Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17
Model	BR280n	Test By	John Chen
Test Mode	IEEE 802.11g TX (CH High)	TEMP& Humidity	19.8℃, 49%

Vertical

	TX / IEE	EE 802.11	g mode	e / CH High	Measu	rement	Distance	at 3m	Vertical polarity		
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark	
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)	
	1249.93	53.14	25.55	2.10	41.76	0.74	39.77	74.00	-34.23	Р	
	1249.93	43.26	25.55	2.10	41.76	0.74	29.89	54.00	-24.11	Α	
*	4923.97	48.77	33.47	3.76	42.48	0.73	44.25	74.00	-29.75	Р	
*	4923.97	42.68	33.47	3.76	42.48	0.73	38.16	54.00	-15.84	Α	
	N/A									Р	
	N/A									Α	

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17	
Model	BR280n	Test By	John Chen	
Test Mode	IEEE 802.11n HT20 TX (CH Low)	TEMP& Humidity	19.8℃, 49%	

Horizontal

	TX / IEEE	TX / IEEE 802.11n HT20 mode / CH Low					Measurement Distance at 3m Horizontal polarity					
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark		
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)		
*	4824.12	50.19	33.17	3.73	42.38	0.69	45.40	74.00	-28.60	Р		
*	4824.12	43.29	33.17	3.73	42.38	0.69	38.50	54.00	-15.50	Α		
	7234.92	49.87	38.60	4.67	41.84	1.43	52.74	74.00	-21.26	Р		
	7234.92	41.36	38.60	4.67	41.84	1.43	44.23	54.00	-9.77	Α		
	N/A									Р		
	N/A									Α		

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17
Model	BR280n	Test By	John Chen
Test Mode	IEEE 802.11n HT20 TX (CH Low)	TEMP& Humidity	19.8℃, 49%

Vertical

	TX / IEEE	TX / IEEE 802.11n HT20 mode / CH Low				Measurement Distance at 3m Vertical polarit				
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1249.83	47.02	25.55	2.10	41.76	0.74	33.65	74.00	-40.35	Р
	1249.83	37.45	25.55	2.10	41.76	0.74	24.08	54.00	-29.92	Α
*	4824.12	51.39	33.17	3.73	42.38	0.69	46.60	74.00	-27.40	Р
*	4824.12	45.27	33.17	3.73	42.38	0.69	40.48	54.00	-13.52	Α
	N/A									Р
	N/A									Α

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17	
Model	BR280n	Test By	John Chen	
Test Mode	IEEE 802.11n HT20 TX (CH Middle)	TEMP& Humidity	19.8℃, 49%	

Horizontal

	TX / IEEE 8	302.11n H	Γ20 mode	/ CH Middle	Measur	Measurement Distance at 3m Horizontal polarity					
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark	
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)	
*	4873.87	51.37	33.32	3.74	42.43	0.71	46.71	74.00	-27.29	Р	
*	4873.87	42.11	33.32	3.74	42.43	0.71	37.45	54.00	-16.55	Α	
*	7311.93	50.48	38.84	4.71	41.72	1.60	53.90	74.00	-20.10	Р	
*	7311.93	41.35	38.84	4.71	41.72	1.60	44.77	54.00	-9.23	Α	
	N/A									Р	
	N/A									Α	

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17
Model	BR280n	Test By	John Chen
Test Mode	IEEE 802.11n HT20 TX (CH Middle)	TEMP& Humidity	19.8℃, 49%

Vertical

	TX / IEEE 8	802.11n HT	20 mode /	CH Middle	Measu	easurement Distance at 3m Vertical polarity					
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark	
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)	
	1250.07	47.26	25.55	2.10	41.75	0.74	33.90	74.00	-40.10	Р	
	1250.07	41.38	25.55	2.10	41.75	0.74	28.02	54.00	-25.98	Α	
*	4874.13	50.39	33.32	3.74	42.43	0.71	45.74	74.00	-28.26	Р	
*	4874.13	43.17	33.32	3.74	42.43	0.71	38.52	54.00	-15.48	Α	
	N/A									Р	
	N/A									Α	

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17
Model	BR280n	Test By	John Chen
Test Mode	IEEE 802.11n HT20 TX (CH High)	TEMP& Humidity	19.8℃, 49%

Horizontal

	TX / IEEE	802.11n H	T20 mode	e / CH High	Measurement Distance at 3m Horizontal polarity					
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
*	4924.07	50.71	33.47	3.76	42.48	0.73	46.19	74.00	-27.81	Р
*	4924.07	42.63	33.47	3.76	42.48	0.73	38.11	54.00	-15.89	Α
*	7386.16	50.15	39.06	4.75	41.61	1.76	54.10	74.00	-19.90	Р
*	7386.16	41.29	39.06	4.75	41.61	1.76	45.24	54.00	-8.76	Α
	N/A									Р
	N/A									Α

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17
Model	BR280n	Test By	John Chen
Test Mode	IEEE 802.11n HT20 TX (CH High)	TEMP& Humidity	19.8℃, 49%

Vertical

	TX / IEEE	Measu	Measurement Distance at 3m Vertical polari							
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1249.86	53.16	25.55	2.10	41.76	0.74	39.79	74.00	-34.21	Р
	1249.86	43.21	25.55	2.10	41.76	0.74	29.84	54.00	-24.16	Α
*	4923.97	48.06	33.47	3.76	42.48	0.73	43.54	74.00	-30.46	Р
*	4923.97	42.35	33.47	3.76	42.48	0.73	37.83	54.00	-16.17	Α
	N/A									Р
	N/A									Α

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17
Model	BR280n	Test By	John Chen
Test Mode	IEEE 802.11n HT40 TX (CH Low)	TEMP& Humidity	19.8℃, 49%

Horizontal

	TX / IEEE 802.11n HT40 mode / CH Low				Measur	ement	Distance a	at 3m H	lorizontal p	ontal polarity				
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark				
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)				
*	4844.18	50.19	33.23	3.74	42.40	0.70	45.46	74.00	-28.54	Р				
*	4844.18	43.32	33.23	3.74	42.40	0.70	38.59	54.00	-15.41	Α				
*	7266.96	49.58	38.70	4.69	41.79	1.50	52.67	74.00	-21.33	Р				
*	7266.96	41.75	38.70	4.69	41.79	1.50	44.85	54.00	-9.15	Α				
	N/A									Р				
	N/A									Α				

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17	
Model	BR280n	Test By	John Chen	
Test Mode	IEEE 802.11n HT40 TX (CH Low)	TEMP& Humidity	19.8℃, 49%	

Vertical

	TX / IEEE	Measu	Measurement Distance at 3m Vertical polarity							
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1250.15	47.63	25.55	2.10	41.75	0.74	34.27	74.00	-39.73	Р
	1250.15	37.59	25.55	2.10	41.75	0.74	24.23	54.00	-29.77	Α
k	4844.24	51.87	33.23	3.74	42.40	0.70	47.14	74.00	-26.86	Р
k	4844.24	45.63	33.23	3.74	42.40	0.70	40.90	54.00	-13.10	Α
	N/A									Р
	N/A									Α

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17
Model	BR280n	Test By	John Chen
Test Mode	IEEE 802.11n HT40 TX (CH Middle)	TEMP& Humidity	19.8℃, 49%

Horizontal

	TX / IEEE 8	302.11n H	√40 mode	/ CH Middle	Measurement Distance at 3m Horizontal polarity					
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
*	4873.82	51.28	33.32	3.74	42.43	0.71	46.62	74.00	-27.38	Р
*	4873.82	42.66	33.32	3.74	42.43	0.71	38.00	54.00	-16.00	Α
*	7311.42	50.36	38.83	4.71	41.72	1.60	53.78	74.00	-20.22	Р
*	7311.42	41.88	38.83	4.71	41.72	1.60	45.30	54.00	-8.70	Α
Ī	N/A									Р
Ī	N/A									Α

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17	
Model	BR280n	Test By	John Chen	
Test Mode	IEEE 802.11n HT40 TX (CH Middle)	TEMP& Humidity	19.8℃, 49%	

Vertical

	TX / IEEE 8	Measurement Distance at 3m Vertical polarity								
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
Ī	1250.14	47.38	25.55	2.10	41.75	0.74	34.02	74.00	-39.98	Р
I	1250.14	41.26	25.55	2.10	41.75	0.74	27.90	54.00	-26.10	Α
k	4874.26	50.79	33.32	3.74	42.43	0.71	46.14	74.00	-27.86	Р
*	4874.26	43.59	33.32	3.74	42.43	0.71	38.94	54.00	-15.06	Α
	N/A									Р
	N/A									Α

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/17
Model	BR280n	Test By	John Chen
Test Mode	IEEE 802.11n HT40 TX (CH High)	TEMP& Humidity	19.8℃, 49%

Horizontal

	TX / IEEE	802.11n H	T40 mode	e / CH High	Measur	Measurement Distance at 3m Horizontal polarity					
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark	
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)	
*	4904.13	50.38	33.41	3.75	42.46	0.72	45.80	74.00	-28.20	Р	
*	4904.13	42.73	33.41	3.75	42.46	0.72	38.15	54.00	-15.85	Α	
*	7356.27	50.26	38.97	4.73	41.65	1.69	54.00	74.00	-20.00	Р	
*	7356.27	41.80	38.97	4.73	41.65	1.69	45.54	54.00	-8.46	Α	
	N/A									Р	
	N/A									Α	

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

Product Name N+ High Power Broadband Router - All Broadbands		Test Date	2011/1/17
Model	BR280n	Test By	John Chen
Test Mode	IEEE 802.11n HT40 TX (CH High)	TEMP& Humidity	19.8℃, 49%

Vertical

	TX / IEEE 802.11n HT40 mode / CH High				Measurement Distance at 3m Vertical polarity				olarity	
	Freq.	Reading	AF	Cable Loss	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(P/Q/A)
	1250.09	53.26	25.55	2.10	41.75	0.74	39.90	74.00	-34.10	Р
	1250.09	43.19	25.55	2.10	41.75	0.74	29.83	54.00	-24.17	Α
*	4904.16	48.26	33.41	3.75	42.46	0.72	43.69	74.00	-30.31	Р
*	4904.16	42.78	33.41	3.75	42.46	0.72	38.21	54.00	-15.79	Α
	N/A									Р
	N/A									Α

- 1. AF: Antenna Factor, Cable: Cable Loss, Pre-Amp: Preamplifier gain, Filter: High Pass Filter Insertion Loss (3.5GHz)
- 2. Spectrum analyzer setting P(Peak): RBW=1MHz, VBW=1MHz, A(Average): RBW=1MHz, VBW=10Hz
- 3. The result basic equation calculation is as follow: Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level-Limit
- 4. The other emission levels were 20dB below the limit
- 5. The test limit distance is 3M limit.

8.6.4 RESTRICTED BAND EDGES

802.11b Mode

Channel	Polarity	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	Н	2390.00	57.65	74	-16.35	Peak
	Н	2390.00	44.87	54	-9.13	Average
	V	2390.00	55.37	74	-18.63	Peak
LOW	V	2390.00	45.13	54	-8.87	Average
	Н	2483.50	57.6	74	-16.40	Peak
	Н	2483.50	44.61	54	-9.39	Average
	V	2483.50	58.45	74	-15.55	Peak
HIGH	V	2483.50	45.36	54	-8.64	Average

Date of Issue: February 14, 2011

802.11g Mode

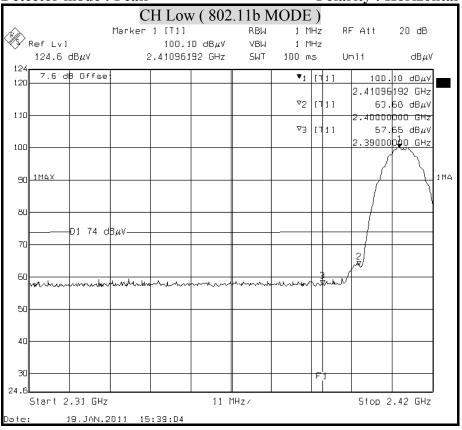
Channel	Polarity	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	Н	2390.00	57.07	74	-16.93	Peak
	Н	2390.00	44.89	54	-9.11	Average
	V	2390.00	58.06	74	-15.94	Peak
LOW	V	2390.00	45.21	54	-8.79	Average
	Н	2483.50	58.23	74	-15.77	Peak
	Н	2483.50	44.59	54	-9.41	Average
	V	2483.50	57.88	74	-16.12	Peak
HIGH	V	2483.50	45.13	54	-8.87	Average

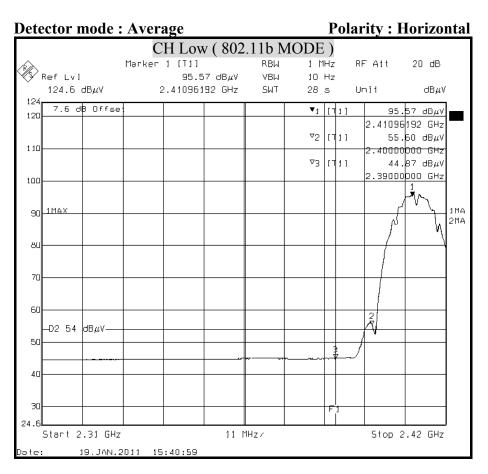
802.11n HT-20 Mode

Channel	Polarity	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	Н	2390.00	58.08	74	-15.92	Peak
	Н	2390.00	44.94	54	-9.06	Average
	V	2390.00	58.83	74	-15.17	Peak
LOW	V	2390.00	45.91	54	-8.09	Average
	Η	2483.50	58.03	74	-15.97	Peak
	H	2483.50	44.57	54	-9.43	Average
	V	2483.50	57.64	74	-16.36	Peak
HIGH	V	2483.50	44.98	54	-9.02	Average

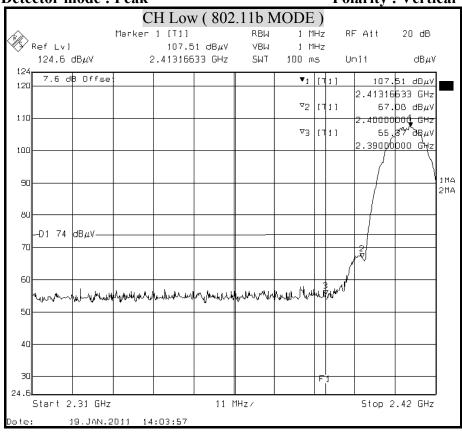
802.11n HT-40 Mode

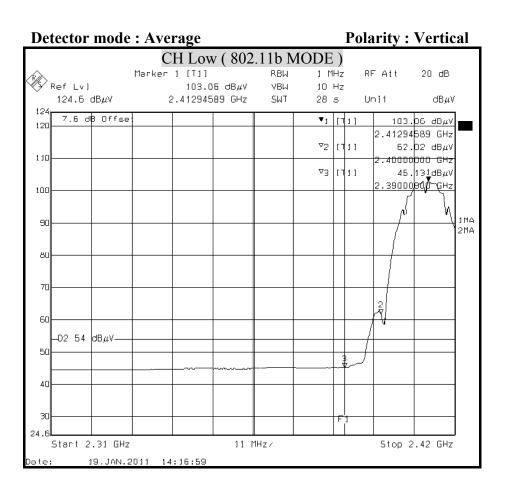
Channel	Polarity	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	Н	2390.00	57.66	74	-16.34	Peak
	Н	2390.00	44.95	54	-9.05	Average
	V	2390.00	58.42	74	-15.58	Peak
LOW	V	2390.00	46.23	54	-7.77	Average
	Н	2483.50	57.06	74	-16.94	Peak
	Н	2483.50	44.60	54	-9.40	Average
	V	2483.50	57.18	74	-16.82	Peak
HIGH	V	2483.50	45.67	54	-8.33	Average

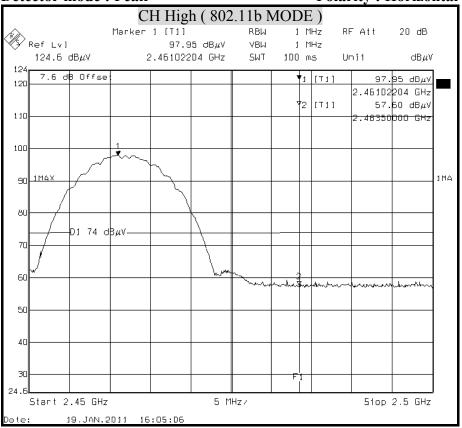


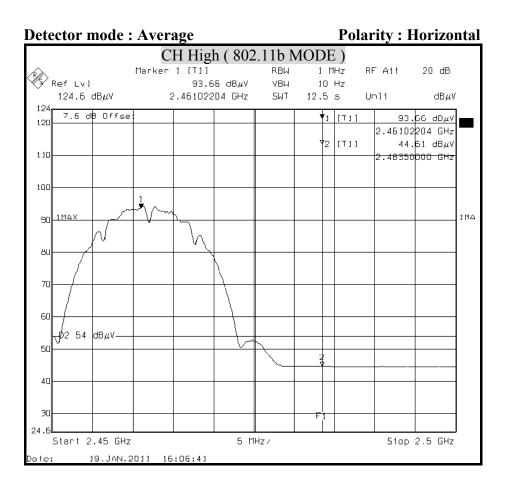


Detector mode : Peak Polarity : Vertical

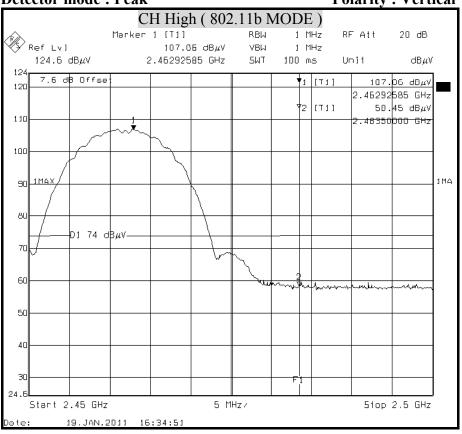


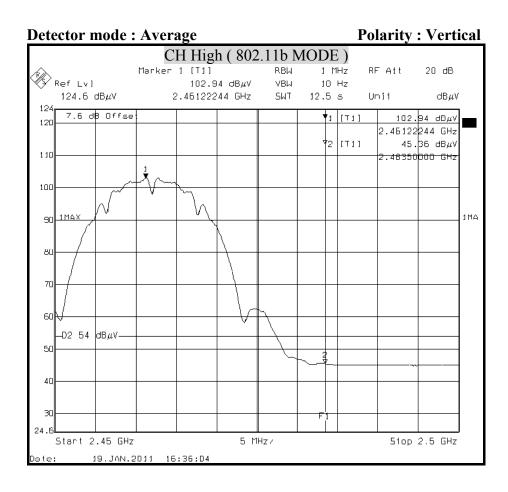






Detector mode: Peak Polarity: Vertical





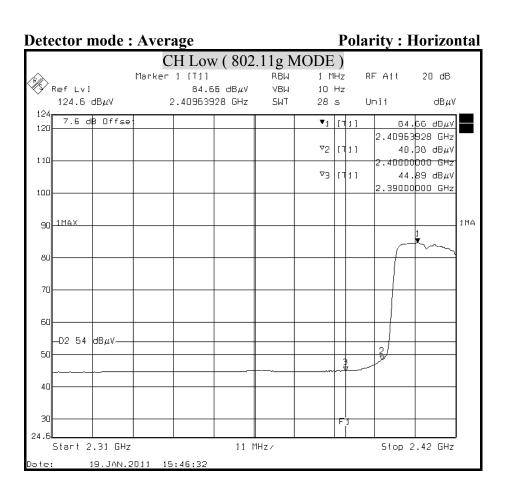
Start 2.31 GHz

19.JAN.2D11 15:44:54

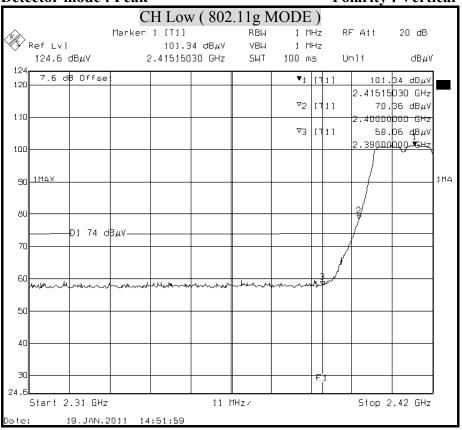
Detector mode: Peak Polarity: Horizontal CH Low (802.11g MODE) RF Att Marker 1 [T1] RBW 20 dB Ref Lvl 94.15 dBμV ∨вы 1 MHz 124.6 $dB\mu V$ SWT 2.40875752 GHz 100 ms Unit $\mathrm{dB}\mu\mathrm{V}$ 7.6 dB Offse 94.15 dBμV ▼1 [71] 2.40875752 GHz 72 [111] 71.β4 dBμV 110 40000<mark>000 GHZ</mark> ∇3 [T1] 57.07 dBμV 2.39000<mark>000 GHz</mark> 100 90 1MAX D1 74 dBμV-50 30

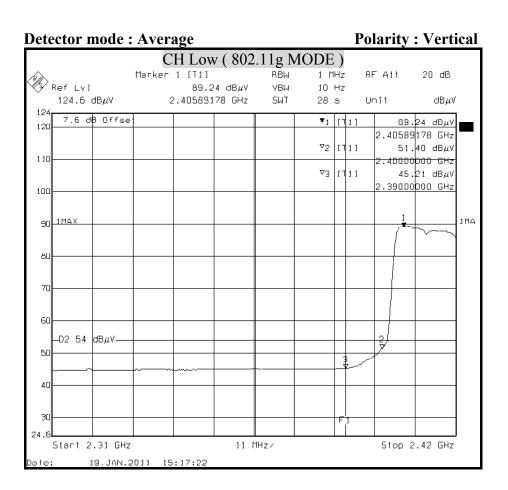
11 MHz/

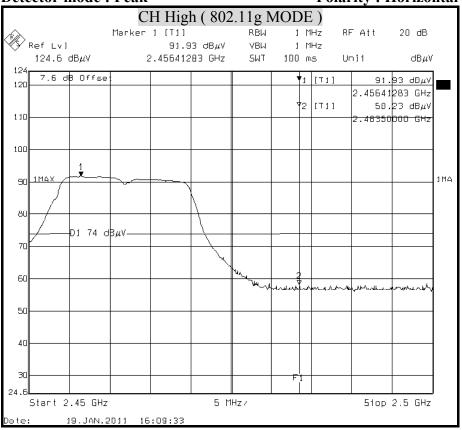
Stop 2.42 GHz

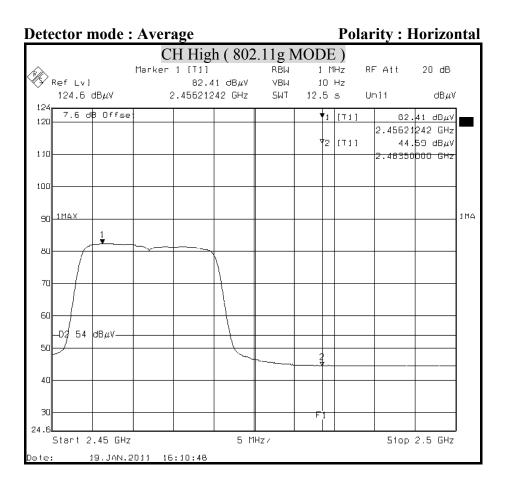


Detector mode: Peak Polarity: Vertical

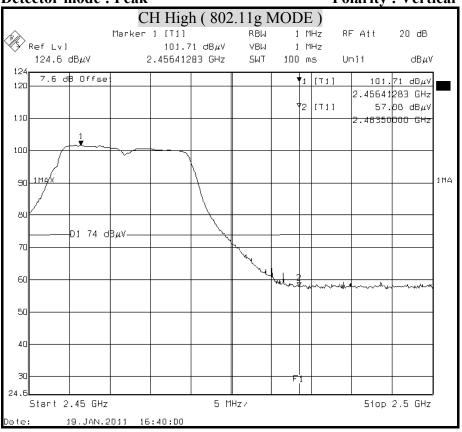


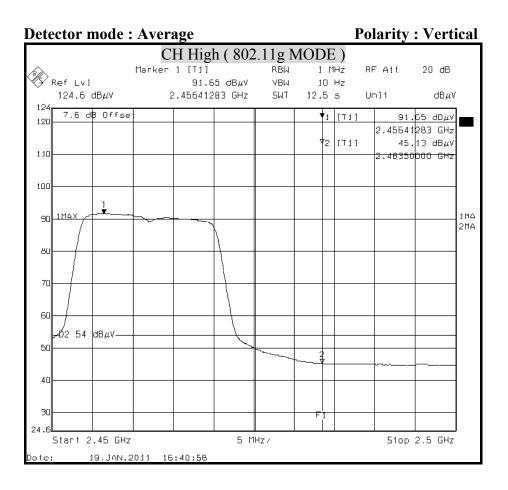


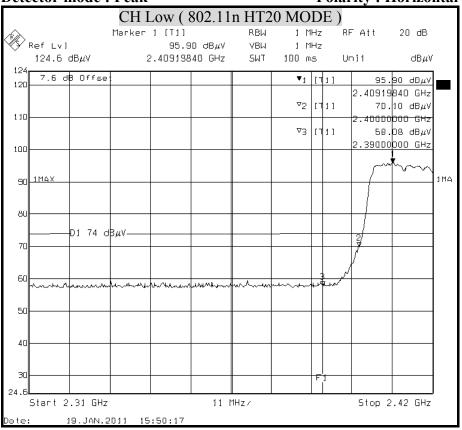


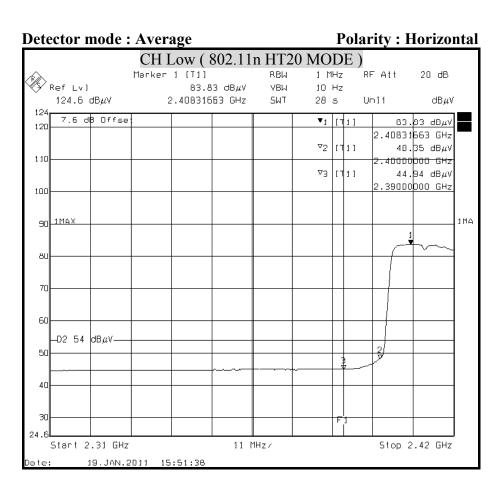


Detector mode: Peak Polarity: Vertical

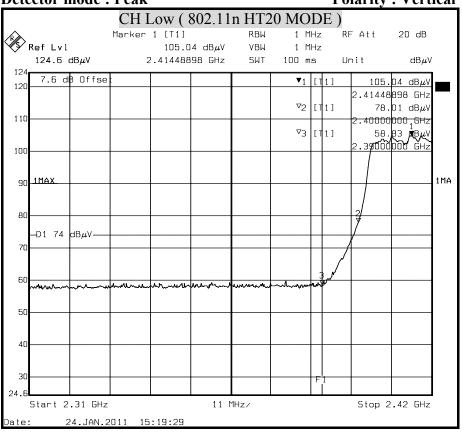


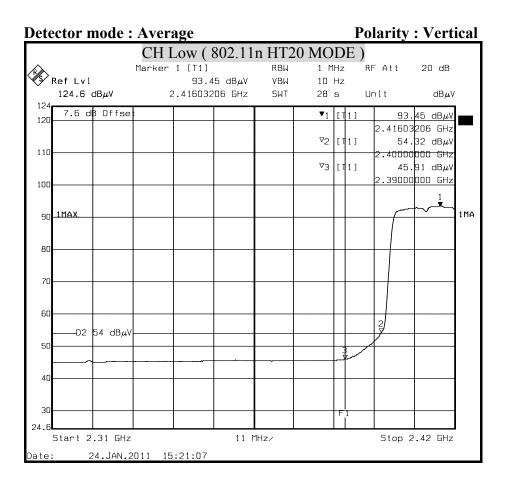


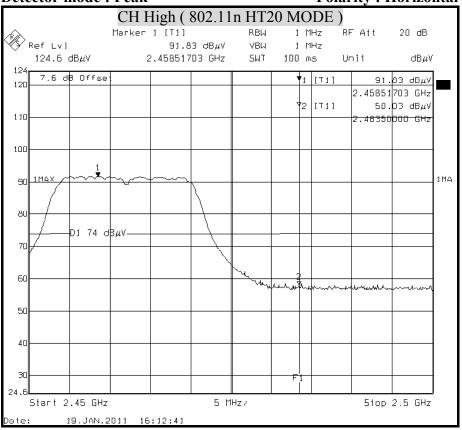


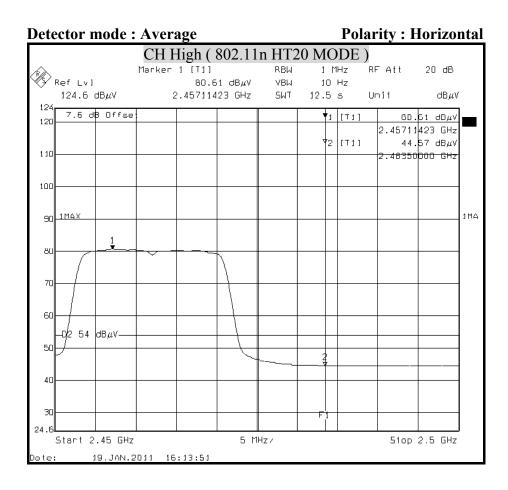


Detector mode: Peak Polarity: Vertical

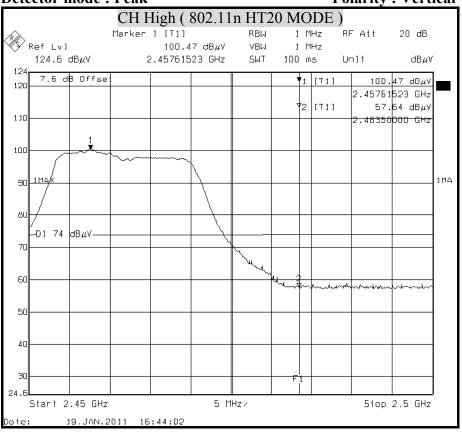


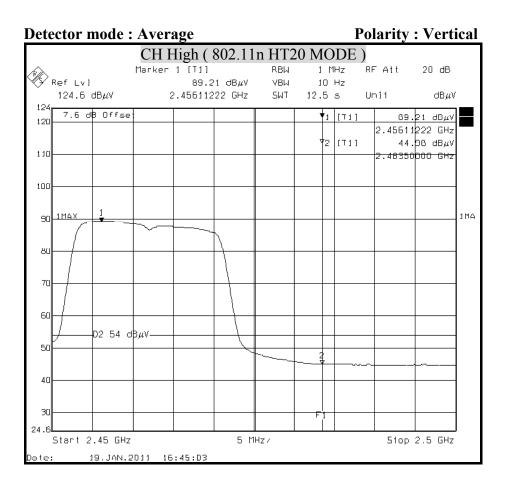


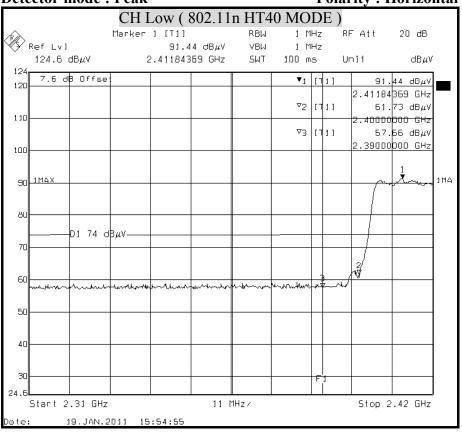


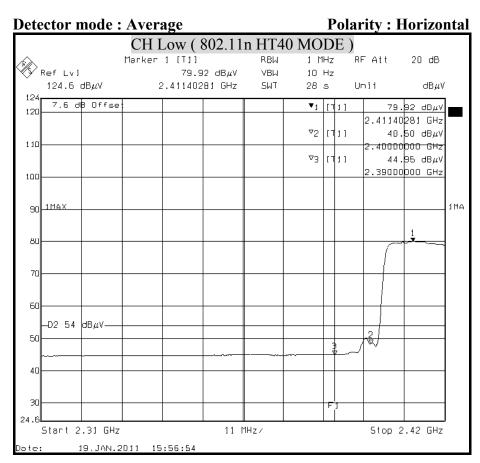


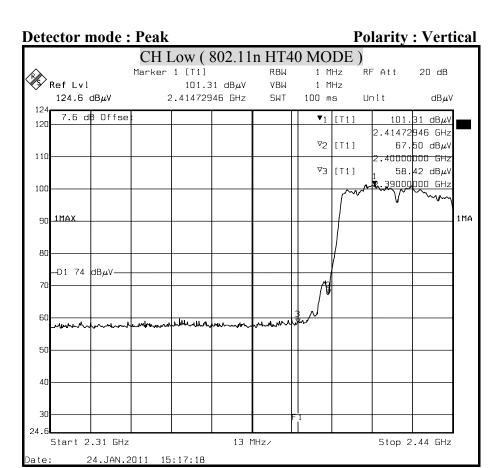
Detector mode: Peak Polarity: Vertical

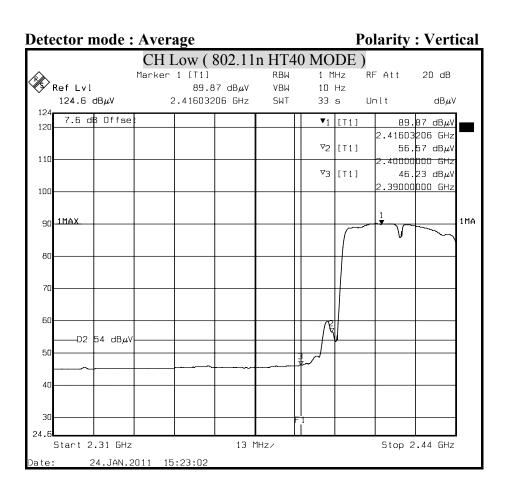


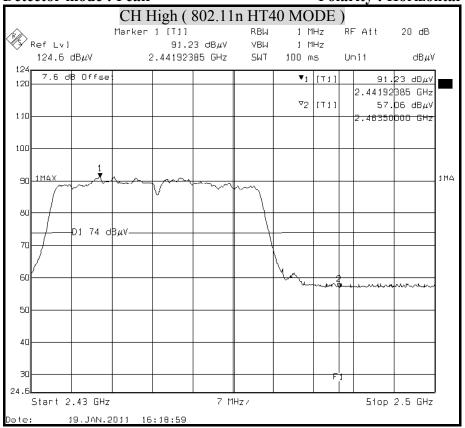


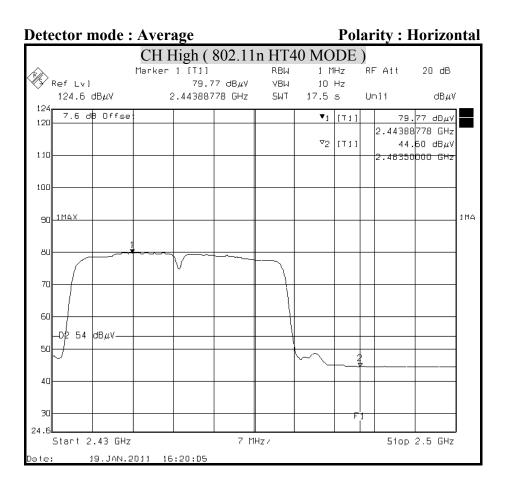




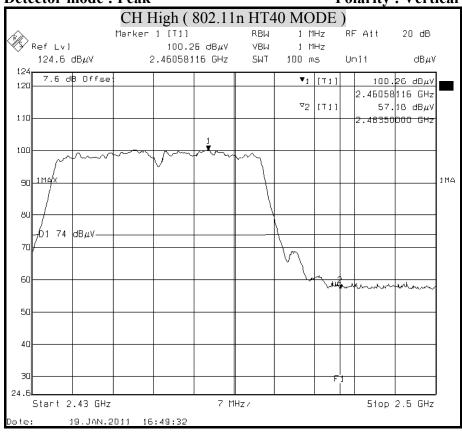


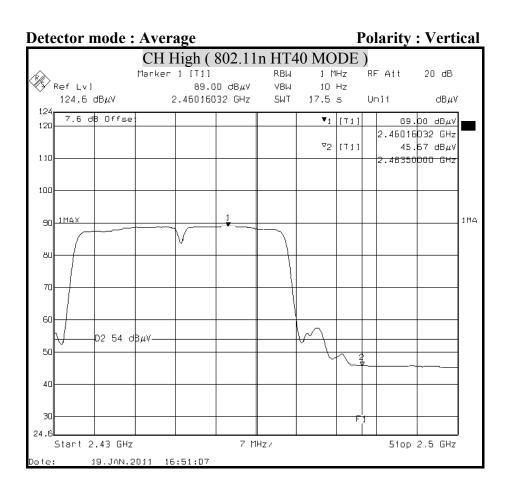






Detector mode: Peak Polarity: Vertical





8.7 POWERLINE CONDUCTED EMISSIONS

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

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The lower limit applies at the boundary between the frequency ranges.

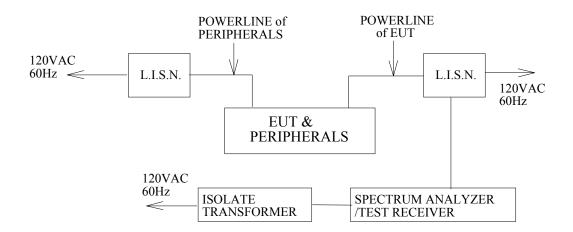
Frequency of Emission (MHz)	Conducted limit (dΒμν)			
	Quasi-peak	Average		
0.15 - 0.5	66 to 56	56 to 46		
0.5 - 5	56	46		
5 - 30	60	50		

TEST EQUIPMENTS

The following test equipments are used during the conducted power line tests:

Conducted Emission room #1							
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due			
L.I.S.N.	SCHWARZBECK	NNLK 8121	8121-308	MAR. 09, 2011			
TEST RECEIVER	Rohde & Schwarz	ESCS 30	100348	JUL. 13, 2011			
TYPE N COAXIAL CABLE	CCS	BNC50	11	OCT. 04, 2011			
Test S/W		•	e-3 (5.04211c) R&S (2.27)				

TEST SETUP



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TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80cm above the horizontal ground plane. The EUT IS CONFIGURED IN ACCORDANCE WITH ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both quasi-peak detection and average detection measurements.

Line conducted data is recorded for both NEUTRAL and LINE.

TEST RESULTS

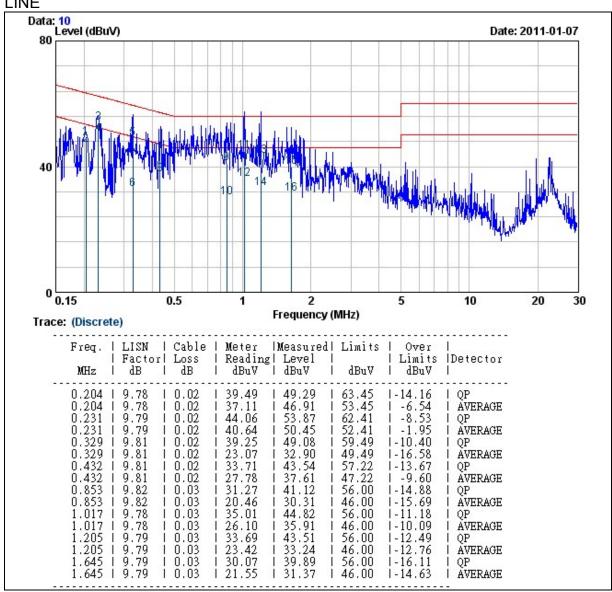
No non-compliance noted.

CONDUCTED RF VOLTAGE MEASUREMENT

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/7
Model	BR280n	Test By	Shiang Su
Test Mode	Normal operating (worst case)	TEMP& Humidity	22°C, 55%

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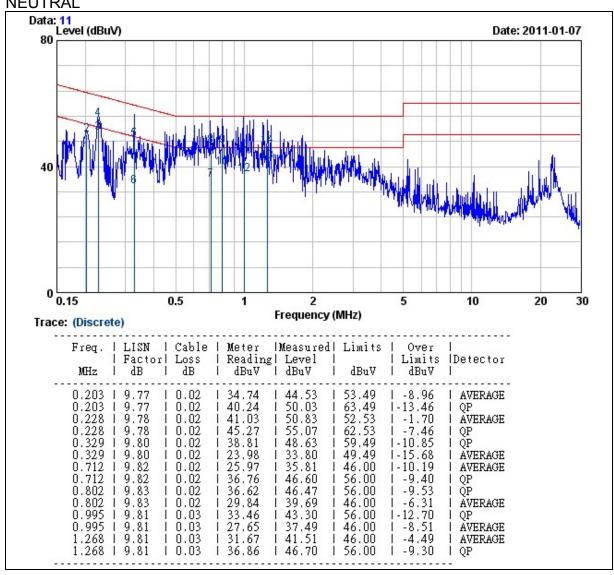
LINE



- 1. Correction Factor = Insertion loss + cable loss
- 2. Margin value = Emission level Limit value

Product Name	N+ High Power Broadband Router - All Broadbands	Test Date	2011/1/7
Model	BR280n	Test By	Shiang Su
Test Mode	Normal operating (worst case)	TEMP& Humidity	22°C, 55%

NEUTRAL



- 1. Correction Factor = Insertion loss + cable loss
- 2. Margin value = Emission level Limit value

9. ANTENNA REQUIREMENT

9.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2 ANTENNA CONNECTED CONSTRUCTION

Two antennas 2Tx 2Rx

Manufacture: XINXIE TECHNOLOGY (SHENZHEN) CO., LTD.

Model: S22-XY30924

Type: Dipole Gain: 5 dBi