

APPLICATION FOR CERTIFICATION

On Behalf of

SONY CORPORATION

Personal Content Station

Model No. : LLS-201

FCC ID : AK8LLS201

IC: 409B-LLS201

Brand : SONY

Prepared for : SONY CORPORATION
1-7-1 Konan, Minato-ku, Tokyo, 108-0075,
Japan

Prepared by : AUDIX Technology Corporation
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File Number : C1M1211100
Report Number : EM-F1010956
Date of Test : Nov. 23 ~ Dec. 25, 2012
Date of Report : Jan. 18, 2013

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TEST REPORT CERTIFICATION

Applicant : SONY CORPORATION
Manufacturer : SONY CORPORATION
EUT Description : Personal Content Station
FCC ID : **AK8LLS201**
IC : **409B-LLS201**
(A) Model No. : LLS-201
(B) Serial No. : N/A
(C) Brand : SONY
(D) Power Supply : DC 12V (Powered by AC Adapter)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C & E, Oct. 2011
(FCC CFR 47 Part 15C & E, §15.205, §15.207, §15.209 and 15.407)
Industry Canada Rules and Regulations RSS-Gen (Issue 3), December 2010 and
RSS-210 (Issue 8), December 2010
(Canada RSS-210 §Annex 9)
AND ANSI C63.4:2003

The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C & E and Canada RSS-210 (Issue 8) Annex 9 limits.

The measurement results are contained in this test report and AUDIX Technology Corporation 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 requirements of FCC Part 15 and Industry Canada RSS-Gen, RSS-210 standards.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test: Nov. 23 ~ Dec. 25, 2012 Date of Report: Jan. 18, 2013

Producer: Annie Yu
(Annie Yu/Assistant Administrator)

Signatory: Leon Liu
(Leon Liu/Deputy General Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	Personal Content Station The frequency range of 5150MHz ~ 5250MHz was tested in this report. The frequency range of 2400MHz ~ 2483.5MHz has been tested and the test data are reported in other report of EM-F1010955.
Model Number	:	LLS-201
Serial Number	:	N/A
Brand	:	SONY
FCC ID	:	AK8LLS201
IC	:	409B-LLS201
Applicant	:	SONY CORPORATION 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan
Manufacturer	:	SONY CORPORATION 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan
AC Adapter	:	SONY, M/N AC-NB12A Input: 100V-240V~, 0.65A-0.35A, 50/60Hz Output: 12V, 2.5A Cord: Non-Shielded, Undetachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m
Fundamental Range	:	2412MHz ~ 2462MHz and 5180MHz ~ 5240MHz
Radio Technology	:	802.11b: DSSS Modulation (DBPSK/DQPSK/CCK) 802.11a/g/n-HT20/n-HT40: OFDM Modulation (BPSK/QPSK/16QAM/64QAM)

Data Transfer Rate	:	802.11b: 1/2/5.5/11Mbps 802.11a/g: 6/9/12/18/24/48/54Mbps 802.11n: up to 300Mbps
Antenna Gain	:	2.4HGz: 0.8dBi 5HGz: 3.3dBi
Antenna Transmit Type	:	1T1R
Antenna Type	:	Inverted Antenna
Date of Receipt of Sample	:	Nov. 12, 2012
Date of Test	:	Nov. 23 ~ Dec. 25, 2012

1.2. Data Rate Relative to Output Power

NII 802.11a (5.2GHz)			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)
36	BPSK	6	9.48
36	BPSK	9	9.47
36	QPSK	12	9.45
36	QPSK	18	9.44
36	16-QAM	24	9.41
36	16-QAM	36	9.40
36	64-QAM	48	9.39
36	64-QAM	54	9.37

NII 802.11n-HT20 (5.2GHz)				NII 802.11n-HT40 (5.2GHz)			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)	Channel	Modulation	Date Rate (Mbps)	Power (dBm)
36	BPSK	6.5	9.39	46	BPSK	13.5	9.36
36	QPSK	13	9.38	46	QPSK	27	9.34
36	QPSK	19.5	9.36	46	QPSK	40.5	9.32
36	16-QAM	26	9.34	46	16-QAM	54	9.30
36	16-QAM	39	9.31	46	16-QAM	81	9.29
36	64-QAM	52	9.25	46	64-QAM	108	9.28
36	64-QAM	58.6	9.25	46	64-QAM	121.5	9.26
36	64-QAM	65	9.21	46	64-QAM	135	9.24

1.3. Test Configuration for Each Test Item

Test Item	802.11a	802.11n-HT20	802.11n-HT40
	Data Rate for Test(Mbps)		
26dB Bandwidth	6	6.5	13.5
Emission Limitations	6	6.5	13.5
Maximum peak output power	6	6.5	13.5
Power spectral density	6	6.5	13.5
Peak power Excursion	6	6.5	13.5
Frequency Stability	6	6.5	13.5

1.4. Tested Supporting System Details

1.4.1. NOTEBOOK PC (LINK TO ROUTER)

Model Number : PP19S
 Serial Number : 8285
 FCC ID : MCLBCM92046
 BSMI ID : R33002
 Brand : DELL
 AC Adapter : M/N:AD6513
 DC Cord: Non-Shielded, Undetachable, 2.4m
 LAN Cable : Shielded, Detachable, 1.5m
 Power Cord : Non-Shielded, Detachable, 1.8m

1.4.2. ROUTER (LINK TO EUT)

Model Number : DIR-635
 Serial Number : N/A
 FCC ID : KA2DIR635B3
 Brand : D-Link
 LAN Cable : Shielded, Detachable, 1.0m
 AC Adapter : D-Link , M/N:CF1505-B
 Power Cord : Non-Shielded, Undetachable, 1.8m

1.4.3. USB JIG (LINK TO EUT)

Model Number : UE-200Tx-G2
 Serial Number : N/A
 USB→LAN Cable : Non-Shielded, Detachable, 0.3m

1.5. Description of Test Facility

Name of Firm : **AUDIX Technology Corporation**
 EMC Department
 No. 53-11, Dingfu, Linkou Dist.,
 New Taipei City 244, Taiwan, R.O.C.

Test Site : **No. 6 Shielded Room &**
 (C3/Semi-AC) No. 67-4, Dingfu, Linkou Dist.,
 New Taipei City 244, Taiwan, R.O.C.

Semi-Anechoic Chamber
 No. 53-11, Dingfu, Linkou Dist.,
 New Taipei City 244, Taiwan, R.O.C.

May 14, 2009 Renewal on
 Federal Communication Commission
 Registration Number: 90993

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	± 1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.74dB
	Above 1GHz	± 5.02dB

Remark : Uncertainty = $ku_c(y)$

Test Item	Uncertainty
26dB Bandwidth	± 0.2kHz
Maximum peak output power	± 0.33dBm
Power spectral density	± 0.13dB
Peak power Excursion	± 0.14dB

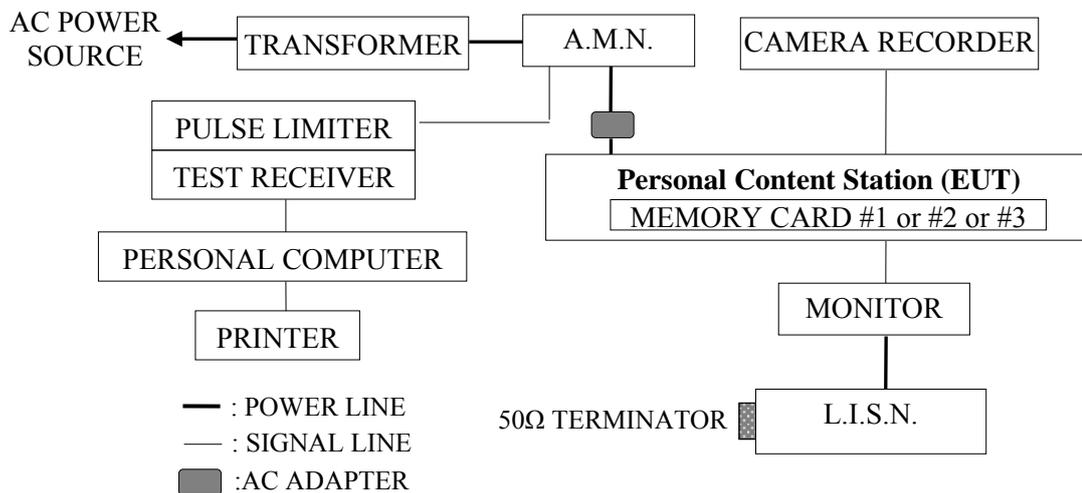
2. CONDUCTED EMISSION MEASUREMENT

2.1. Test Equipment

The following test equipment was used during the powerline conducted emission measurement: (No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCS30	100337	Apr. 09, 12'	Apr. 08, 13'
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Mar. 27, 12'	Mar. 26, 13'
	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	Mar. 08, 12'	Mar. 07, 13'
	Pulse Limiter	R&S	ESH3-Z2	100041	Feb. 01, 12'	Jan. 31, 13'

2.2. Block Diagram of Test Setup



2.3. Powerline Conducted Emission Limit [§15.207, Class B, RSS-Gen §7.2.2/Table 2]

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB μ V	56 ~ 46 dB μ V
500kHz ~ 5MHz	56 dB μ V	46 dB μ V
5MHz ~ 30MHz	60 dB μ V	50 dB μ V

- Remark: 1. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.
2. The lower limit applies at the band edges.

2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT and simulator as shown on 2.2.
- 2.4.2. Turn on the power of all equipment.
- 2.4.3. The **EUT (Personal Content Station)** was on transmitting function at work during all testing.

2.5. Test Procedure

The EUT was placed on the table which was above the ground by 80cm and Notebook its' adapter's power cord connected to the AC mains through an Artificial Mains Network (A.M.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.) Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables should be manipulated according to ANSI C63.4-2003, RSS-Gen and RSS-210 regulation during conducted measurement.

The bandwidth of the R&S Test Receiver ESCS30 was set at 9kHz.

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

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

2.6. Powerline Conducted Emission Measurement Results

PASSED.

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

EUT was performed during this section testing and all the test results are attached in next pages.

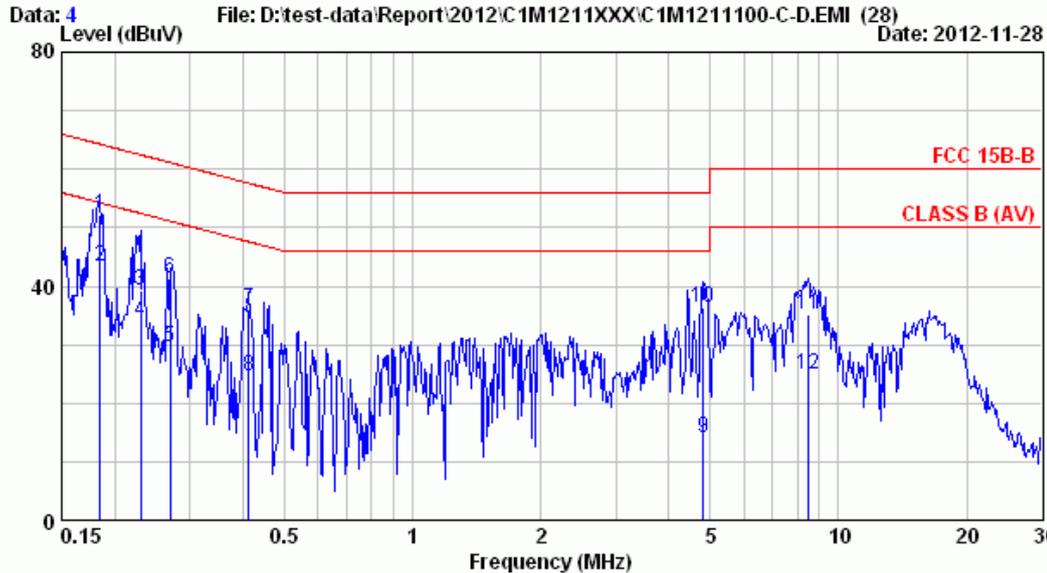
EUT : Personal Content Station M/N : LLS-201

Test Date : Nov. 28, 2012 Temperature : 25°C Humidity : 52%

Reference Test Data : Neutral # 4; Line # 3



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Site : No.3 Shielded Room Data : 4
 Condition : KNW-244C Phase : NEUTRAL
 Limit : FCC 15B-B
 Env. / Ins. : 25°C / 52% ESCS 30 (337) Engineer: Edward
 EUT M/N : LLS-201
 Power Rating : 120Vac / 60Hz
 Test Mode : Operating

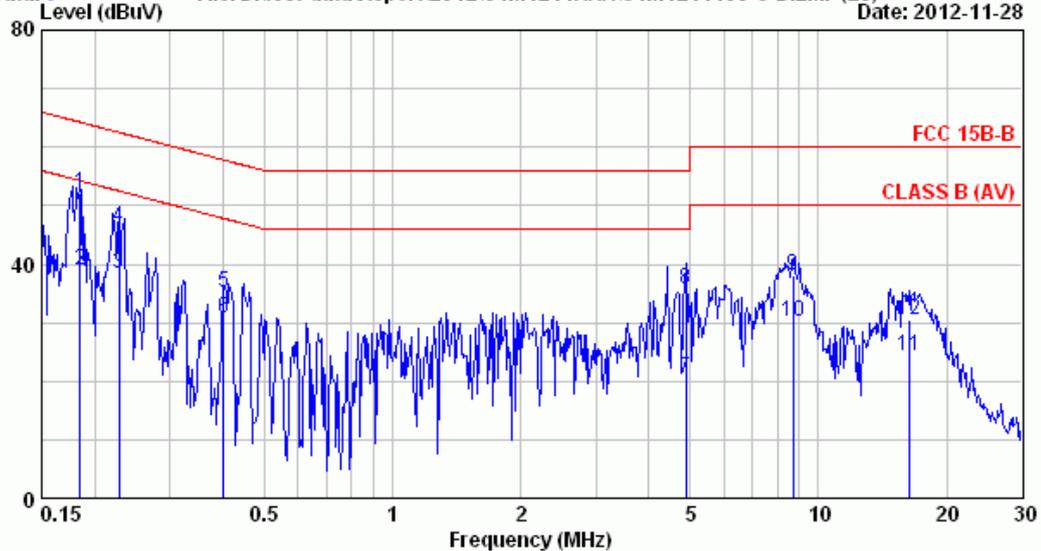
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.184	0.11	0.20	51.91	52.22	64.28	12.06	QP
2	0.184	0.11	0.20	43.14	43.45	54.28	10.83	AVERAGE
3	0.230	0.10	0.20	39.00	39.30	52.44	13.14	AVERAGE
4	0.230	0.10	0.20	33.57	33.87	52.44	18.57	AVERAGE
5	0.270	0.10	0.20	29.28	29.58	51.12	21.54	AVERAGE
6	0.270	0.10	0.20	40.90	41.20	61.12	19.92	QP
7	0.413	0.10	0.20	35.84	36.14	57.59	21.45	QP
8	0.413	0.10	0.20	24.37	24.67	47.59	22.92	AVERAGE
9	4.822	0.22	0.60	13.21	14.03	46.00	31.97	AVERAGE
10	4.822	0.22	0.60	35.38	36.20	56.00	19.80	QP
11	8.501	0.28	0.60	34.21	35.09	60.00	24.91	QP
12	8.501	0.28	0.60	24.05	24.93	50.00	25.07	AVERAGE

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



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Data: 3 File: D:\test-data\Report\2012\C1M1211XXX\C1M1211100-C-D.EMI (28) Date: 2012-11-28



Site : No.3 Shielded Room Data : 3
 Condition : KMW-244C Phase : LINE
 Limit : FCC 15B-B
 Env. / Ins. : 25°C / 52% ESCS 30 (337) Engineer: Edward
 EUT M/N : LLS-201
 Power Rating : 120Vac / 60Hz
 Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.184	0.11	0.20	51.71	52.02	64.28	12.26	QP
2	0.184	0.11	0.20	38.67	38.98	54.28	15.30	AVERAGE
3	0.228	0.10	0.20	37.96	38.26	52.52	14.26	AVERAGE
4	0.228	0.10	0.20	45.94	46.24	62.52	16.28	QP
5	0.402	0.10	0.20	34.85	35.15	57.81	22.66	QP
6	0.402	0.10	0.20	30.45	30.75	47.81	17.06	AVERAGE
7	4.874	0.24	0.60	19.60	20.44	46.00	25.56	AVERAGE
8	4.874	0.24	0.60	34.94	35.78	56.00	20.22	QP
9	8.729	0.37	0.60	37.14	38.11	60.00	21.89	QP
10	8.729	0.37	0.60	29.15	30.12	50.00	19.88	AVERAGE
11	16.312	0.40	0.70	23.36	24.46	50.00	25.54	AVERAGE
12	16.312	0.40	0.70	29.50	30.60	60.00	29.40	QP

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

3. RADIATED EMISSION MEASUREMENT

3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

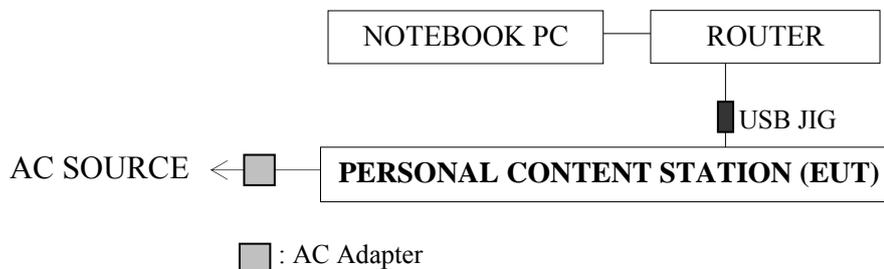
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 08, 12'	Aug. 06, 13'
2.	Test Receiver	R & S	ESCS30	100338	Jul. 04, 12'	Jul. 03, 13'
3.	Amplifier	HP	8447D	2944A06305	Feb. 13, 12'	Feb. 12, 13'
4.	Biconical Antenna	CHASE	VBA6106 A	1264	Mar. 03, 12'	Mar. 02, 13'
5.	Log Periodic Antenna	Schwarzbeck	UHALP91 08-A	0810	Mar. 03, 12'	Mar. 02, 13'

3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

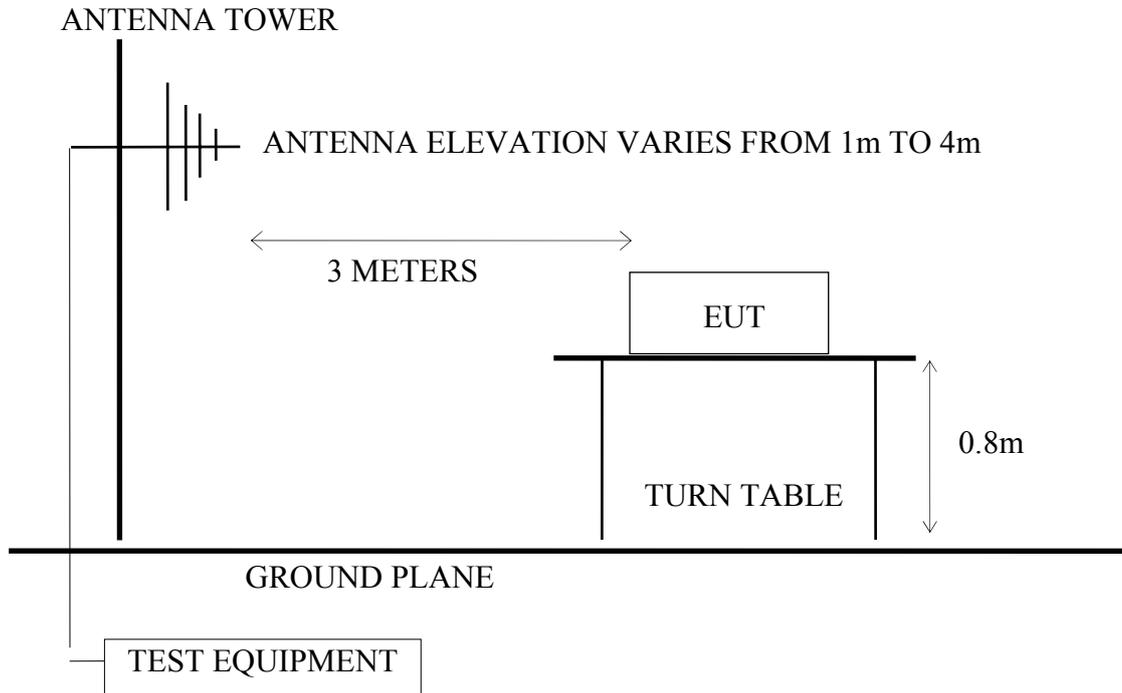
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 08, 12'	Aug. 06, 13'
2.	Amplifier	HP	8449B	3008A00529	Dec. 09, 11'	Dec. 08, 12'
3.	Horn Antenna	EMCO	3115	9112-3775	May 09, 12'	May 08, 13'
4.	Horn Antenna	EMCO	3116	2653	Oct. 15, 11'	Oct. 14, 13'
5.	2.4GHz Notch Filter	EWT	EWT-14-00 70-R1	G2	Feb. 15, 12'	Feb. 14, 13'
6.	3.5G High Pass Filter	HP	84300-8003 8	005	Dec. 15, 11'	Dec. 14, 12'
7.	Signal Generator	HP	83732B	US34490489	May 16, 12'	May 15, 13'

3.2. Test Setup

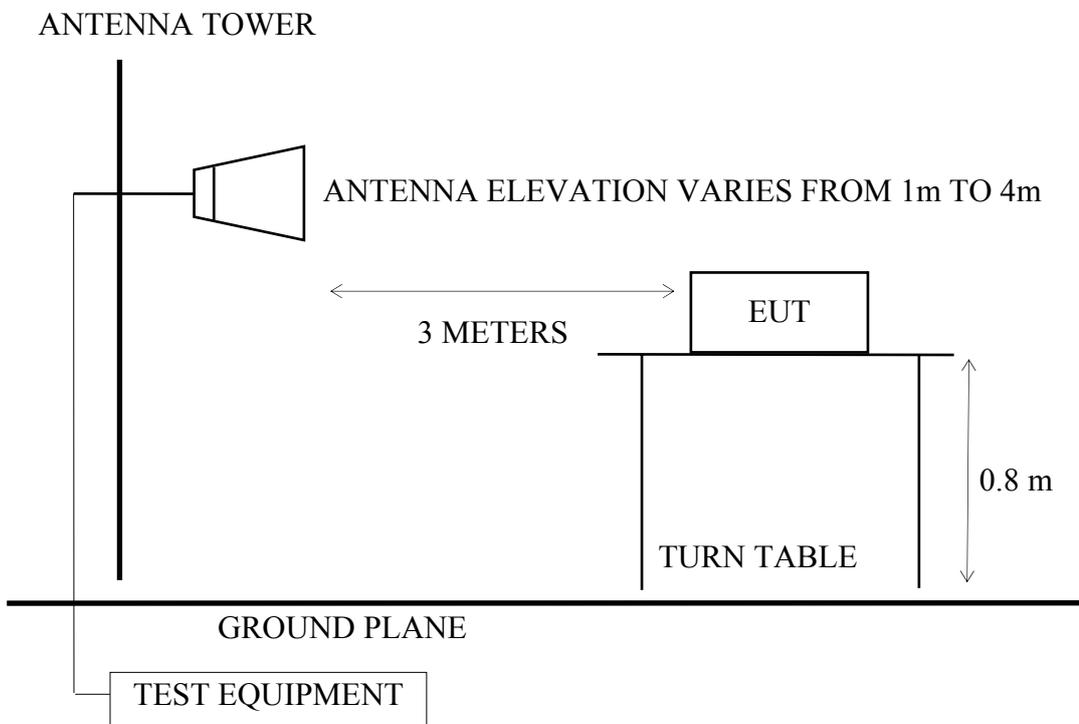
3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



3.3. Radiated Emission Limits

3.3.1. Limits for §15.209, RSS-210 §2.7/Table 2

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		μV/m	dBμV/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 dBμV/m (Peak) 54.0 dBμV/m (Average)	

- Remark :
- (1) Emission level (dBμV/m) = 20 log Emission level (μV/m)
 - (2) The tighter limit applies at the edge between two frequency bands.
 - (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
 - (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
 - (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35 (b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

3.3.2. Limits for §15.407(b)(1)

Pursuant to 15.407(b)(1), all emissions outside of 5150-5350MHz shall not exceed an EIRP of -27dBm/MHz, where -27dBm/MHz equal to 68.2dBuV/m at 3m.

3.4. Operating Condition of EUT

3.4.1. Set up the EUT (Personal Content Station) via Notebook PC as shown on 3.2.

3.4.2. To turn on the power of all equipments.

3.4.3. The EUT was set the Notebook PC using test program “Lab Tool”.

3.4.4. The EUT supports 802.11a/n-HT20/n-HT40 modes, we performed high, middle, low channels for each mode for spurious emission and after testing we listed the worst channel of each mode in test report.

The worst channel of each mode as following:

Mode	Type of Network	Channel
1.	NII 802.11a (5.2GHz)	CH 48
2.	NII 802.11n-HT20 (5.2GHz)	CH 48
3.	NII 802.11n-HT40 (5.2GHz)	CH 46

3.5. Test Procedure

The EUT and its simulators were placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003, RSS-Gen and RSS-210 regulation.

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 40GHz (Up to 10th harmonics from fundamental frequency) was checked. 30MHz to 1000MHz was measured with Quasi-Peak detector. Pursuant to ANSI 4.2.2, peak detector is an alternate option for frequency from 30MHz to 1000MHz.

Above 1GHz was measured with peak and average detector. For frequency from 2.68GHz to 40GHz, we checked it in 1 meter distance and with a shorter cable 2 meter instead of original's. There is no signal exist.

3.6. Test Results

PASSED.

(All emissions not reported for there is no emission be found.)

EUT : Personal Content Station

M/N : LLS-201

Test Date : Dec. 04, 2012 Temperature : 24°C Humidity : 58%

For Frequency Range 30MHz~1000MHz:

The EUT with following test modes were performed during this section testing and all the test results are listed in section 3.6.1.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	NII 802.11a (5.2GHz)	CH 36	5180MHz	Transmit	# 2	# 1
2.	NII 802.11n-HT20 (5.2GHz)	CH 36	5180MHz	Transmit	# 1	# 2
3.	NII 802.11n-HT40 (5.2GHz)	CH 46	5230MHz	Transmit	# 2	# 1

* Above all final readings were measured with Peak detector.

For Frequency above 1GHz:

The EUT with following test modes were performed during this section testing and all the test results are listed in section 3.6.2.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	NII 802.11a (5.2GHz)	CH 36	5180MHz	Transmit	# 4	# 3
2.	NII 802.11n-HT20 (5.2GHz)	CH 36	5180MHz		# 3	# 4
3.	NII 802.11n-HT40 (5.2GHz)	CH 38	5190MHz		# 4	# 3

- Note: 1. Above all final readings were measured with Peak and Average detector.
 2. For measurements above 1GHz to 2.68GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement. (According to ANSI C63.4-2003 section 8.3.1.2)
 3. The emissions (up to 40GHz) not reported for there is no emission be found.

For Restricted Bands:

The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	NII 802.11a (5.2GHz)	CH 36	5180MHz	Transmit	# 3, # 4	# 1, # 2
2.	NII 802.11n-HT20 (5.2GHz)	CH 36	5180MHz	Transmit	# 1, # 2	# 3, # 4
3.	NII 802.11n-HT40 (5.2GHz)	CH 38	5190MHz	Transmit	# 3, # 4	# 1, # 2

3.6.1. Frequency Range 30-1000MHz

NII 802.11a (5.2GHz), Transmit, Frequency: 5180MHz

Site no. : A/C Chamber site Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11a)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	102.750	17.40	2.10	9.10	28.60	43.50	14.90	Peak
2	376.290	17.15	4.60	10.00	31.75	46.00	14.25	Peak
3	513.060	19.95	6.80	2.37	29.12	46.00	16.88	Peak
4	742.950	22.56	6.70	10.64	39.90	46.00	6.10	Peak
5	889.420	25.09	7.30	9.91	42.30	46.00	3.70	Peak
6	957.320	26.33	7.60	1.42	35.35	46.00	10.65	Peak

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

Site no. : A/C Chamber site Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11a)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	40.670	20.36	1.30	15.35	37.01	40.00	2.99	Peak
2	62.980	12.04	1.63	20.30	33.97	40.00	6.03	Peak
3	515.000	19.97	6.80	2.86	29.63	46.00	16.37	Peak
4	719.670	22.30	6.60	5.38	34.28	46.00	11.72	Peak
5	889.420	25.09	7.30	8.29	40.68	46.00	5.32	Peak
6	998.060	24.70	7.80	6.71	39.21	54.00	14.79	Peak

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

NII 802.11n-HT20 (5.2GHz), Transmit, Frequency: 5180MHz

Site no. : A/C Chamber site Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11n HT-20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	102.750	17.40	2.10	9.82	29.32	43.50	14.18	Peak
2	215.270	21.82	3.20	6.59	31.61	43.50	11.89	Peak
3	376.290	17.15	4.60	8.59	30.34	46.00	15.66	Peak
4	501.420	18.95	6.52	3.61	29.09	46.00	16.91	Peak
5	742.950	22.56	6.70	10.60	39.86	46.00	6.14	Peak
6	889.420	25.09	7.30	9.67	42.06	46.00	3.94	Peak

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

Site no. : A/C Chamber site Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11n HT-20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	59.100	13.16	1.60	11.48	26.24	40.00	13.76	Peak
2	133.790	19.89	2.40	4.04	26.33	43.50	17.17	Peak
3	376.290	17.15	4.60	4.02	25.77	46.00	20.23	Peak
4	742.950	22.56	6.70	5.19	34.45	46.00	11.55	Peak
5	889.420	25.09	7.30	8.06	40.45	46.00	5.55	Peak
6	998.060	24.70	7.80	7.40	39.90	54.00	14.10	Peak

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

NII 802.11n-HT40 (5.2GHz), Transmit, Frequency: 5190MHz

Site no. : A/C Chamber site Data no. : 2
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5190 MHz (802.11n HT-40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	102.750	17.40	2.10	9.52	29.02	43.50	14.48	Peak
2	376.290	17.15	4.60	8.99	30.74	46.00	15.26	Peak
3	742.950	22.56	6.70	9.84	39.10	46.00	6.90	Peak
4	889.420	25.09	7.30	9.35	41.74	46.00	4.26	Peak
5	998.060	24.70	7.80	2.26	34.76	54.00	19.24	Peak

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

Site no. : A/C Chamber site Data no. : 1
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL
 Limit : FCC PART-15C
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5190 MHz (802.11n HT-40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	58.130	13.43	1.60	12.57	27.61	40.00	12.39	Peak
2	175.500	21.19	2.85	9.40	33.45	43.50	10.05	Peak
3	376.290	17.15	4.60	4.82	26.57	46.00	19.43	Peak
4	513.060	19.95	6.80	3.97	30.72	46.00	15.28	Peak
5	742.950	22.56	6.70	4.93	34.19	46.00	11.81	Peak
6	889.420	25.09	7.30	8.74	41.13	46.00	4.87	Peak
7	998.060	24.70	7.80	6.85	39.35	54.00	14.65	Peak

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

3.6.2. 5.0GHz for Above 1GHz Frequency Range Measurement Results

NII 802.11a (5.2GHz), Transmit, Frequency: 5180MHz

Site no. : A/C Chamber site Data no. : 4
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11a)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	16.80	45.28	54.00	8.72	Peak
2	1250.320	25.02	4.68	15.96	45.66	54.00	8.34	Peak
3	1540.960	25.89	5.70	20.36	51.96	54.00	2.04	Peak
4	1784.560	26.78	7.01	12.92	46.71	54.00	7.29	Peak
5	2574.160	28.98	6.59	13.70	49.27	54.00	4.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. Peak is compliance with average limit, thus we do not present AV value.

Site no. : A/C Chamber site Data no. : 3
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11a)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1070.560	24.49	4.33	13.72	42.55	54.00	11.45	Peak
2	1683.760	26.40	6.73	14.36	47.49	54.00	6.51	Peak
3	2056.720	27.71	5.94	11.26	44.91	54.00	9.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. Peak is compliance with average limit, thus we do not present AV value.

NII 802.11n-HT20 (5.2GHz), Transmit, Frequency: 5180MHz

Site no. : A/C Chamber site Data no. : 3
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11n HT-20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	48.71	42.19	54.00	11.81	Peak
2	1124.320	24.64	4.44	53.17	47.43	54.00	6.57	Peak
3	1376.320	25.36	5.07	50.94	46.89	54.00	7.11	Peak
4	1540.960	25.89	5.70	49.34	46.64	54.00	7.36	Peak
5	1784.560	26.78	7.01	46.68	46.23	54.00	7.77	Peak
6	2574.160	28.98	6.59	47.52	48.76	54.00	5.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. Peak is compliance with average limit, thus we do not present AV value.

Site no. : A/C Chamber site Data no. : 4
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11n HT-20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	51.38	44.86	54.00	9.14	Peak
2	1540.960	25.89	5.70	48.82	46.12	54.00	7.88	Peak
3	1784.560	26.78	7.01	46.97	46.52	54.00	7.48	Peak
4	2574.160	28.98	6.59	45.03	46.27	54.00	7.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. Peak is compliance with average limit, thus we do not present AV value.

NII 802.11n-HT40 (5.2GHz), Transmit, Frequency: 5190MHz

Site no. : A/C Chamber site Data no. : 4
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5190 MHz (802.11n HT-40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1124.320	24.64	4.44	18.46	47.54	54.00	6.46	Peak
2	1188.160	24.83	4.56	18.32	47.72	54.00	6.28	Peak
3	1376.320	25.36	5.07	17.02	47.45	54.00	6.55	Peak
4	1784.560	26.78	7.01	14.07	47.86	54.00	6.14	Peak
5	2574.160	28.98	6.59	12.27	47.84	54.00	6.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. Peak is compliance with average limit, thus we do not present AV value.

Site no. : A/C Chamber site Data no. : 3
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5190 MHz (802.11n HT-40)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	1000.000	24.30	4.18	15.10	43.58	54.00	10.42	Peak
2	1330.960	25.22	4.93	14.24	44.39	54.00	9.61	Peak
3	1540.960	25.89	5.70	17.08	48.68	54.00	5.32	Peak
4	1784.560	26.78	7.01	13.06	46.85	54.00	7.15	Peak
5	2574.160	28.98	6.59	11.40	46.97	54.00	7.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. Peak is compliance with average limit, thus we do not present AV value.

3.6.3. Restricted Bands Measurement Results

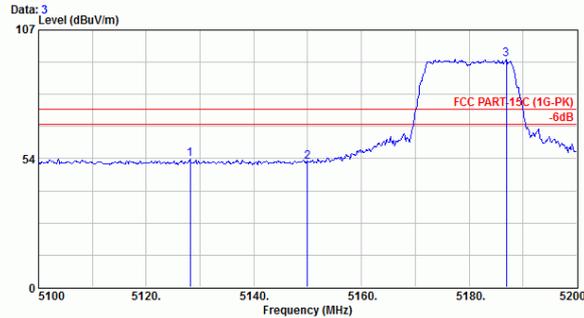
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : NII 802.11a (5.2GHz), Transmit, Channel: 36, Frequency: 5180MHz



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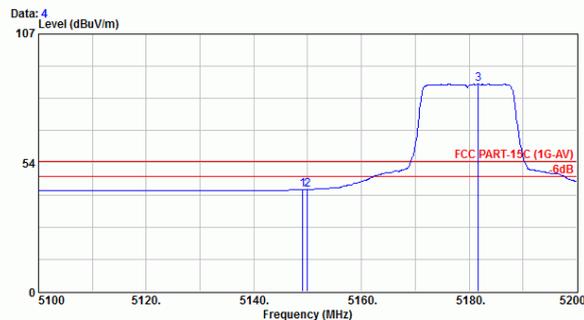
Site no. : A/C Chamber site Data no. : 3
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11a)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5128.200	33.61	9.42	10.12	53.15	74.00	20.85	Peak
2 5150.000	33.64	9.43	9.23	52.30	74.00	21.70	Peak
3 5186.900	33.69	9.46	51.66	94.81	74.00	-20.81	Peak

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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Site no. : A/C Chamber site Data no. : 4
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11a)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5149.100	33.64	9.43	-0.75	42.32	54.00	11.68	Average
2 5150.000	33.64	9.43	-0.68	42.40	54.00	11.60	Average
3 5181.700	33.69	9.46	42.95	86.10	54.00	-32.10	Average

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

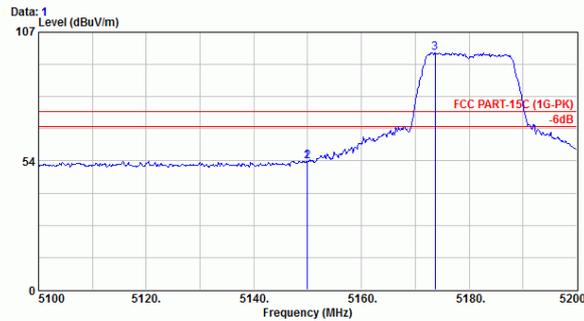
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : NII 802.11a (5.2GHz), Transmit, Channel: 36, Frequency: 5180MHz



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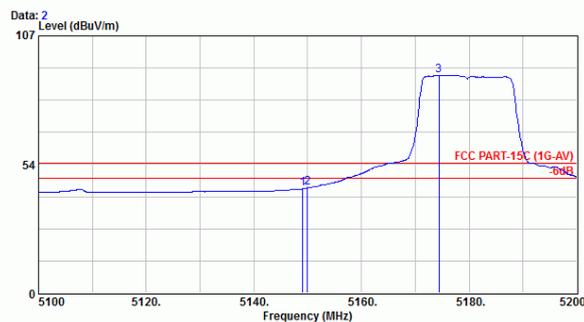
Site no. : A/C Chamber site Data no. : 1
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11a)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5149.900	33.64	9.43	10.39	53.46	74.00	20.54	Peak
2 5150.000	33.64	9.43	10.36	53.43	74.00	20.57	Peak
3 5173.700	33.69	9.46	55.34	98.49	74.00	-24.49	Peak

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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Site no. : A/C Chamber site Data no. : 2
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11a)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5149.100	33.64	9.43	0.30	43.37	54.00	10.63	Average
2 5150.000	33.64	9.43	0.82	43.90	54.00	10.10	Average
3 5174.400	33.69	9.46	47.39	90.54	54.00	-36.54	Average

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

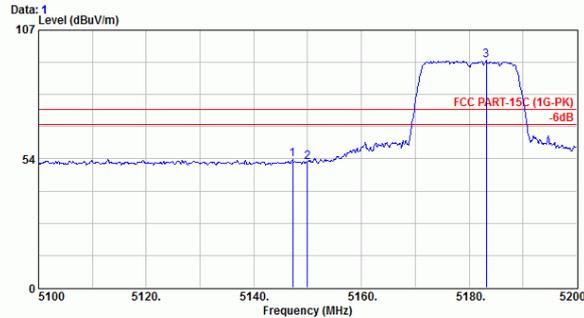
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : NII 802.11n-HT20 (5.2GHz), Transmit, Channel: 36, Frequency: 5180MHz



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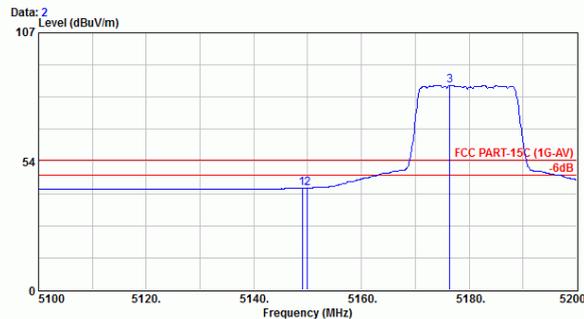
Site no. : A/C Chamber site Data no. : 1
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5147.200	33.64	9.43	10.17	53.24	74.00	20.76	Peak
2 5150.000	33.64	9.43	9.03	52.10	74.00	21.90	Peak
3 5183.200	33.69	9.46	51.18	94.33	74.00	-20.33	Peak

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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Site no. : A/C Chamber site Data no. : 2
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5149.000	33.64	9.43	-0.72	42.35	54.00	11.65	Average
2 5150.000	33.64	9.43	-0.61	42.46	54.00	11.54	Average
3 5176.400	33.69	9.46	41.90	85.05	54.00	-31.05	Average

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

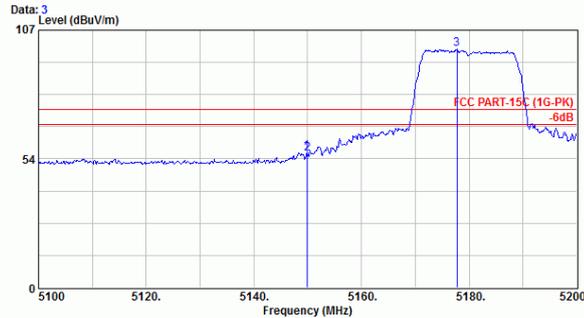
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : NII 802.11n-HT20 (5.2GHz), Transmit, Channel: 36, Frequency: 5180MHz



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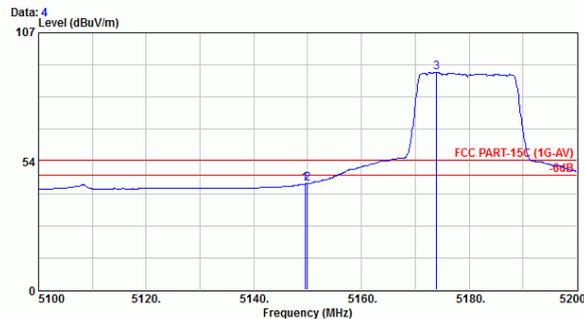
Site no. : A/C Chamber site Data no. : 3
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5149.900	33.64	9.43	13.19	56.26	74.00	17.74	Peak
2 5150.000	33.64	9.43	12.60	55.67	74.00	18.33	Peak
3 5177.700	33.69	9.46	55.97	99.12	74.00	-25.12	Peak

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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Site no. : A/C Chamber site Data no. : 4
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5180 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5149.500	33.64	9.43	1.06	44.14	54.00	9.86	Average
2 5150.000	33.64	9.43	1.24	44.31	54.00	9.69	Average
3 5173.900	33.69	9.46	47.27	90.42	54.00	-36.42	Average

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

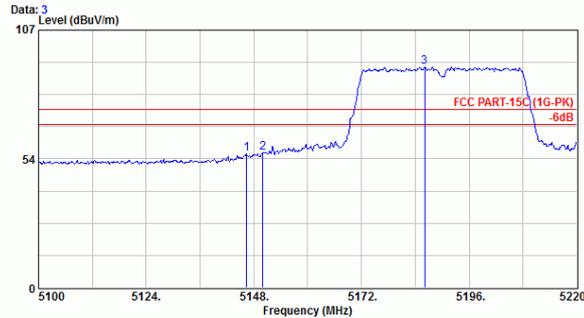
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : NII 802.11n-HT40 (5.2GHz), Transmit, Channel: 38, Frequency: 5190MHz



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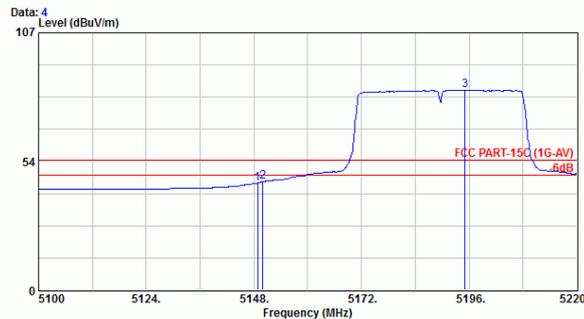
Site no. : A/C Chamber site Data no. : 3
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5190 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5146.440	33.64	9.43	12.61	55.68	74.00	18.32	Peak
2 5150.040	33.64	9.43	12.97	56.04	74.00	17.96	Peak
3 5186.040	33.69	9.46	48.64	91.80	74.00	-17.80	Peak

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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Site no. : A/C Chamber site Data no. : 4
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5190 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5148.840	33.64	9.43	1.34	44.41	54.00	9.59	Average
2 5150.040	33.64	9.43	2.00	45.07	54.00	8.93	Average
3 5195.040	33.72	9.48	40.06	83.26	54.00	-29.26	Average

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

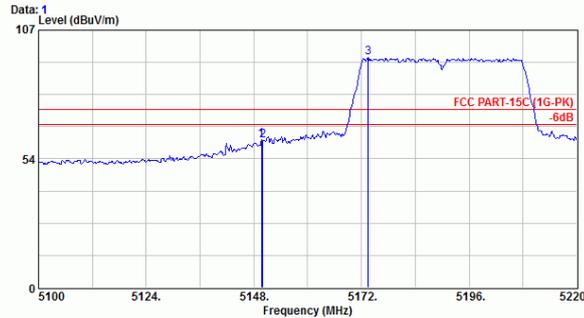
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : NII 802.11n-HT40 (5.2GHz), Transmit, Channel: 38, Frequency: 5190MHz



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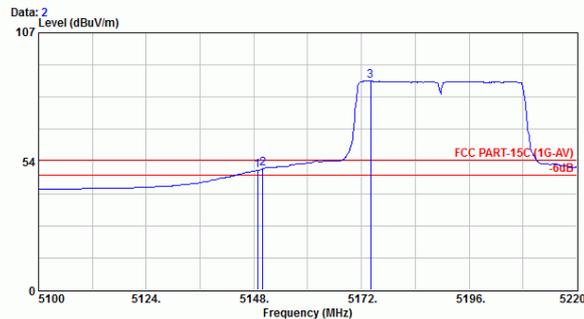
Site no. : A/C Chamber site Data no. : 1
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-PK)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5190 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5149.680	33.64	9.43	18.46	61.53	74.00	12.47	Peak
2 5150.040	33.64	9.43	18.07	61.14	74.00	12.86	Peak
3 5173.440	33.67	9.46	52.56	95.69	74.00	-21.69	Peak

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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Site no. : A/C Chamber site Data no. : 2
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL
 Limit : FCC PART-15C (1G-AV)
 Env. / Ins. : E4446A 24°C/58% Vic Fong
 EUT : LLS-201
 Power Rating : AC120 / 60Hz
 Test Mode : TX5190 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 5148.840	33.64	9.43	6.67	49.74	54.00	4.26	Average
2 5150.040	33.64	9.43	7.37	50.44	54.00	3.56	Average
3 5174.040	33.69	9.46	43.77	86.92	54.00	-32.92	Average

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

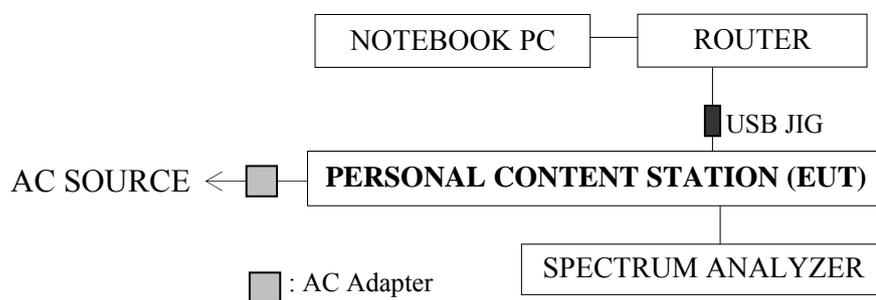
4. 26dB BANDWIDTH MEASUREMENT

4.1. Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

4.2. Block Diagram of Test Setup



4.3. Operating Condition of EUT

The test program “Lab Tool” was used to enable the EUT to transmit data at different channel frequency individually.

4.4. Test Procedure

1. Set RBW=approximately 1% of the emission bandwidth.
2. Set the VBW>RBW
3. Detector=Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26dB down from the peak of the emission. Compare this with RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The measurement guideline was according to KDB789033 D01-v01r02

The measurement guideline was according to RSS-Gen.

4.5. Test Results

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

(Test Date : Dec. 25, 2012 Temperature : 26°C Humidity : 59%)

4.5.1. For NII 802.11a (5.2GHz)

Mode	Type of Network	Channel	Frequency	26dB Bandwidth
1.	NII 802.11a (5.2GHz)	CH 36	5180MHz	19.24MHz
2.		CH 40	5200MHz	19.56MHz
3.		CH 48	5240MHz	19.18MHz

4.5.2. For NII 802.11n-HT20 (5.2GHz)

Mode	Type of Network	Channel	Frequency	26dB Bandwidth
1.	NII 802.11n-HT20 (5.2GHz)	CH 36	5180MHz	19.88MHz
2.		CH 40	5200MHz	20.00MHz
3.		CH 48	5240MHz	19.98MHz

4.5.3. For NII 802.11n-HT40 (5.2GHz)

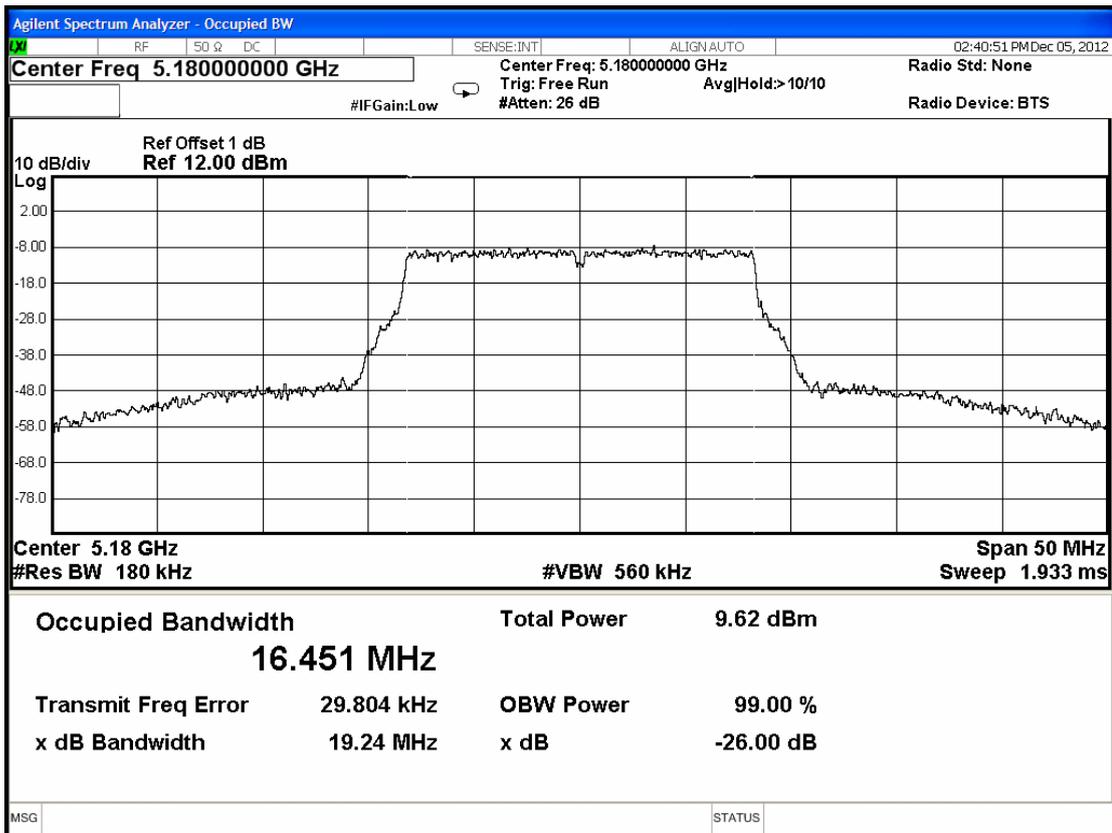
Mode	Type of Network	Channel	Frequency	26dB Bandwidth
1.	NII 802.11n-HT40 (5.2GHz)	CH 38	5190MHz	39.80MHz
2.		CH 46	5230MHz	39.98MHz

4.5.4. For demonstrating in compliance with 15.215

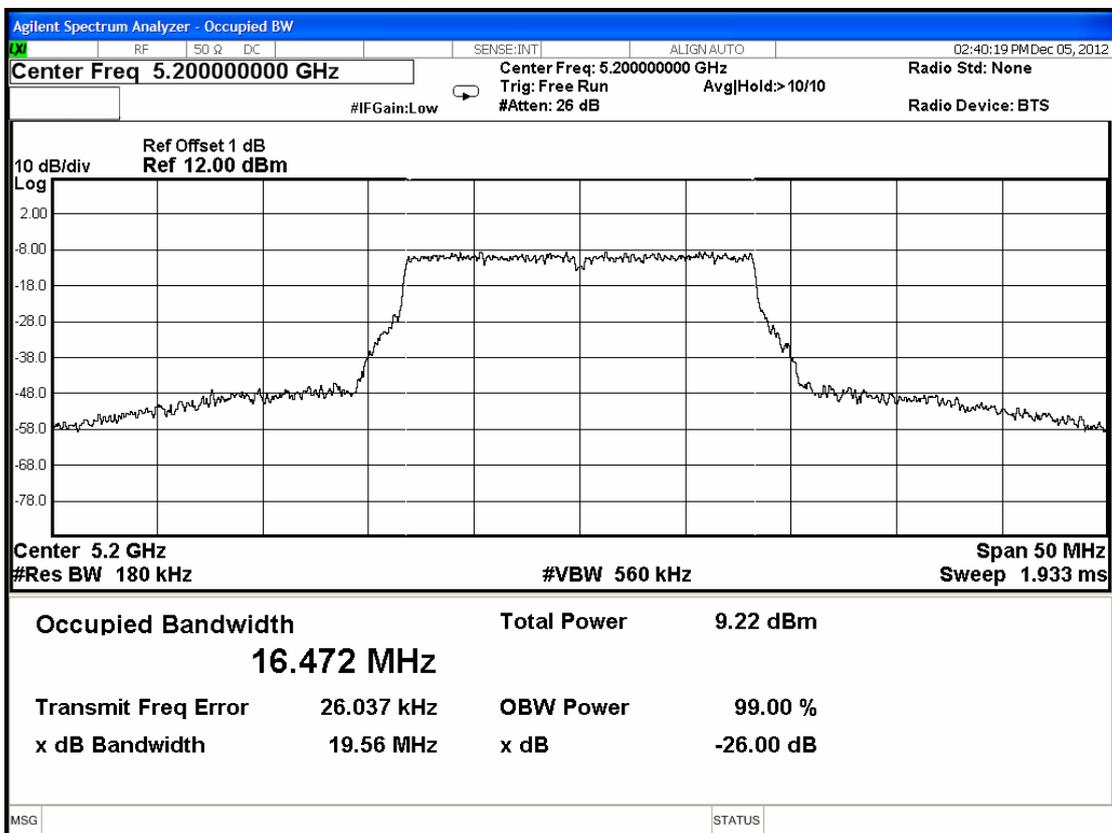
Mode	Mode for Widest BW	Channel	The Edge Frequency of 26dB	Result
1.	NII 802.11n-HT20	48	5244.99	Compliant
2.	NII 802.11n-HT40	46	5244.99	Compliant

The edge frequency is calculated from formula “centre frequency + 26dB BW/2”.

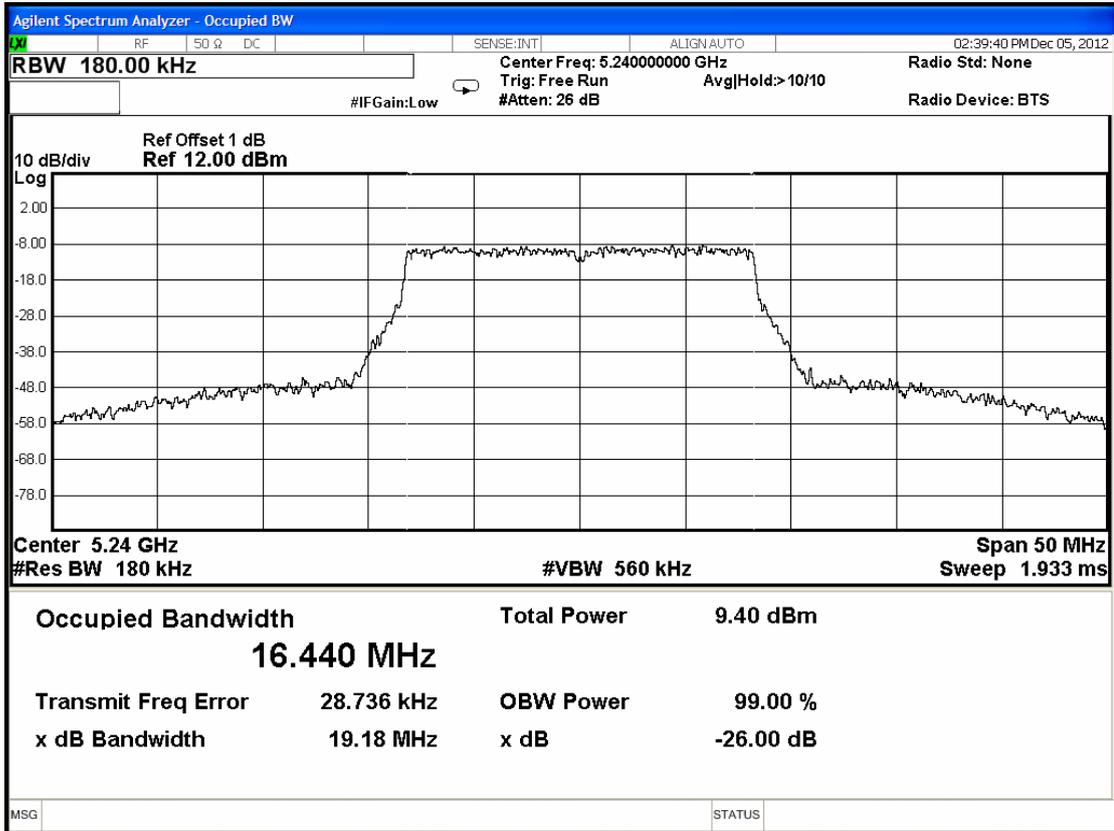
NII 802.11a (5.2GHz), Frequency: 5180MHz



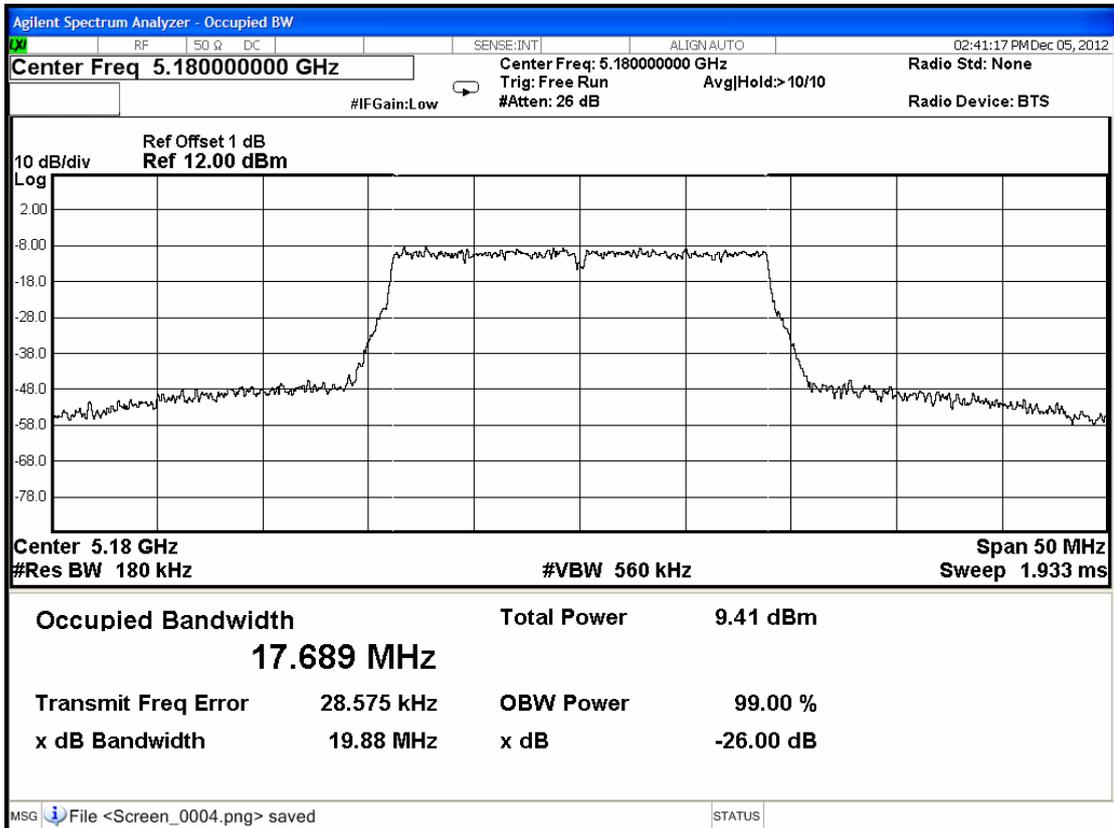
NII 802.11a (5.2GHz), Frequency: 5200MHz



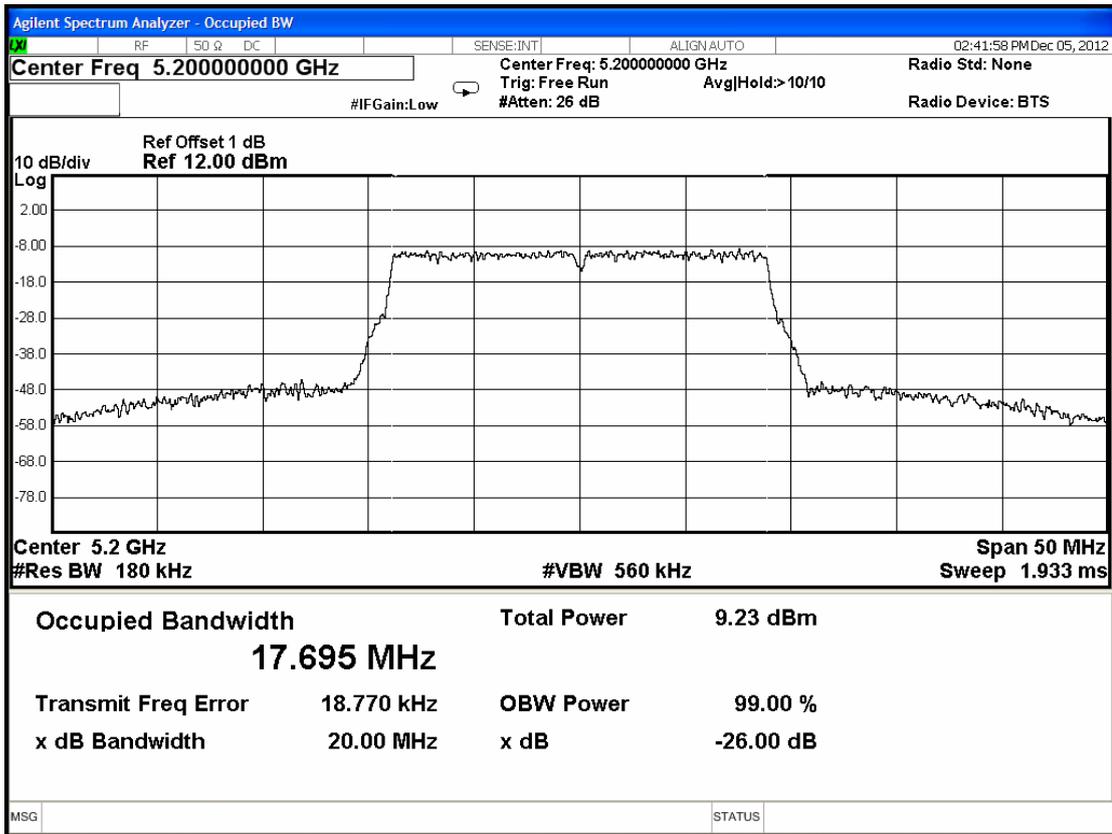
NII 802.11a (5.2GHz), Frequency: 5240MHz



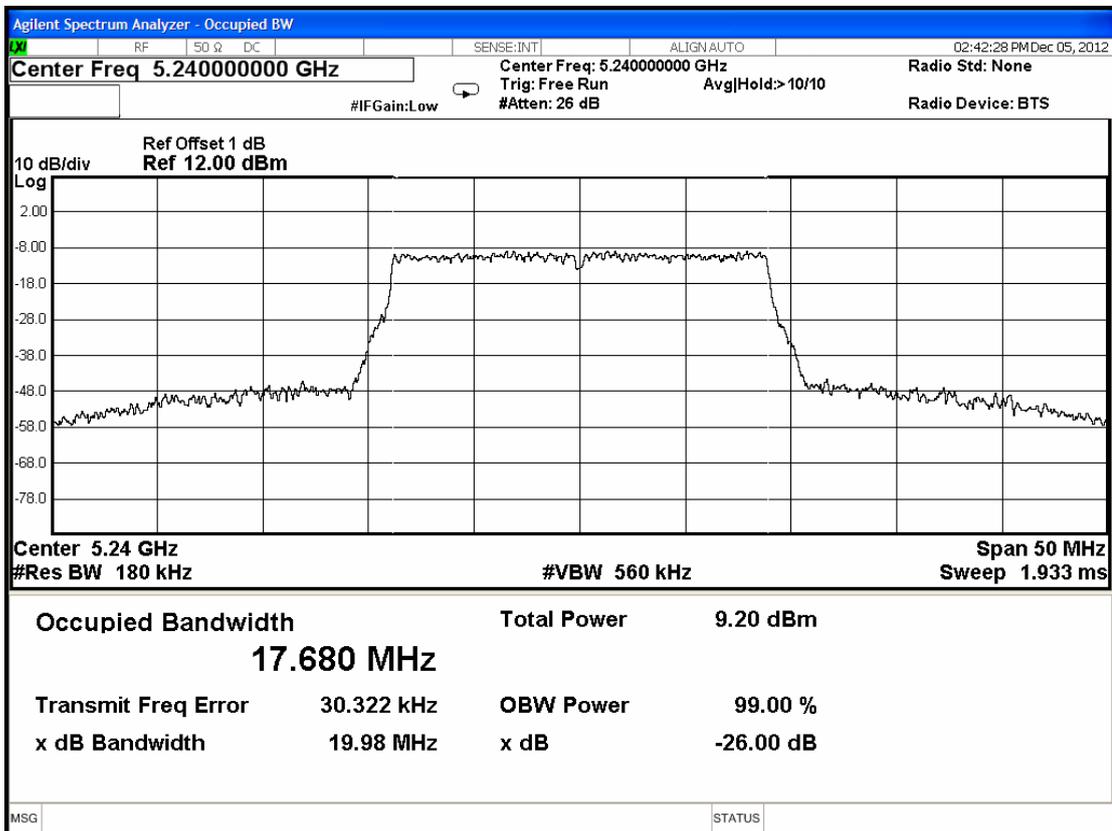
NII 802.11n-HT20 (5.2GHz), Frequency: 5180MHz



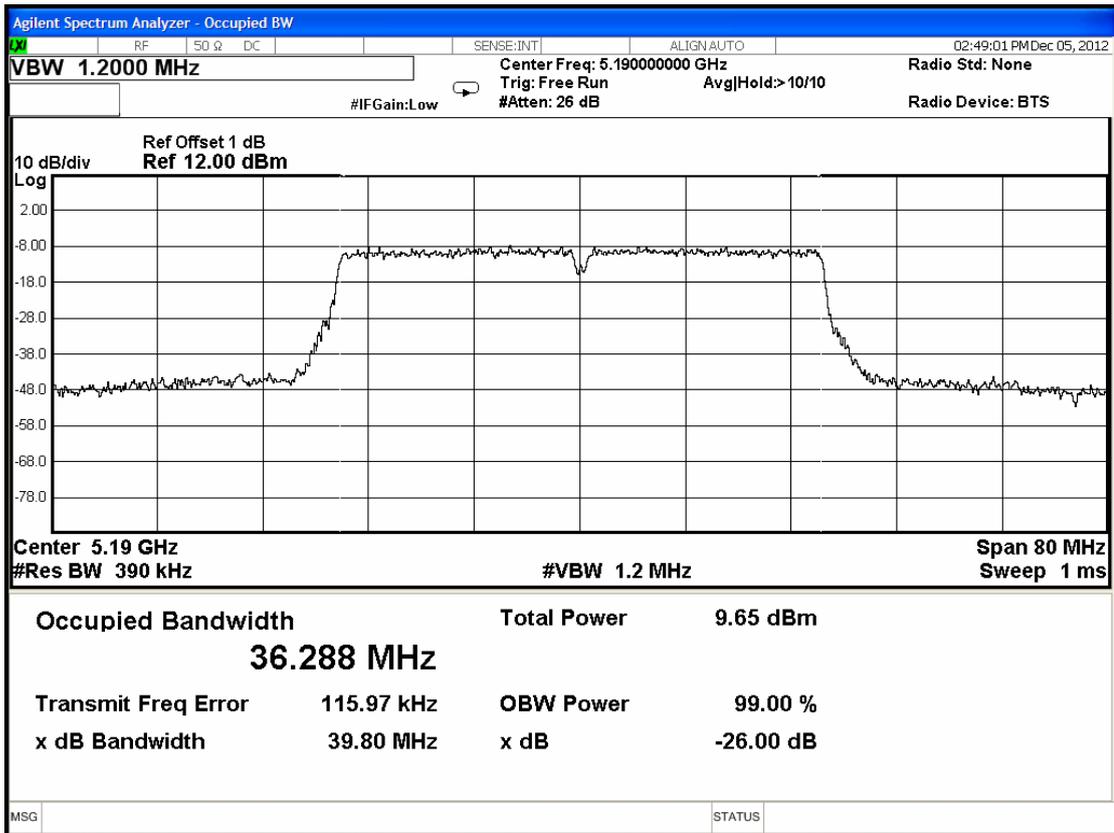
NII 802.11n-HT20 (5.2GHz), Frequency: 5200MHz



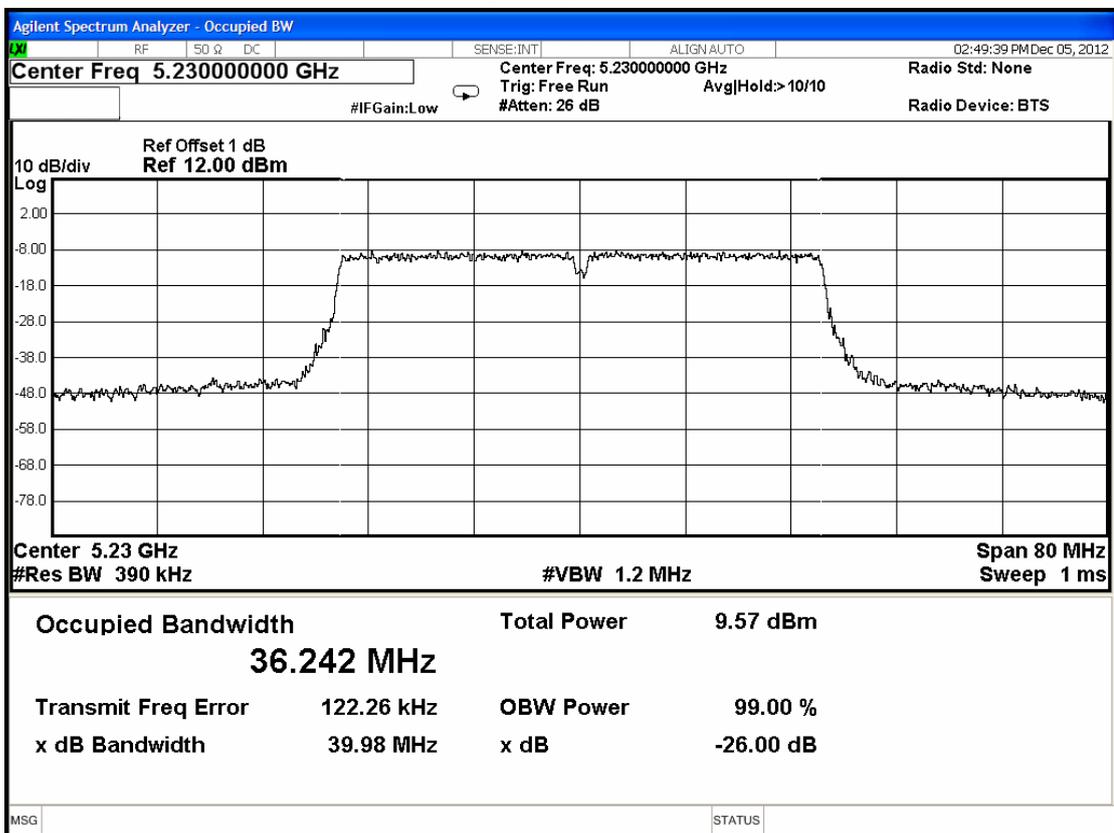
NII 802.11n-HT20 (5.2GHz), Frequency: 5240MHz



NII 802.11n-HT40 (5.2GHz), Frequency: 5190MHz



NII 802.11n-HT40 (5.2GHz), Frequency: 5230MHz



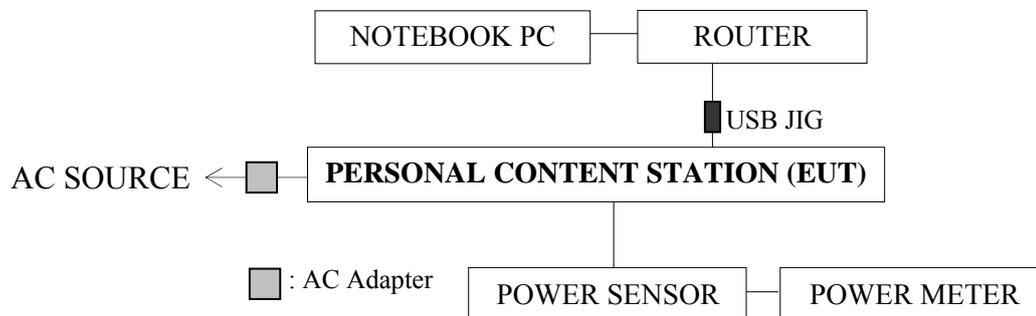
5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

5.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2495A	1145008	Oct. 30, 12'	Oct. 29, 13'
2.	Power Sensor	Anritsu	MA2411B	1126096	Oct. 30, 12'	Oct. 29, 13'

5.2. Block Diagram of Test Setup



5.3. Specification Limits [§15.407(a)-(1), RSS-210 A9.2 (1)]

5.3.1. For NII 802.11a (5.2GHz)

Frequency	Limit 1	Limit 2 (4dBm+10log B)
5150~5250MHz	50mW (17dBm)	17.04dBm

Remark: B= 26dB Bandwidth

5.3.2. For NII 802.11n-HT20 (5.2GHz)

Frequency	Limit 1	Limit 2 (4dBm+10log B)
5150~5250MHz	50mW (17dBm)	17.07dBm

Remark: B= 26dB Bandwidth

5.3.3. For NII 802.11n-HT40 (5.2GHz)

Frequency	Limit 1	Limit 2 (4dBm+10log B)
5150~5250MHz	50mW (17dBm)	20.08dBm

Remark: B= 26dB Bandwidth

5.4. Operating Condition of EUT

The test program “Lab Tool” was used to enable the EUT to transmit data at different channel frequency individually.

5.5. Test Procedure

The EUT connected to power meter and sensor and record the average value
 The measurement guideline was according to KDB789033 D01-v01r02
 The measurement guideline was according to RSS-Gen.

5.6. Test Results

PASSED. All the test results are listed below.

(Test Date : Nov. 23, 2012 Temperature : 25°C Humidity : 60%)

5.6.1. For NII 802.11a (5.2GHz)

Mode	Type of Network	Channel	Frequency	Maximum Output Power (dBm)
1.	NII 802.11a (5.2GHz)	CH 36	5180MHz	9.48
2.		CH 40	5200MHz	8.91
3.		CH 48	5240MHz	8.87

5.6.2. For NII 802.11n-HT20 (5.2GHz)

Mode	Type of Network	Channel	Frequency	Maximum Output Power (dBm)
1.	NII 802.11n-HT20 (5.2GHz)	CH 36	5180MHz	9.39
2.		CH 40	5200MHz	9.18
3.		CH 48	5240MHz	9.12

5.6.3. For NII 802.11n-HT40 (5.2GHz)

Mode	Type of Network	Channel	Frequency	Maximum Output Power (dBm)
1.	NII 802.11n-HT40 (5.2GHz)	CH 38	5190MHz	9.36
2.		CH 46	5230MHz	9.13

6. POWER SPECTRAL DENSITY MEASUREMENT

6.1. Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

6.2. Block Diagram of Test Setup

The same as section.4.2.

6.3. Specification Limits [§15.407(a)-(1), RSS-210 A9.2 (1)]

For the band 5.15-5.25GHz, the peak power spectral density shall not exceed 4dBm in any 1MHz band.

6.4. Operating Condition of EUT

The test program “hyper terminal” was used to enable the EUT to transmit data at different channel frequency individually.

6.5. Test Procedure

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW=1MHz
3. Set VBW \geq 3MHz
4. Detector=RMS (i.e., power averaging), if available, Otherwise, use sample detector mode.
5. Trace average at least 100 traces in power averaging (i.e., RMS) mode.
6. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.

The measurement guideline was according to KDB789033 D01-v01r02

The measurement guideline was according to RSS-Gen.

6.6. Test Results

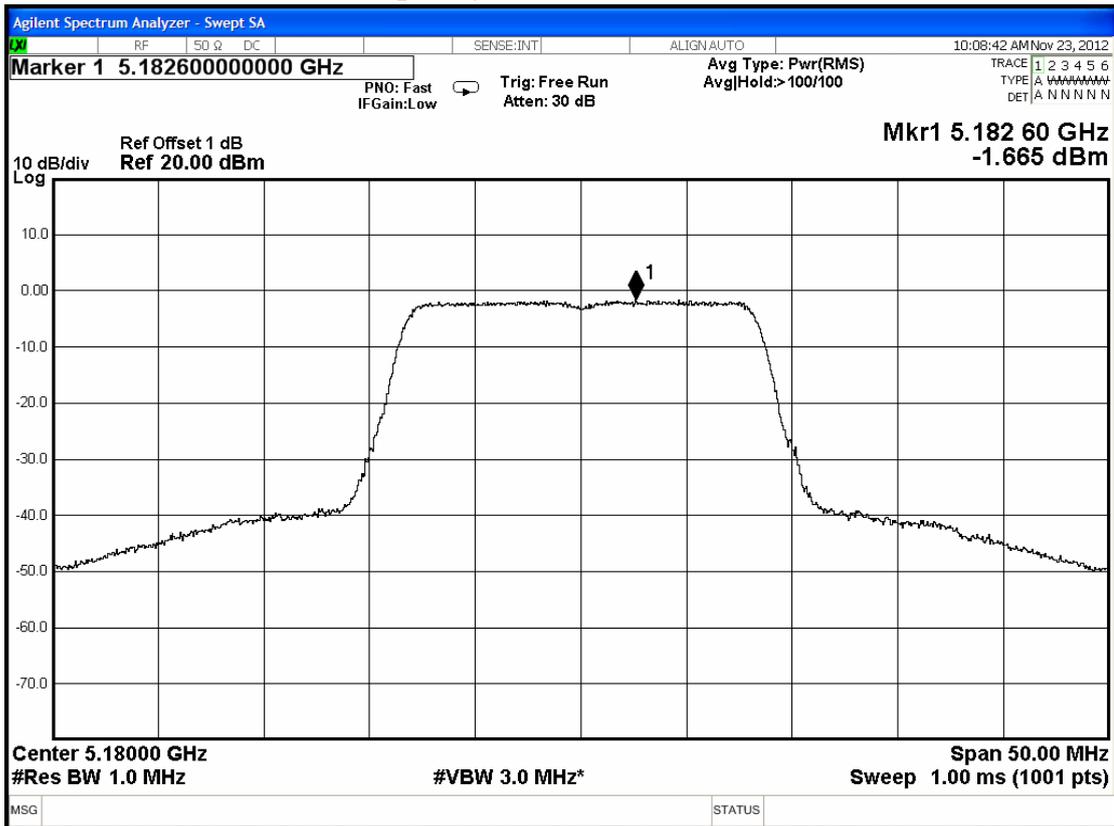
PASSED. All the test results are attached in next pages.

(Test Date : Nov. 23, 2012 Temperature : 25°C Humidity : 60%)

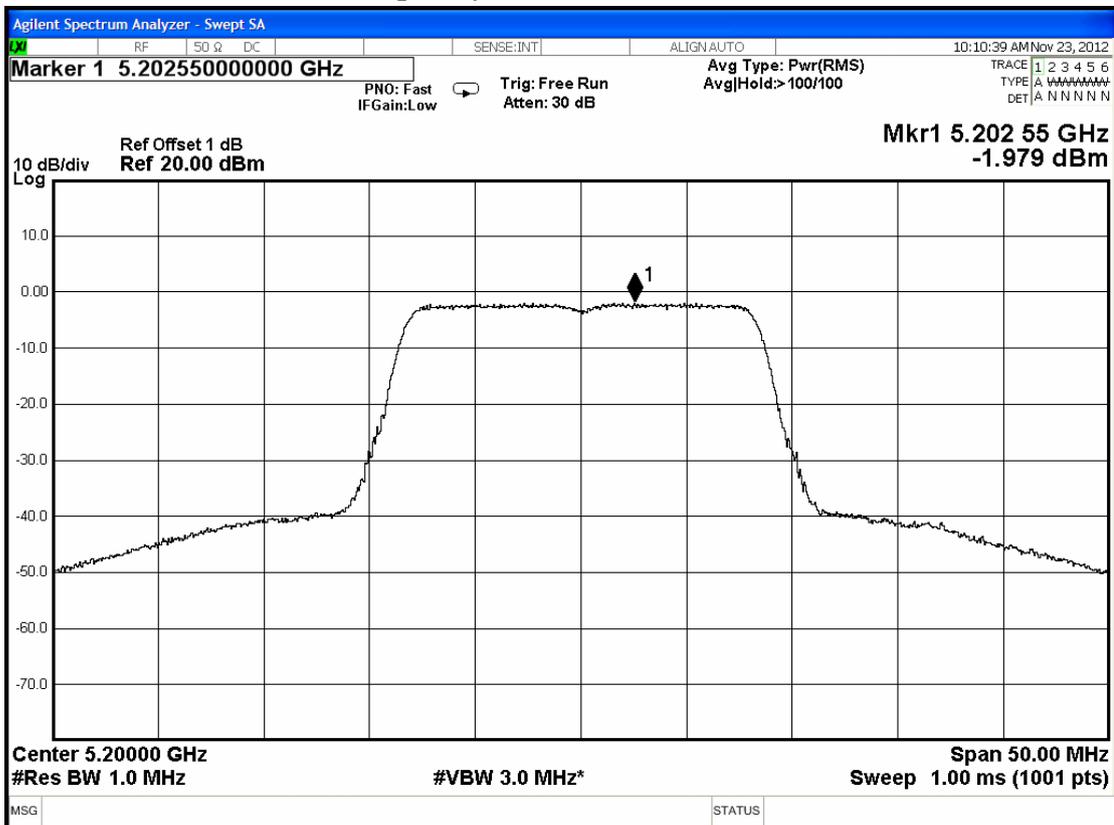
Mode	Type of Network	Channel	Frequency	Power Spectral Density (dBm)
1.	NII 802.11a (5.2GHz)	CH 36	5180MHz	-1.665
2.		CH 40	5200MHz	-1.979
3.		CH 48	5240MHz	-2.213
4.	NII 802.11n-HT20 (5.2GHz)	CH 36	5180MHz	-2.022
5.		CH 40	5200MHz	-2.309
6.		CH 48	5240MHz	-2.278
7.	NII 802.11n-HT40 (5.2GHz)	CH 38	5190MHz	-5.443
8.		CH 46	5230MHz	-5.165

[Limit: 4dBm]

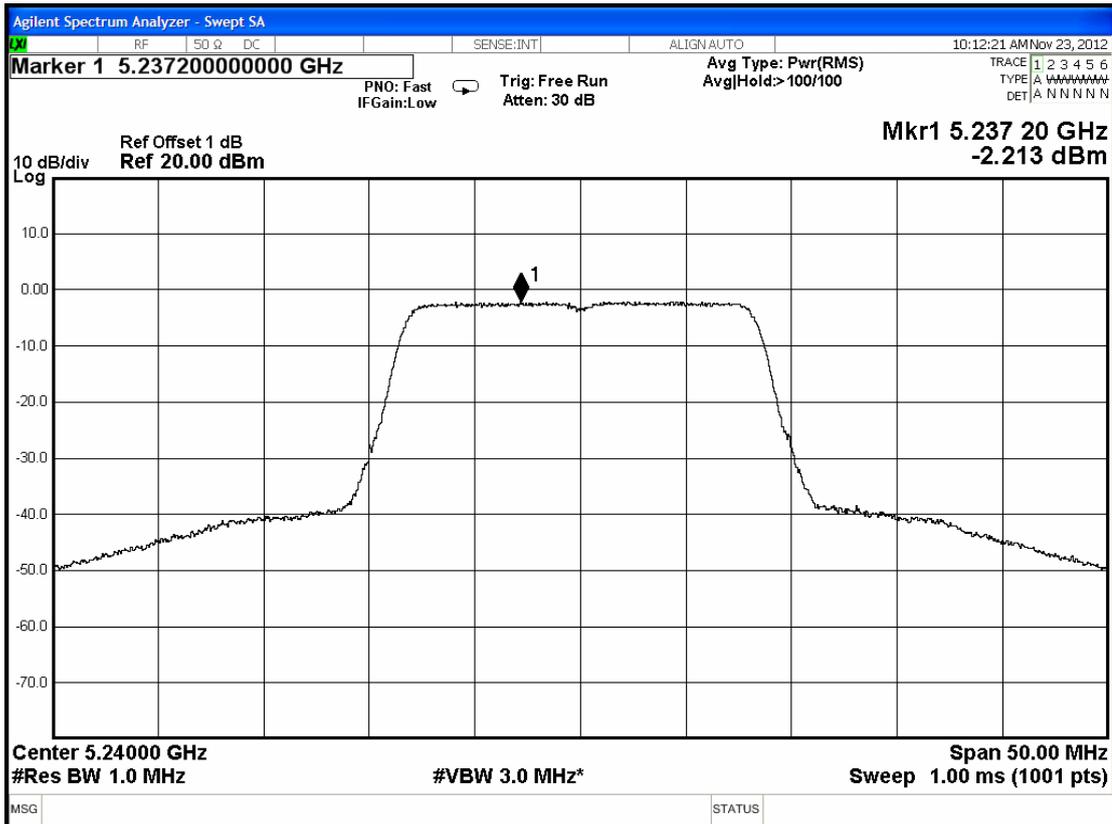
NII 802.11a (5.2GHz), Frequency: 5180MHz



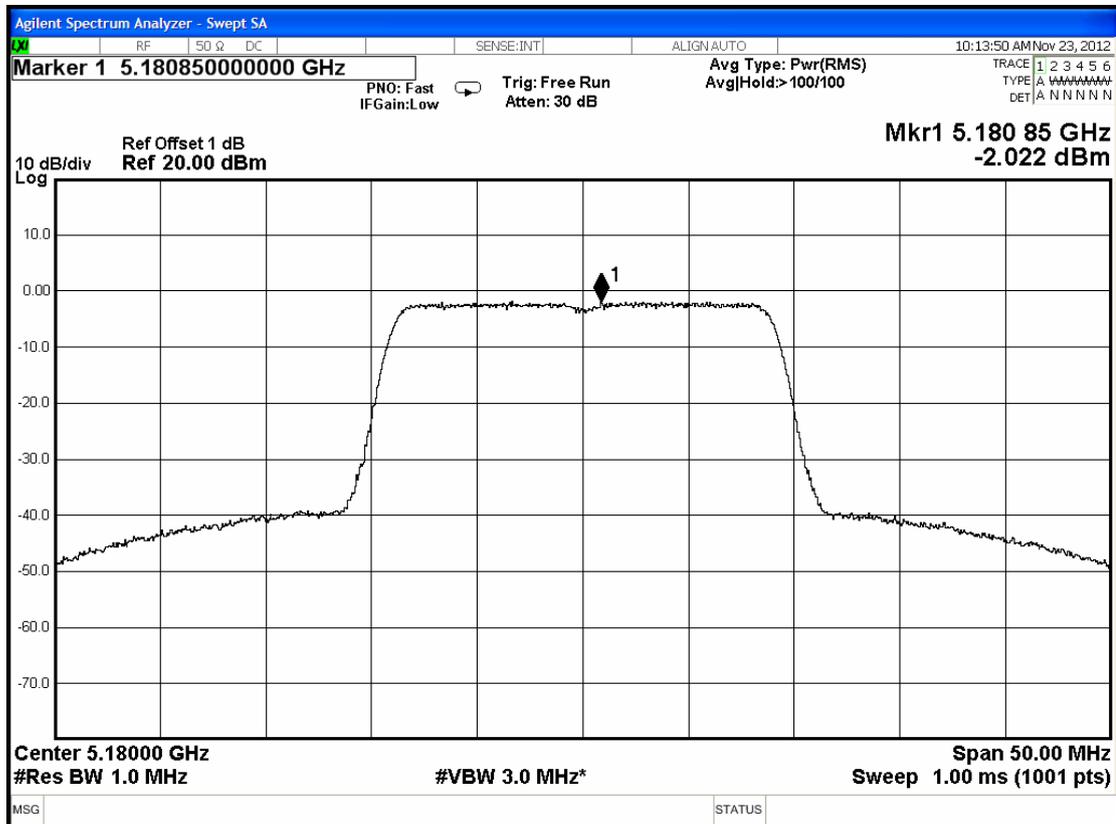
NII 802.11a (5.2GHz), Frequency: 5200MHz



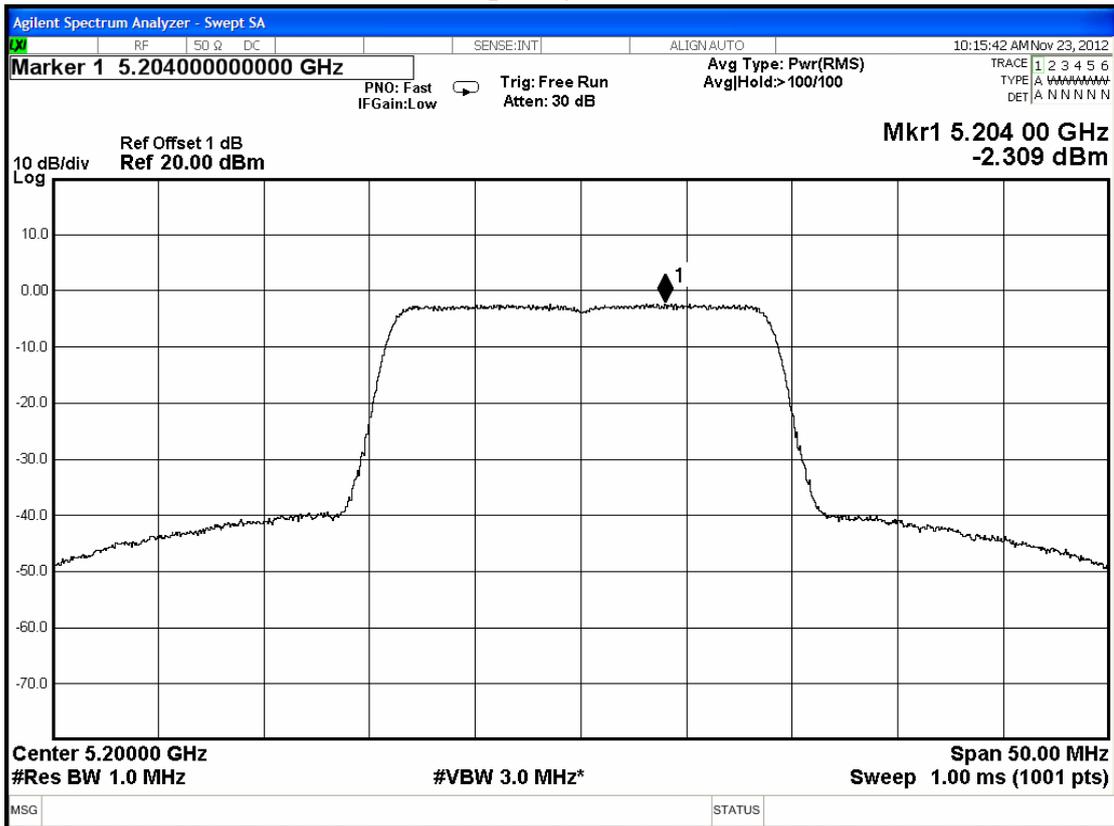
NII 802.11a (5.2GHz), Frequency: 5240MHz



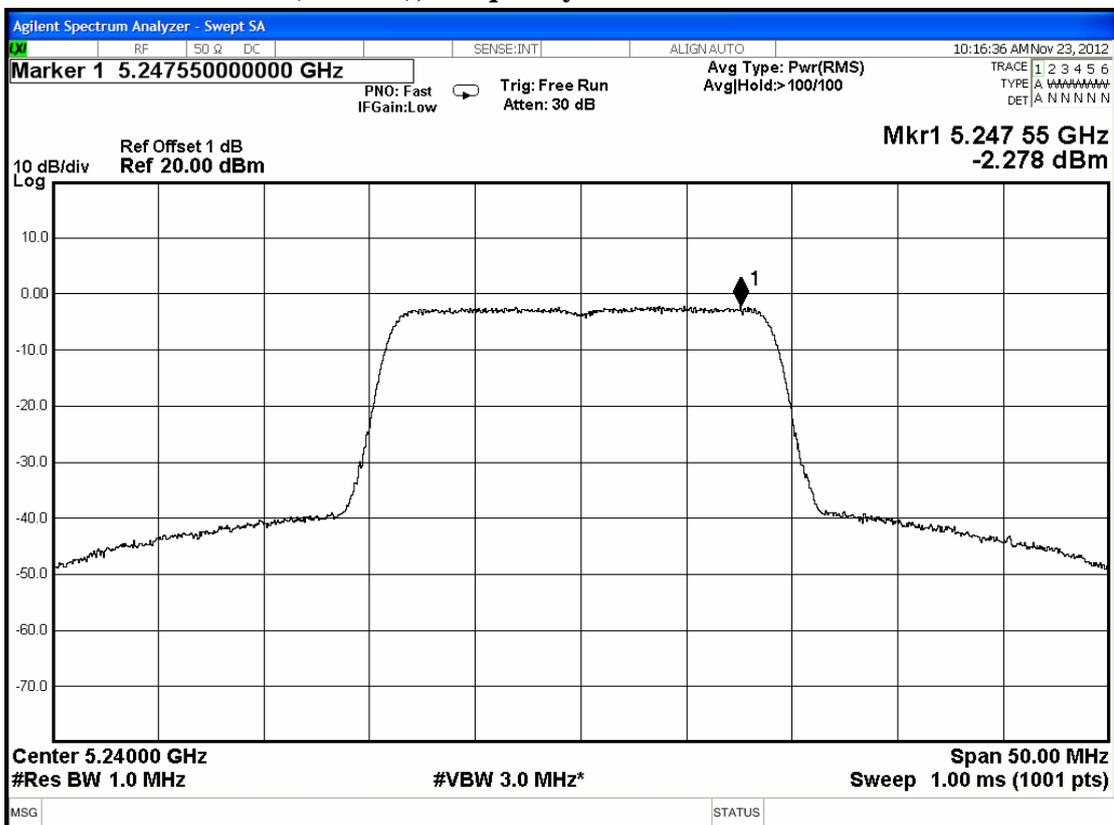
NII 802.11n-HT20 (5.2GHz), Frequency: 5180MHz



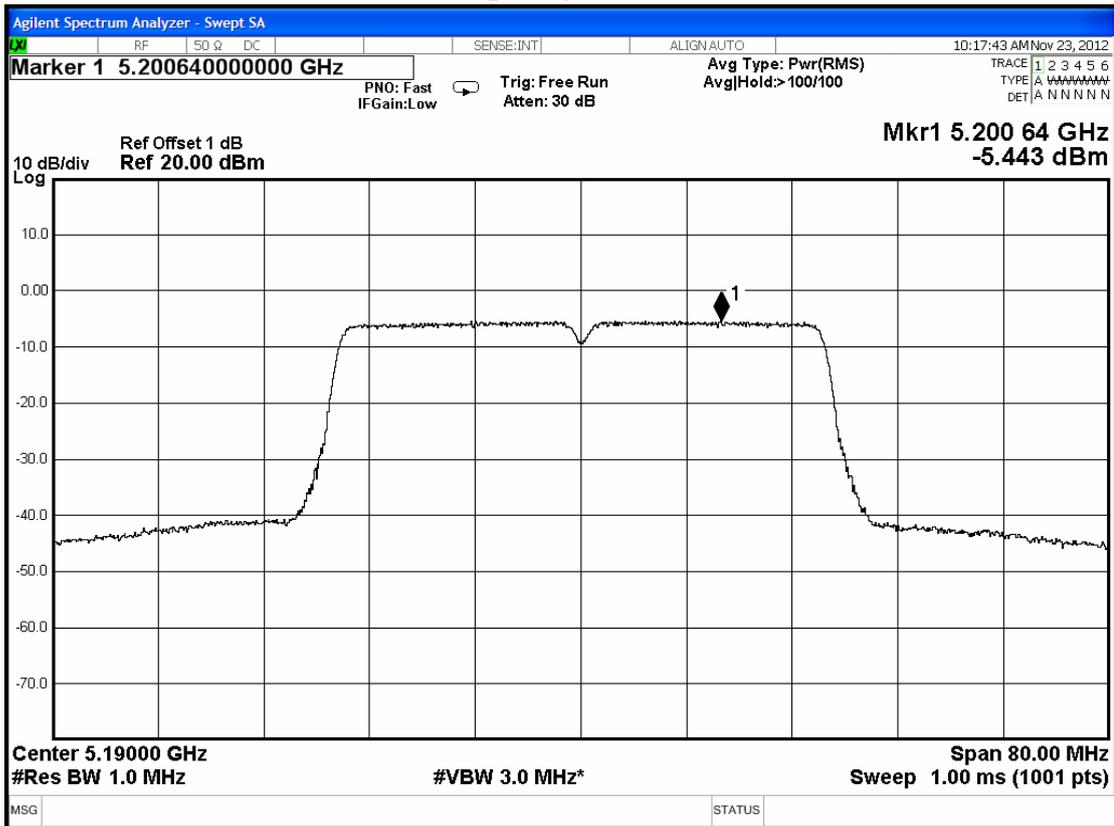
NII 802.11n-HT20 (5.2GHz), Frequency: 5200MHz



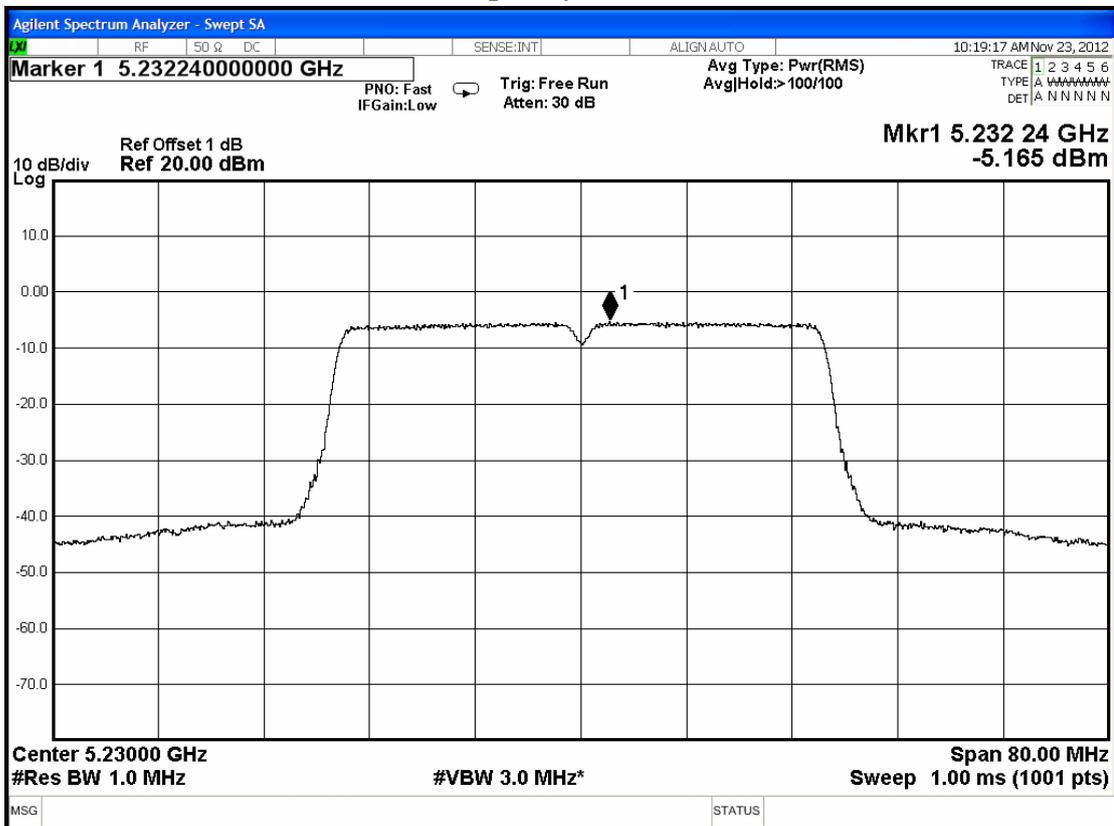
NII 802.11n-HT20 (5.2GHz), Frequency: 5240MHz



NII 802.11n-HT40 (5.2GHz), Frequency: 5190MHz



NII 802.11n-HT40 (5.2GHz), Frequency: 5230MHz



7. PEAK POWER EXCURSION MEASUREMENT

7.1. Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

7.2. Block Diagram of Test Setup

The same as section.4.2.

7.3. Specification Limits (§15.407(a)-(6))

The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13dB across any 1MHz bandwidth or the emission bandwidth whichever is less.

7.4. Operating Condition of EUT

The test program “Lab Tool” was used to enable the EUT to transmit data at different channel frequency individually.

7.5. Test Procedure

For 1st trace:

Find the maximum of the peak-max-hold spectrum.

1. Set RBW=1MHz
2. Set VBW \leq 3MHz
3. Detector=peak.
4. Trace mode=max-hold.
5. Allow the sweeps to continue until the trace stabilizes.
6. Use the peak search function to find the peak of the spectrum.

For 2st trace:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW=1MHz
3. Set VBW \geq 3MHz
4. Detector=RMS (i.e., power averaging), if available, Otherwise, use sample detector mode.
5. Trace average at least 100 traces in power averaging (i.e., RMS) mode.
6. Use the peak search function on the spectrum analyzer to find the peak of the spectrum.

The measurement guideline was according to KDB789033 D01-v01r02

The measurement guideline was according to RSS-Gen.

7.6. Test Results

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

(Test Date : Nov. 23, 2012 Temperature : 25°C Humidity : 60%)

7.6.1. For NII 802.11a (5.2GHz)

Mode	Type of Network	Channel	Frequency	Peak Power Excursion
1.	NII 802.11a (5.2GHz)	CH 36	5180MHz	7.794dB
2.		CH 40	5200MHz	7.434dB
3.		CH 48	5240MHz	7.736dB

[Limit: 13dB]

7.6.2. For NII 802.11n-HT20 (5.2GHz)

Mode	Type of Network	Channel	Frequency	Peak Power Excursion
1.	NII 802.11n-HT20 (5.2GHz)	CH 36	5180MHz	7.822dB
2.		CH 40	5200MHz	7.365dB
3.		CH 48	5240MHz	7.493dB

[Limit: 13dB]

7.6.3. For NII 802.11n-HT40 (5.2GHz)

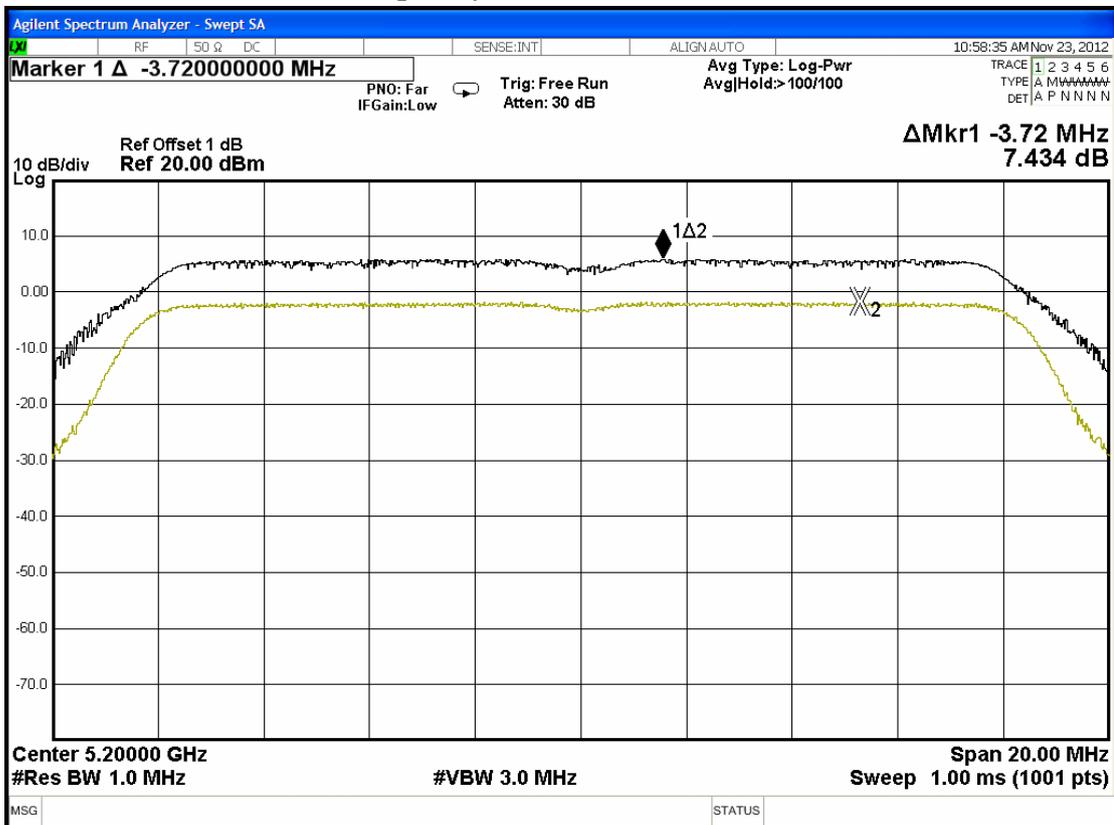
Mode	Type of Network	Channel	Frequency	Peak Power Excursion
1.	NII 802.11n-HT40 (5.2GHz)	CH 38	5190MHz	7.802dB
2.		CH 46	5230MHz	7.683dB

[Limit: 13dB]

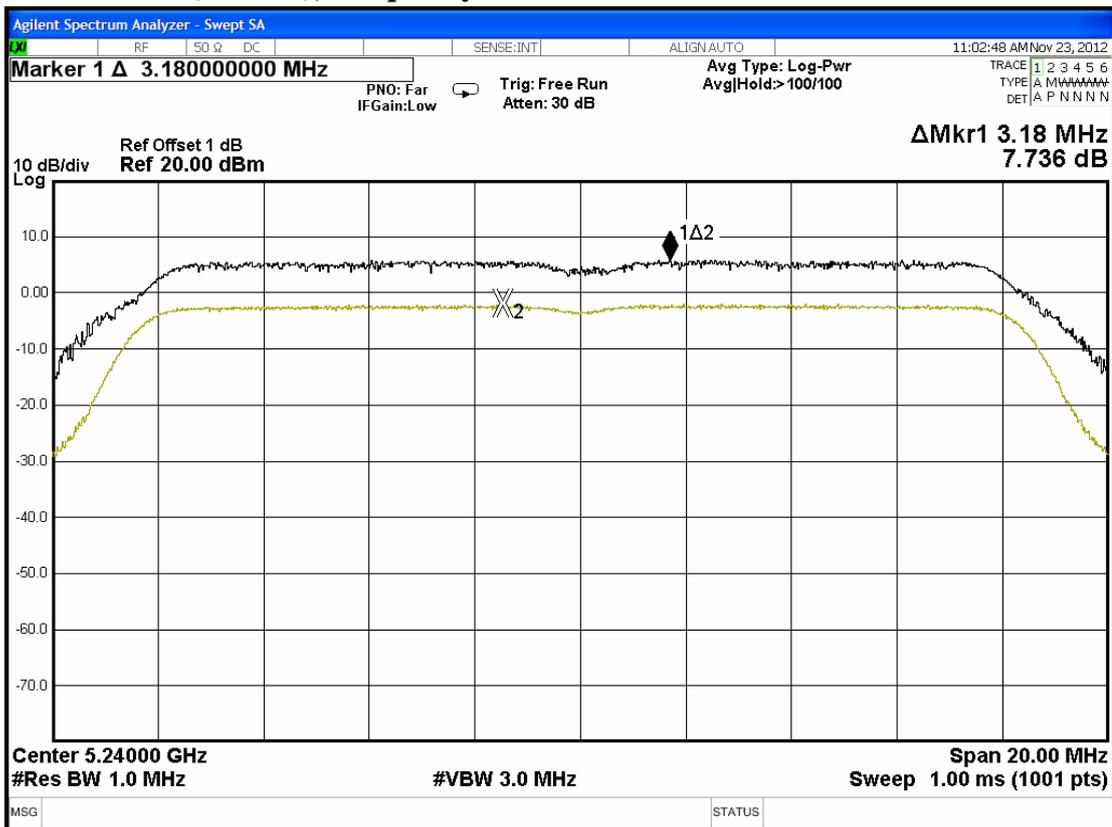
NII 802.11a (5.2GHz), Frequency: 5180MHz



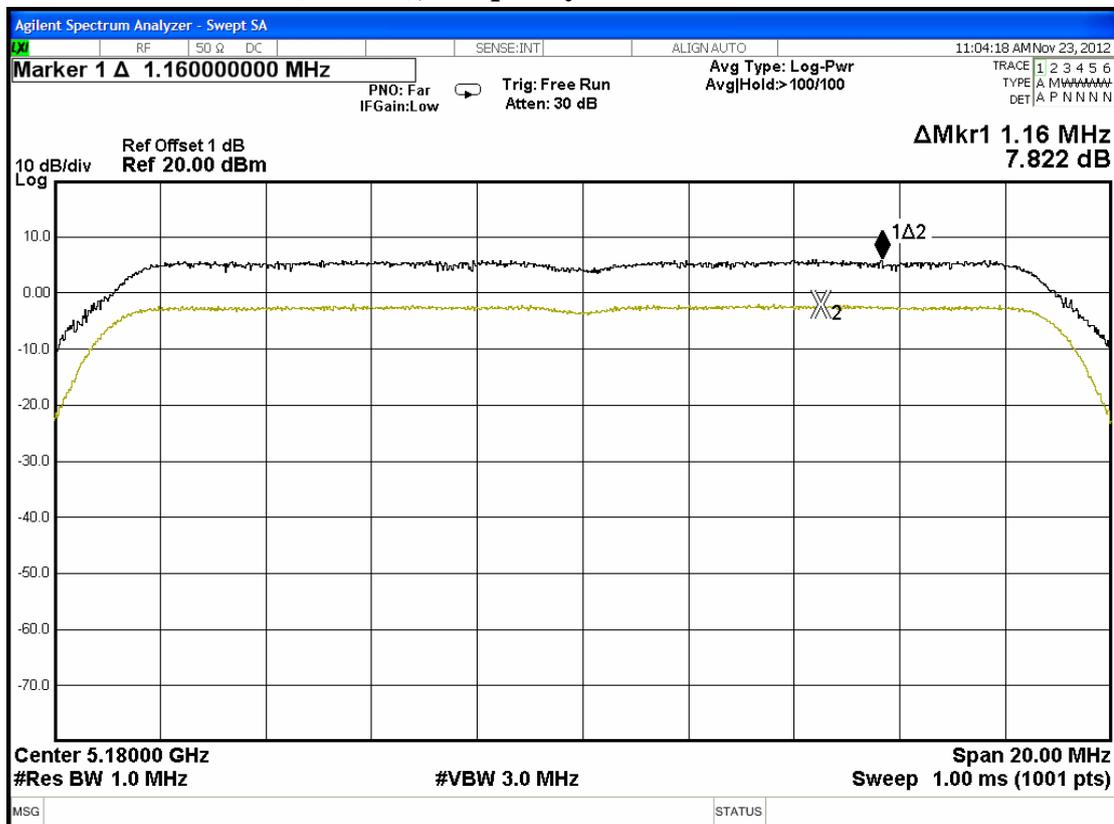
NII 802.11a (5.2GHz), Frequency: 5200MHz



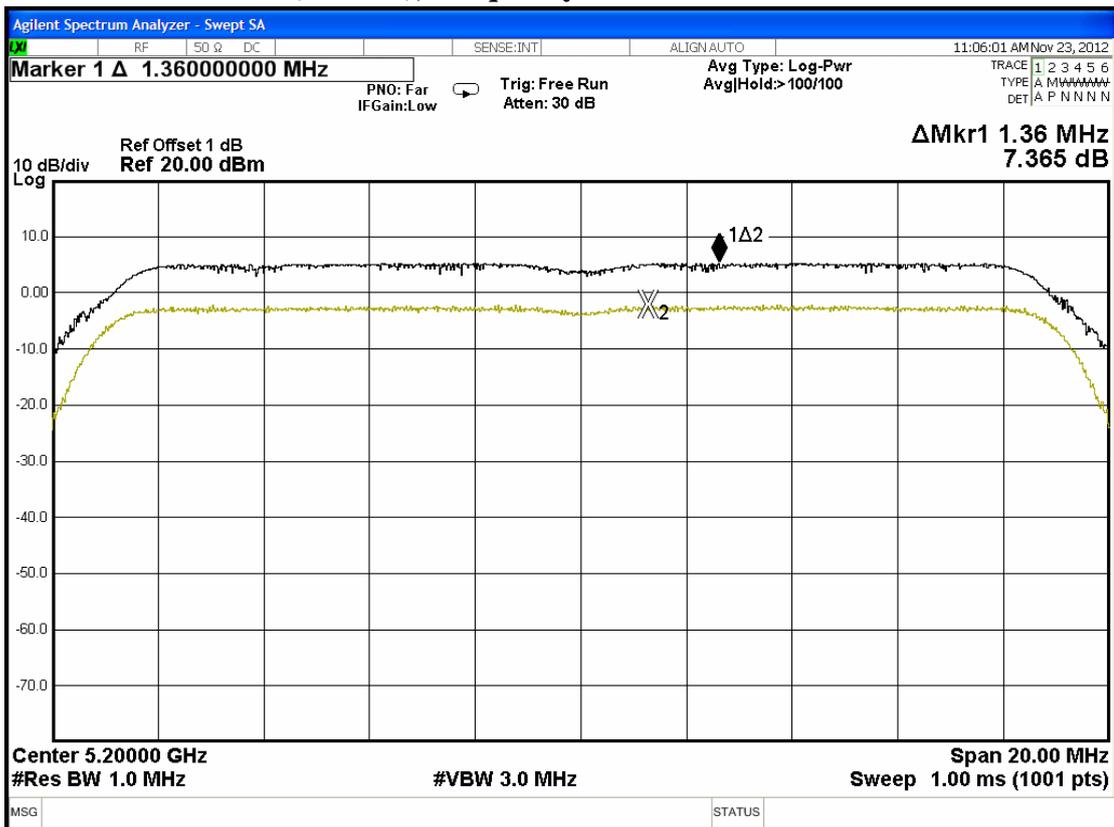
NII 802.11a (5.2GHz), Frequency: 5240MHz



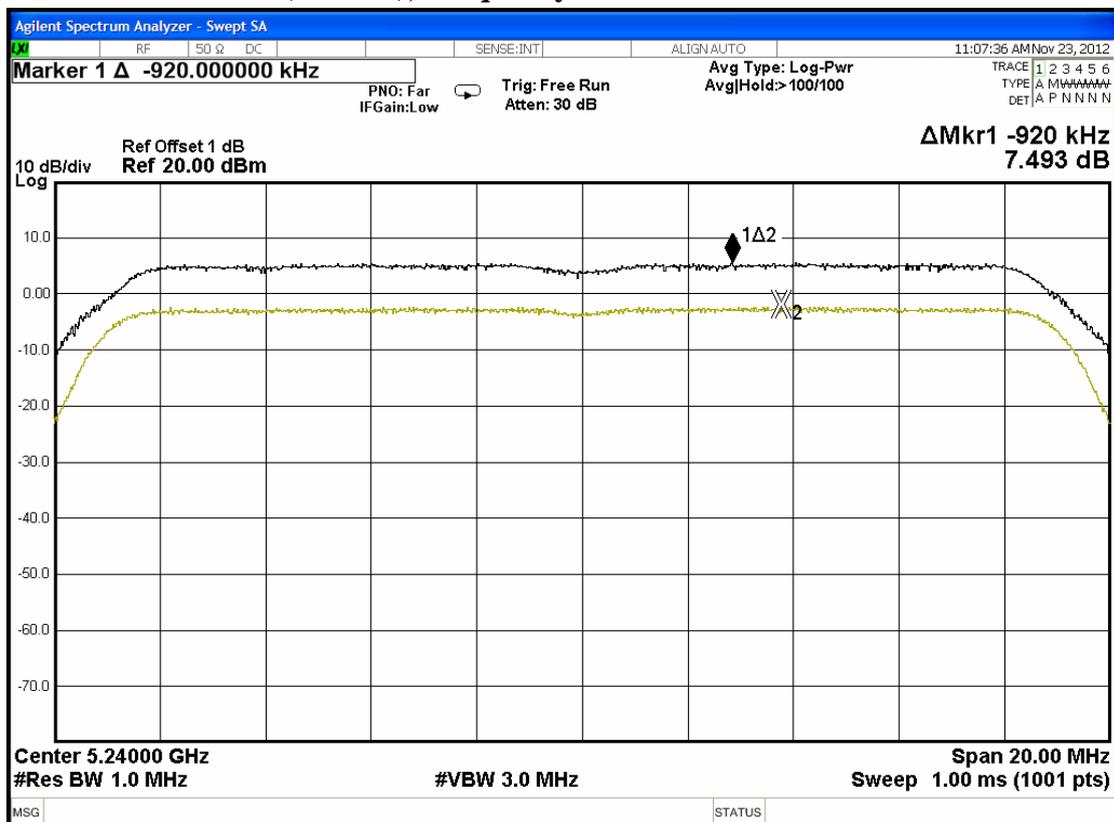
NII 802.11n-HT20 (5.2GHz), Frequency: 5180MHz



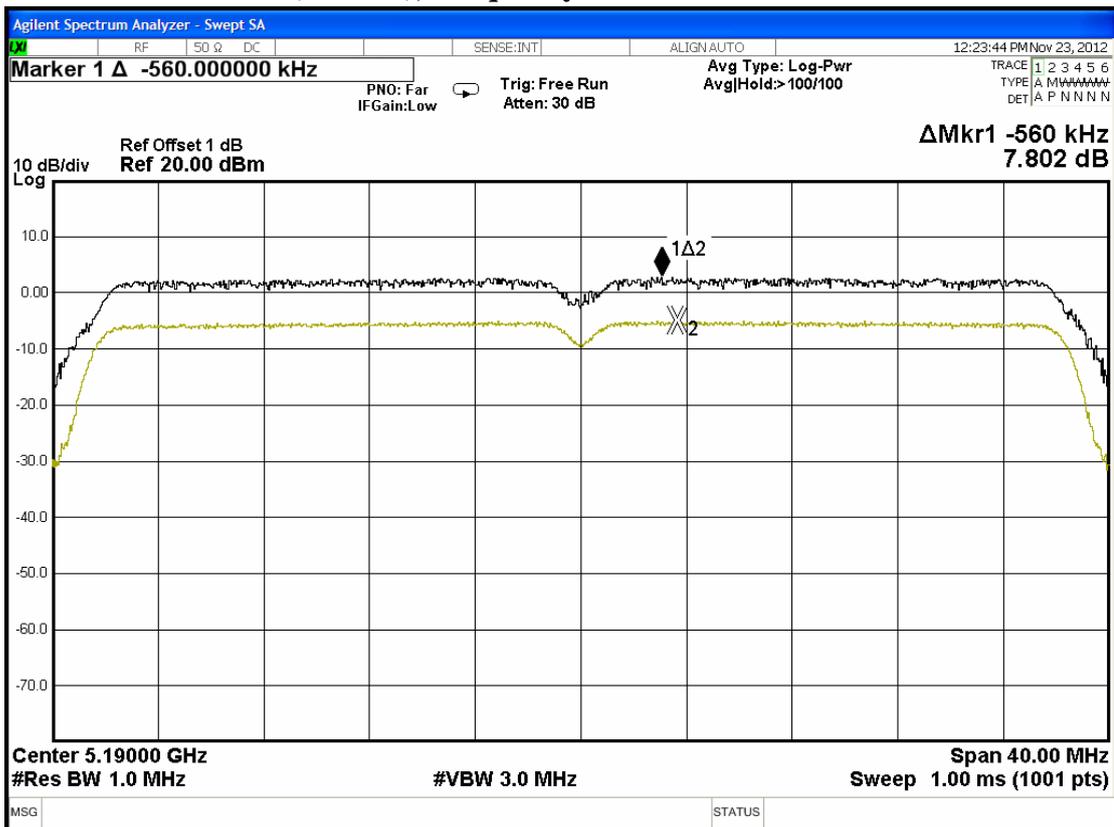
NII 802.11n-HT20 (5.2GHz), Frequency: 5200MHz



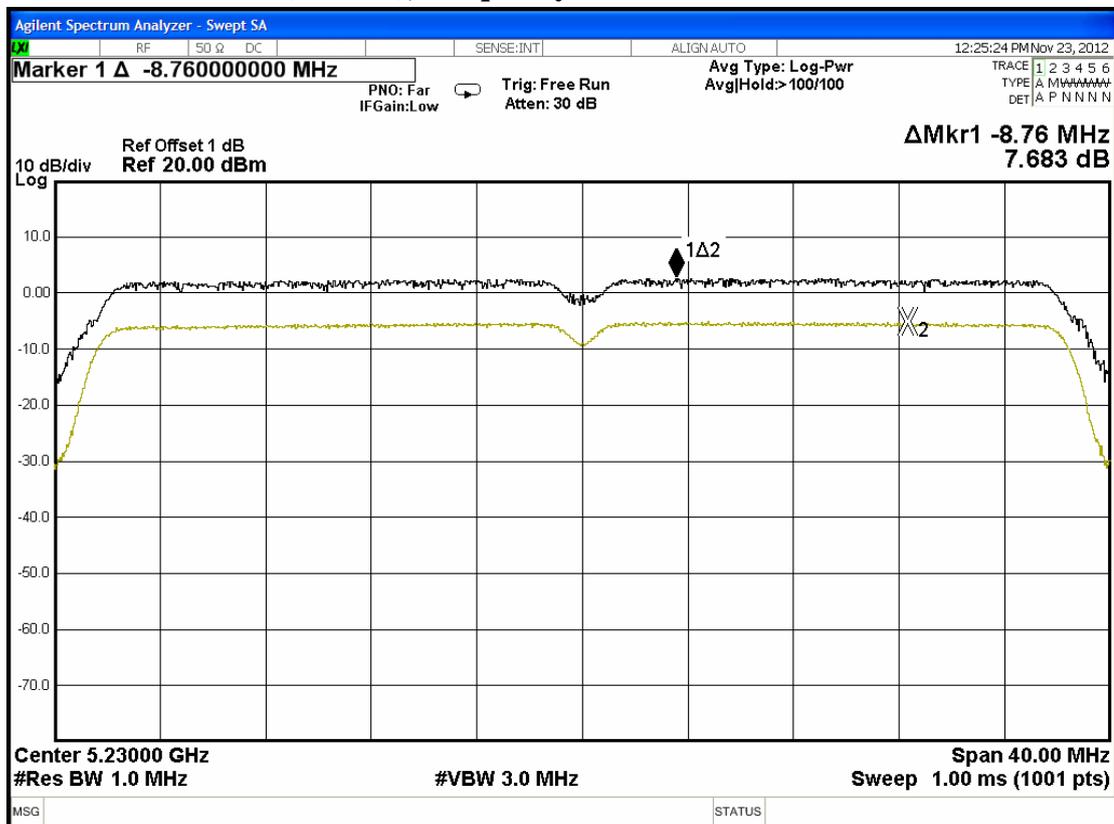
NII 802.11n-HT20 (5.2GHz), Frequency: 5240MHz



NII 802.11n-HT40 (5.2GHz), Frequency: 5190MHz



NII 802.11n-HT40 (5.2GHz), Frequency: 5230MHz



8. OCCUPIED BANDWIDTH 99% POWER MEASUREMENT

8.1. Test Equipment

The following test equipment was used during the occupied bandwidth 99% power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

8.2. Block Diagram of Test Setup

The same as section.4.2.

8.3. Specification [RSS-Gen §4.6.1]

The emission bandwidth may be taken as the bandwidth within which is 99% of the transmitter output power. The 20 dB bandwidth may also be used instead, when the spectral density has decreased by 20 dB from the in band spectral density. For the determination of the 20 dB bandwidth, the measurement bandwidth should be in the order of 1.0% of the emission bandwidth and VBW=3 times RBW.

8.4. Operating Condition of EUT

The test program “hyper terminal” was used to enable the EUT to transmit data at different channel frequency individually.

8.5. Test Procedure

The RF output of EUT was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 20kHz RBW and 62kHz VBW, set span = 15MHz and RBW close to 1% of span, VBW= 3*RBW span encompass complete envelope.

The measurement guideline was according to RSS-Gen.

8.6. Test Results

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

(Test Date : Nov. 23, 2012 Temperature : 25°C Humidity : 60%)

8.6.1. For NII 802.11a (5.2GHz)

Mode	Type of Network	Channel	Frequency	Occupied Bandwidth
1.	NII 802.11a (5.2GHz)	CH 36	5180MHz	16.639MHz
2.		CH 40	5200MHz	16.648MHz
3.		CH 48	5240MHz	16.643MHz

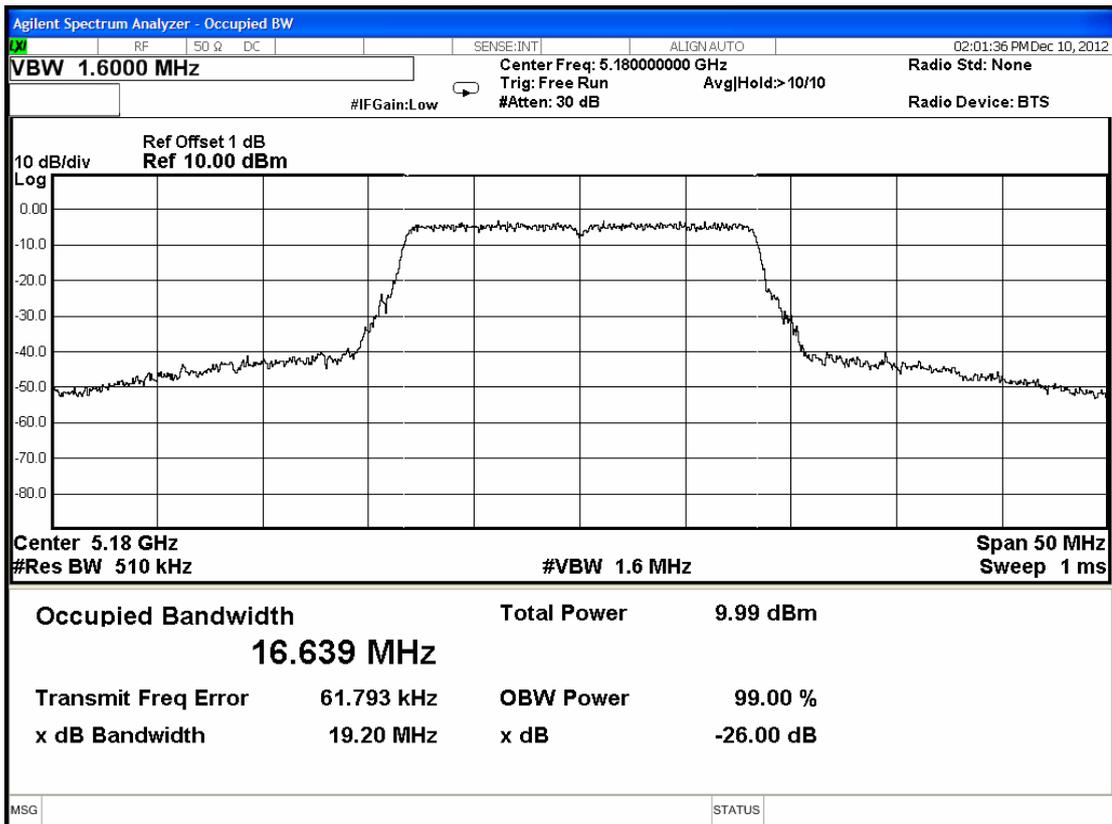
8.6.2. For NII 802.11n-HT20 (5.2GHz)

Mode	Type of Network	Channel	Frequency	Occupied Bandwidth
1.	NII 802.11n-HT20 (5.2GHz)	CH 36	5180MHz	17.868MHz
2.		CH 40	5200MHz	17.867MHz
3.		CH 48	5240MHz	17.881MHz

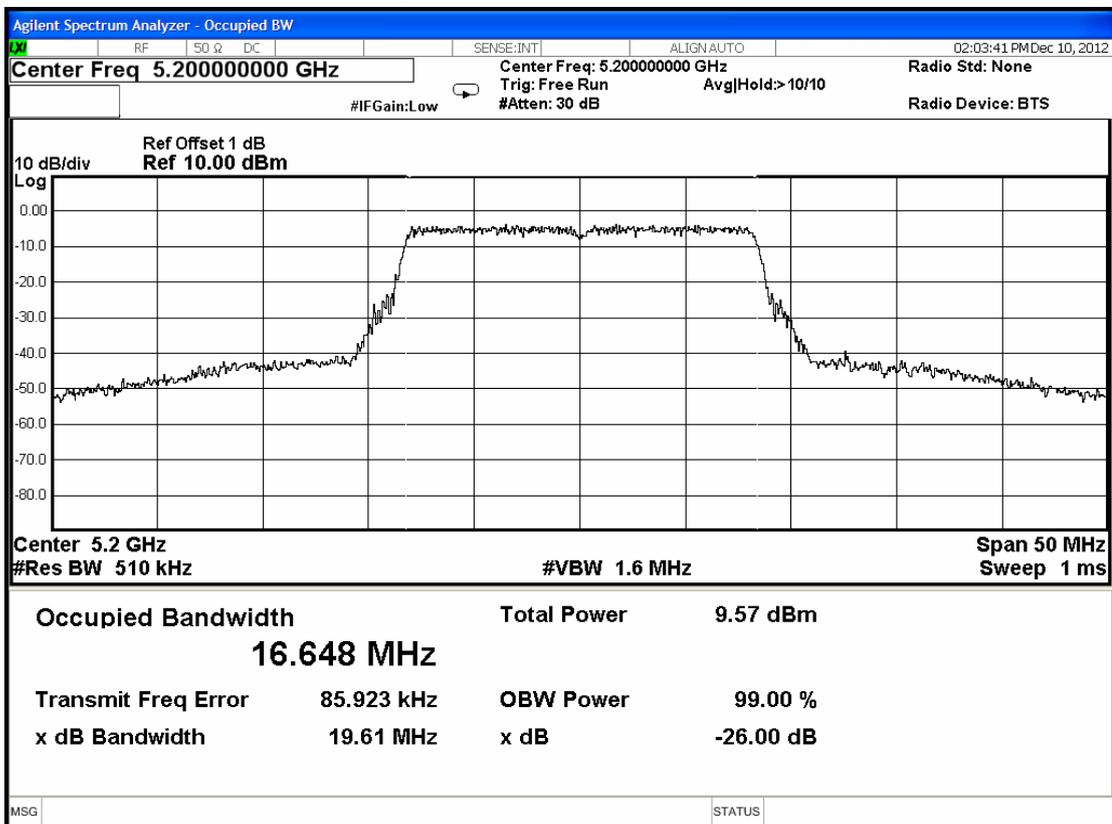
8.6.3. For NII 802.11n-HT40 (5.2GHz)

Mode	Type of Network	Channel	Frequency	Occupied Bandwidth
1.	NII 802.11n-HT40 (5.2GHz)	CH 38	5190MHz	36.462MHz
2.		CH 46	5230MHz	36.430MHz

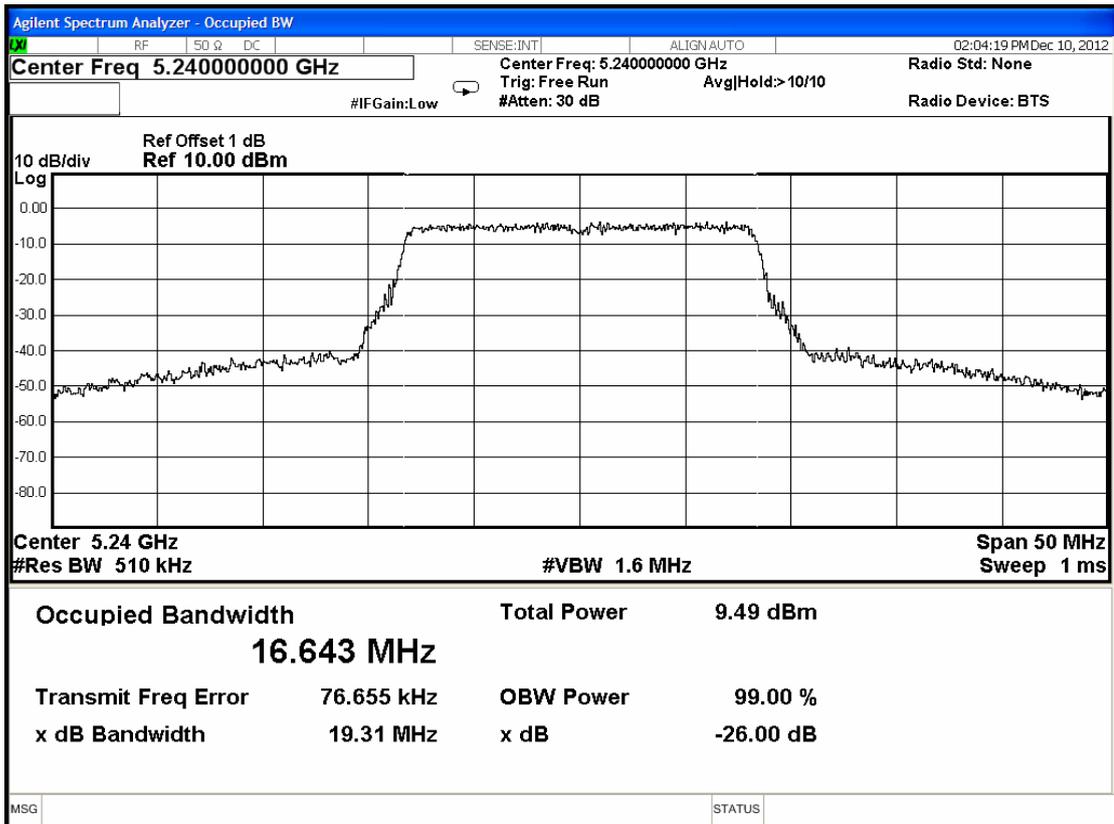
NII 802.11a (5.2GHz), Frequency: 5180MHz



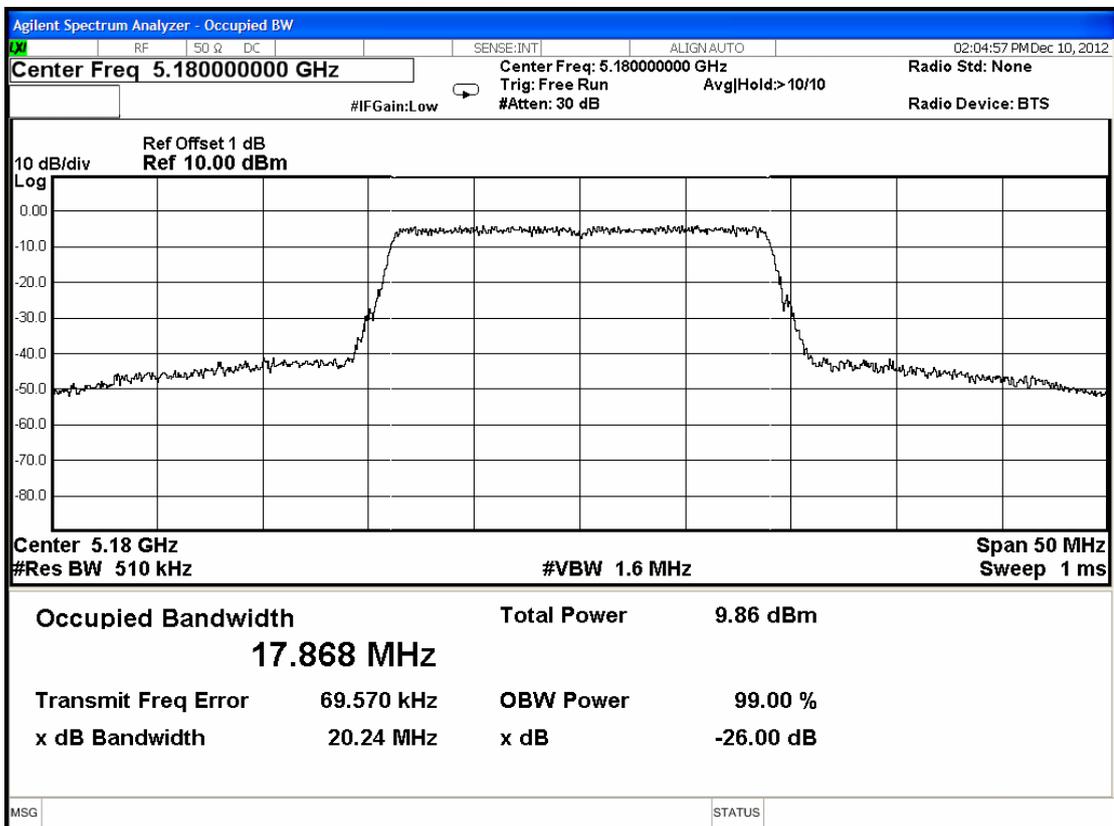
NII 802.11a (5.2GHz), Frequency: 5200MHz



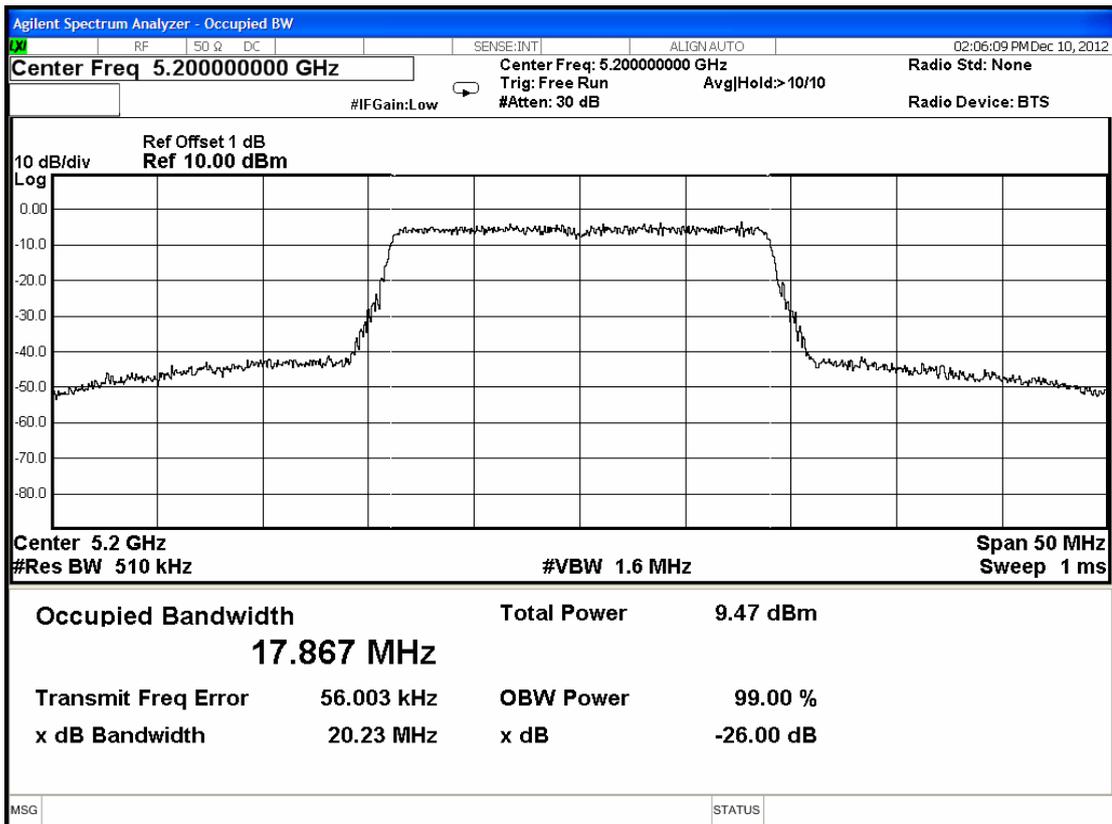
NII 802.11a (5.2GHz), Frequency: 5240MHz



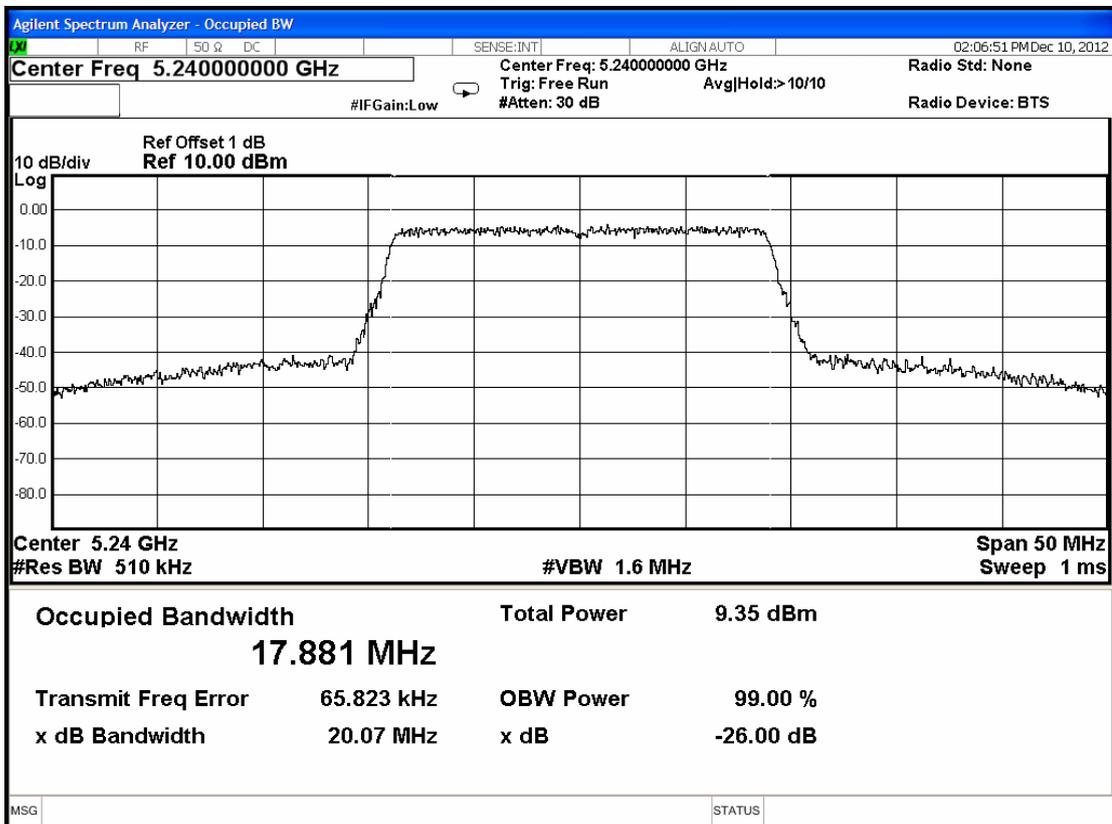
NII 802.11n-HT20 (5.2GHz), Frequency: 5180MHz



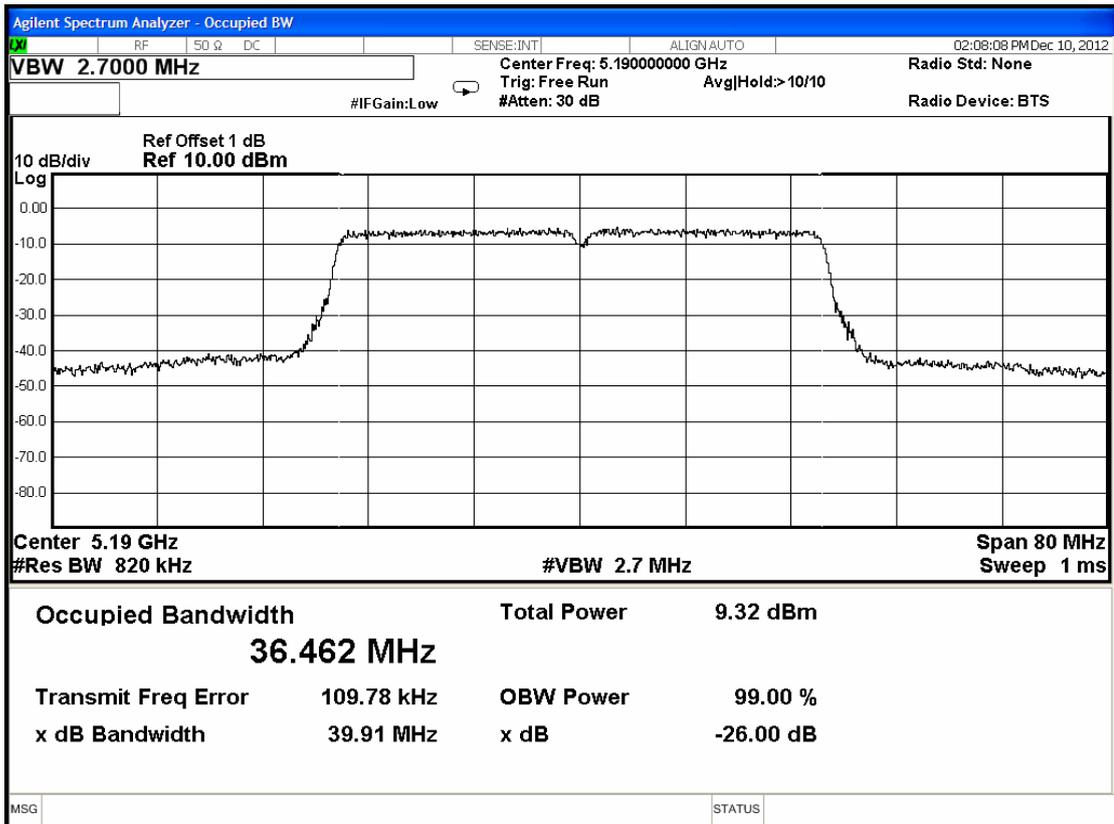
NII 802.11n-HT20 (5.2GHz), Frequency: 5200MHz



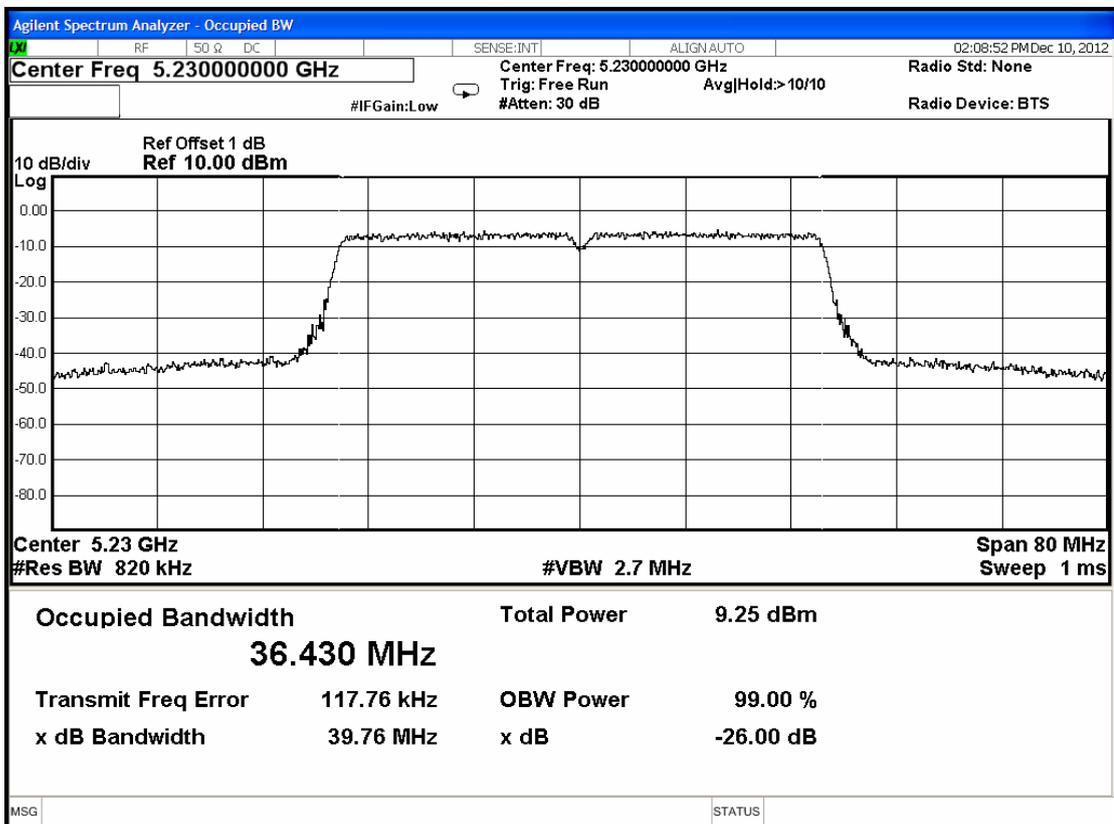
NII 802.11n-HT20 (5.2GHz), Frequency: 5240MHz



NII 802.11n-HT40 (5.2GHz), Frequency: 5190MHz



NII 802.11n-HT40 (5.2GHz), Frequency: 5230MHz



9. DEVIATION TO TEST SPECIFICATIONS

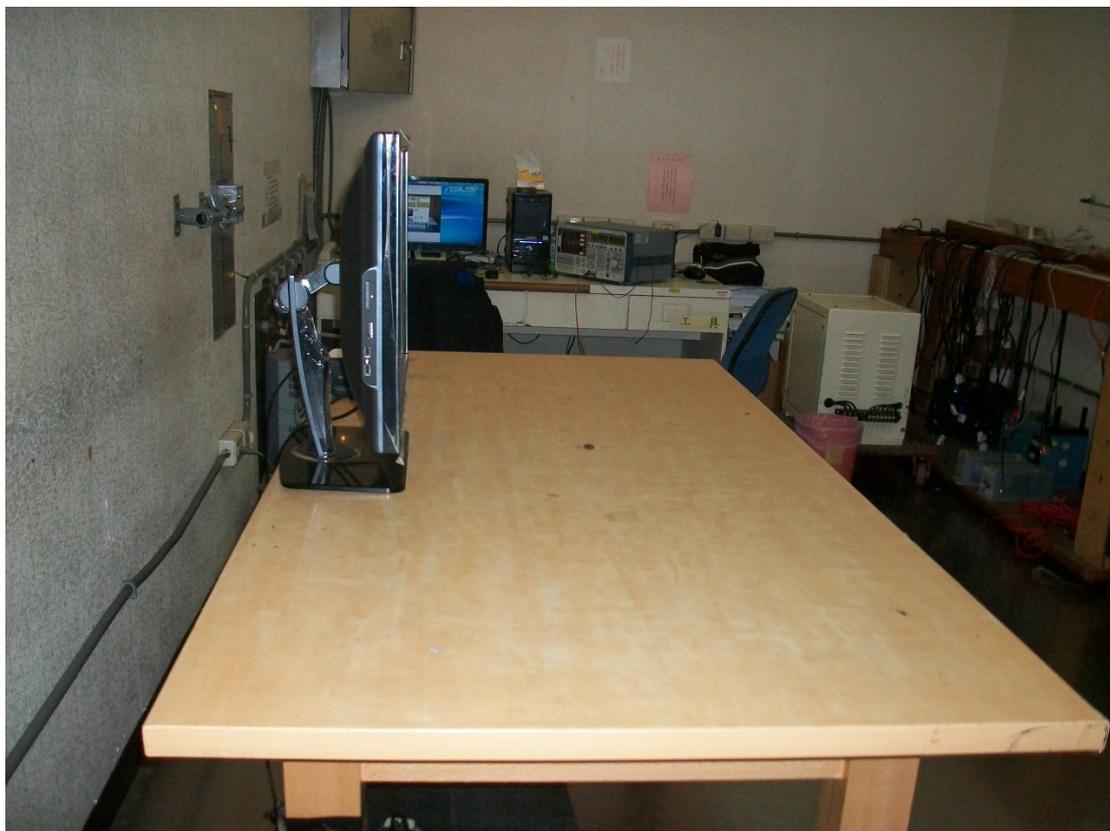
【NONE】

10. PHOTOGRAPHS

10.1. Photos of Conducted Emission Measurement



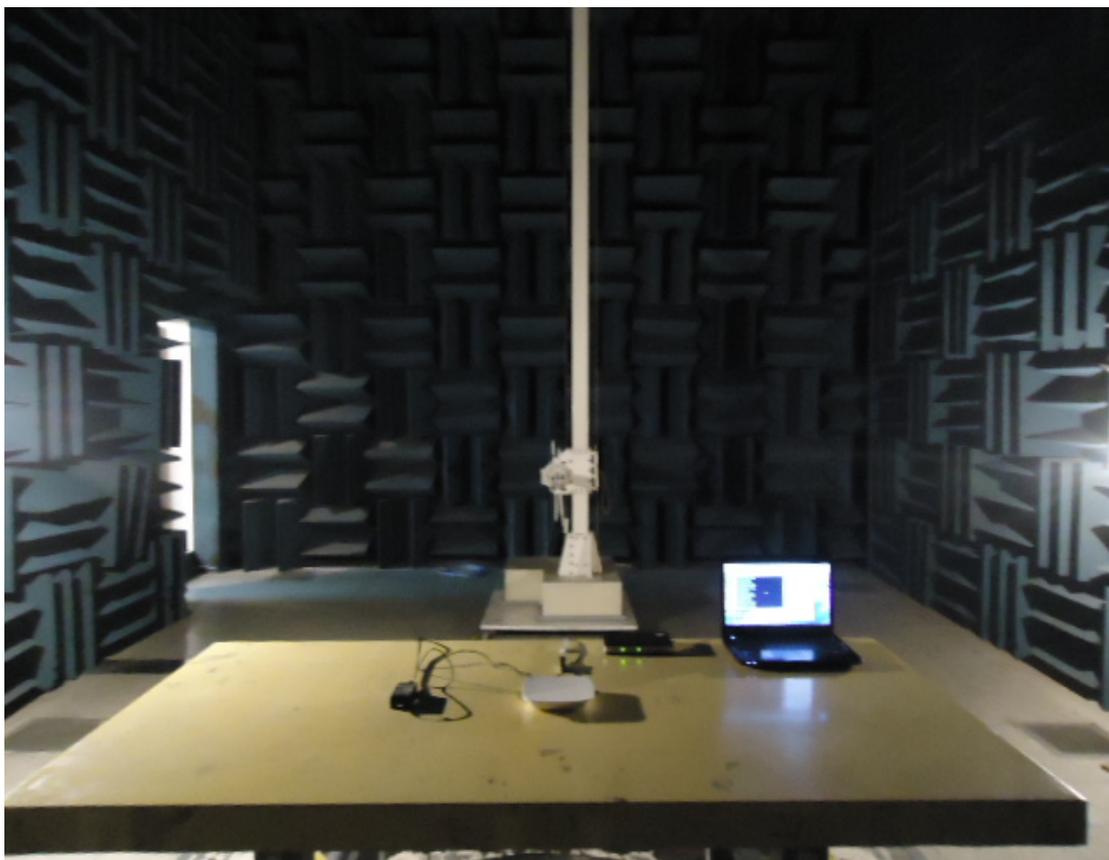
FRONT VIEW OF CONDUCTED MEASUREMENT



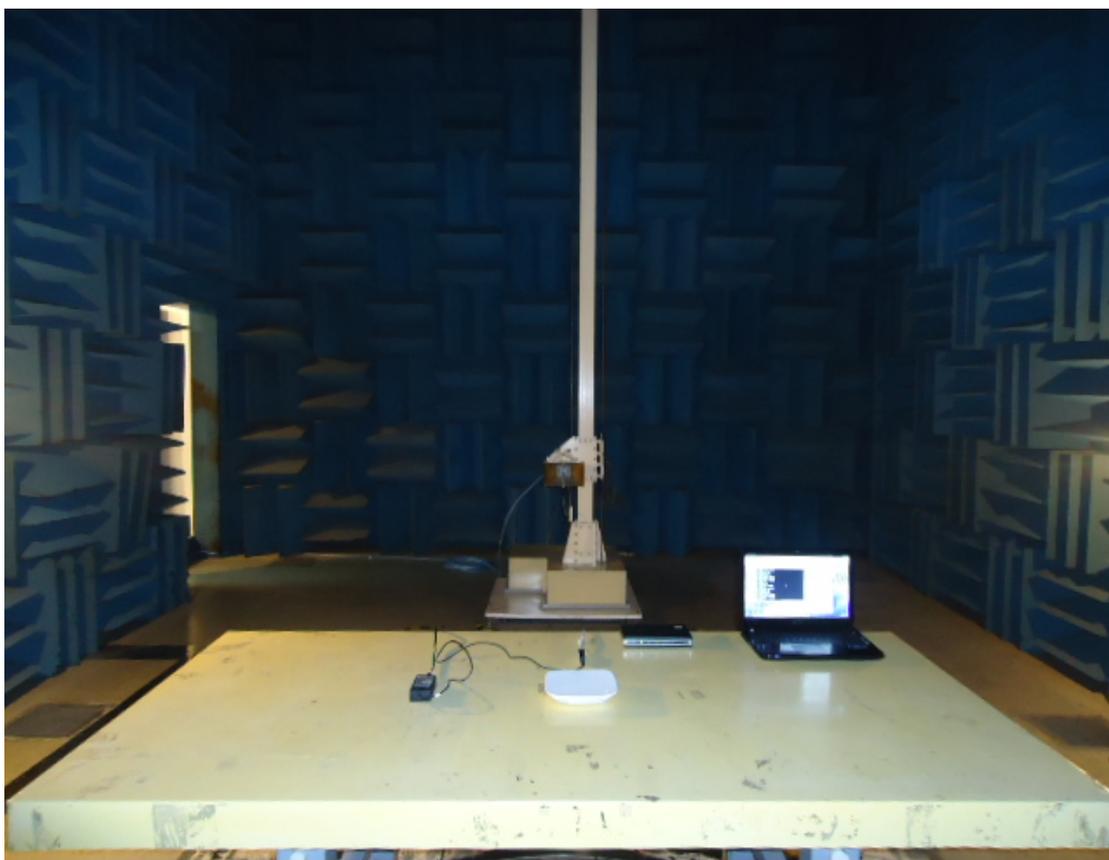
BACK VIEW OF CONDUCTED MEASUREMENT

10.2.Photos of Radiated Measurement at Semi-Anechoic Chamber

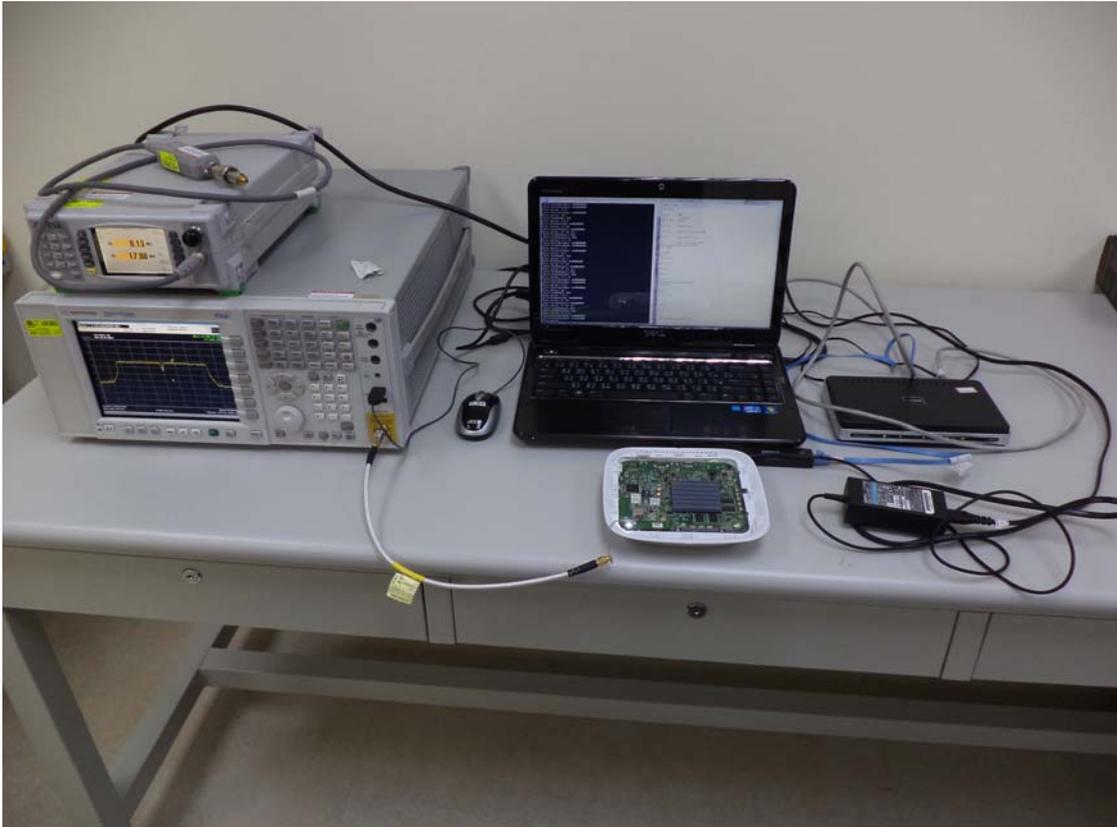
10.2.1.Frequency Below 1GHz



10.2.2. Frequency Above 1GHz



10.3. Photo of Section RF Conducted Measurement



10.4. Photo of Maximum Peak Output Power Measurement

