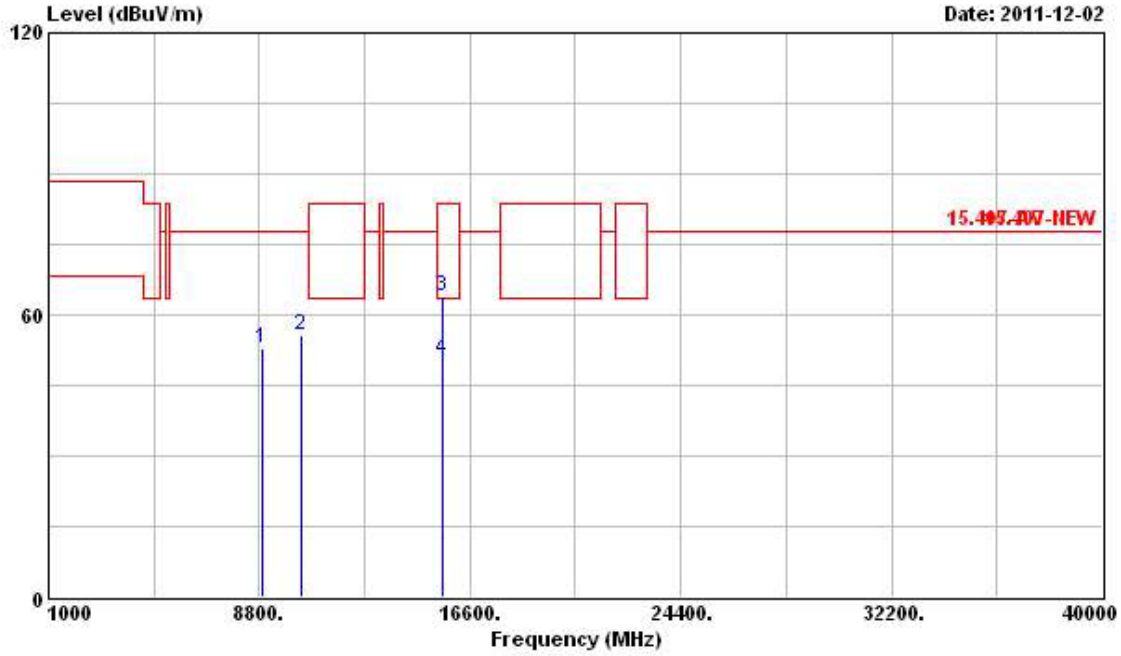
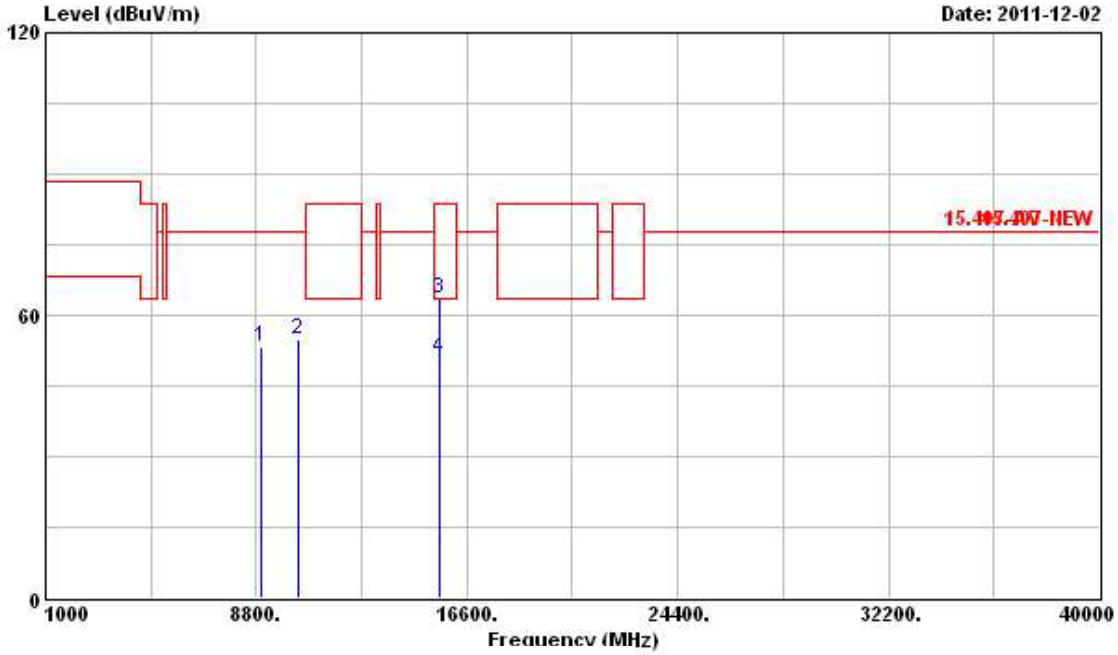
Final Test Date	Dec. 02, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n Ch. 38 (40MHz)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8935.000	52.82	-25.02	77.84	43.85	38.15	6.13	35.31	Peak	---	---
2	10380.000	55.63	-22.21	77.84	44.05	40.03	6.75	35.20	Peak	---	---
3	15570.000	63.91	-19.63	83.54	47.70	42.81	8.45	35.05	Peak	---	---
4	15570.000	50.40	-13.14	63.54	34.19	42.81	8.45	35.05	Average	---	---

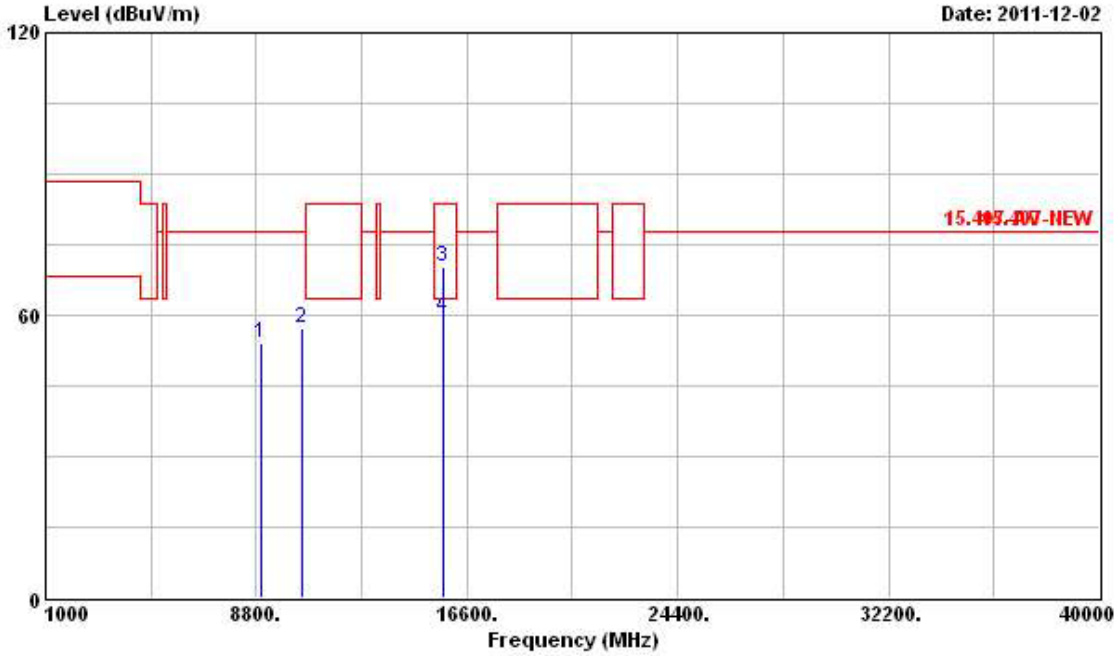
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8962.000	53.22	-24.62	77.84	44.25	38.14	6.14	35.31	Peak	---	---
2	10380.000	55.01	-22.83	77.84	43.43	40.03	6.75	35.20	Peak	---	---
3	15570.000	63.68	-19.86	83.54	47.47	42.81	8.45	35.05	Peak	---	---
4	15570.000	51.08	-12.46	63.54	34.87	42.81	8.45	35.05	Average	---	---

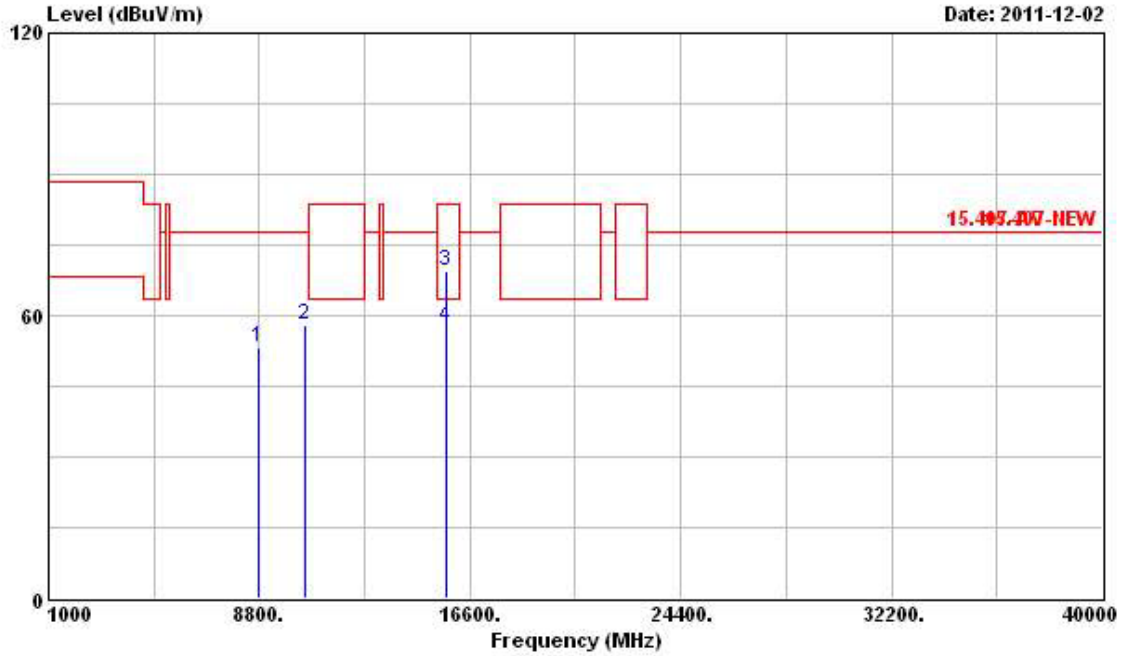
Final Test Date	Dec. 02, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n Ch. 46 (40MHz)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8998.000	54.00	-23.84	77.84	45.05	38.11	6.16	35.32	Peak	---	---
2	10460.000	57.06	-20.78	77.84	45.31	40.07	6.82	35.14	Peak	---	---
3	15690.000	70.36	-13.18	83.54	54.24	42.84	8.46	35.18	Peak	---	---
4	15690.000	59.80	-3.74	63.54	43.68	42.84	8.46	35.18	Average	---	---

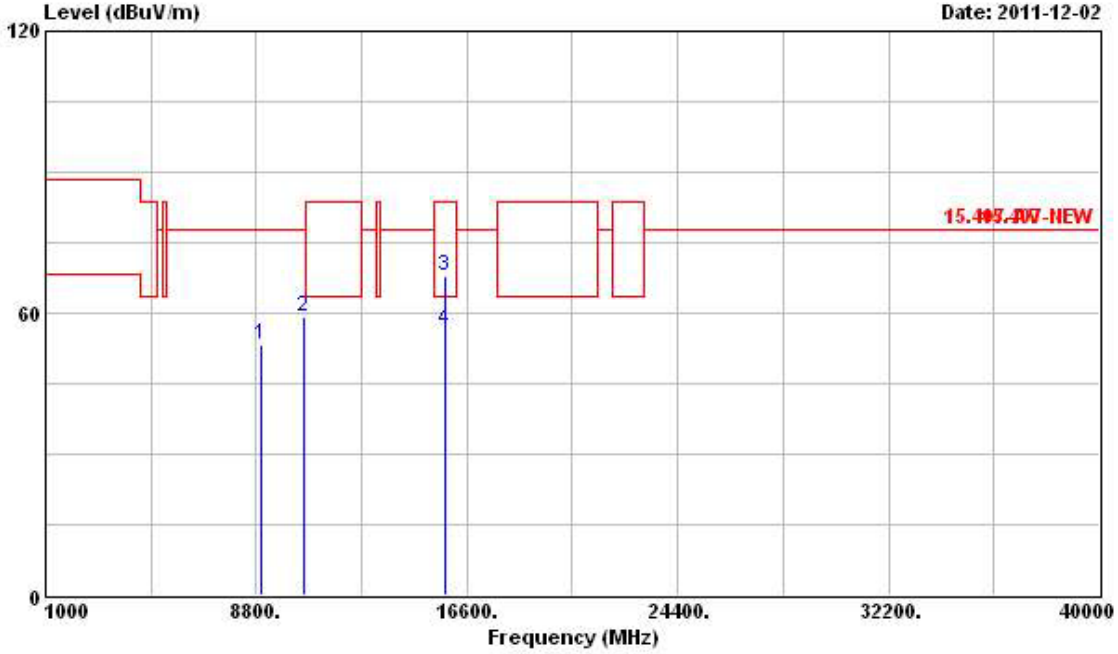
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8791.000	53.14	-24.70	77.84	44.08	38.27	6.08	35.29	Peak	---	---
2	10460.000	58.21	-19.63	77.84	46.46	40.07	6.82	35.14	Peak	---	---
3	15690.000	69.58	-13.96	83.54	53.46	42.84	8.46	35.18	Peak	---	---
4	15690.000	57.46	-6.08	63.54	41.34	42.84	8.46	35.18	Average	---	---

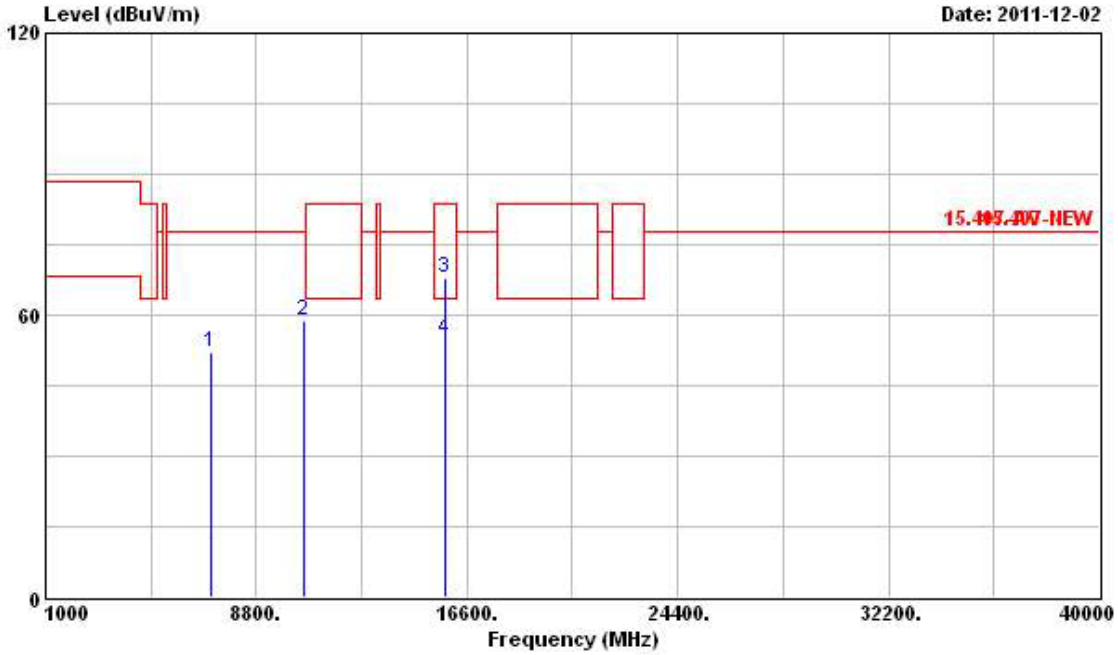
Final Test Date	Dec. 02, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n Ch. 54 (40MHz)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8962.000	53.38	-24.46	77.84	44.41	38.14	6.14	35.31	Peak	---	---
2	10540.000	59.33	-18.51	77.84	47.41	40.12	6.88	35.08	Peak	---	---
3	15810.000	67.88	-15.66	83.54	51.86	42.86	8.46	35.30	Peak	---	---
4	15810.000	56.31	-7.23	63.54	40.29	42.86	8.46	35.30	Average	---	---

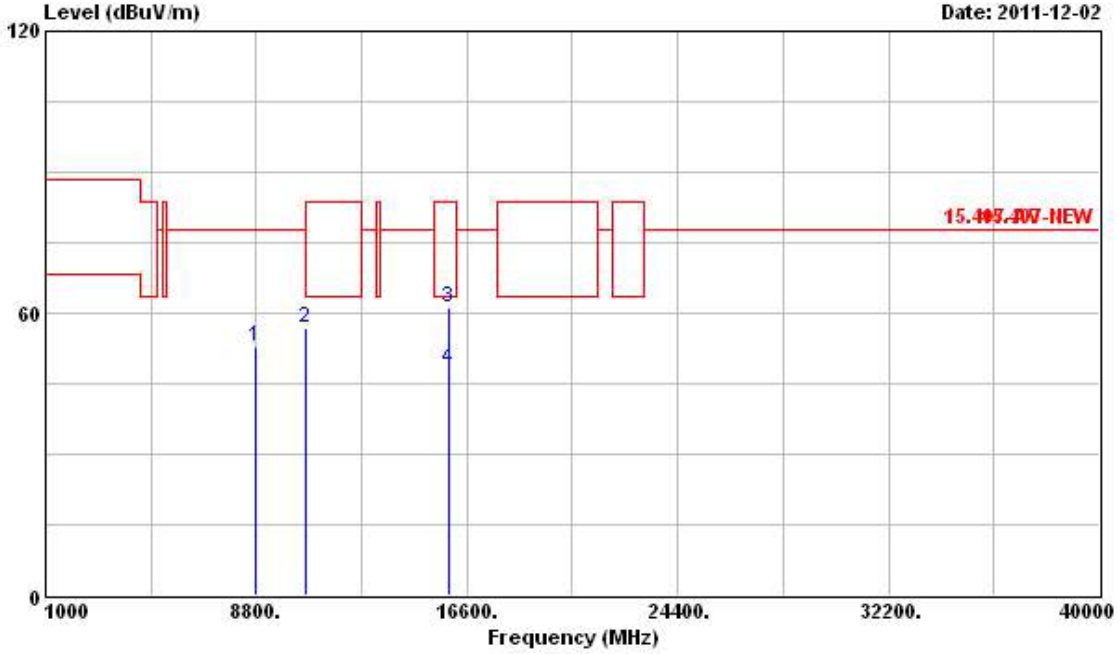
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7126.000	52.04	-25.80	77.84	43.66	37.82	5.61	35.05	Peak	---	---
2	10540.000	58.80	-19.04	77.84	46.88	40.12	6.88	35.08	Peak	---	---
3	15810.000	67.81	-15.73	83.54	51.79	42.86	8.46	35.30	Peak	---	---
4	15810.000	54.75	-8.79	63.54	38.73	42.86	8.46	35.30	Average	---	---

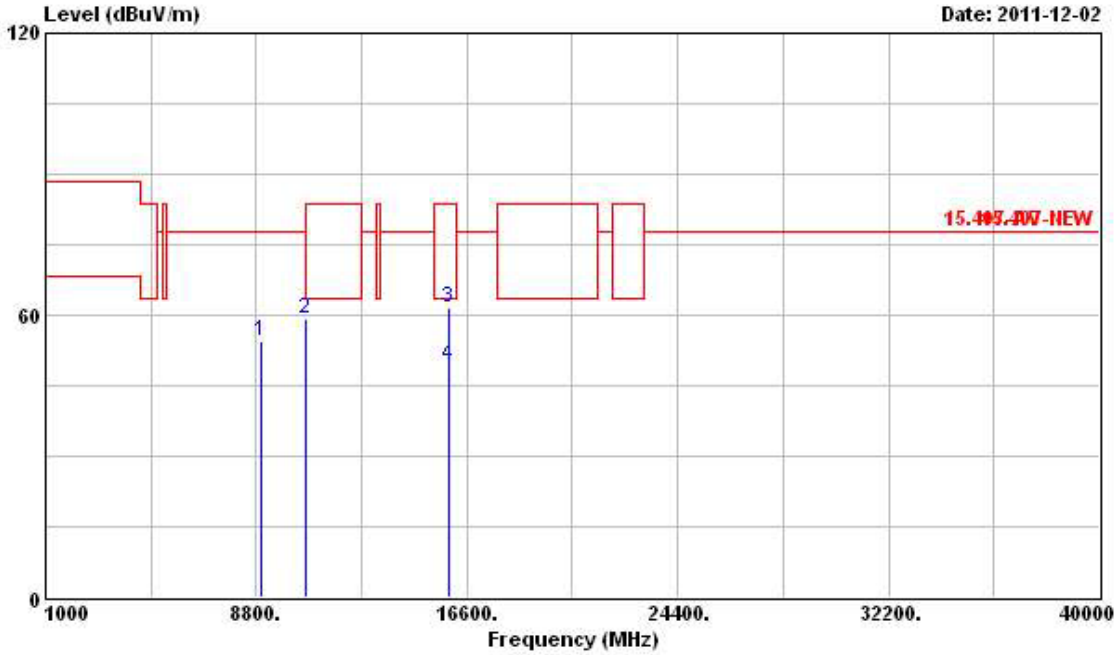
Final Test Date	Dec. 02, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n Ch. 62 (40MHz)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8755.000	52.82	-25.02	77.84	43.74	38.30	6.06	35.28	Peak	---	---
2	10620.000	56.67	-6.87	63.54	44.59	40.17	6.93	35.02	PK	---	---
3	15930.000	61.20	-22.34	83.54	45.24	42.89	8.47	35.40	Peak	---	---
4	15930.000	48.03	-15.51	63.54	32.07	42.89	8.47	35.40	Average	---	---

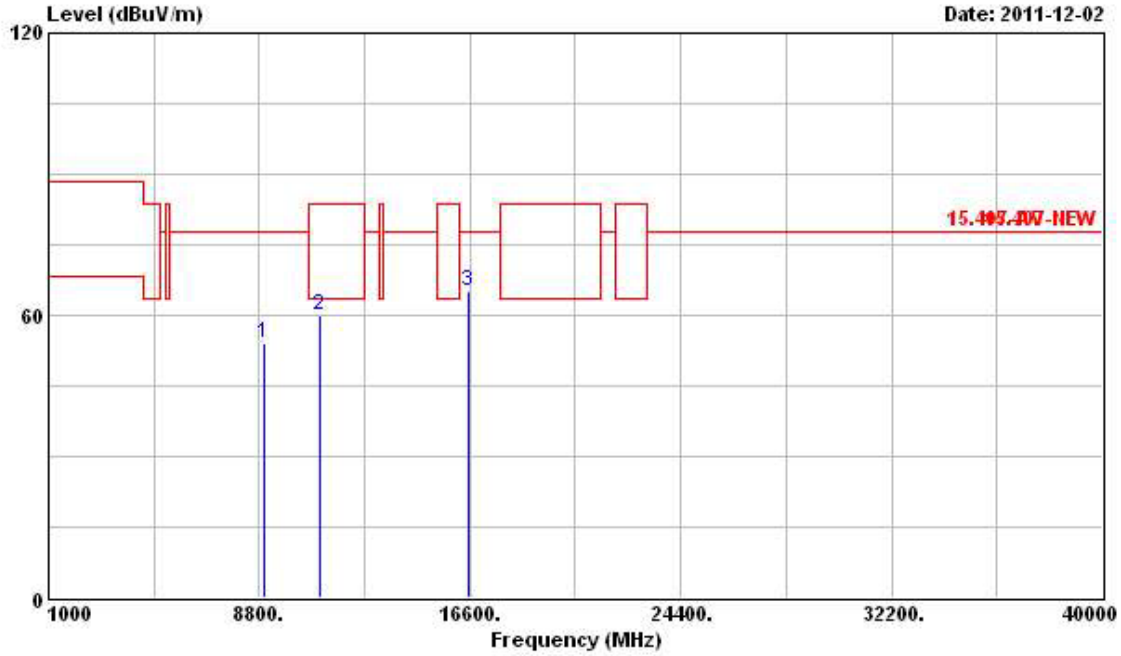
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8962.000	54.37	-23.47	77.84	45.40	38.14	6.14	35.31	Peak	---	---
2	10620.000	59.34	-4.20	63.54	47.26	40.17	6.93	35.02	PK	---	---
3	15930.000	61.60	-21.94	83.54	45.64	42.89	8.47	35.40	Peak	---	---
4	15930.000	49.52	-14.02	63.54	33.56	42.89	8.47	35.40	Average	---	---

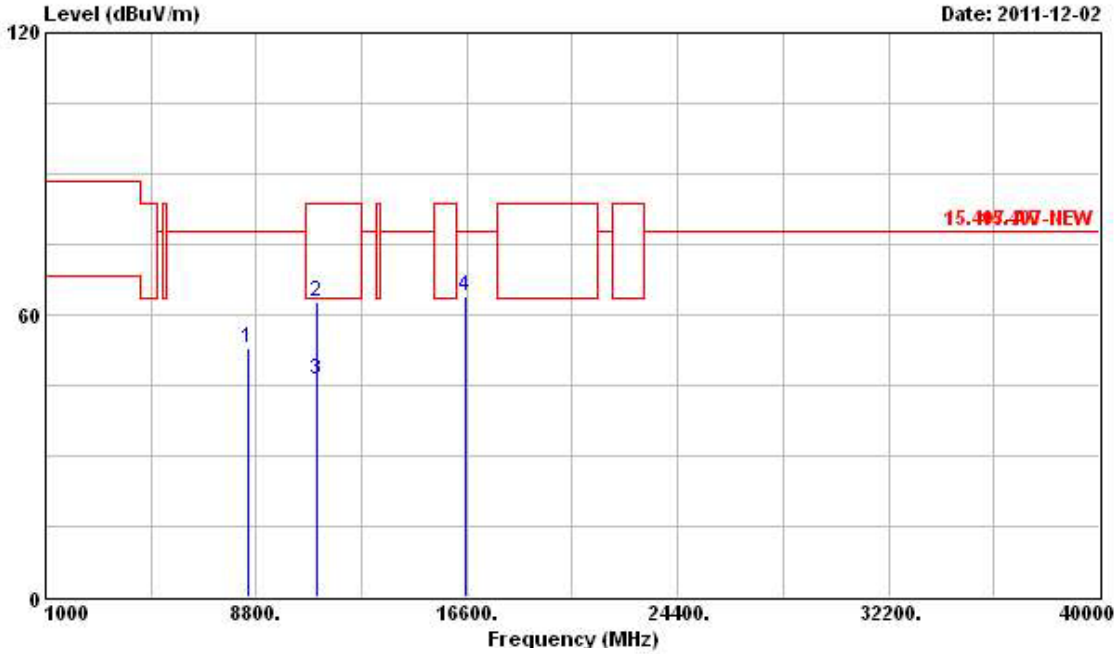
Final Test Date	Dec. 02, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n Ch. 102 (40MHz)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8953.000	54.18	-23.66	77.84	45.21	38.14	6.14	35.31	Peak	---	---
2	11020.000	59.88	-3.66	63.54	47.06	40.41	7.13	34.72	PK	---	---
3	16530.000	64.96	-12.88	77.84	48.12	43.51	8.27	34.94	Peak	---	---

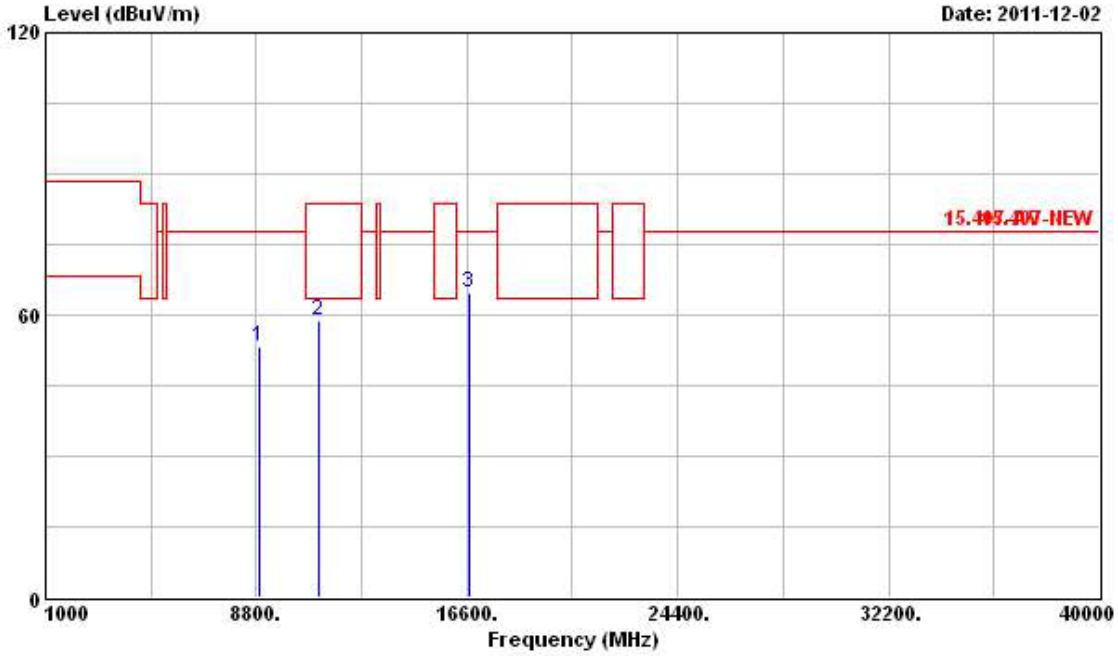
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8501.500	53.08	-24.76	77.84	43.88	38.50	5.94	35.24	Peak	---	---
2	11020.000	62.80	-20.74	83.54	49.98	40.41	7.13	34.72	Peak	---	---
3	11020.000	46.20	-17.34	63.54	33.38	40.41	7.13	34.72	Average	---	---
4	16530.000	63.90	-13.94	77.84	47.06	43.51	8.27	34.94	Peak	---	---

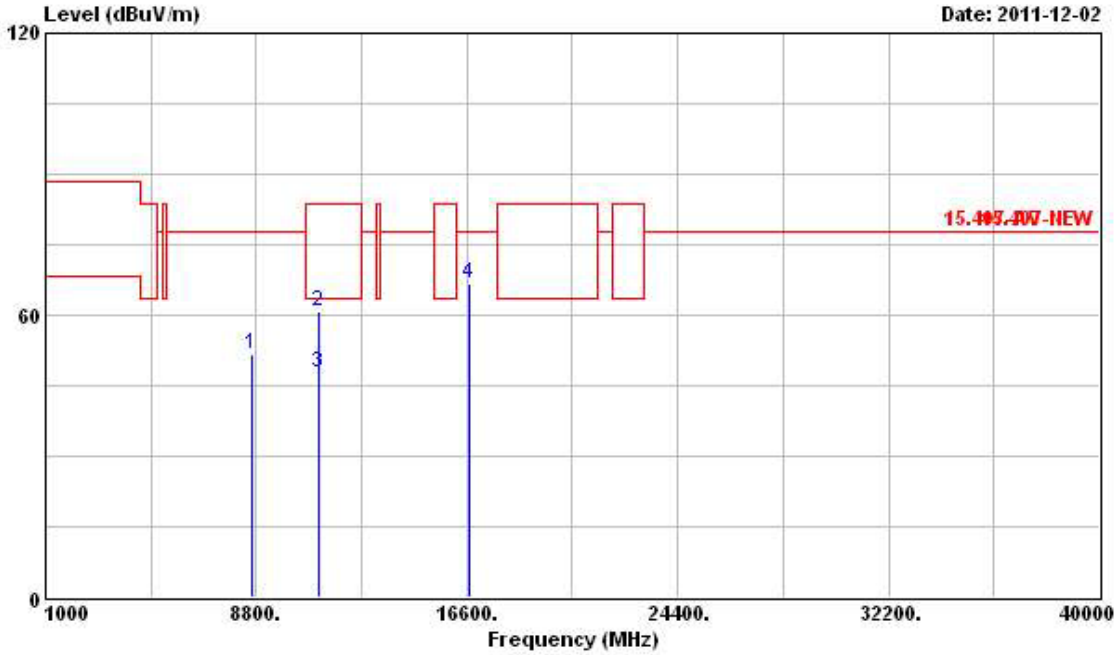
Final Test Date	Dec. 02, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n Ch. 110 (40MHz)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8911.000	53.29	-24.55	77.84	44.28	38.18	6.13	35.30	Peak	---	---
2	11100.000	58.78	-4.76	63.54	46.01	40.44	7.05	34.72	PK	---	---
3	16650.000	64.75	-13.09	77.84	47.49	43.56	8.37	34.67	Peak	---	---

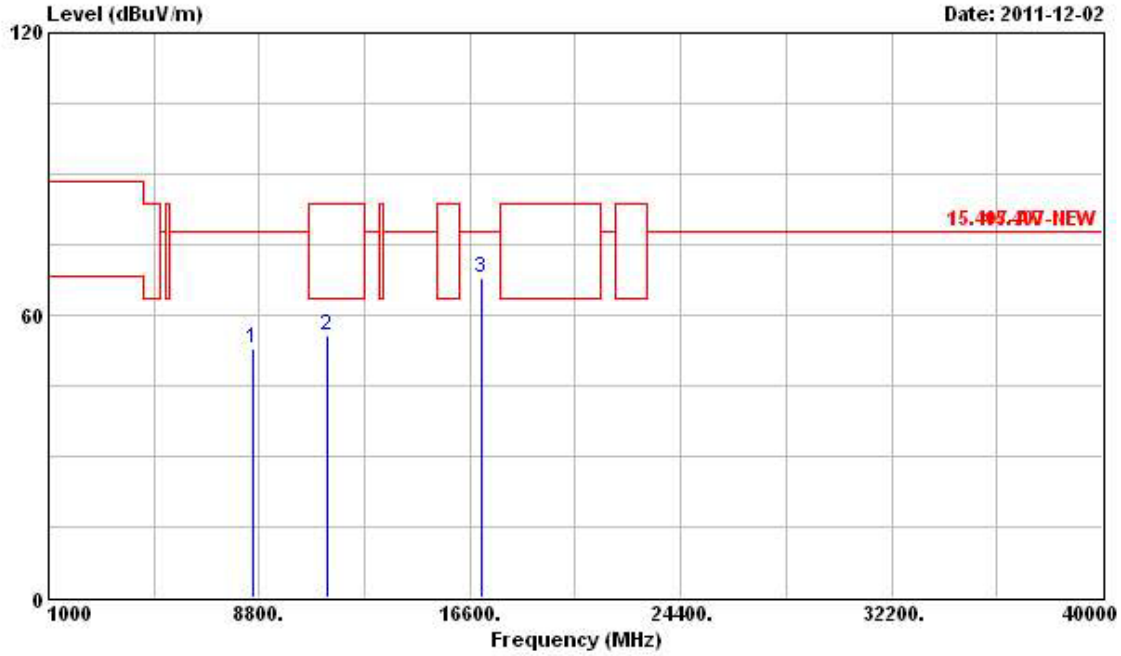
Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8606.500	51.75	-26.09	77.84	42.60	38.42	5.99	35.26	Peak	---	---
2	11100.000	60.85	-22.69	83.54	48.08	40.44	7.05	34.72	Peak	---	---
3	11100.000	47.86	-15.68	63.54	35.09	40.44	7.05	34.72	Average	---	---
4	16650.000	66.58	-11.26	77.84	49.32	43.56	8.37	34.67	Peak	---	---

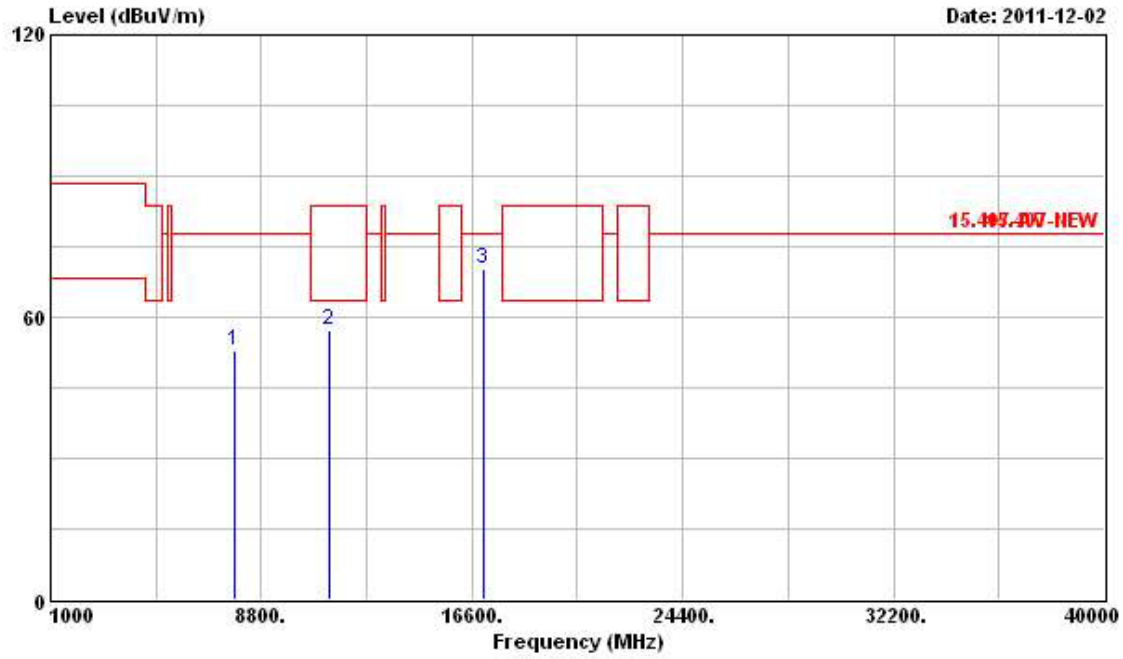
Final Test Date	Dec. 02, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n Ch. 134 (40MHz)

Horizontal



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	8585.500	53.05	-24.79	77.84	43.90	38.43	5.97	35.25	Peak	---	---
2	11340.000	55.83	-7.71	63.54	43.22	40.53	6.80	34.72	PK	---	---
3	17010.000	68.05	-9.79	77.84	49.69	43.69	8.65	33.98	Peak	---	---

Vertical



	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	7777.000	52.89	-24.95	77.84	44.30	38.07	5.74	35.22	Peak	---	---
2	11340.000	57.14	-6.40	63.54	44.53	40.53	6.80	34.72	PK	---	---
3	17010.000	70.43	-7.41	77.84	52.07	43.69	8.65	33.98	Peak	---	---

Note:
The amplitude of spurious emissions that are attenuated by more than 20Db below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (Uv/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level – Preamp Factor = Level.
The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 Db/decade from 3m to 1m.
Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (Db);
Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 Db].

3.7 Band Edge and Fundamental Emissions Measurement

3.7.1 Limit

For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.25 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz (68.3dBuV/m at 3m). In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

3.7.2 Measuring Instruments and Setting

Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	100 MHz
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1 MHz /1 MHz for Peak

3.7.3 Test Procedures

1. The test procedure is the same as section 3.6.3; only the frequency range investigated is limited to 100MHz around band edges.
2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

3.7.4 Test Setup Layout

This test setup layout is the same as that shown in section 3.6.4.

3.7.5 Test Deviation

There is no deviation with the original standard.

3.7.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

3.7.7 Test Result of Band Edge and Fundamental Emissions

For Single Chain:

Final Test Date	Nov. 30, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11a Ch. 36, 40, 48

Channel 36

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1		5150.000	62.36	-1.18	63.54	21.37	36.21	4.78	0.00	Average	---	---
2	X	5185.500	105.51			64.45	36.26	4.80	0.00	Average	---	---
1		5149.900	79.59	-3.95	83.54	38.60	36.21	4.78	0.00	Peak	---	---
2	X	5177.000	116.59			75.53	36.26	4.80	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 40

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1		5150.000	59.38	-4.16	63.54	18.39	36.21	4.78	0.00	Average	---	---
2	X	5194.500	106.86			65.77	36.28	4.81	0.00	Average	---	---
3		5388.600	59.47	-4.07	63.54	18.05	36.54	4.88	0.00	Average	---	---
1		5145.300	72.88	-10.66	83.54	31.89	36.21	4.78	0.00	Peak	---	---
2	X	5202.600	118.27			77.18	36.28	4.81	0.00	Peak	---	---
3		5396.100	73.55	-9.99	83.54	32.11	36.56	4.88	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 48

		Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1		5130.900	60.00	-3.54	63.54	19.03	36.19	4.78	0.00	Average	---	---
2	X	5246.100	111.16			69.99	36.35	4.82	0.00	Average	---	---
3		5365.800	60.11	-3.43	63.54	18.73	36.51	4.87	0.00	Average	---	---
1		5106.900	74.01	-9.53	83.54	33.08	36.16	4.77	0.00	Peak	---	---
2	X	5247.000	122.84			81.67	36.35	4.82	0.00	Peak	---	---
3		5357.700	73.91	-9.63	83.54	32.55	36.49	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Final Test Date	Dec. 07, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11a Ch. 52, 56, 64

Channel 52

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5111.700	59.96	-3.58	63.54	19.03	36.16	4.77	0.00	Average	---	---
2 X	5254.500	111.87			70.70	36.35	4.82	0.00	Average	---	---
3	5358.900	60.28	-3.26	63.54	18.92	36.49	4.87	0.00	Average	---	---
1	5142.900	73.80	-9.74	83.54	32.81	36.21	4.78	0.00	Peak	---	---
2 X	5255.700	123.85			82.68	36.35	4.82	0.00	Peak	---	---
3	5362.200	73.99	-9.55	83.54	32.61	36.51	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 56

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5128.500	60.05	-3.49	63.54	19.08	36.19	4.78	0.00	Average	---	---
2 X	5273.700	110.81			69.60	36.37	4.84	0.00	Average	---	---
3	5358.600	60.88	-2.66	63.54	19.52	36.49	4.87	0.00	Average	---	---
1	5113.800	74.30	-9.24	83.54	33.37	36.16	4.77	0.00	Peak	---	---
2 X	5274.600	122.55			81.34	36.37	4.84	0.00	Peak	---	---
3	5353.800	76.49	-7.05	83.54	35.13	36.49	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 64

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5318.050	107.60			66.31	36.44	4.85	0.00	Average	---	---
2	5350.000	62.23	-1.31	63.54	20.87	36.49	4.87	0.00	Average	---	---
1 X	5322.530	119.03			77.74	36.44	4.85	0.00	Peak	---	---
2	5350.530	79.44	-4.10	83.54	38.08	36.49	4.87	0.00	Peak	---	---

The item 1 is fundamental emissions.

Final Test Date	Nov. 30, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11a Ch. 100, 116, 140

Channel 100

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5460.000	61.90	-1.64	63.54	20.37	36.63	4.90	0.00	Average	---	---
2 X	5496.800	107.47			65.86	36.70	4.91	0.00	Average	---	---
1	5459.680	79.26	-4.28	83.54	37.73	36.63	4.90	0.00	Peak	---	---
2 X	5493.600	118.58			76.99	36.68	4.91	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 116

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5438.640	59.88	-3.66	63.54	18.37	36.61	4.90	0.00	Average	---	---
2 X	5573.040	108.14			66.41	36.78	4.95	0.00	Average	---	---
3	5747.120	59.82	-18.02	77.84	17.76	36.99	5.07	0.00	Average	---	---
1	5460.000	72.94	-4.90	77.84	31.41	36.63	4.90	0.00	Peak	---	---
2 X	5573.040	119.40			77.67	36.78	4.95	0.00	Peak	---	---
3	5730.160	73.78	-4.06	77.84	31.77	36.97	5.04	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 140

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5705.480	103.90			61.91	36.95	5.04	0.00	Average	---	---
2	5725.000	64.81			22.80	36.97	5.04	0.00	Average	---	---
1 X	5705.720	114.99			73.00	36.95	5.04	0.00	Peak	---	---
2 X	5725.000	80.79			38.78	36.97	5.04	0.00	Peak	---	---

The item 1 is fundamental emissions and the item 2 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

Final Test Date	Nov. 30, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (20MHz) Ch. 36, 40, 48

Channel 36

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5150.000	61.32	-2.22	63.54	20.33	36.21	4.78	0.00	Average	---	---
2 X	5186.700	104.28			63.22	36.26	4.80	0.00	Average	---	---
1	5149.500	79.10	-4.44	83.54	38.11	36.21	4.78	0.00	Peak	---	---
2 X	5183.500	116.12			75.06	36.26	4.80	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 40

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5150.000	62.19	-1.35	63.54	21.20	36.21	4.78	0.00	Average	---	---
2 X	5203.800	108.02			66.93	36.28	4.81	0.00	Average	---	---
3	5385.300	59.77	-3.77	63.54	18.36	36.54	4.87	0.00	Average	---	---
1	5145.000	77.27	-6.27	83.54	36.28	36.21	4.78	0.00	Peak	---	---
2 X	5202.900	119.37			78.28	36.28	4.81	0.00	Peak	---	---
3	5385.000	73.17	-10.37	83.54	31.76	36.54	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5100.900	59.64	-3.90	63.54	18.73	36.14	4.77	0.00	Average	---	---
2 X	5242.500	110.42			69.25	36.35	4.82	0.00	Average	---	---
3	5353.800	59.82	-3.72	63.54	18.46	36.49	4.87	0.00	Average	---	---
1	5104.200	73.09	-10.45	83.54	32.18	36.14	4.77	0.00	Peak	---	---
2 X	5242.200	122.33			81.16	36.35	4.82	0.00	Peak	---	---
3	5369.700	73.49	-10.05	83.54	32.11	36.51	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Final Test Date	Nov. 30, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (20MHz) Ch. 52, 56, 64

Channel 52

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5117.400	59.87	-3.67	63.54	18.93	36.16	4.78	0.00	Average	---	---
2 X	5256.600	111.44			70.27	36.35	4.82	0.00	Average	---	---
3	5364.600	60.37	-3.17	63.54	18.99	36.51	4.87	0.00	Average	---	---
1	5106.600	73.87	-9.67	83.54	32.94	36.16	4.77	0.00	Peak	---	---
2 X	5259.000	123.63			82.44	36.37	4.82	0.00	Peak	---	---
3	5359.800	74.99	-8.55	83.54	33.63	36.49	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 56

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5115.000	58.74	-4.80	63.54	17.80	36.16	4.78	0.00	Average	---	---
2 X	5277.300	110.63			69.39	36.40	4.84	0.00	Average	---	---
3	5351.400	61.88	-1.66	63.54	20.52	36.49	4.87	0.00	Average	---	---
1	5143.800	72.27	-11.27	83.54	31.28	36.21	4.78	0.00	Peak	---	---
2 X	5283.000	121.95			80.71	36.40	4.84	0.00	Peak	---	---
3	5350.500	78.65	-4.89	83.54	37.29	36.49	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 64

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5317.980	106.75			65.46	36.44	4.85	0.00	Average	---	---
2	5350.000	62.16	-1.38	63.54	20.80	36.49	4.87	0.00	Average	---	---
1 X	5323.580	119.21			77.92	36.44	4.85	0.00	Peak	---	---
2	5350.250	79.87	-3.67	83.54	38.51	36.49	4.87	0.00	Peak	---	---

The item 1 is fundamental emissions.

Final Test Date	Dec. 07, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (20MHz) Ch. 100, 116, 140

Channel 100

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5460.000	61.96	-1.58	63.54	20.43	36.63	4.90	0.00	Average	---	---
2 X	5494.880	107.04			65.45	36.68	4.91	0.00	Average	---	---
1	5456.160	80.53	-3.01	83.54	39.00	36.63	4.90	0.00	Peak	---	---
2 X	5504.080	118.54			76.93	36.70	4.91	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 116

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5436.080	59.89	-3.65	63.54	18.38	36.61	4.90	0.00	Average	---	---
2 X	5573.040	108.06			66.33	36.78	4.95	0.00	Average	---	---
3	5744.240	59.80	-18.04	77.84	17.74	36.99	5.07	0.00	Average	---	---
1	5436.080	72.89	-10.65	83.54	31.38	36.61	4.90	0.00	Peak	---	---
2 X	5573.040	119.03			77.30	36.78	4.95	0.00	Peak	---	---
3	5739.440	72.99	-4.85	77.84	30.93	36.99	5.07	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 140

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5705.720	104.90			62.91	36.95	5.04	0.00	Average	---	---
2	5725.160	66.26			24.25	36.97	5.04	0.00	Average	---	---
1 X	5703.560	116.61			74.62	36.95	5.04	0.00	Peak	---	---
2 X	5725.160	82.95			40.94	36.97	5.04	0.00	Peak	---	---

The item 1 is fundamental emissions and the item 2 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

Final Test Date	Nov. 30, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (40MHz) Ch. 38, 46

Channel 38

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5147.400	62.16	-1.38	63.54	21.17	36.21	4.78	0.00	Average	---	---
2 X	5204.700	99.88			58.79	36.28	4.81	0.00	Average	---	---
1	5149.100	80.76	-2.78	83.54	39.77	36.21	4.78	0.00	Peak	---	---
2 X	5196.700	111.16			70.07	36.28	4.81	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 46

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5149.500	61.82	-1.72	63.54	20.83	36.21	4.78	0.00	Average	---	---
2 X	5241.500	105.25			64.08	36.35	4.82	0.00	Average	---	---
3	5365.750	60.64	-2.90	63.54	19.26	36.51	4.87	0.00	Average	---	---
1	5145.500	75.69	-7.85	83.54	34.70	36.21	4.78	0.00	Peak	---	---
2 X	5238.750	117.03			75.88	36.33	4.82	0.00	Peak	---	---
3	5357.500	73.62	-9.92	83.54	32.26	36.49	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Final Test Date	Nov. 30, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (40MHz) Ch. 54, 62

Channel 54

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5118.600	60.14	-3.40	63.54	19.20	36.16	4.78	0.00	Average	---	---
2 X	5256.600	105.91			64.74	36.35	4.82	0.00	Average	---	---
3	5356.500	61.97	-1.57	63.54	20.61	36.49	4.87	0.00	Average	---	---
1	5135.700	74.25	-9.29	83.54	33.28	36.19	4.78	0.00	Peak	---	---
2 X	5255.700	117.22			76.05	36.35	4.82	0.00	Peak	---	---
3	5357.400	76.92	-6.62	83.54	35.56	36.49	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 62

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5323.500	101.24			59.95	36.44	4.85	0.00	Average	---	---
2	5350.000	62.07	-1.47	63.54	20.71	36.49	4.87	0.00	Average	---	---
1 X	5315.100	112.88			71.59	36.44	4.85	0.00	Peak	---	---
2	5350.700	81.39	-2.15	83.54	40.03	36.49	4.87	0.00	Peak	---	---

The item 1 is fundamental emissions.

Final Test Date	Nov. 30, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (40MHz) Ch. 102, 110, 134

Channel 102

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5460.000	61.66	-1.88	63.54	20.13	36.63	4.90	0.00	Average	---	---
2 X	5501.100	99.66			58.05	36.70	4.91	0.00	Average	---	---
1	5458.700	76.73	-6.81	83.54	35.20	36.63	4.90	0.00	Peak	---	---
2 X	5499.800	111.23			69.62	36.70	4.91	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 110

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5460.000	59.98	-3.56	63.54	18.45	36.63	4.90	0.00	Average	---	---
2 X	5559.700	104.84			63.13	36.76	4.95	0.00	Average	---	---
3	5733.400	59.82	-18.02	77.84	17.81	36.97	5.04	0.00	Average	---	---
1	5457.400	73.49	-10.05	83.54	31.96	36.63	4.90	0.00	Peak	---	---
2 @	5545.300	116.54			74.85	36.74	4.95	0.00	Peak	---	---
3	5733.700	72.60	-5.24	77.84	30.59	36.97	5.04	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 134

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5656.700	101.41			59.52	36.89	5.00	0.00	Average	---	---
2	5725.000	62.86			20.85	36.97	5.04	0.00	Average	---	---
1 X	5655.400	112.76			70.87	36.89	5.00	0.00	Peak	---	---
2 X	5727.000	78.13			36.12	36.97	5.04	0.00	Peak	---	---

The item 1 is fundamental emissions and the item 2 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

For Two Chains:

Final Test Date	Dec. 01, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (20MHz) Ch. 36, 40, 48

Channel 36

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5149.900	62.01	-1.53	63.54	21.02	36.21	4.78	0.00	Average	---	---
2 X	5174.600	104.41			63.35	36.26	4.80	0.00	Average	---	---
1	5149.900	77.83	-5.71	83.54	36.84	36.21	4.78	0.00	Peak	---	---
2 X	5185.500	116.73			75.67	36.26	4.80	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 40

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5150.000	61.92	-1.62	63.54	20.93	36.21	4.78	0.00	Average	---	---
2 X	5205.300	108.35			67.26	36.28	4.81	0.00	Average	---	---
3	5384.100	59.45	-4.09	63.54	18.04	36.54	4.87	0.00	Average	---	---
1	5148.600	76.76	-6.78	83.54	35.77	36.21	4.78	0.00	Peak	---	---
2 X	5207.400	120.33			79.24	36.28	4.81	0.00	Peak	---	---
3	5399.700	72.95	-10.59	83.54	31.51	36.56	4.88	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 48

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5100.000	59.88	-3.66	63.54	18.97	36.14	4.77	0.00	Average	---	---
2 X	5247.000	109.89			68.72	36.35	4.82	0.00	Average	---	---
3	5367.300	59.88	-3.66	63.54	18.50	36.51	4.87	0.00	Average	---	---
1	5121.000	73.14	-10.40	83.54	32.20	36.16	4.78	0.00	Peak	---	---
2 X	5244.900	121.43			80.26	36.35	4.82	0.00	Peak	---	---
3	5357.700	73.73	-9.81	83.54	32.37	36.49	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Final Test Date	Dec. 07, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (20MHz) Ch. 52, 56, 64

Channel 52

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5103.300	59.76	-3.78	63.54	18.85	36.14	4.77	0.00	Average	---	---
2 X	5256.900	110.48			69.31	36.35	4.82	0.00	Average	---	---
3	5362.200	59.71	-3.83	63.54	18.33	36.51	4.87	0.00	Average	---	---
1	5129.400	74.03	-9.51	83.54	33.06	36.19	4.78	0.00	Peak	---	---
2 X	5253.000	122.89			81.72	36.35	4.82	0.00	Peak	---	---
3	5364.600	73.36	-10.18	83.54	31.98	36.51	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 56

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5118.600	59.85	-3.69	63.54	18.91	36.16	4.78	0.00	Average	---	---
2 X	5272.500	109.30			68.09	36.37	4.84	0.00	Average	---	---
3	5356.200	60.01	-3.53	63.54	18.65	36.49	4.87	0.00	Average	---	---
1	5108.100	73.59	-9.95	83.54	32.66	36.16	4.77	0.00	Peak	---	---
2 X	5275.800	121.53			80.29	36.40	4.84	0.00	Peak	---	---
3	5357.400	74.73	-8.81	83.54	33.37	36.49	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 64

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5325.890	106.05			64.76	36.44	4.85	0.00	Average	---	---
2	5350.000	61.95	-1.59	63.54	20.59	36.49	4.87	0.00	Average	---	---
1 X	5325.610	118.95			77.66	36.44	4.85	0.00	Peak	---	---
2	5350.460	78.20	-5.34	83.54	36.84	36.49	4.87	0.00	Peak	---	---

The item 1 is fundamental emissions.

Final Test Date	Dec. 01, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (20MHz) Ch. 100, 116, 140

Channel 100

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5460.000	62.25	-1.29	63.54	20.72	36.63	4.90	0.00	Average	---	---
2 X	5495.120	108.08			66.49	36.68	4.91	0.00	Average	---	---
1	5459.680	78.51	-5.03	83.54	36.98	36.63	4.90	0.00	Peak	---	---
2 X	5501.520	120.59			78.98	36.70	4.91	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 116

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5432.240	60.66	-2.88	63.54	19.15	36.61	4.90	0.00	Average	---	---
2 X	5579.120	106.11			64.38	36.78	4.95	0.00	Average	---	---
3	5747.120	59.85	-17.99	77.84	17.79	36.99	5.07	0.00	Average	---	---
1	5438.640	74.80	-8.74	83.54	33.29	36.61	4.90	0.00	Peak	---	---
2 X	5585.520	118.82			77.04	36.80	4.98	0.00	Peak	---	---
3	5725.360	73.77	-4.07	77.84	31.76	36.97	5.04	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 140

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5706.020	105.38			63.39	36.95	5.04	0.00	Average	---	---
2	5725.000	67.24			25.23	36.97	5.04	0.00	Average	---	---
1 X	5706.260	117.06			75.07	36.95	5.04	0.00	Peak	---	---
2 X	5725.400	84.34			42.33	36.97	5.04	0.00	Peak	---	---

The item 1 is fundamental emissions and the item 2 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

Final Test Date	Dec. 01, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (40MHz) Ch. 38, 46

Channel 38

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5149.100	61.90	-1.64	63.54	20.91	36.21	4.78	0.00	Average	---	---
2 X	5201.900	99.45			58.36	36.28	4.81	0.00	Average	---	---
1	5149.800	78.56	-4.98	83.54	37.57	36.21	4.78	0.00	Peak	---	---
2 X	5205.100	111.94			70.85	36.28	4.81	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 46

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5150.000	62.26	-1.28	63.54	21.27	36.21	4.78	0.00	Average	---	---
2 X	5244.750	105.83			64.66	36.35	4.82	0.00	Average	---	---
3	5360.500	60.46	-3.08	63.54	19.10	36.49	4.87	0.00	Average	---	---
1	5142.500	75.76	-7.78	83.54	34.77	36.21	4.78	0.00	Peak	---	---
2 X	5245.750	119.11			77.94	36.35	4.82	0.00	Peak	---	---
3	5359.500	74.21	-9.33	83.54	32.85	36.49	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Final Test Date	Dec. 07, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (40MHz) Ch. 54, 62

Channel 54

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5130.600	60.07	-3.47	63.54	19.10	36.19	4.78	0.00	Average	---	---
2 X	5256.600	106.61			65.44	36.35	4.82	0.00	Average	---	---
3	5354.100	62.27	-1.27	63.54	20.91	36.49	4.87	0.00	Average	---	---
1	5139.300	74.01	-9.53	83.54	33.04	36.19	4.78	0.00	Peak	---	---
2 X	5259.000	119.46			78.27	36.37	4.82	0.00	Peak	---	---
3	5363.400	77.56	-5.98	83.54	36.18	36.51	4.87	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 62

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5304.600	98.48			57.22	36.42	4.84	0.00	Average	---	---
2	5350.000	62.94	-0.60	63.54	21.58	36.49	4.87	0.00	Average	---	---
1 X	5300.700	111.50			70.24	36.42	4.84	0.00	Peak	---	---
2	5350.700	82.55	-0.99	83.54	41.19	36.49	4.87	0.00	Peak	---	---

The item 1 is fundamental emissions.

Final Test Date	Dec. 01, 2011	**Test Site No.**	03CH02-HY
Temperature	22.3℃	**Humidity**	62%
Test Engineer	Daniel	**Configuration**	802.11n (40MHz) Ch. 102, 110, 134

Channel 102

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5460.000	62.12	-1.42	63.54	20.59	36.63	4.90	0.00	Average	---	---
2 X	5499.400	101.08			59.47	36.70	4.91	0.00	Average	---	---
1	5454.600	77.92	-5.62	83.54	36.39	36.63	4.90	0.00	Peak	---	---
2 X	5500.700	114.33			72.72	36.70	4.91	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 110

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1	5455.300	60.35	-3.19	63.54	18.82	36.63	4.90	0.00	Average	---	---
2 X	5546.500	105.13			63.44	36.74	4.95	0.00	Average	---	---
3	5735.800	59.87	-17.97	77.84	17.84	36.99	5.04	0.00	Average	---	---
1	5445.400	73.82	-9.72	83.54	32.31	36.61	4.90	0.00	Peak	---	---
2 X	5557.000	117.59			75.88	36.76	4.95	0.00	Peak	---	---
3	5738.500	72.73	-5.11	77.84	30.67	36.99	5.07	0.00	Peak	---	---

The item 2 is fundamental emissions.

Channel 134

	Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		cm	deg
1 X	5656.700	101.57			59.68	36.89	5.00	0.00	Average	---	---
2	5725.000	63.57			21.56	36.97	5.04	0.00	Average	---	---
1 X	5653.400	114.51			72.62	36.89	5.00	0.00	Peak	---	---
2	5725.000	77.73			35.72	36.97	5.04	0.00	Peak	---	---

The item 1 is fundamental emissions and the item 2 is on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

3.8 Frequency Stability Measurement

3.8.1 Limit

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 ±20ppm (IEEE 802.11a specification).

3.8.2 Measuring Instruments and Setting

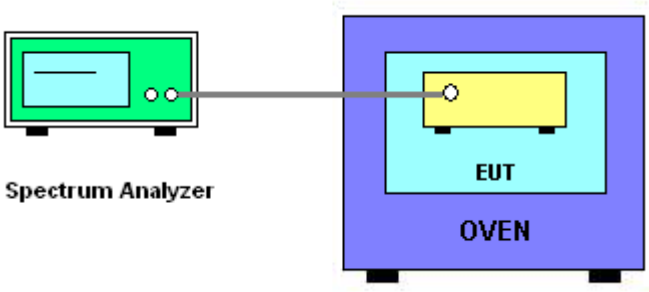
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RB	10 kHz
VB	10 kHz
Sweep Time	Auto

3.8.3 Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 10^6 ppm and the limit is less than ±20ppm (IEEE 802.11a specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature rule is -20°C~50°C.
8. Measuring multiple antennas, the connectors are required to link with Spectrum Analyzer through a combiner.

3.8.4 Test Setup Layout



3.8.5 Test Deviation

There is no deviation with the original standard.

3.8.6 EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

3.8.7 Test Result of Frequency Stability

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	**5320 MHz**
5.75	5320.016800
5	5320.011600
4.25	5320.012600
Max. Deviation (MHz)	**0.016800**
Max. Deviation (ppm)	**3.16**

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(℃)	**5320 MHz**
-20	5320.025800
-10	5320.027600
0	5320.020400
10	5320.016800
20	5320.011400
30	5320.010200
40	5320.012600
50	5320.023400
Max. Deviation (MHz)	**0.027600**
Max. Deviation (ppm)	**5.19**

3.9 Antenna Requirements

3.9.1 Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

3.9.2 Antenna Connector Construction

Please refer to section 2.3 in this test report; antenna connector complied with the requirements.

4 LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMC Receiver	R&S	ESCS 30	100174	9 kHz ~ 2.75 GHz	Apr. 20, 2011	Conduction (CO04-HY)
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz – 30MHz	Jan. 17, 2011	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9 kHz ~ 30 MHz	May 04, 2011	Conduction (CO04-HY)
RF Cable-CON	HUBER+SUHNER	RG213/U	CB049	9 kHz ~ 30 MHz	Apr. 21, 2011	Conduction (CO04-HY)
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	N/A	Conduction (CO04-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP 30	100023	9 KHz ~ 30 GHz	Mar. 15, 2011	Conducted (TH01-HY)
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	Jun. 03, 2011	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-001	N/A	Nov. 17, 2011	Conducted (TH01-HY)
RF Cable-1m	Jye Bao	RG142	CB034-1m	20 MHz ~ 7 GHz	Dec. 03, 2011	Conducted (TH01-HY)
RF Cable-2m	Jye Bao	RG142	CB035-2m	20 MHz ~ 1 GHz	Dec. 03, 2011	Conducted (TH01-HY)
Signal Generator	R&S	SMR40	100116	10 MHz ~ 40 GHz	Jun. 07, 2011	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	0917017	300 MHz ~ 40 GHz	Jan. 06, 2011	Conducted (TH01-HY)
Power Meter	Anritsu	ML2495A	0949003	300 MHz ~ 40 GHz	Jan. 06, 2011	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
AC Power Source	HPC	HPA-500W	HPA-9100024	AC 0 ~ 300V	Jun. 09, 2011*	Conducted (TH01-HY)

Note: Calibration Interval of instruments listed above is two year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Spectrum Analyzer	R&S	FSP40	100305/040	9 kHz ~ 40 GHz	Feb. 11, 2011	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30 MHz ~ 1 GHz 3m	May 11, 2011	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100 kHz ~ 1.3 GHz	Jul. 25, 2011	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1 GHz ~ 26.5 GHz	Jul. 25, 2011	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1 GHz ~ 18 GHz	Nov. 15, 2011	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz ~ 1 GHz	Mar. 07, 2011	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1 GHz ~ 40 GHz	Mar. 07, 2011	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30 MHz ~ 2 GHz	Oct. 22, 2011	Radiation (03CH02-HY)
Turn Table	HD	DS 420	420/649/00	0 - 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	HD	MA 240	240/559/00	1 m - 4 m	N/A	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is one year.

5 TEST LOCATION

SHIJR	ADD	:	6Fl., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
	TEL	:	886-2-2696-2468
	FAX	:	886-2-2696-2255
HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
	TEL	:	886-3-327-3456
	FAX	:	886-3-318-0055
LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
	TEL	:	886-2-2601-1640
	FAX	:	886-2-2601-1695
DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
	TEL	:	886-2-2631-4739
	FAX	:	886-2-2631-9740
JUNGHE	ADD	:	7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.
	TEL	:	886-2-8227-2020
	FAX	:	886-2-8227-2626
NEIHU	ADD	:	4Fl., No. 339, Hsin Hu 2nd Rd., Taipei 114, Taiwan, R.O.C.
	TEL	:	886-2-2794-8886
	FAX	:	886-2-2794-9777
JHUBEI	ADD	:	No.8, Lane 728, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
	TEL	:	886-3-656-9065
	FAX	:	886-3-656-9085

6 TAF CERTIFICATE OF ACCREDITATION

Certificate No. : L1190-110111

財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

This is to certify that

Sporton International Inc.
EMC & Wireless Communications Laboratory
No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria	:	ISO/IEC 17025:2005
Accreditation Number	:	1190
Originally Accredited	:	December 15, 2003
Effective Period	:	January 10, 2010 to January 09, 2013
Accredited Scope	:	Testing Field, see described in the Appendix
Specific Accreditation Program	:	Accreditation Program for Designated Testing Laboratory for Commodities Inspection Accreditation Program for Telecommunication Equipment Testing Laboratory Accreditation Program for BSMI Mutual Recognition Arrangment with Foreign Authorities

Jay-San Chen
President, Taiwan Accreditation Foundation
Date : January 11, 2011

P1, total 24 pages