	17.632
	149	5.745	17.599
	157	5.785	17.589
	165	5.825	17.575



9.4.1. 802.11a

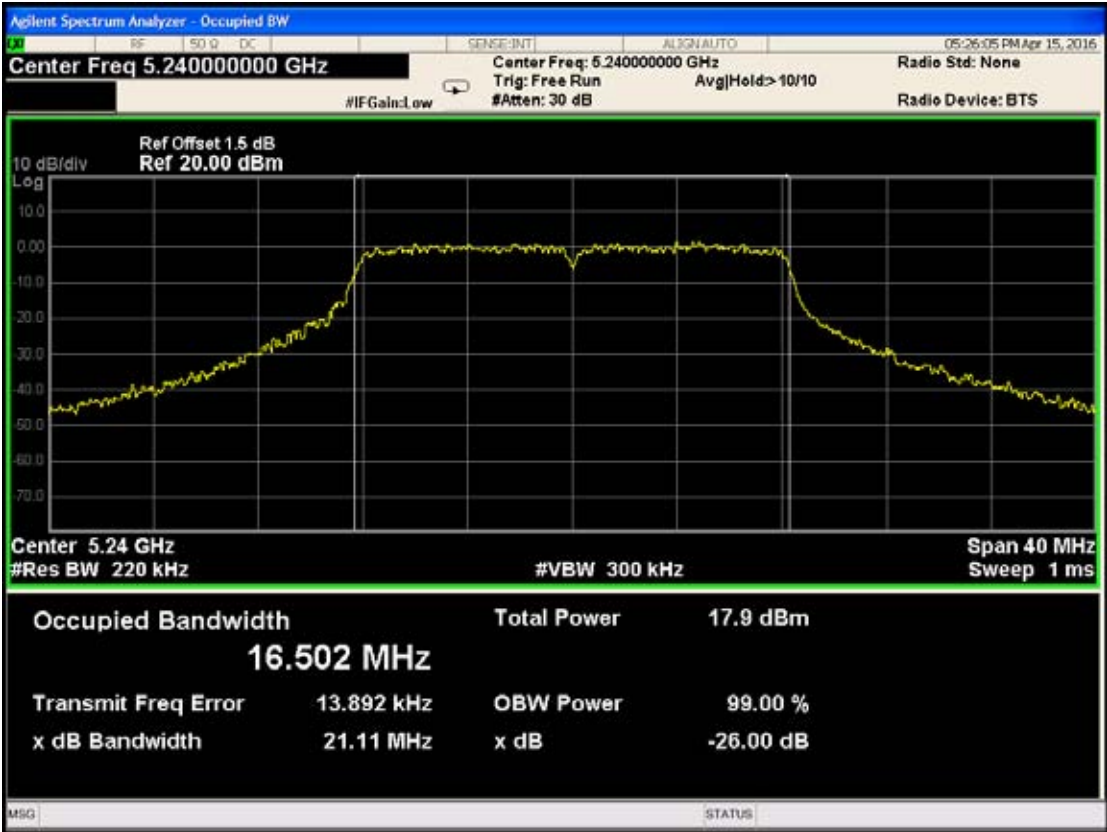
CH 36



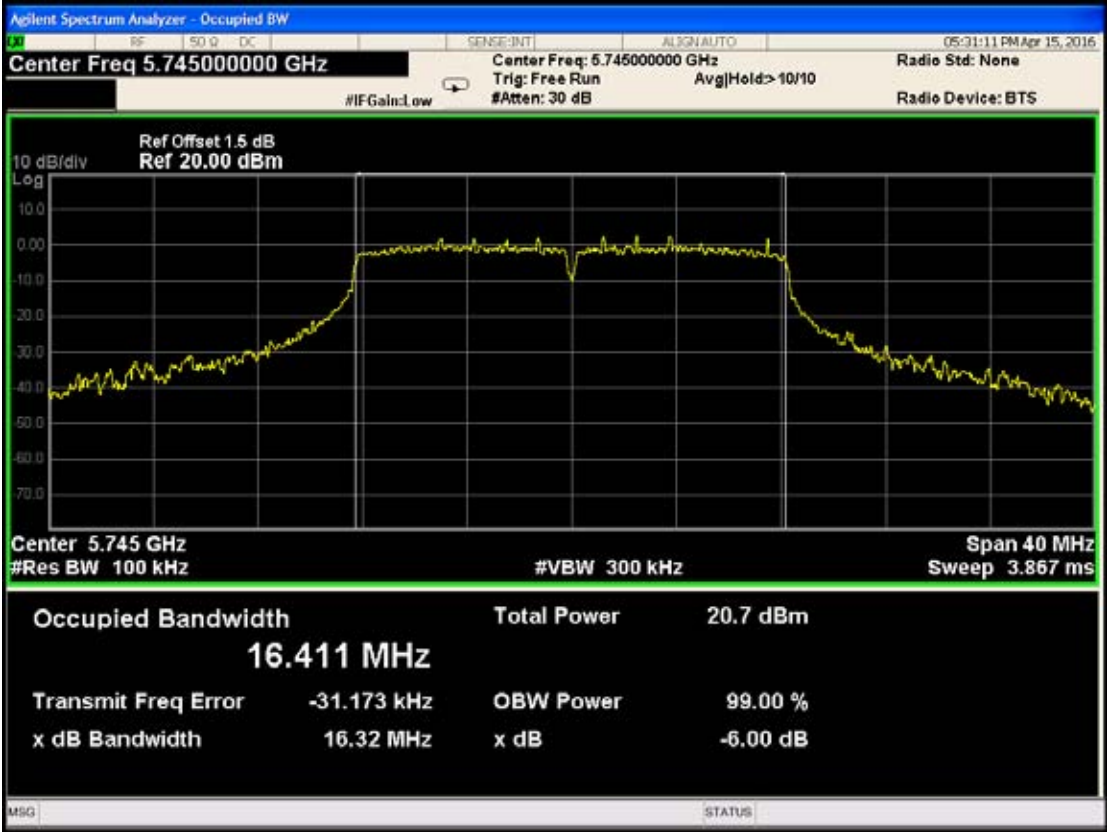
CH 44



CH 48

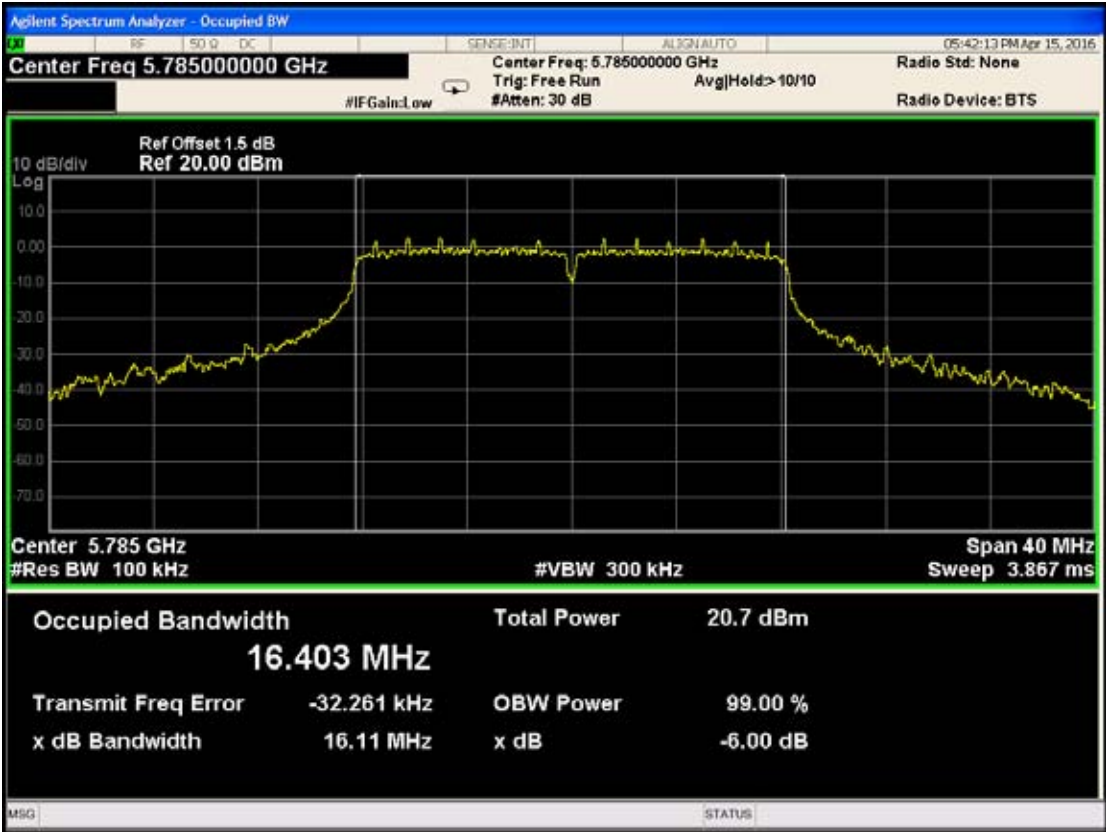


CH 149

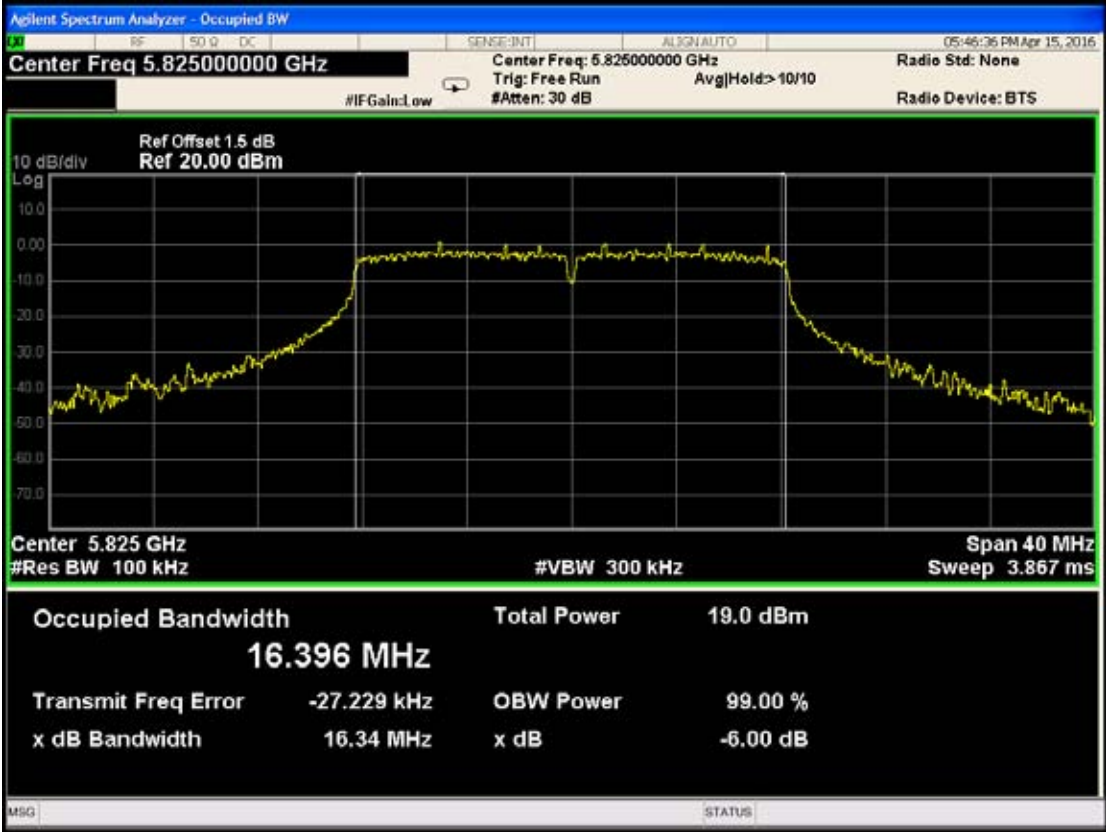




CH 157

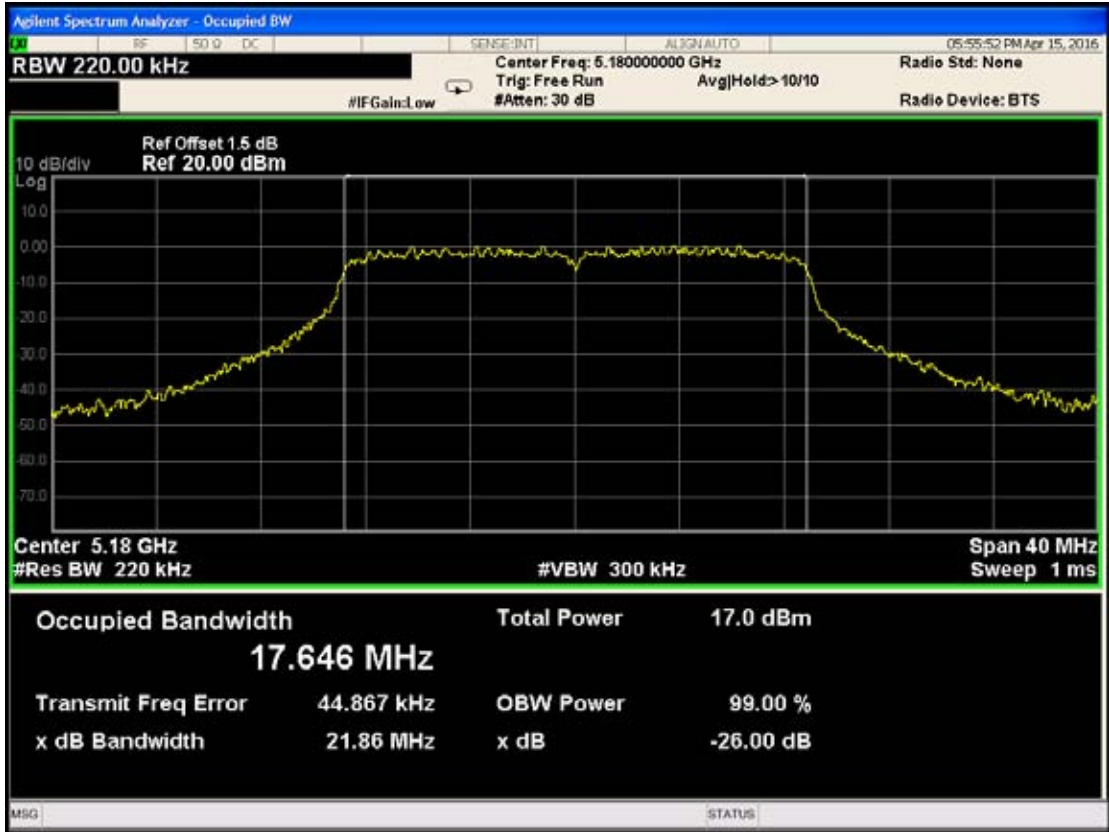


CH 165

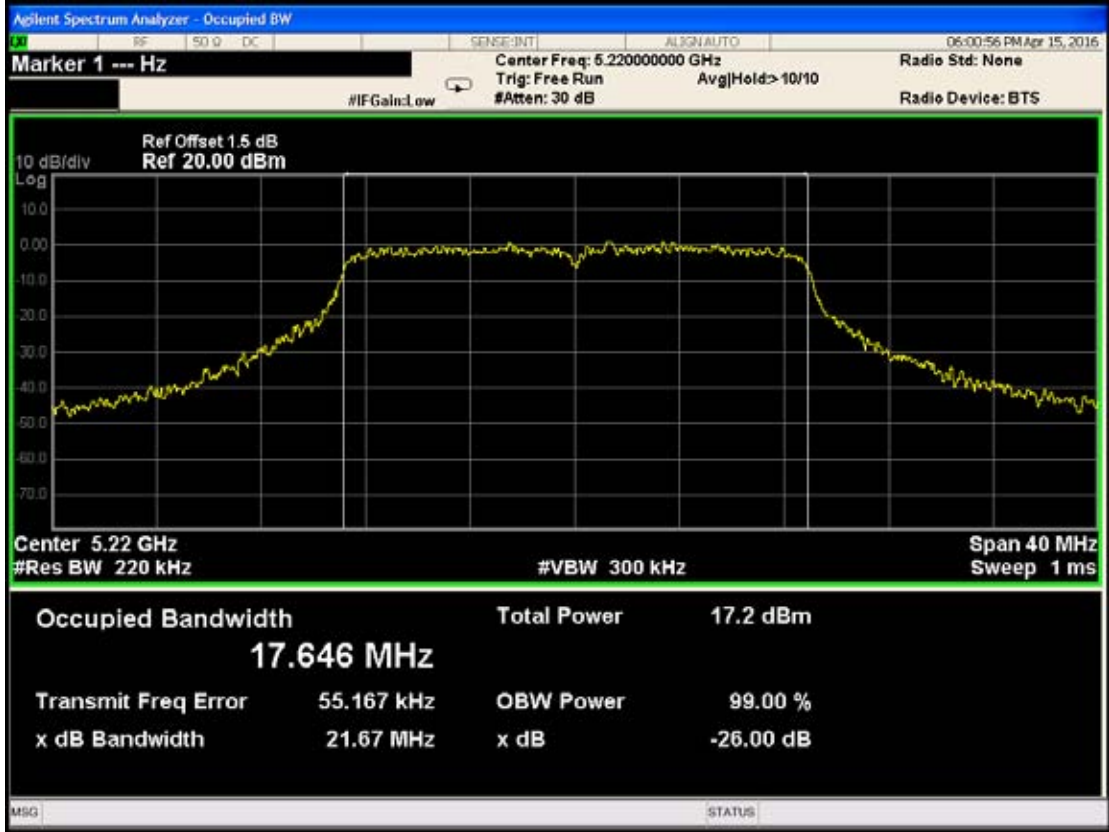


9.4.2. 802.11n HT20

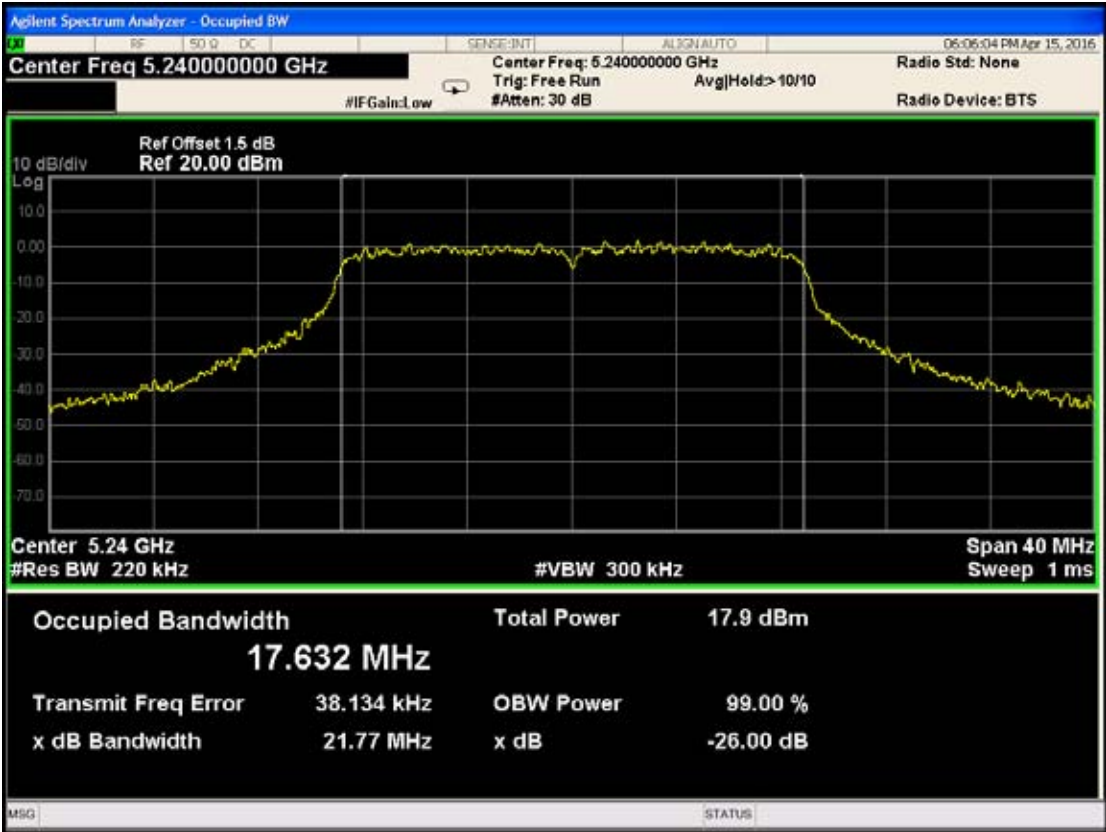
CH 36



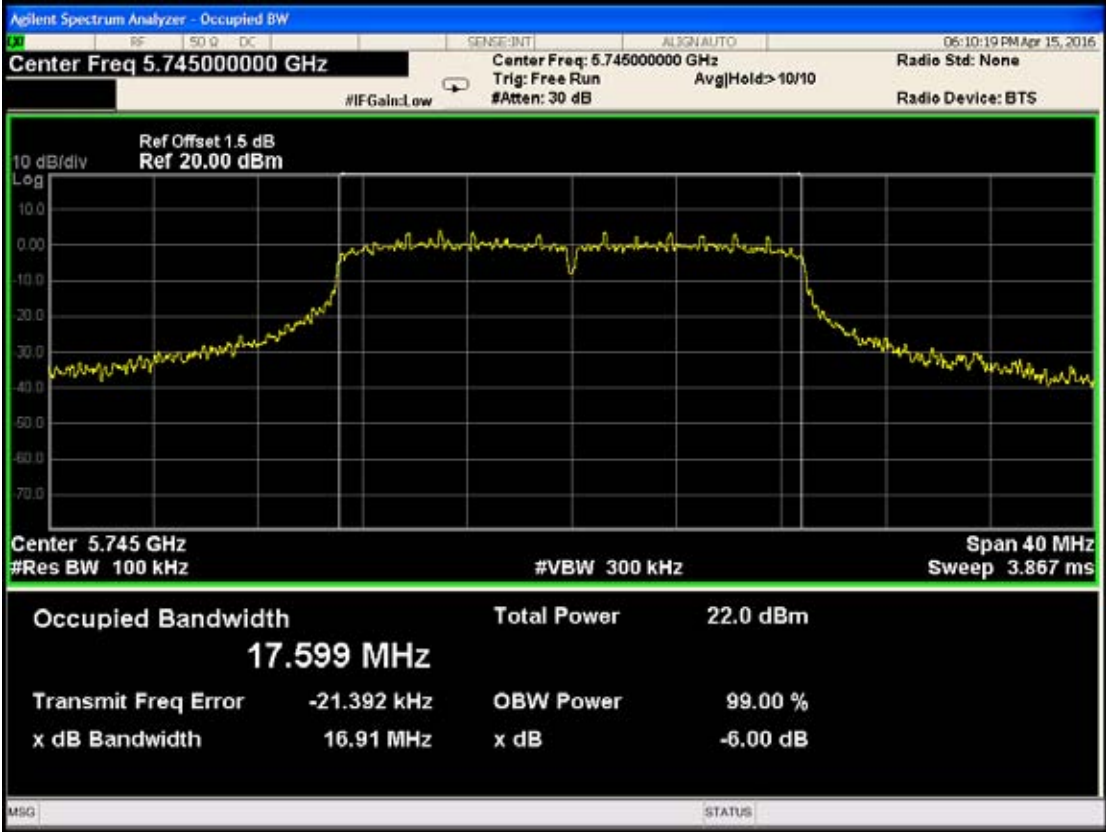
CH 44



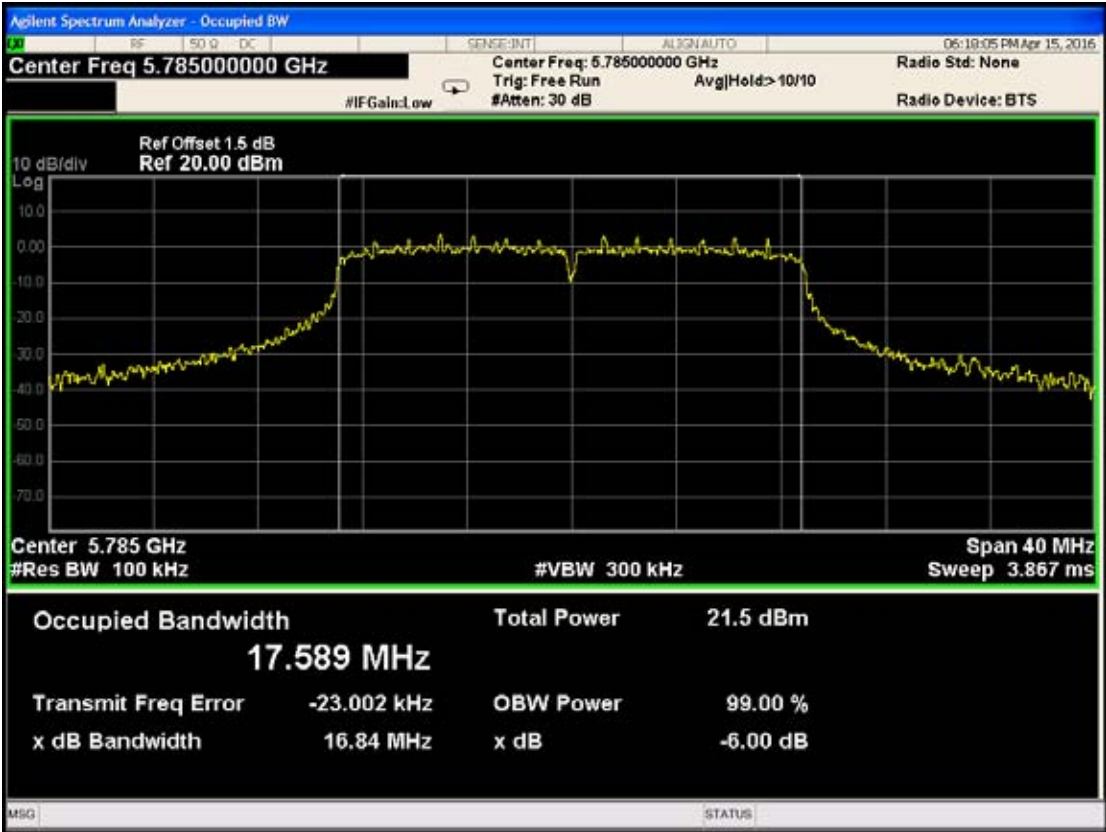
CH 48



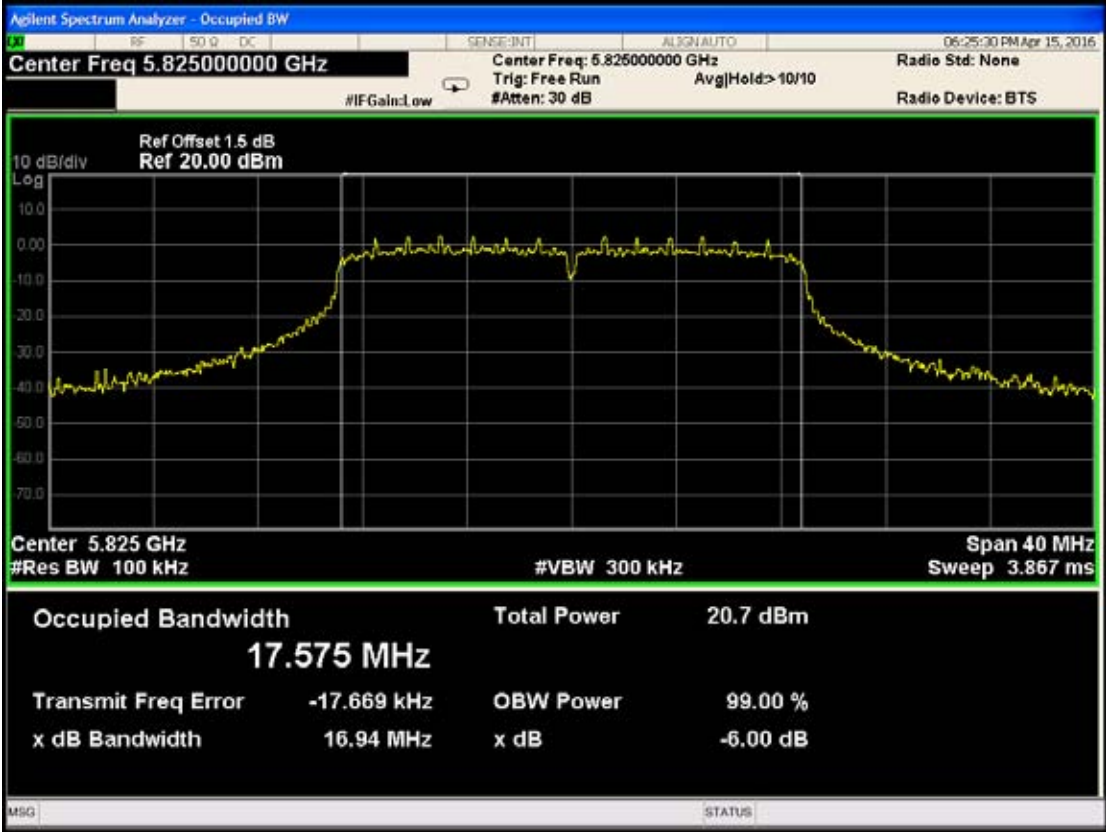
CH 149



CH 157



CH 165

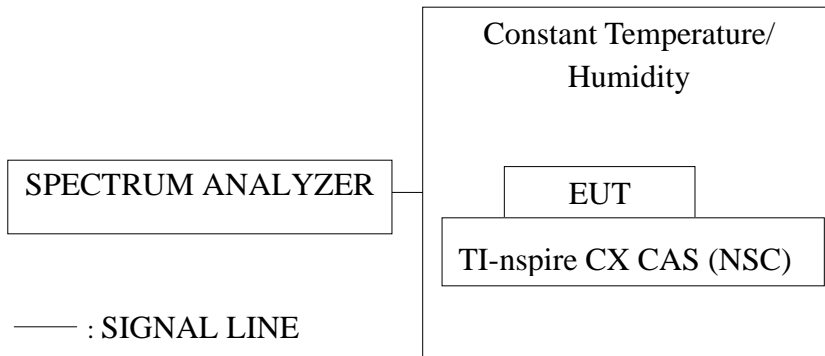


## 10.Frequency Stability Measurement

### 10.1.Test Equipment

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A	MY53120367	2016-05-15	2017-05-14
2.	Constant Temperature/ Humidity	Titech	MHQ-120CLUB	A60614	2015-08-06	2016-08-05

### 10.2.Block Diagram of Test Setup



### 10.3.Specification Limits

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user’s manual or  $\pm 20\text{ppm}$ .

### 10.4.Test Results

**PASSED.** All the test results are attached in next pages.

Operation Frequency:5180MHz									
Temp (°C)	Power (Vac)	0 Minute		2Minute		5Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Tolerance (ppm)	Measured Frequency (MHz)	Frequency Tolerance (ppm)	Measured Frequency (MHz)	Frequency Tolerance (ppm)	Measured Frequency (MHz)	Frequency Tolerance (ppm)
-20	Normal	5180.0114	2.20	5180.0112	2.16	5180.0108	2.08	5180.0112	2.16
-10		5180.0108	2.08	5180.0114	2.20	5180.0104	2.01	5180.0121	2.34
0		5180.0000	0	5180.0108	2.08	5180.0109	2.10	5180.0109	2.10
10		5179.9831	-3.26	5179.9830	-3.28	5179.9830	-3.28	5179.9800	-3.86
20		5179.9800	-3.86	5179.9825	-3.38	5179.9825	-3.38	5179.9818	-3.51
30		5179.9836	-3.17	5179.9836	-3.17	5179.9835	-3.19	5179.9836	-3.17
40		5180.0185	3.57	5180.0187	3.61	5180.0187	3.61	5180.0181	3.49
50		5180.0108	2.08	5180.0103	1.99	5180.0108	2.08	5180.0108	2.08
20	Max	5179.9824	-3.40	5179.9805	-3.76	5179.9823	-3.42	5179.9823	-3.42
	Min	5179.9823	-3.42	5179.9825	-3.38	5179.9825	-3.38	5179.9826	-3.36

## **11.DEVIATION TO TEST SPECIFICATIONS**

**【NONE】**