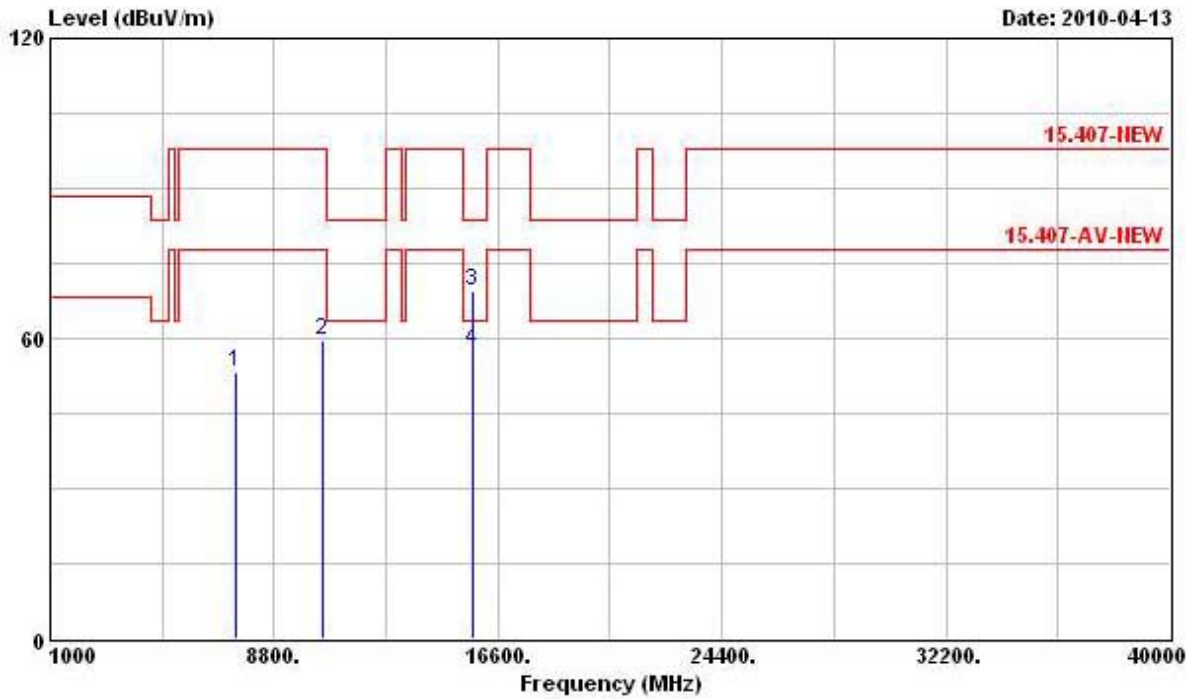


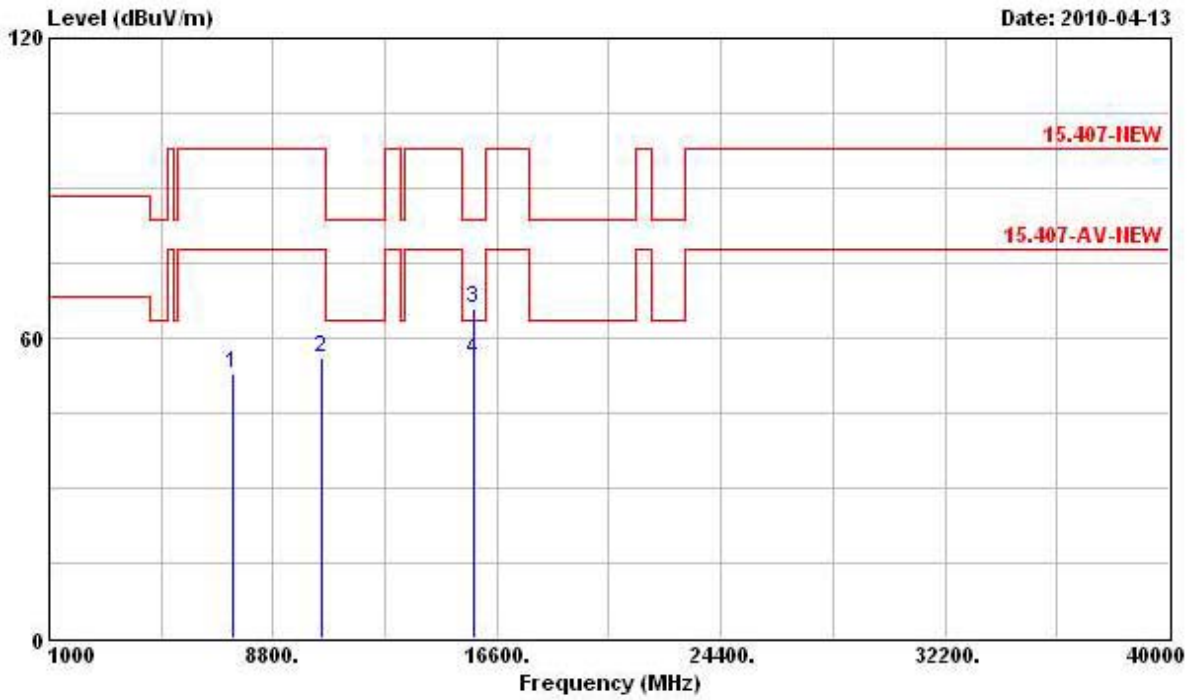
Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7451.000	53.37	-24.47	77.84	44.12	37.89	5.65	34.29	PK
2 @ 10480.000	59.72	-18.12	77.84	46.84	40.09	6.82	34.03	PK
3 @ 15720.000	69.61	-13.93	83.54	51.34	42.84	8.46	33.03	Peak
4 @ 15720.000	57.50	-6.04	63.54	39.23	42.84	8.46	33.03	Average

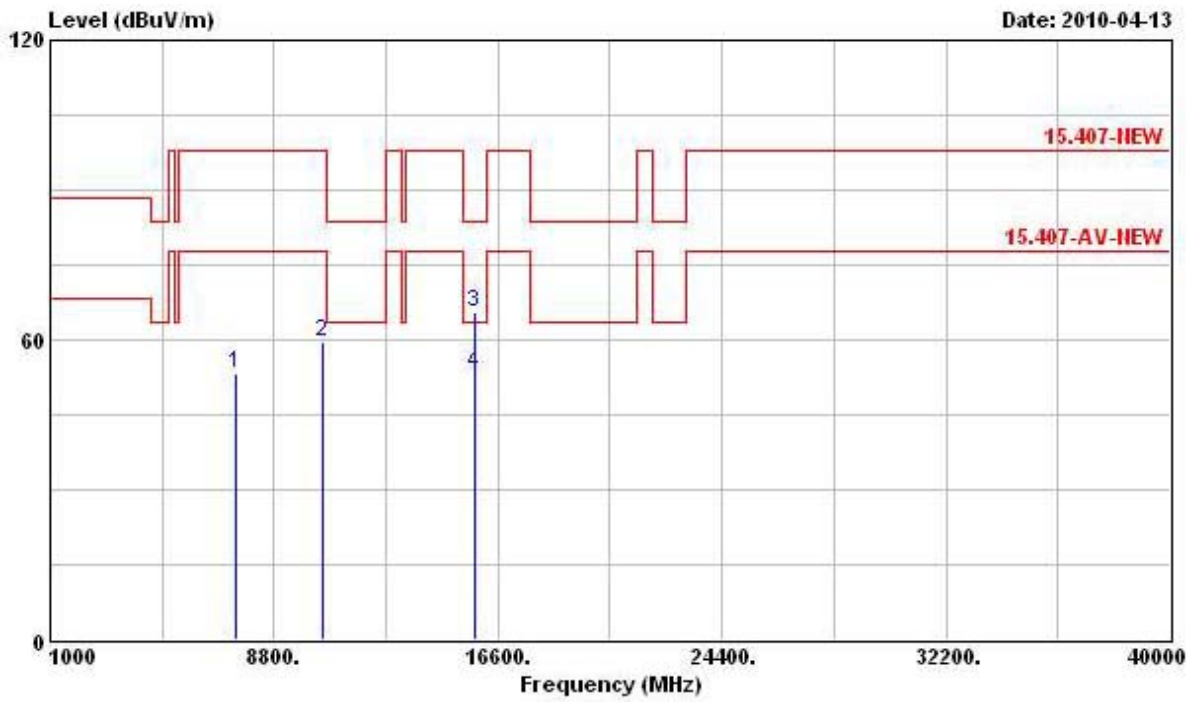
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 52 (20MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7365.000	52.88	-24.96	77.84	43.66	37.87	5.64	34.29	PK
2 @ 10520.000	56.22	-21.62	77.84	43.26	40.11	6.85	34.00	PK
3 @ 15780.000	65.91	-17.63	83.54	47.70	42.86	8.46	33.11	Peak
4 @ 15780.000	55.66	-7.88	63.54	37.45	42.86	8.46	33.11	Average

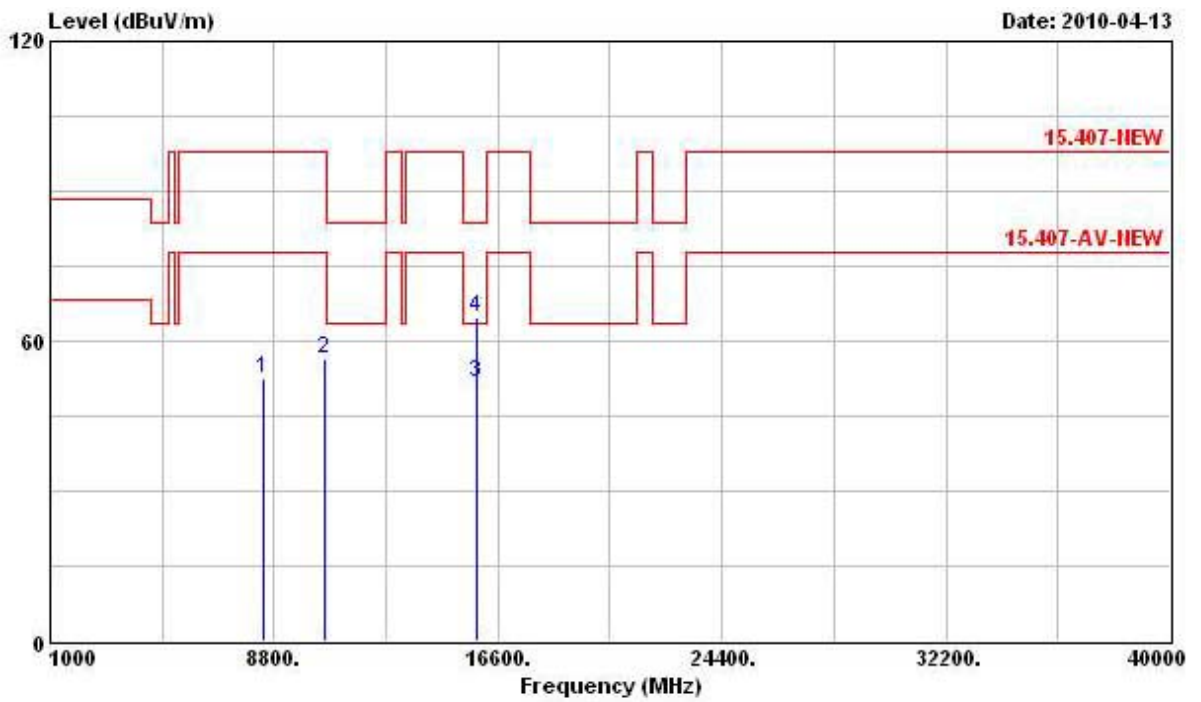
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7450.000	53.40	-24.44	77.84	44.15	37.89	5.65	34.29	PK
2	10520.000	59.50	-18.34	77.84	46.54	40.11	6.85	34.00	PK
3	15780.000	65.55	-17.99	83.54	47.34	42.86	8.46	33.11	Peak
4	15780.000	53.47	-10.07	63.54	35.26	42.86	8.46	33.11	Average

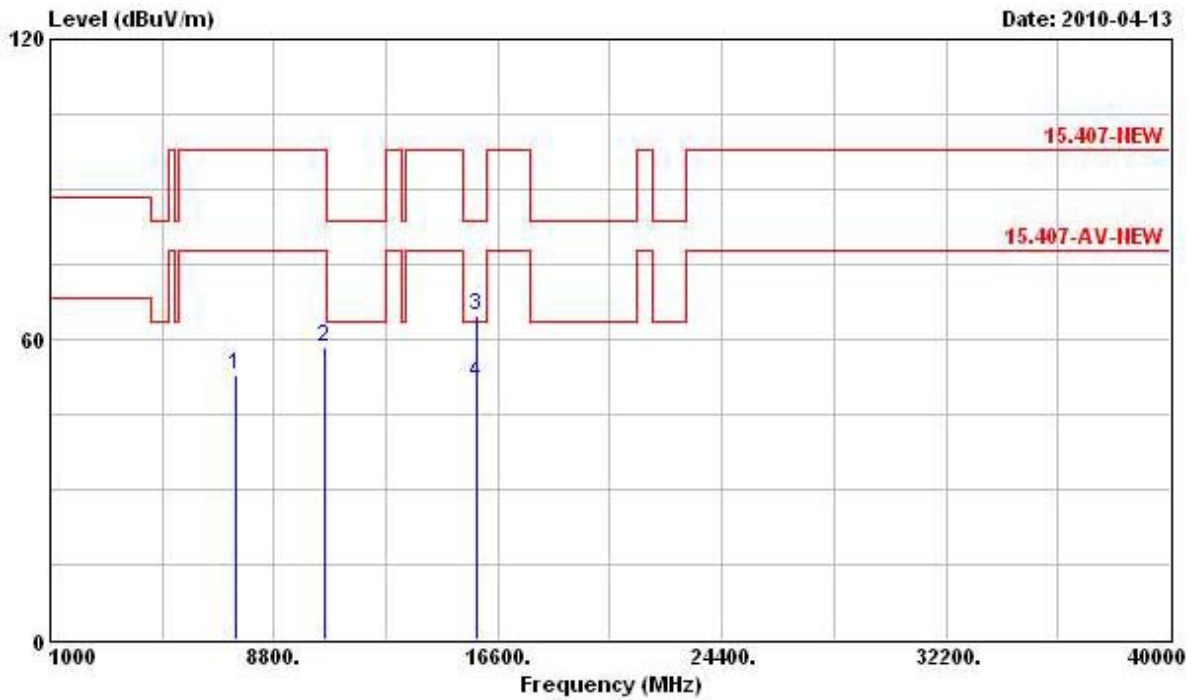
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 56 (20MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB	
1 @ 8421.000	52.65	-25.19	77.84	42.50	38.46	5.92	34.23	PK
2 @ 10560.000	56.31	-21.53	77.84	43.24	40.13	6.88	33.94	PK
3 @ 15840.000	51.83	-11.71	63.54	33.66	42.87	8.46	33.16	Average
4 @ 15840.000	64.78	-18.76	83.54	46.61	42.87	8.46	33.16	Peak

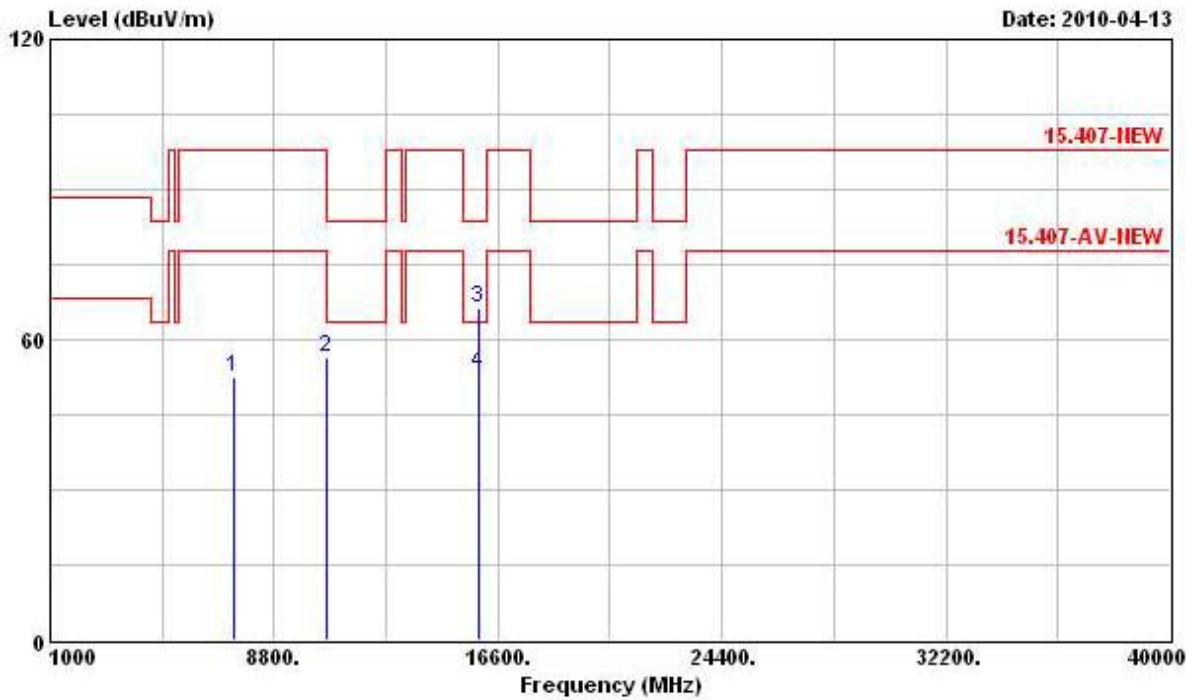
Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7451.000	52.93	-24.91	77.84	43.68	37.89	5.65	34.29	PK
2 @ 10560.000	58.36	-19.48	77.84	45.29	40.13	6.88	33.94	PK
3 @ 15840.000	64.83	-18.71	83.54	46.66	42.87	8.46	33.16	Peak
4 @ 15840.000	51.32	-12.22	63.54	33.15	42.87	8.46	33.16	Average

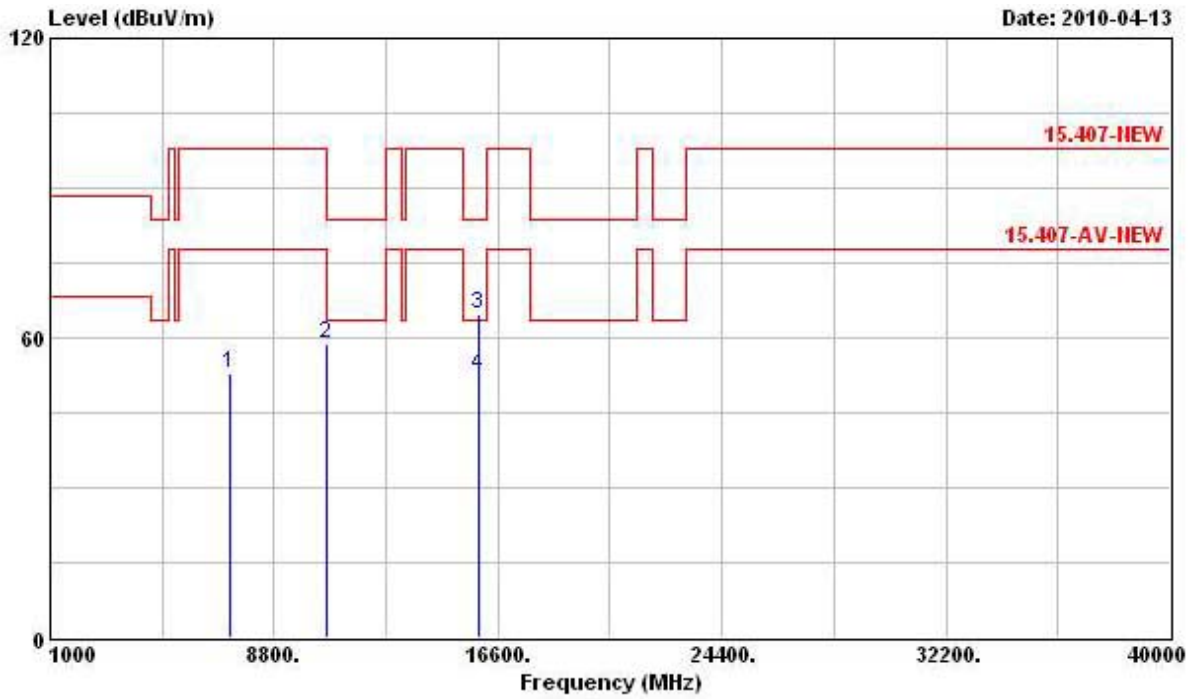
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 64 (20MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 7364.000	52.47	-25.37	77.84	43.25	37.87	5.64	34.29	PK
2 @10640.000	56.41	-7.13	63.54	43.14	40.18	6.93	33.84	PK
3 15960.000	66.16	-17.38	83.54	48.09	42.89	8.47	33.29	Peak
4 15960.000	53.31	-10.23	63.54	35.24	42.89	8.47	33.29	Average

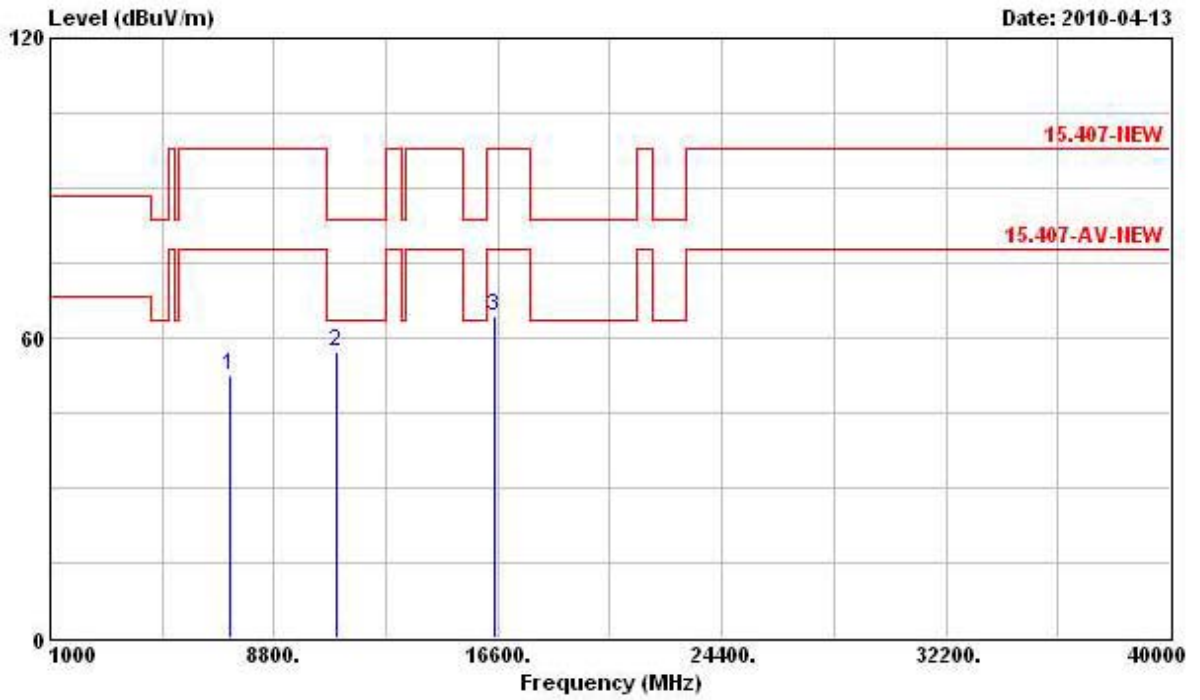
Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7256.000	52.75	-25.09	77.84	43.56	37.85	5.63	34.29	PK
2 @ 10640.000	58.96	-4.58	63.54	45.69	40.18	6.93	33.84	PK
3 @ 15960.000	64.88	-18.66	83.54	46.81	42.89	8.47	33.29	Peak
4 @ 15960.000	52.32	-11.22	63.54	34.25	42.89	8.47	33.29	Average

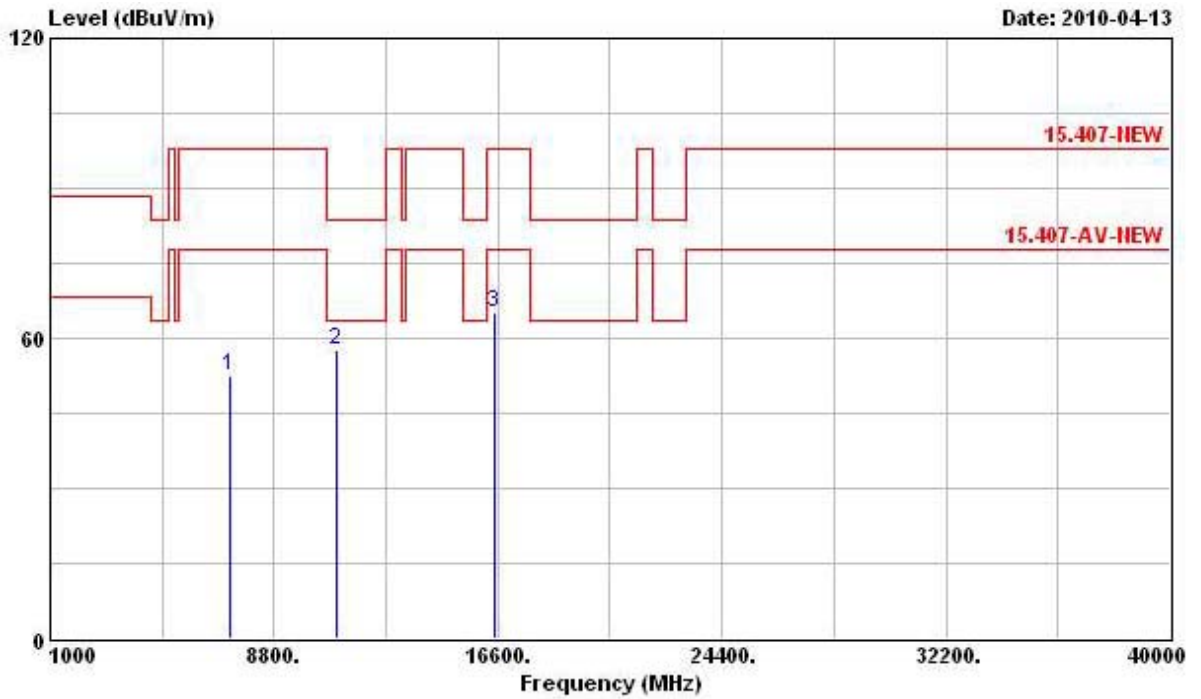
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 100 (20MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7245.000	52.44	-25.40	77.84	43.25	37.85	5.63	34.29	PK
2 @ 11000.000	57.42	-6.12	63.54	43.24	40.40	7.17	33.39	PK
3 @ 16500.000	64.31	-13.53	77.84	45.35	43.50	8.24	32.78	PK

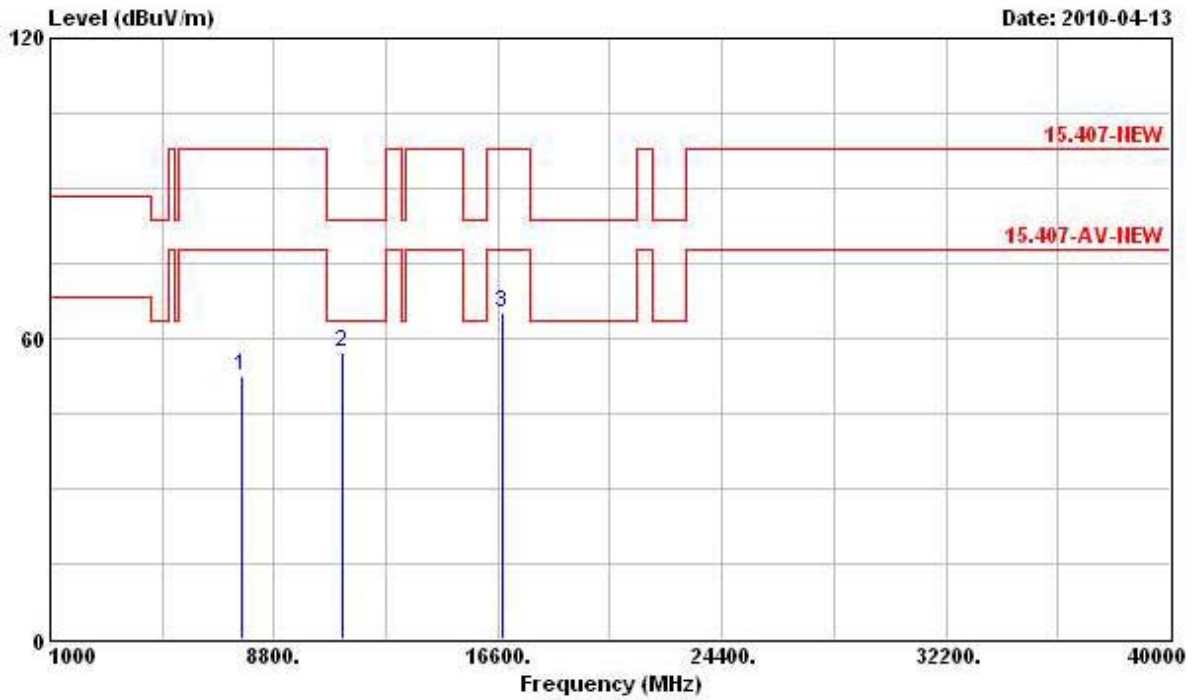
Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7241.000	52.44	-25.40	77.84	43.25	37.85	5.63	34.29	PK
2 @ 11000.000	57.44	-6.10	63.54	43.26	40.40	7.17	33.39	PK
3 @ 16500.000	65.19	-12.65	77.84	46.23	43.50	8.24	32.78	PK

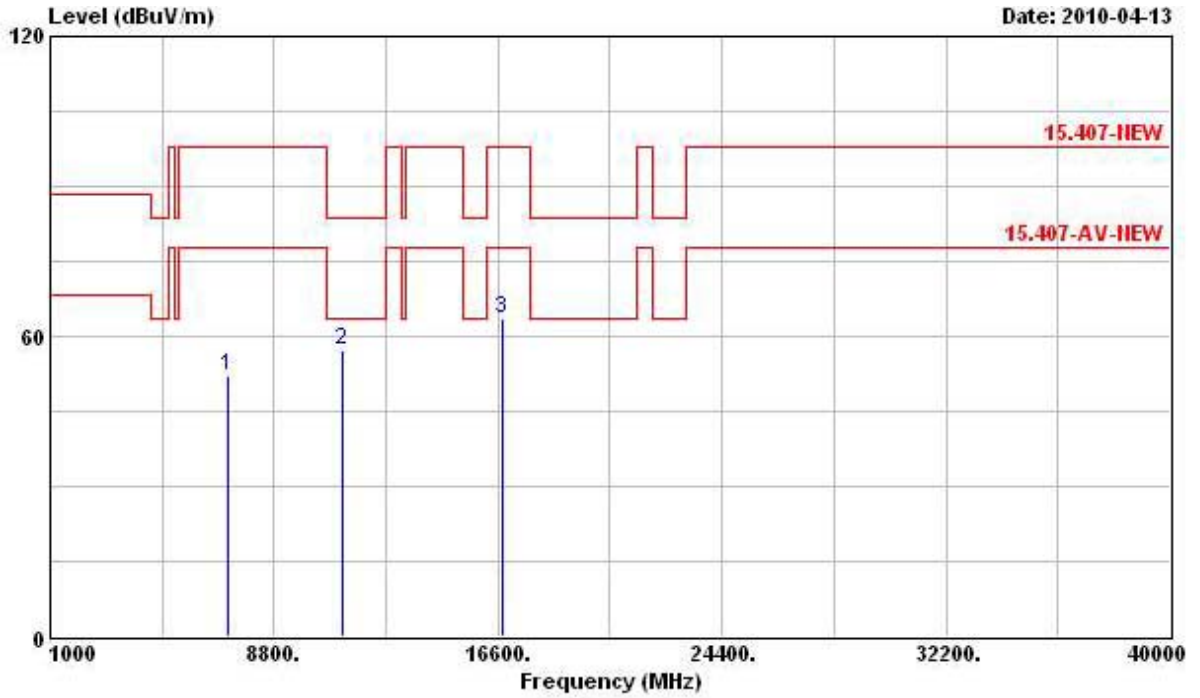
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 116 (20MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7654.000	52.64	-25.20	77.84	43.26	37.99	5.71	34.32	PK
2 @ 11160.000	57.21	-6.33	63.54	43.25	40.47	6.96	33.47	PK
3 @ 16740.000	65.33	-12.51	77.84	45.82	43.60	8.47	32.56	PK

Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7213.000	52.21	-25.63	77.84	43.04	37.84	5.62	34.29	PK
2 @ 11160.000	57.19	-6.35	63.54	43.23	40.47	6.96	33.47	PK
3 @ 16740.000	63.58	-14.26	77.84	44.07	43.60	8.47	32.56	PK

Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 140 (20MHz)

Horizontal

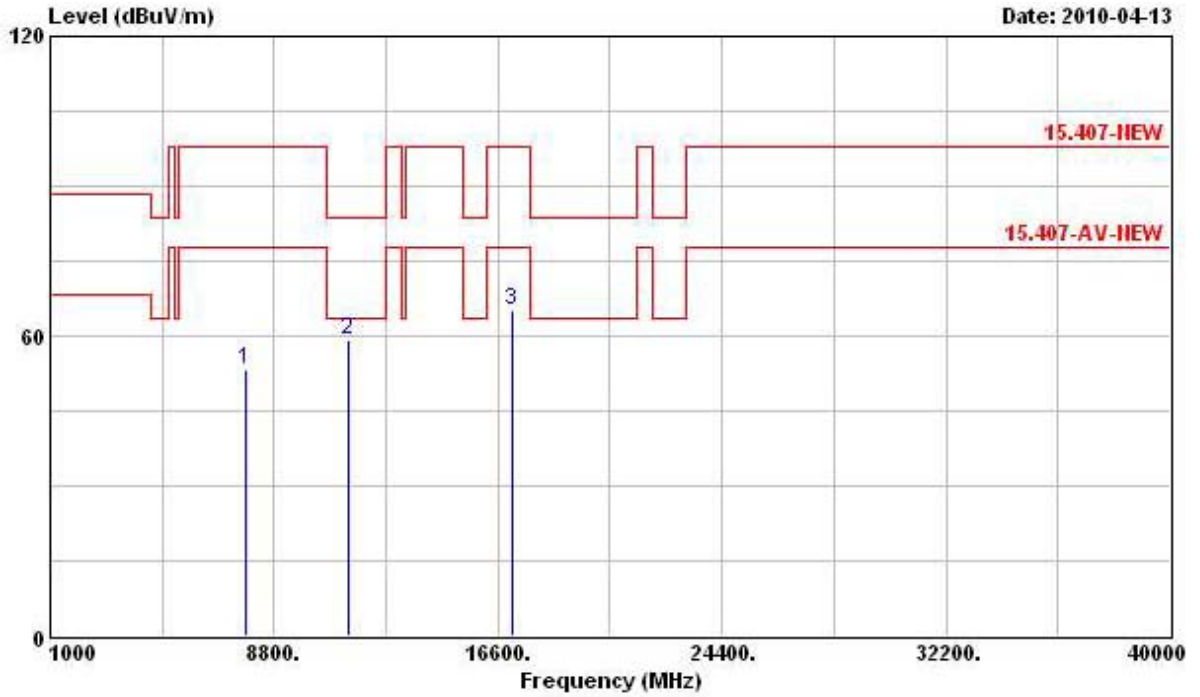
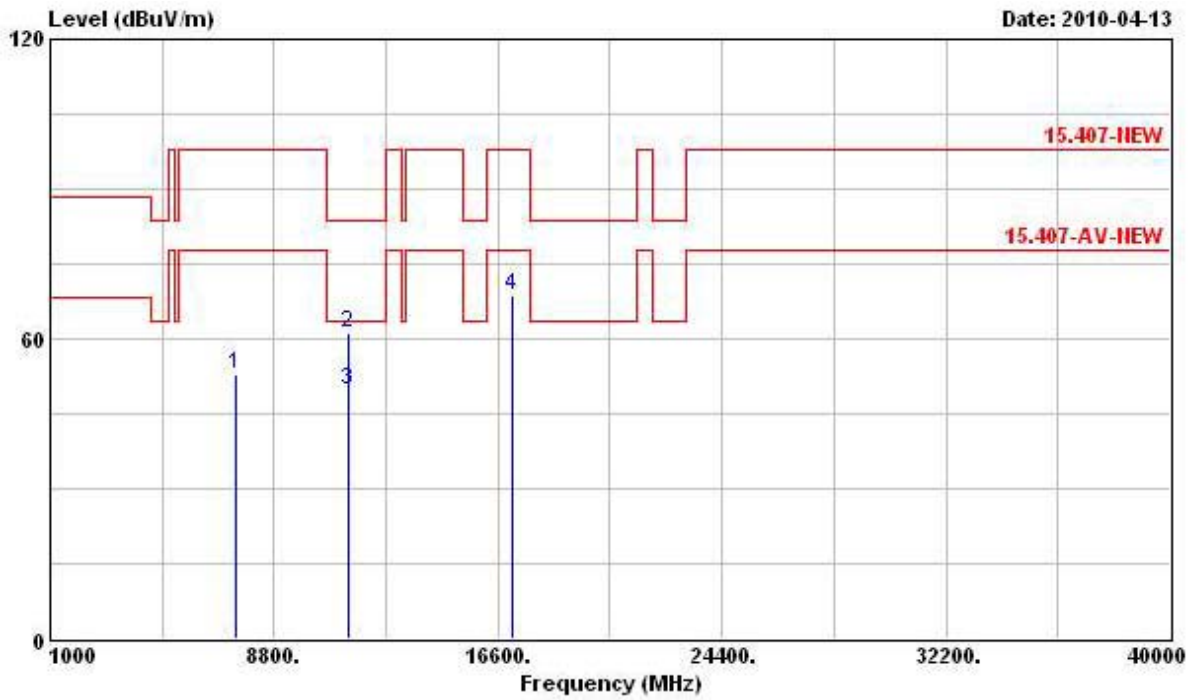


TABLE 1: MEASUREMENT DATA

TABLE 2: LIMITS

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB	
1	7836.000	53.15	-44.69	97.84	43.64	38.10	5.75	34.34	PK
2	11400.000	59.32	-24.22	83.54	45.65	40.56	6.71	33.60	PK
3	@17100.000	65.23	-12.61	77.84	45.26	43.64	8.61	32.28	PK

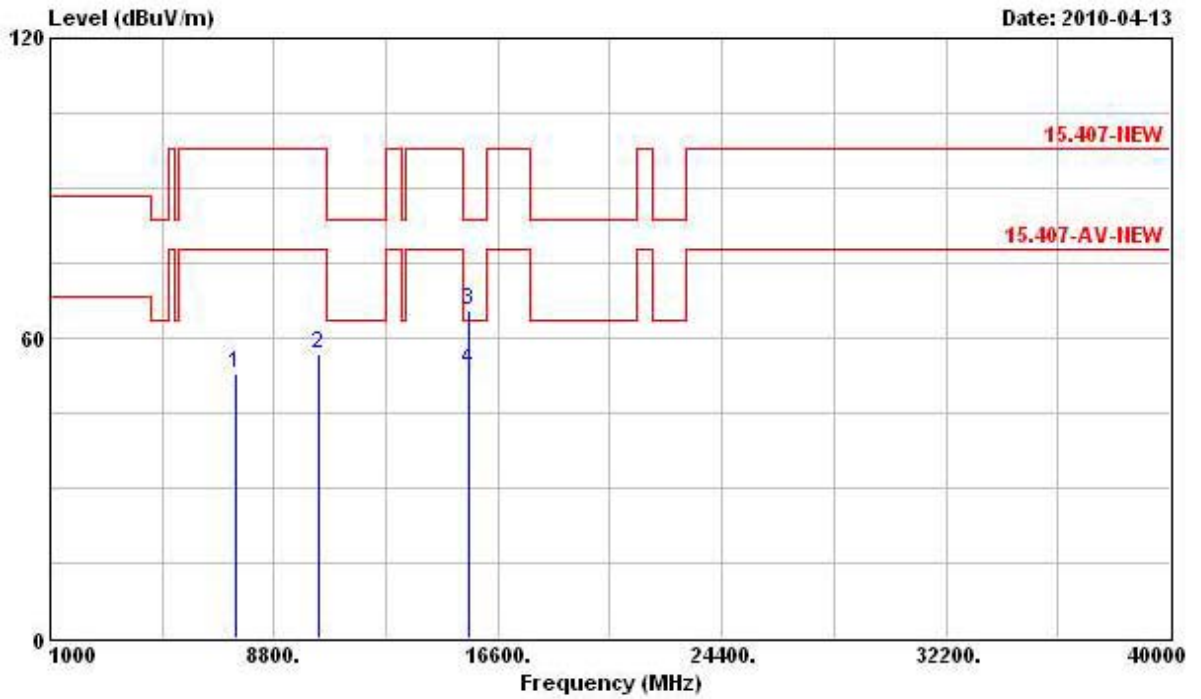
Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7438.000	52.94	-44.90	97.84	43.69	37.89	5.65	34.29	PK
2	11400.000	61.15	-22.39	83.54	47.48	40.56	6.71	33.60	Peak
3	11400.000	49.60	-13.94	63.54	35.93	40.56	6.71	33.60	Average
4	@17100.000	68.71	-9.13	77.84	48.74	43.64	8.61	32.28	PK

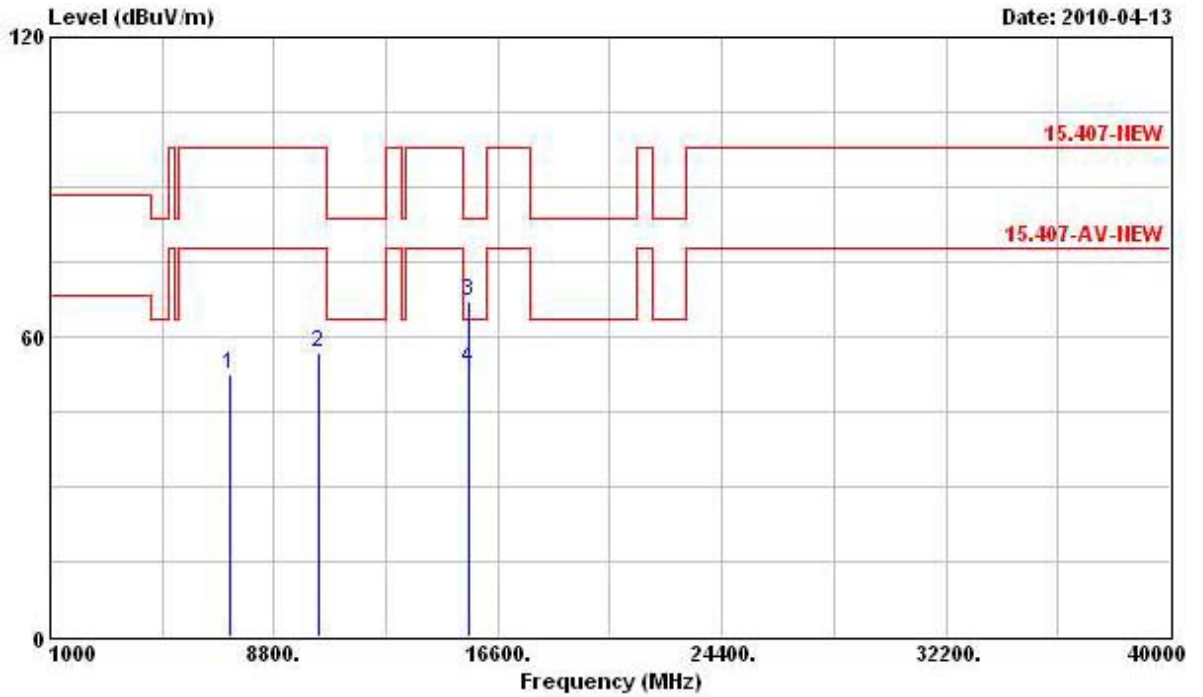
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 38 (40MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7468.000	52.79	-25.05	77.84	43.53	37.89	5.66	34.29	PK
2 @ 10380.000	56.78	-21.06	77.84	44.12	40.03	6.75	34.12	PK
3 @ 15570.000	65.52	-18.02	83.54	47.13	42.81	8.45	32.87	Peak
4 @ 15570.000	53.52	-10.02	63.54	35.13	42.81	8.45	32.87	Average

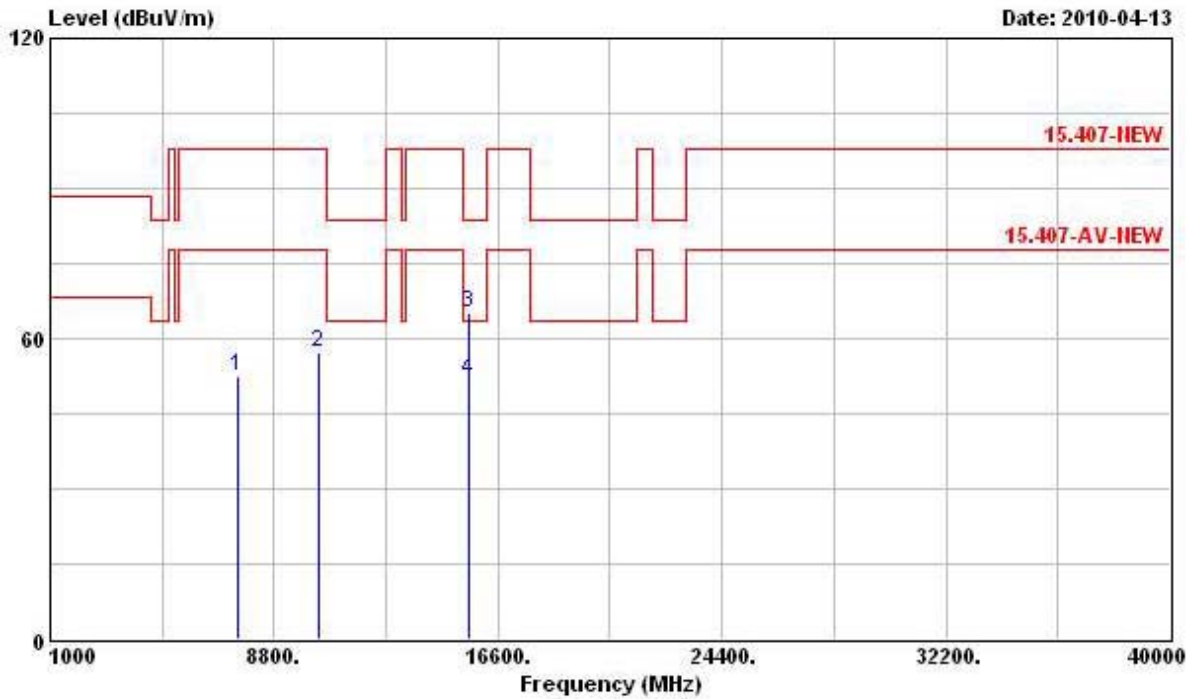
Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7234.000	52.44	-25.40	77.84	43.25	37.85	5.63	34.29	PK
2 @ 10380.000	56.88	-20.96	77.84	44.22	40.03	6.75	34.12	PK
3 @ 15570.000	67.11	-16.43	83.54	48.72	42.81	8.45	32.87	Peak
4 @ 15570.000	53.70	-9.84	63.54	35.31	42.81	8.45	32.87	Average

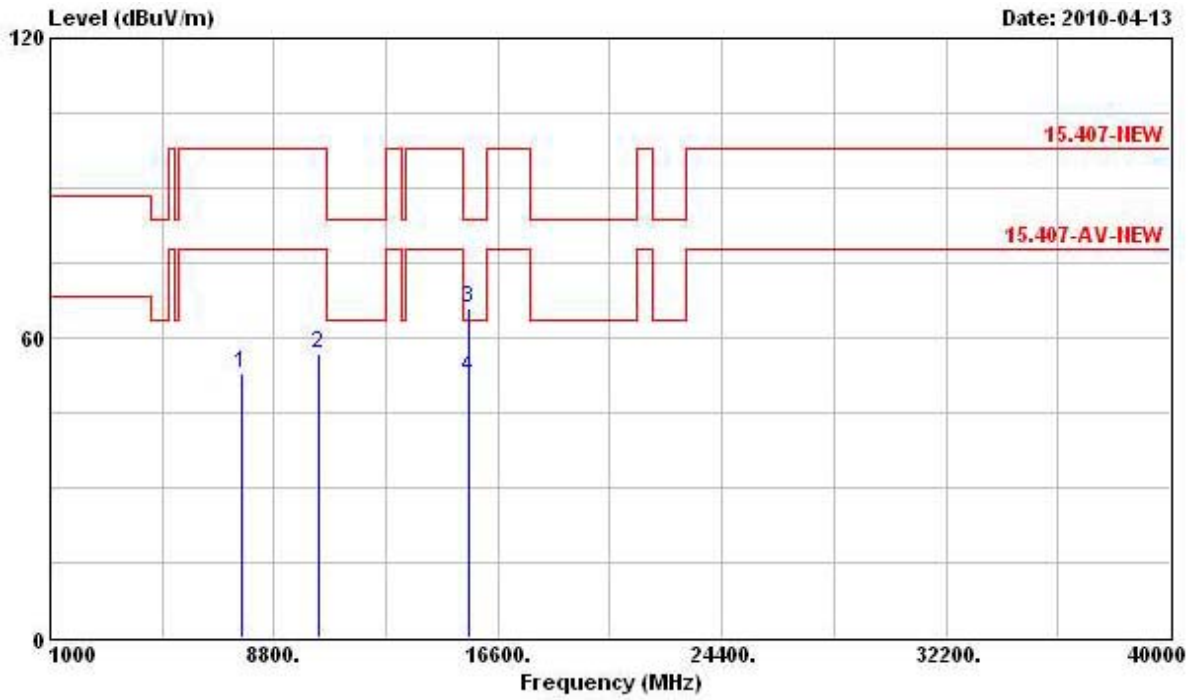
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 46 (40MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7548.000	52.55	-25.29	77.84	43.25	37.93	5.67	34.30	PK
2 @ 10380.000	57.41	-20.43	77.84	44.75	40.03	6.75	34.12	PK
3 @ 15570.000	65.15	-18.39	83.54	46.76	42.81	8.45	32.87	Peak
4 @ 15570.000	51.55	-11.99	63.54	33.16	42.81	8.45	32.87	Average

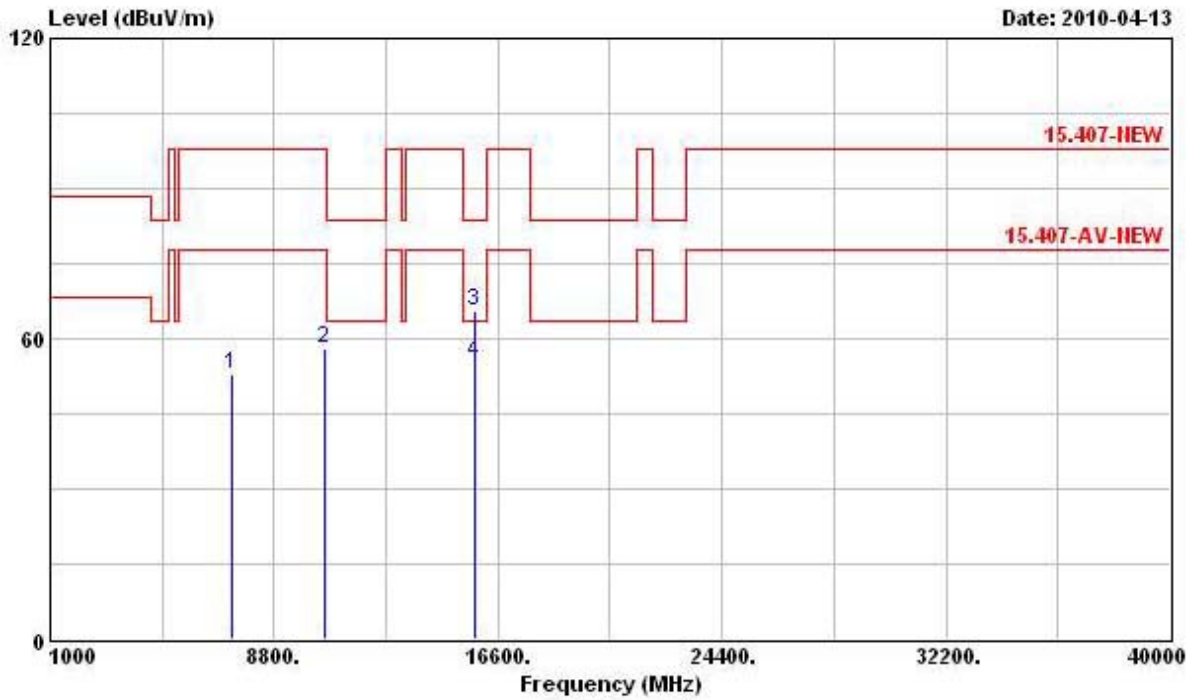
Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7658.000	53.04	-44.80	97.84	43.65	38.00	5.71	34.32	PK
2 @ 10380.000	56.67	-41.17	97.84	44.01	40.03	6.75	34.12	PK
3 @ 15570.000	65.97	-17.57	83.54	47.58	42.81	8.45	32.87	Peak
4 @ 15570.000	52.24	-11.30	63.54	33.85	42.81	8.45	32.87	Average

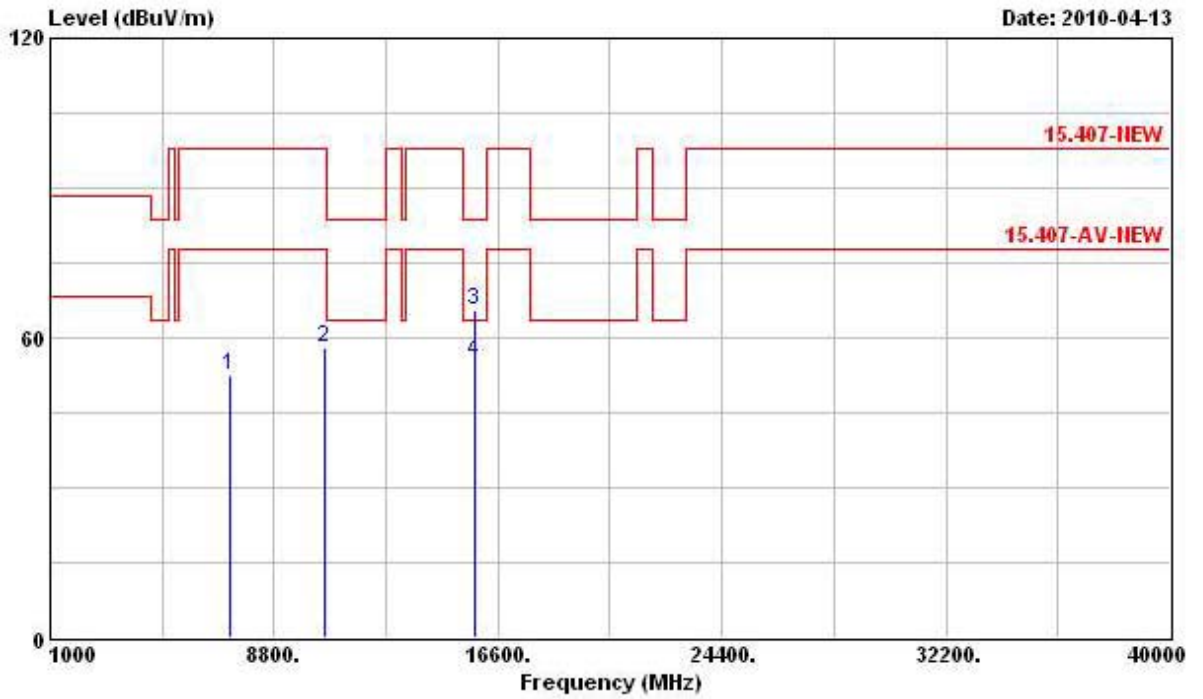
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 54 (40MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7315.000	52.76	-25.08	77.84	43.55	37.86	5.64	34.29	PK
2 @ 10540.000	58.01	-19.83	77.84	44.98	40.12	6.88	33.97	PK
3 @ 15810.000	65.45	-18.09	83.54	47.26	42.86	8.46	33.13	Peak
4 @ 15810.000	55.20	-28.34	83.54	37.01	42.86	8.46	33.13	Peak

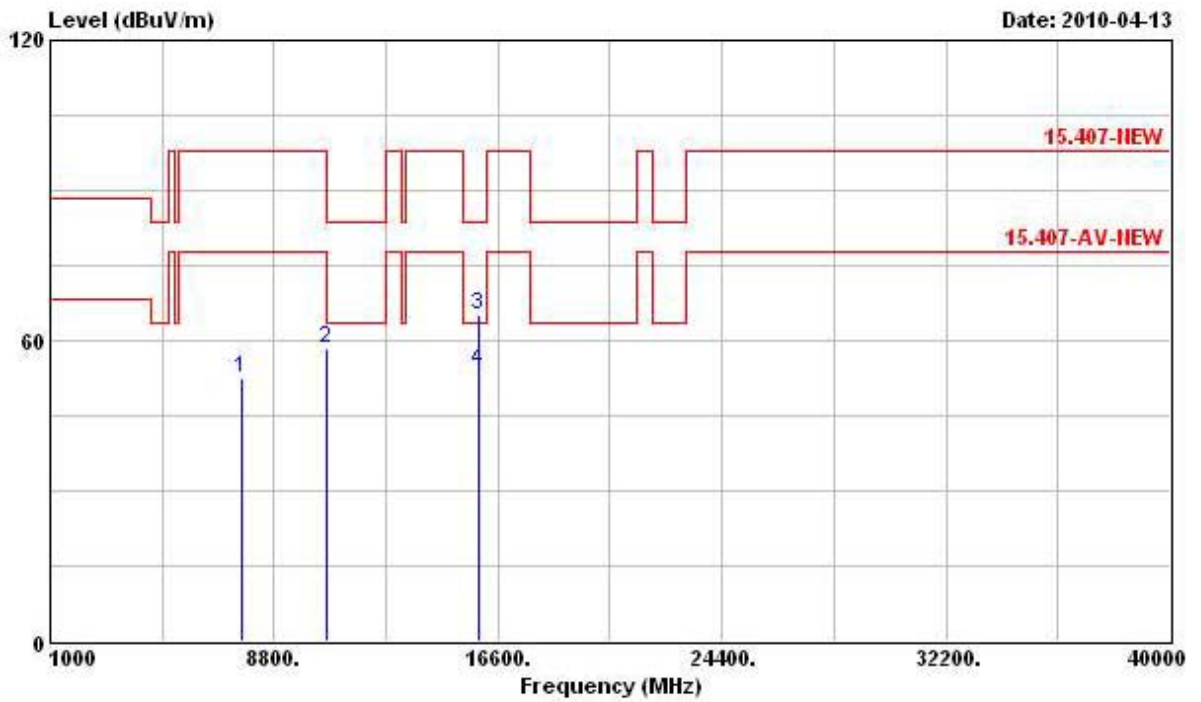
Vertical



	Over	Limit	ReadAntenna	Cable	Preamp				
Freq	Level	Limit	Line	Level	Factor	Loss	Factor		
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		
1	7265.000	52.49	-25.35	77.84	43.29	37.86	5.63	34.29	PK
2	10540.000	58.08	-19.76	77.84	45.05	40.12	6.88	33.97	PK
3	15810.000	65.53	-18.01	83.54	47.34	42.86	8.46	33.13	Peak
4	15810.000	55.31	-8.23	63.54	37.12	42.86	8.46	33.13	Average

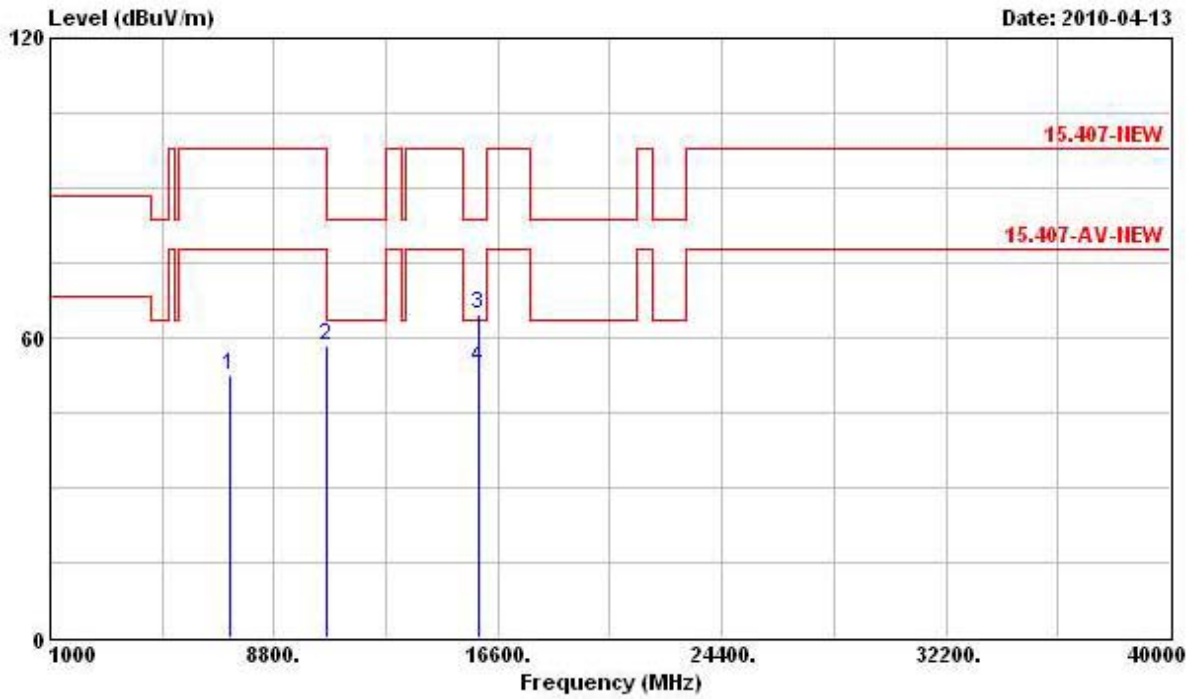
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 62 (40MHz)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBUV/m	dB	dBUV/m	dBuV	dB/m	dB	dB	
1	7655.000	52.64	-25.20	77.84	43.26	37.99	5.71	34.32	PK
2	@10620.000	58.34	-5.20	63.54	45.11	40.17	6.93	33.87	PK
3	15930.000	64.99	-18.55	83.54	46.87	42.89	8.47	33.24	Peak
4	15930.000	54.01	-9.53	63.54	35.89	42.89	8.47	33.24	Average

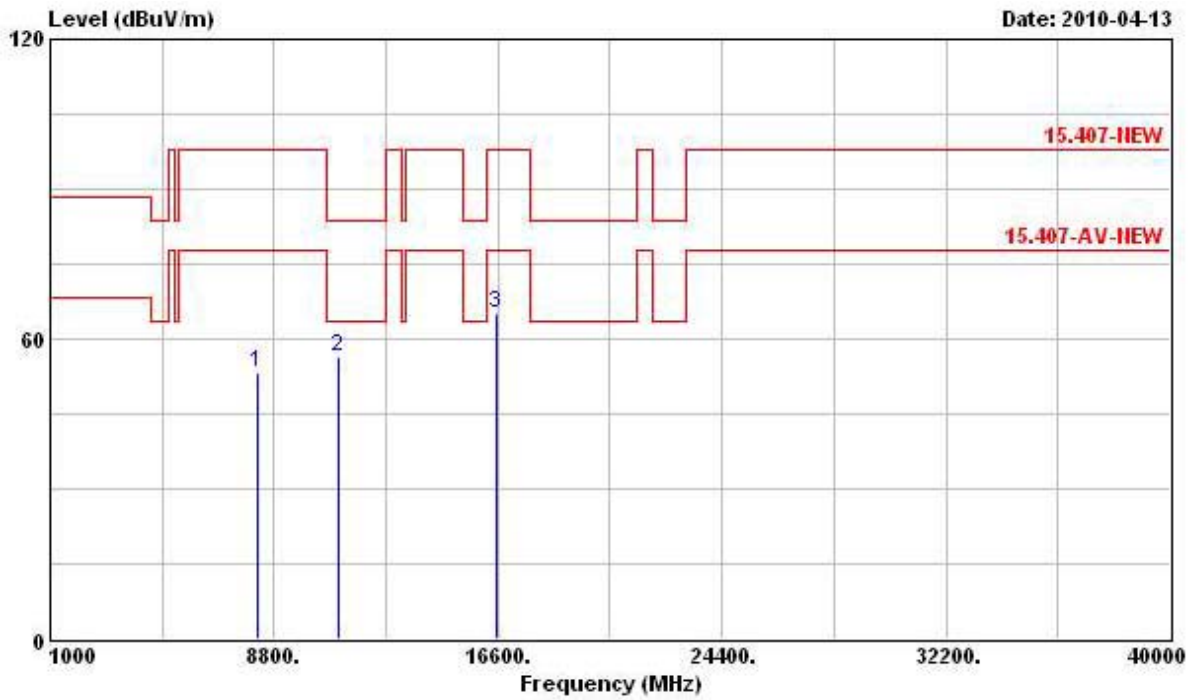
Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7254.000	52.52	-25.32	77.84	43.33	37.85	5.63	34.29	PK
2 @ 10620.000	58.40	-5.14	63.54	45.17	40.17	6.93	33.87	PK
3 @ 15930.000	64.83	-18.71	83.54	46.71	42.89	8.47	33.24	Peak
4 @ 15930.000	54.27	-9.27	63.54	36.15	42.89	8.47	33.24	Average

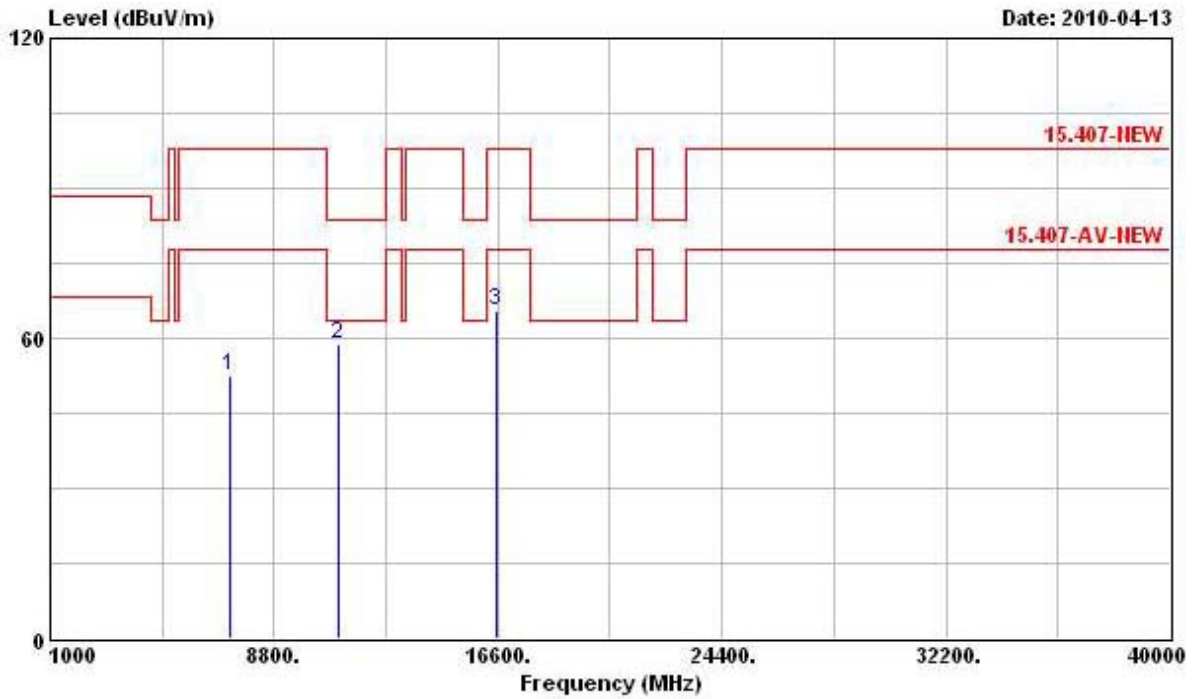
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 102 (40MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 8212.000	53.43	-24.41	77.84	43.55	38.32	5.86	34.30	PK
2 @ 11020.000	56.58	-6.96	63.54	42.44	40.41	7.13	33.40	PK
3 @ 16530.000	65.15	-12.69	77.84	46.13	43.51	8.27	32.76	PK

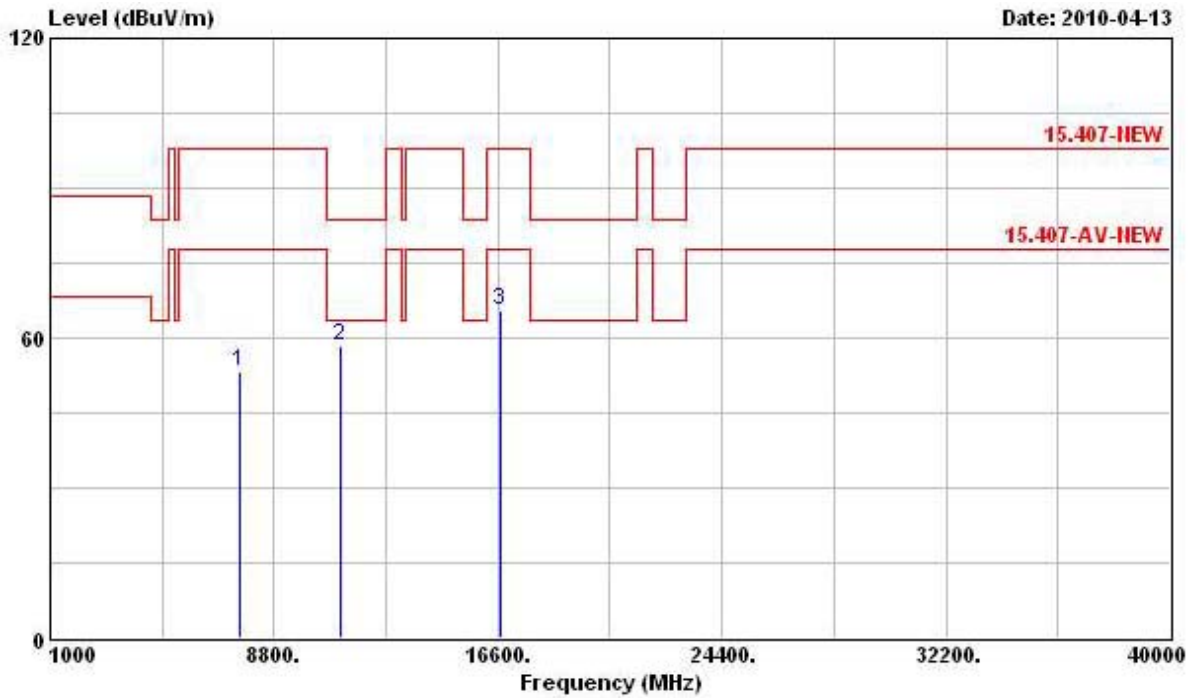
Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7256.000	52.44	-25.40	77.84	43.25	37.85	5.63	34.29	PK
2 @ 11020.000	58.77	-4.77	63.54	44.63	40.41	7.13	33.40	PK
3 @ 16530.000	65.72	-12.12	77.84	46.70	43.51	8.27	32.76	PK

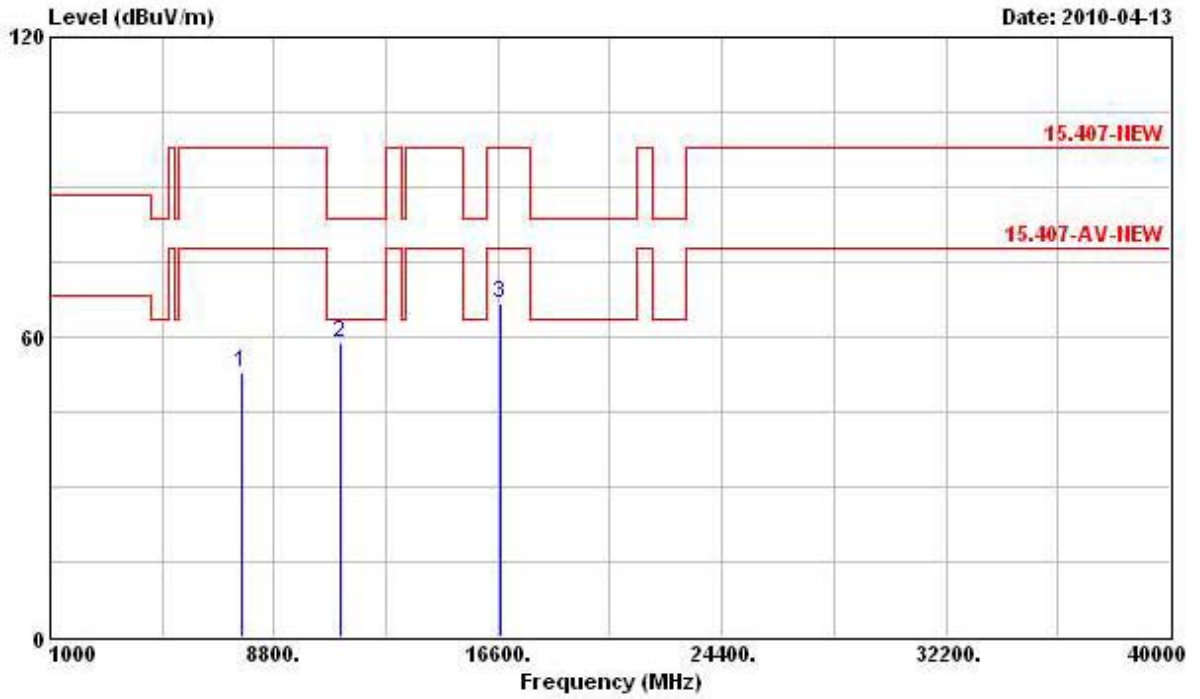
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 110 (40MHz)

Horizontal



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7628.000	53.27	-24.57	77.84	43.91	37.98	5.69	34.31	PK
2 @ 11100.000	58.29	-5.25	63.54	44.24	40.44	7.05	33.44	PK
3 @ 16650.000	65.41	-12.43	77.84	46.12	43.56	8.37	32.64	PK

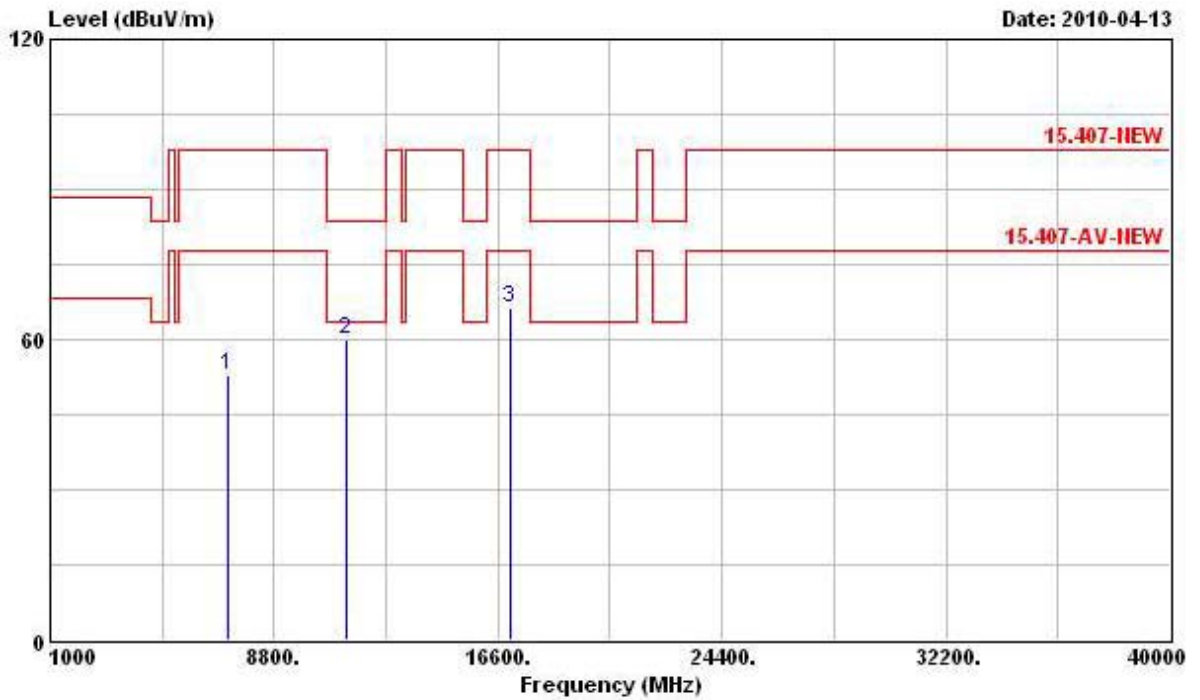
Vertical



Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 7658.000	52.94	-24.90	77.84	43.55	38.00	5.71	34.32	PK
2 @ 11100.000	58.65	-4.89	63.54	44.60	40.44	7.05	33.44	PK
3 @ 16650.000	66.58	-11.26	77.84	47.29	43.56	8.37	32.64	PK

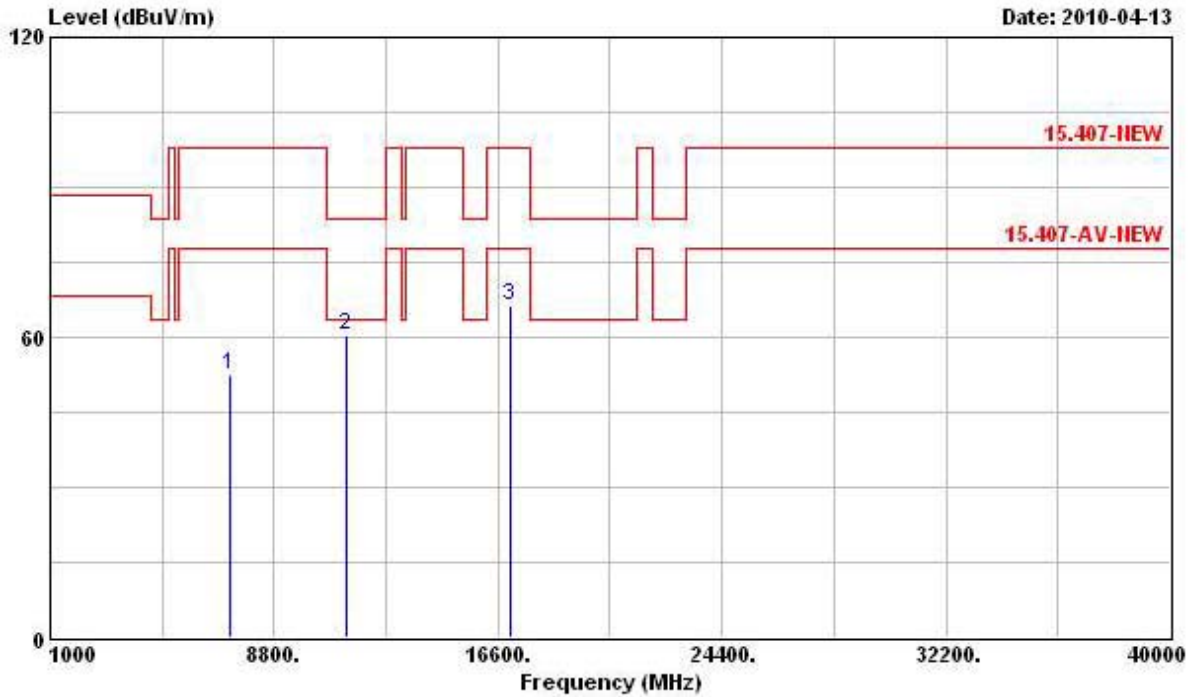
Final Test Date	Apr. 13, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 134 (40MHz)

Horizontal



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	7215.000	52.73	-30.81	83.54	43.56	37.84	5.62	34.29	PK
2	@11340.000	59.88	-3.66	63.54	46.11	40.53	6.80	33.56	PK
3	17010.000	66.15	-11.69	77.84	46.12	43.69	8.65	32.31	PK

Vertical



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	7265.000	52.45	-45.39	97.84	43.25	37.86	5.63	34.29 PK
2	11340.000	60.23	-23.31	83.54	46.46	40.53	6.80	33.56 PK
3	17010.000	66.39	-11.45	77.84	46.36	43.69	8.65	32.31 PK

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 form 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 5.15-5.35 GHz band: all emissions outside of the 5.15-5.35 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). For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBuV/m at 3m); for frequencies 10 MHz or greater above or below the band edge, emissions 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	Apr. 08, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11a Ch. 36, 40, 48

Channel 36

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5149.860	73.31	-10.23	83.54	32.32	36.21	4.78	0.00	Peak
2 @	5181.720	118.45			77.39	36.26	4.80	0.00	Peak
1 @	5149.860	59.55	-3.99	63.54	18.56	36.21	4.78	0.00	Average
2 @	5178.900	108.08			67.02	36.26	4.80	0.00	Average

The item 2 is Fundamental Emissions.

Channel 40

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5147.280	72.87	-10.67	83.54	31.88	36.21	4.78	0.00	Peak
2 @	5202.000	120.29			79.20	36.28	4.81	0.00	Peak
3 @	5376.080	72.90	-10.64	83.54	31.52	36.51	4.87	0.00	Peak
1 @	5146.960	61.54	-2.00	63.54	20.55	36.21	4.78	0.00	Average
2 @	5202.320	110.01			68.92	36.28	4.81	0.00	Average
3 @	5373.840	59.17	-4.37	63.54	17.79	36.51	4.87	0.00	Average

The item 2 is Fundamental Emissions.

Channel 48

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5120.080	71.46	-12.08	83.54	30.52	36.16	4.78	0.00	Peak
2 @	5241.680	119.98			78.81	36.35	4.82	0.00	Peak
3 @	5389.200	72.10	-11.44	83.54	30.68	36.54	4.88	0.00	Peak
1 @	5148.560	58.58	-4.96	63.54	17.59	36.21	4.78	0.00	Average
2 @	5242.960	109.67			68.50	36.35	4.82	0.00	Average
3 @	5397.840	59.23	-4.31	63.54	17.79	36.56	4.88	0.00	Average

The item 2 is Fundamental Emissions.

Final Test Date	Apr. 08, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11a Ch. 52, 56, 64

Channel 52

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5124.240	71.67	-11.87	83.54	30.70	36.19	4.78	0.00	Peak
2 @	5261.200	119.86			78.67	36.37	4.82	0.00	Peak
3 @	5389.200	73.21	-10.33	83.54	31.79	36.54	4.88	0.00	Peak
1 @	5138.000	58.62	-4.92	63.54	17.65	36.19	4.78	0.00	Average
2 @	5262.480	109.58			68.39	36.37	4.82	0.00	Average
3 @	5404.240	59.09	-4.45	63.54	17.65	36.56	4.88	0.00	Average

The item 2 is Fundamental Emissions.

Channel 56

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5124.240	71.92	-11.62	83.54	30.95	36.19	4.78	0.00	Peak
2 @	5277.520	119.86			78.62	36.40	4.84	0.00	Peak
3 @	5381.520	72.73	-10.81	83.54	31.32	36.54	4.87	0.00	Peak
1 @	5144.720	58.69	-4.85	63.54	17.70	36.21	4.78	0.00	Average
2 @	5276.560	109.39			68.15	36.40	4.84	0.00	Average
3 @	5406.800	59.18	-4.36	63.54	17.74	36.56	4.88	0.00	Average

The item 2 is Fundamental Emissions

Channel 64

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5317.210	119.37			78.08	36.44	4.85	0.00	Peak
2 @	5352.140	75.15	-8.39	83.54	33.79	36.49	4.87	0.00	Peak
1 @	5318.820	109.07			67.78	36.44	4.85	0.00	Average
2 @	5372.580	61.84	-1.70	63.54	20.46	36.51	4.87	0.00	Average

The item 1 is Fundamental Emissions.

Final Test Date	Apr. 08, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11a Ch. 100, 116, 140

Channel 100

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5447.000	75.20	-8.34	83.54	33.67	36.63	4.90	0.00	Peak
2 @	5497.100	120.48			78.87	36.70	4.91	0.00	Peak
1 @	5447.400	62.52	-1.02	63.54	20.99	36.63	4.90	0.00	Average
2 @	5498.700	110.21			68.60	36.70	4.91	0.00	Average

The item 2 is Fundamental Emissions.

Channel 116

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5418.740	71.43	-12.11	83.54	29.97	36.58	4.88	0.00	Peak
2 @	5581.380	118.90			77.17	36.78	4.95	0.00	Peak
3 @	5747.060	72.89	-24.95	97.84	30.83	36.99	5.07	0.00	Peak
1 @	5450.660	59.36	-4.18	63.54	17.83	36.63	4.90	0.00	Average
2 @	5582.520	108.70			66.92	36.80	4.98	0.00	Average
3 @	5781.640	60.20	-17.64	77.84	18.08	37.03	5.09	0.00	Average

The item 2 is Fundamental Emissions.

Channel 140

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5697.360	117.84			75.89	36.93	5.02	0.00	Peak
2 @	5752.560	75.09	-22.75	97.84	33.01	37.01	5.07	0.00	Peak
1 @	5698.800	107.33			65.38	36.93	5.02	0.00	Average
2 @	5752.200	62.52	-15.32	77.84	20.44	37.01	5.07	0.00	Average

The item 1 is Fundamental Emissions.

Final Test Date	Apr. 09, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 36, 40, 48 (20MHz)

Channel 36

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5146.980	75.19	-8.35	83.54	34.20	36.21	4.78	0.00	Peak
2 @	5176.740	118.38			77.32	36.26	4.80	0.00	Peak
1 @	5150.000	58.96	-4.58	63.54	17.97	36.21	4.78	0.00	Average
2 @	5182.980	107.68			66.62	36.26	4.80	0.00	Average

The item 2 is Fundamental Emissions.

Channel 40

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5147.720	72.55	-10.99	83.54	31.56	36.21	4.78	0.00	Peak
2 @	5202.840	118.32			77.23	36.28	4.81	0.00	Peak
3 @	5360.660	72.08	-11.46	83.54	30.70	36.51	4.87	0.00	Peak
1 @	5147.720	60.59	-2.95	63.54	19.60	36.21	4.78	0.00	Average
2 @	5202.580	107.60			66.51	36.28	4.81	0.00	Average
3 @	5373.400	58.23	-5.31	63.54	16.85	36.51	4.87	0.00	Average

The item 2 is Fundamental Emissions.

Channel 48

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5147.180	70.92	-12.62	83.54	29.93	36.21	4.78	0.00	Peak
2 @	5237.660	118.37			77.22	36.33	4.82	0.00	Peak
3 @	5363.240	71.77	-11.77	83.54	30.39	36.51	4.87	0.00	Peak
1 @	5129.500	57.75	-5.79	63.54	16.78	36.19	4.78	0.00	Average
2 @	5242.860	107.52			66.35	36.35	4.82	0.00	Average
3 @	5359.080	58.27	-5.27	63.54	16.91	36.49	4.87	0.00	Average

The item 2 is Fundamental Emissions.

Final Test Date	Apr. 09, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 52, 56, 64 (20MHz)

Channel 52

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5132.620	71.27	-12.27	83.54	30.30	36.19	4.78	0.00	Peak
2 @	5263.400	119.09			77.90	36.37	4.82	0.00	Peak
3 @	5353.880	71.49	-12.05	83.54	30.13	36.49	4.87	0.00	Peak
1 @	5147.180	57.92	-5.62	63.54	16.93	36.21	4.78	0.00	Average
2 @	5262.620	108.25			67.06	36.37	4.82	0.00	Average
3 @	5371.820	58.23	-5.31	63.54	16.85	36.51	4.87	0.00	Average

The item 2 is Fundamental Emissions.

Channel 56

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5133.660	71.17	-12.37	83.54	30.20	36.19	4.78	0.00	Peak
2 @	5283.160	119.39			78.15	36.40	4.84	0.00	Peak
3 @	5359.080	70.90	-12.64	83.54	29.54	36.49	4.87	0.00	Peak
1 @	5121.960	57.79	-5.75	63.54	16.85	36.16	4.78	0.00	Average
2 @	5282.120	109.14			67.90	36.40	4.84	0.00	Average
3 @	5352.840	58.37	-5.17	63.54	17.01	36.49	4.87	0.00	Average

The item 2 is Fundamental Emissions.

Channel 64

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5316.920	118.96			77.67	36.44	4.85	0.00	Peak
2 @	5352.570	74.85	-8.69	83.54	33.49	36.49	4.87	0.00	Peak
1 @	5316.720	108.32			67.03	36.44	4.85	0.00	Average
2 @	5350.020	58.97	-4.57	63.54	17.61	36.49	4.87	0.00	Average

The item 1 is Fundamental Emissions.

Final Test Date	Apr. 10, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 100, 116, 140 (20MHz)

Channel 100

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5447.400	74.35	-9.19	83.54	32.82	36.63	4.90	0.00	Peak
2 @	5503.400	118.95			77.34	36.70	4.91	0.00	Peak
1 @	5447.960	61.60	-1.94	63.54	20.07	36.63	4.90	0.00	Average
2 @	5503.190	108.84			67.23	36.70	4.91	0.00	Average

The item 2 is Fundamental Emissions.

Channel 116

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5436.600	72.17	-11.37	83.54	30.66	36.61	4.90	0.00	Peak
2 @	5583.000	117.98			76.20	36.80	4.98	0.00	Peak
1 @	5452.600	58.54	-5.00	63.54	17.01	36.63	4.90	0.00	Average
2 @	5583.000	107.54			65.76	36.80	4.98	0.00	Average

The item 2 is Fundamental Emissions.

Channel 140

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 X	5698.050	120.34			78.39	36.93	5.02	0.00	Peak
2	5725.090	78.60	-19.24	97.84	36.59	36.97	5.04	0.00	Peak
1 @	5697.010	109.27			67.32	36.93	5.02	0.00	Average
2	5725.020	61.89	-1.65	63.54	19.88	36.97	5.04	0.00	Average

The item 1 is Fundamental Emissions.

Final Test Date	Apr. 09, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 38, 46, 54 (40MHz)

Channel 38

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5149.170	81.25	-2.29	83.54	40.26	36.21	4.78	0.00	Peak
2 @	5192.290	113.14			72.06	36.28	4.80	0.00	Peak
1 @	5150.000	59.23	-4.31	63.54	18.24	36.21	4.78	0.00	Average
2 @	5195.700	102.29			61.20	36.28	4.81	0.00	Average

The item 2 is Fundamental Emissions.

Channel 46

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	5115.500	71.10	-12.44	83.54	30.16	36.16	4.78	0.00	Peak
2 X	5250.200	111.12			69.95	36.35	4.82	0.00	Peak
3	5377.400	71.51	-12.03	83.54	30.13	36.51	4.87	0.00	Peak
1	5135.900	58.41	-5.13	63.54	17.44	36.19	4.78	0.00	Average
2 @	5249.000	100.38			59.21	36.35	4.82	0.00	Average
3	5396.600	58.13	-5.41	63.54	16.69	36.56	4.88	0.00	Average

The item 2 is Fundamental Emissions.

Channel 54

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5113.400	71.55	-11.99	83.54	30.62	36.16	4.77	0.00	Peak
2 @	5263.400	111.03			69.84	36.37	4.82	0.00	Peak
3 @	5365.400	71.78	-11.76	83.54	30.40	36.51	4.87	0.00	Peak
1 @	5111.000	57.79	-5.75	63.54	16.86	36.16	4.77	0.00	Average
2 @	5264.300	101.20			60.01	36.37	4.82	0.00	Average
3 @	5373.800	58.45	-5.09	63.54	17.07	36.51	4.87	0.00	Average

The item 2 is Fundamental Emissions.

Final Test Date	Apr. 09, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 62, 102, 110 (40MHz)

Channel 62

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5305.700	112.19			70.93	36.42	4.84	0.00	Peak
2 @	5352.600	73.93	-9.61	83.54	32.57	36.49	4.87	0.00	Peak
1 @	5304.500	100.70			59.44	36.42	4.84	0.00	Average
2 @	5350.100	58.25	-5.29	63.54	16.89	36.49	4.87	0.00	Average

The item 1 is Fundamental Emissions.

Channel 102

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5449.800	76.43	-7.11	83.54	34.90	36.63	4.90	0.00	Peak
2 @	5505.400	112.15			70.52	36.70	4.93	0.00	Peak
1 @	5459.500	58.29	-5.25	63.54	16.76	36.63	4.90	0.00	Average
2 @	5500.600	100.59			58.98	36.70	4.91	0.00	Average

The item 2 is Fundamental Emissions.

Channel 110

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5459.650	73.14			31.61	36.63	4.90	0.00	Peak
1	5446.300	59.02			17.49	36.63	4.90	0.00	Average

The item 1 is Fundamental Emissions.

Final Test Date	Apr. 09, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ch. 134 (40MHz)

Channel 134

Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 5671.400	101.32			59.39	36.91	5.02	0.00	Average
1 @ 5665.400	112.39			70.48	36.89	5.02	0.00	Peak

The item 1 is Fundamental Emissions.

For Two Chain:

Final Test Date	Apr. 09, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ant. A+ Ant. B Ch. 36, 40, 48 (20MHz)

Channel 36

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5147.640	75.48	-8.06	83.54	34.49	36.21	4.78	0.00	Peak
2 @	5183.400	117.92			76.86	36.26	4.80	0.00	Peak
1 @	5149.980	59.38	-4.16	63.54	18.39	36.21	4.78	0.00	Average
2 @	5181.780	107.20			66.14	36.26	4.80	0.00	Average

The item 2 is Fundamental Emissions.

Channel 40

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5149.840	77.45	-6.09	83.54	36.46	36.21	4.78	0.00	Peak
2 @	5203.280	120.02			78.93	36.28	4.81	0.00	Peak
3 @	5390.480	72.55	-10.99	83.54	31.13	36.54	4.88	0.00	Peak
1 @	5147.280	61.88	-1.66	63.54	20.89	36.21	4.78	0.00	Average
2 @	5202.320	108.89			67.80	36.28	4.81	0.00	Average
3 @	5394.000	59.16	-4.38	63.54	17.74	36.54	4.88	0.00	Average

The item 2 is Fundamental Emissions.

Channel 48

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5146.960	77.83	-5.71	83.54	36.84	36.21	4.78	0.00	Peak
2 @	5242.960	122.01			80.84	36.35	4.82	0.00	Peak
3 @	5406.800	72.67	-10.87	83.54	31.23	36.56	4.88	0.00	Peak
1 @	5147.280	58.97	-4.57	63.54	17.98	36.21	4.78	0.00	Average
2 @	5242.960	111.45			70.28	36.35	4.82	0.00	Average
3 @	5399.440	59.13	-4.41	63.54	17.69	36.56	4.88	0.00	Average

The item 2 is Fundamental Emissions.

Final Test Date	Apr. 08, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ant. A+ Ant. B Ch. 52, 56, 64 (20MHz)

Channel 52

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5093.520	74.37	-9.17	83.54	33.46	36.14	4.77	0.00	Peak
2 @	5254.480	120.86			79.69	36.35	4.82	0.00	Peak
3 @	5357.200	72.11	-11.43	83.54	30.75	36.49	4.87	0.00	Peak
1 @	5148.240	58.72	-4.82	63.54	17.73	36.21	4.78	0.00	Average
2 @	5261.200	110.23			69.04	36.37	4.82	0.00	Average
3 @	5396.880	59.30	-4.24	63.54	17.86	36.56	4.88	0.00	Average

The item 2 is Fundamental Emissions.

Channel 56

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5106.320	72.10	-11.44	83.54	31.17	36.16	4.77	0.00	Peak
2 @	5276.240	123.54			82.30	36.40	4.84	0.00	Peak
3 @	5369.680	72.42	-11.12	83.54	31.04	36.51	4.87	0.00	Peak
1 @	5143.440	58.72	-4.82	63.54	17.73	36.21	4.78	0.00	Average
2 @	5276.560	113.12			71.88	36.40	4.84	0.00	Average
3 @	5402.960	59.30	-4.24	63.54	17.86	36.56	4.88	0.00	Average

The item 2 is Fundamental Emissions.

Channel 64

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5316.860	121.33			80.04	36.44	4.85	0.00	Peak
2 @	5350.530	82.52	-1.02	83.54	41.16	36.49	4.87	0.00	Peak
1 @	5316.650	110.85			69.56	36.44	4.85	0.00	Average
2 @	5372.370	61.99	-1.55	63.54	20.61	36.51	4.87	0.00	Average

The item 1 is Fundamental Emissions.

Final Test Date	Apr. 08, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ant. A+ Ant. B Ch. 100, 116, 140 (20MHz)

Channel 100

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5459.500	81.63	-1.91	83.54	40.10	36.63	4.90	0.00	Peak
2 @	5503.400	120.90			79.29	36.70	4.91	0.00	Peak
1 @	5447.800	62.12	-1.42	63.54	20.59	36.63	4.90	0.00	Average
2 @	5505.400	110.73			69.10	36.70	4.93	0.00	Average

The item 2 is Fundamental Emissions.

Channel 116

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5419.880	75.09	-8.45	83.54	33.63	36.58	4.88	0.00	Peak
2 @	5574.920	120.54			78.81	36.78	4.95	0.00	Peak
3 @	5782.020	73.70	-24.14	97.84	31.58	37.03	5.09	0.00	Peak
1 @	5455.220	59.38	-4.16	63.54	17.85	36.63	4.90	0.00	Average
2 @	5585.560	110.23			68.45	36.80	4.98	0.00	Average
3 @	5772.520	60.13	-17.71	77.84	18.03	37.03	5.07	0.00	Average

The item 2 is Fundamental Emissions.

Channel 140

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5698.800	120.55			78.60	36.93	5.02	0.00	Peak
2 @	5725.000	80.60	-17.24	97.84	38.59	36.97	5.04	0.00	Peak
1 @	5696.520	110.36			68.41	36.93	5.02	0.00	Average
2 @	5751.720	64.52	-13.32	77.84	22.44	37.01	5.07	0.00	Average

The item 1 is Fundamental Emissions.

Final Test Date	Apr. 08, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ant. A+ Ant. B Ch. 38, 46, 54 (40MHz)

Channel 38

Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 5149.610	78.47	-5.07	83.54	37.48	36.21	4.78	0.00	Peak
2 @ 5189.650	118.52			77.46	36.26	4.80	0.00	Peak
1 @ 5149.940	62.46	-1.08	63.54	21.47	36.21	4.78	0.00	Average
2 @ 5199.770	106.39			65.30	36.28	4.81	0.00	Average

The item 2 is Fundamental Emissions.

Channel 46

Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 5103.440	72.20	-11.34	83.54	31.29	36.14	4.77	0.00	Peak
2 @ 5217.680	120.17			79.06	36.30	4.81	0.00	Peak
3 @ 5396.880	72.38	-11.16	83.54	30.94	36.56	4.88	0.00	Peak
1 @ 5126.800	60.33	-3.21	63.54	19.36	36.19	4.78	0.00	Average
2 @ 5217.360	106.28			65.17	36.30	4.81	0.00	Average
3 @ 5366.160	59.16	-4.38	63.54	17.78	36.51	4.87	0.00	Average

The item 2 is Fundamental Emissions.

Channel 54

Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 5139.280	71.90	-11.64	83.54	30.93	36.19	4.78	0.00	Peak
2 @ 5263.440	118.91			77.72	36.37	4.82	0.00	Peak
3 @ 5386.320	72.25	-11.29	83.54	30.84	36.54	4.87	0.00	Peak
1 @ 5133.200	58.85	-4.69	63.54	17.88	36.19	4.78	0.00	Average
2 @ 5263.440	107.57			66.38	36.37	4.82	0.00	Average
3 @ 5373.520	59.72	-3.82	63.54	18.34	36.51	4.87	0.00	Average

The item 2 is Fundamental Emissions.

Final Test Date	Apr. 08, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ant. A+ Ant. B Ch. 62, 102, 110 (40MHz)

Channel 62

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5308.240	117.40			76.14	36.42	4.84	0.00	Peak
2 @	5350.000	74.87	-8.67	83.54	33.51	36.49	4.87	0.00	Peak
1 @	5309.520	105.87			64.58	36.44	4.85	0.00	Average
2 @	5350.640	59.73	-3.81	63.54	18.37	36.49	4.87	0.00	Average

The item 1 is Fundamental Emissions.

Channel 102

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5431.000	73.04	-10.50	83.54	31.53	36.61	4.90	0.00	Peak
2 @	5509.660	117.66			76.03	36.70	4.93	0.00	Peak
1 @	5407.420	60.24	-3.30	63.54	18.80	36.56	4.88	0.00	Average
2 @	5509.660	104.99			63.36	36.70	4.93	0.00	Average

The item 2 is Fundamental Emissions

Channel 110

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @	5559.900	116.86			75.15	36.76	4.95	0.00	Peak
1 @	5559.800	104.67			62.96	36.76	4.95	0.00	Average

The item 1 is Fundamental Emissions.

Final Test Date	Apr. 08, 2010	Test Site No.	03CH02-HY
Temperature	20	Humidity	50%
Test Engineer	Billy	Configuration	802.11n Ant. A+ Ant. B Ch. 134 (40MHz)

Channel 134

Freq	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1 @ 5669.400	118.13			76.20	36.91	5.02	0.00	Peak
1 @ 5669.760	105.71			63.78	36.91	5.02	0.00	Average

The item 1 is Fundamental Emissions.

Note:

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 form 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].

3.8 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

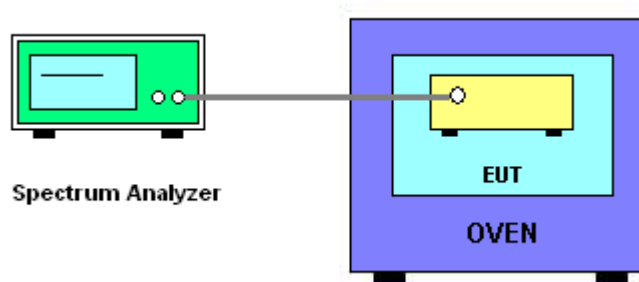
Please refer to section 4 of equipments list in this report. The following table is the setting of the spectrum analyzer.

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 $(fc-f)/fc \times 10^6$ 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 -30°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

For Single Chain

Voltage (V)	Measurement Frequency (MHz)		
	IEEE 802.11 a/n 5500 MHz (20MHz)	IEEE 802.11n 5310 MHz (40MHz)	IEEE 802.11n 5510 MHz (40MHz)
126.5	5499.999400	5309.999400	5509.999700
110	5499.998700	5309.998700	5509.998100
93.5	5499.995800	5309.995800	5509.999400
Max. Deviation (MHz)	0.004200	0.004200	0.001900
Max. Deviation (ppm)	0.76	0.79	0.34

Temperature vs. Frequency Stability

Temperature ()	Measurement Frequency (MHz)		
	IEEE 802.11 a/n 5500 MHz (20MHz)	IEEE 802.11n 5310 MHz (40MHz)	IEEE 802.11n 5510 MHz (40MHz)
-30	5499.968400	5309.968400	5509.986200
-20	5499.971800	5309.971800	5509.985200
-10	5499.978400	5309.978400	5509.996200
0	5499.985700	5309.985700	5509.997400
10	5499.991400	5309.991400	5509.998900
20	5499.998700	5309.998700	5509.998100
30	5500.003100	5310.003100	5510.000400
40	5500.012400	5310.012400	5510.021800
50	5500.019700	5310.019700	5510.033400
Max. Deviation (MHz)	0.031600	0.031600	0.033400
Max. Deviation (ppm)	5.75	5.95	6.0617

For Two Chain

Voltage (V)	Measurement Frequency (MHz)	
	IEEE 802.11n 5500 MHz (20MHz)	IEEE 802.11n 5510 MHz (40MHz)
126.5	5499.999400	5509.999700
110	5499.998700	5509.998100
93.5	5499.995800	5509.999400
Max. Deviation (MHz)	0.004200	0.001900
Max. Deviation (ppm)	0.76	0.34

Temperature vs. Frequency Stability

Temperature ()	Measurement Frequency (MHz)	
	IEEE 802.11n 5500 MHz (20MHz)	IEEE 802.11n 5510 MHz (40MHz)
-30	5499.968400	5509.986200
-20	5499.971800	5509.985200
-10	5499.978400	5509.996200
0	5499.985700	5509.997400
10	5499.991400	5509.998900
20	5499.998700	5509.998100
30	5500.003100	5510.000400
40	5500.012400	5510.021800
50	5500.019700	5510.033400
Max. Deviation (MHz)	0.031600	0.033400
Max. Deviation (ppm)	5.75	6.0617

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 2.2 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	9kHz – 2.75GHz	Apr. 06, 2010	Conduction (CO04-HY)
LISN	MessTec	NNB-2/16Z	99079	9kHz – 30MHz	Mar. 23, 2010	Conduction (CO04-HY)
LISN (Support Unit)	EMCO	3810/2NM	9703-1839	9kHz – 30MHz	Apr. 29, 2009	Conduction (CO04-HY)
RF Cable-CON	UTIFLEX	3102-26886-4	CB049	9kHz – 30MHz	Apr. 20, 2010	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	FSU26.5	100015	20Hz ~ 26.5GHz	Oct. 29, 2009	Conducted (TH01-HY)
Power Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	Dec. 03, 2009	Conducted (TH01-HY)
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	Dec. 03, 2009	Conducted (TH01-HY)
Power Sensor	R&S	NRV-Z32	100057	30MHz ~ 6GHz	Jul. 31, 2009	Conducted (TH01-HY)
Temp. and Humidity Chamber	Giant Force	GTH-225-20-S	MAB0103-001	N/A	Aug. 06, 2009	Conducted (TH01-HY)
RF CABLE-1m	Jye Bao	RG142	CB034-1m	20MHz ~ 7GHz	Dec. 01, 2009	Conducted (TH01-HY)
RF CABLE-2m	Jye Bao	RG142	CB035-2m	20MHz ~ 1GHz	Dec. 01, 2009	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	Jul. 12, 2009*	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 - 40GHz	Feb. 02, 2010	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30 MHz - 1 GHz 3m	May 11, 2009	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100 kHz – 1.3 GHz	Jul. 07, 2009	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1GHz – 26.5 GHz	Jul. 16, 2009	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1GHz~18GHz	Oct. 22, 2009	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30MHz ~ 1GHz	Feb. 26, 2010	Radiation (03CH02-HY)
RF Cable-HIGH	SUHNER	SUCOFLEX106	03CH02-HY	1GHz~40GHz	Feb. 26, 2010	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30 MHz - 2 GHz	Nov. 30, 2009	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.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antenna	R&S	HFH2-Z2	860004/001	9 kHz - 30 MHz	Jul 28, 2008*	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is two 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 2 nd 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. : L1190-100107

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 Arrangement with Foreign Authorities



Jay-San Chen
President, Taiwan Accreditation Foundation
Date : January 07, 2010

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