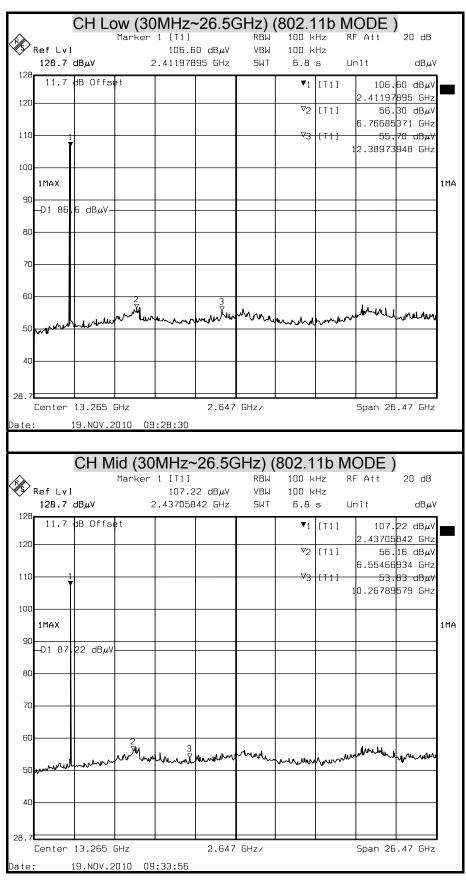
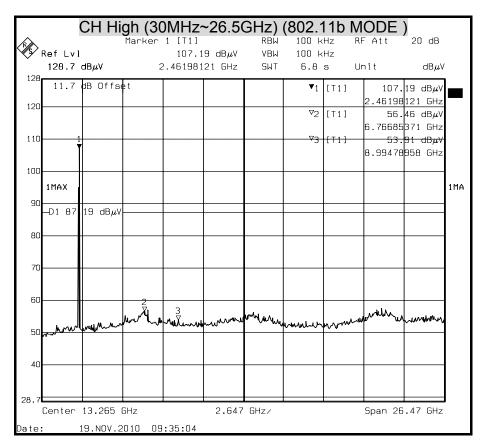
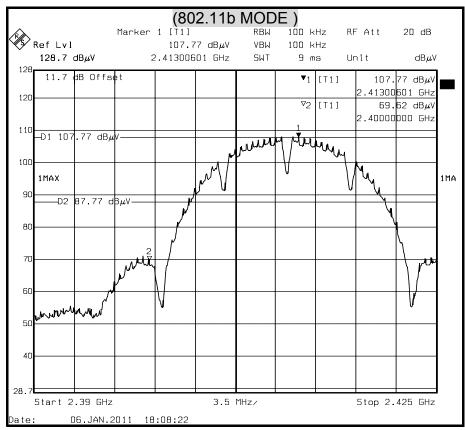
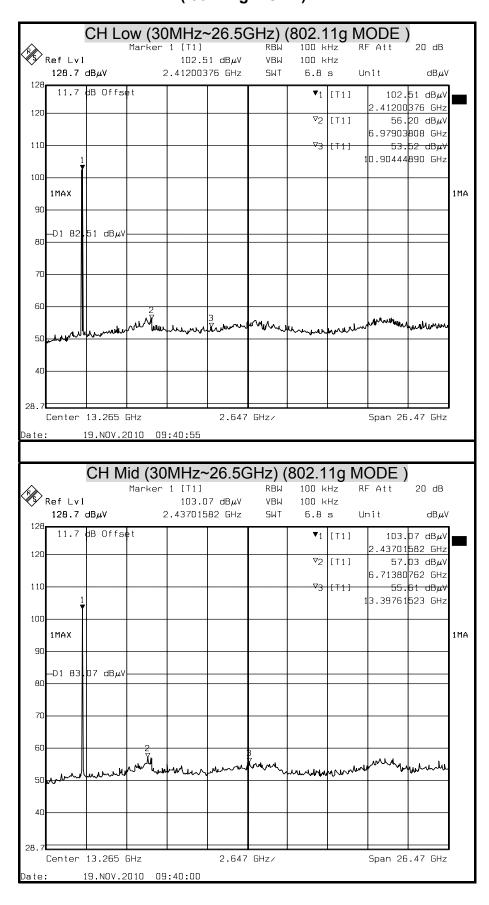
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT (IEEE 802.11b MODE)

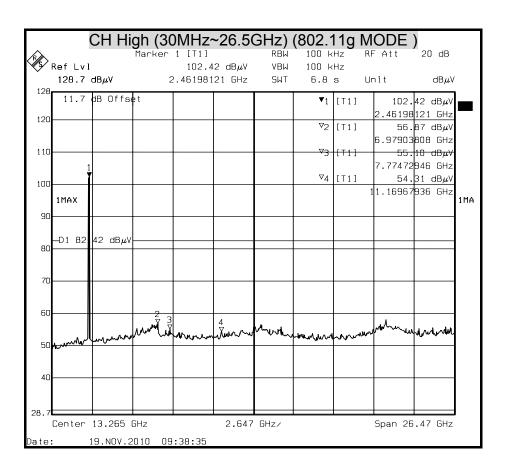


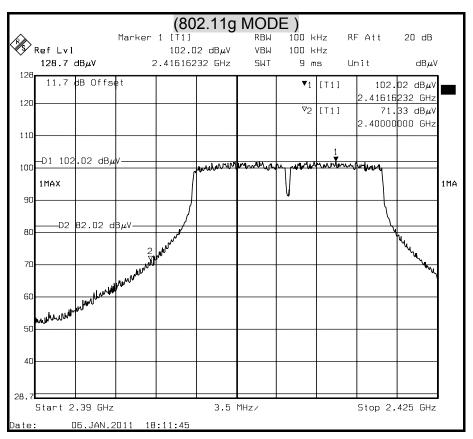




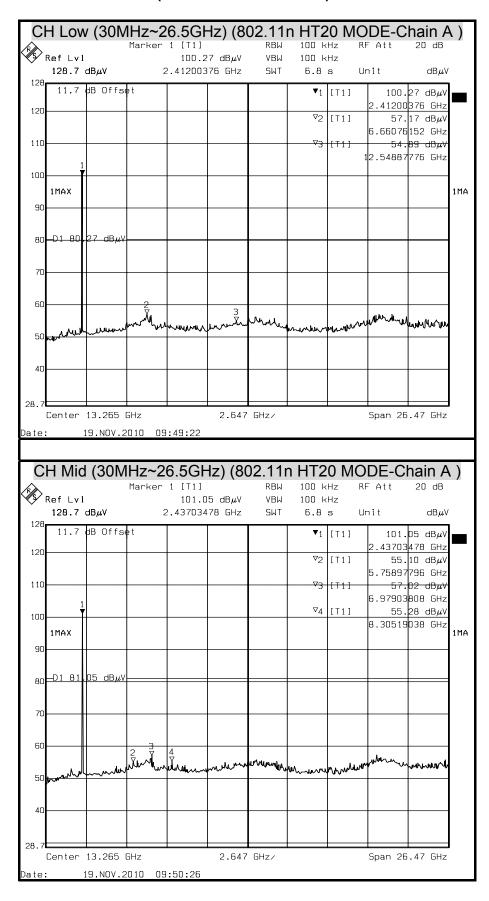
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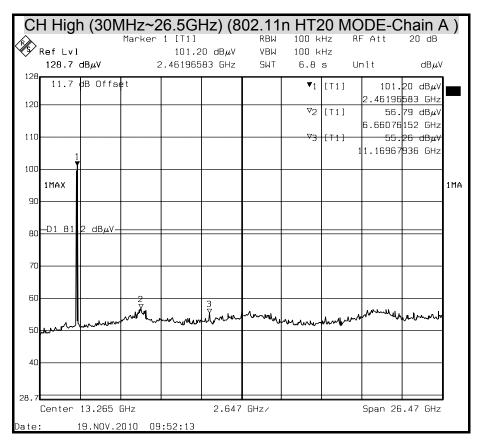


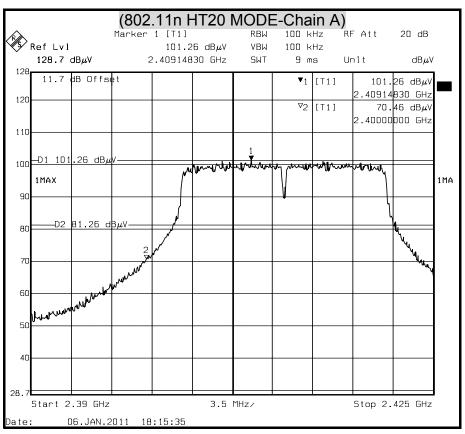




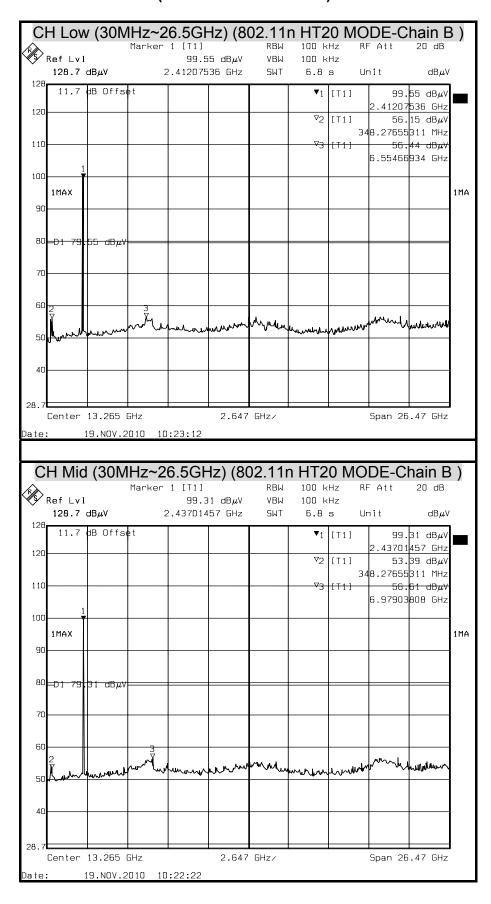
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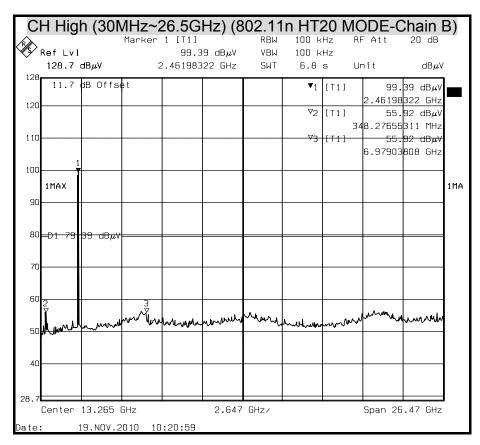


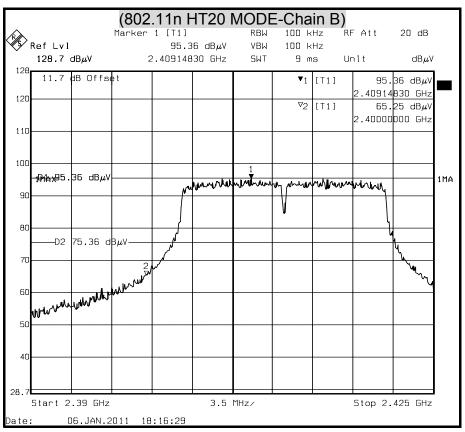




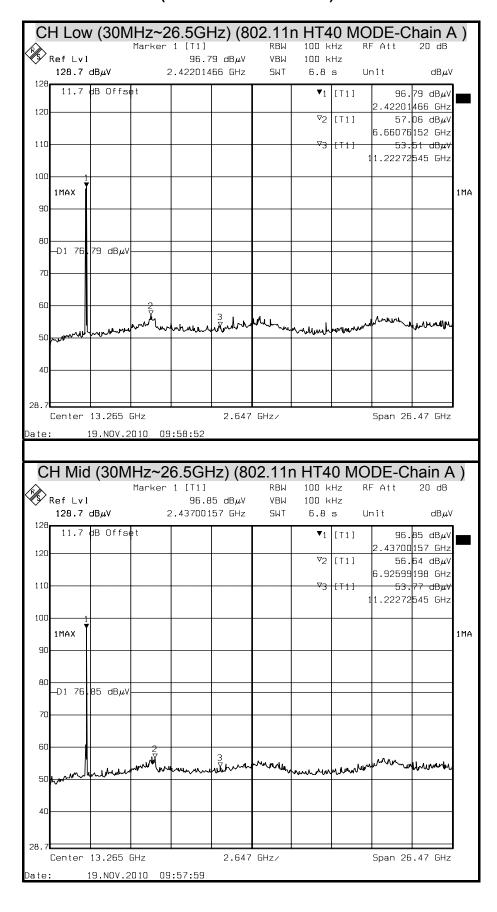
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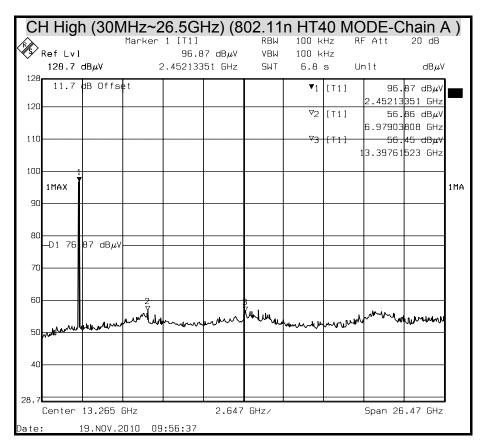


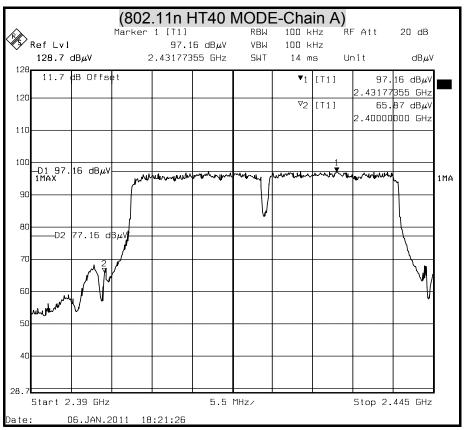




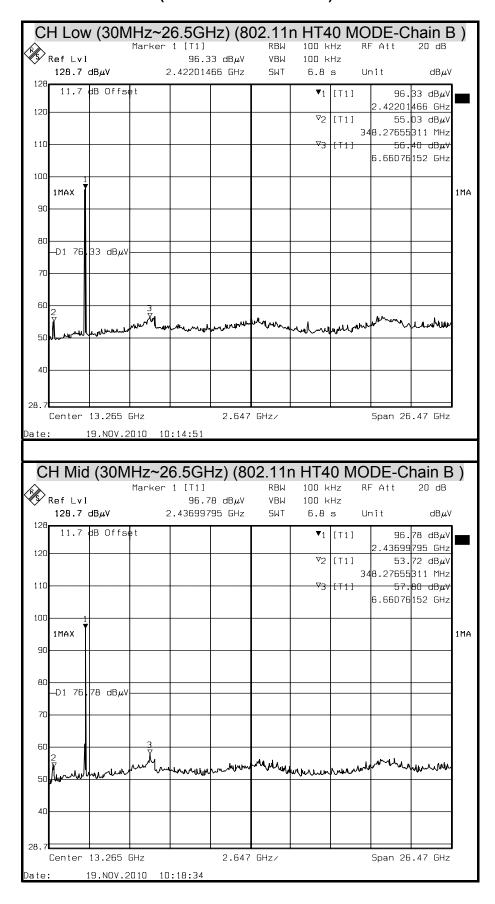
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT (802.11n HT40 MODE)

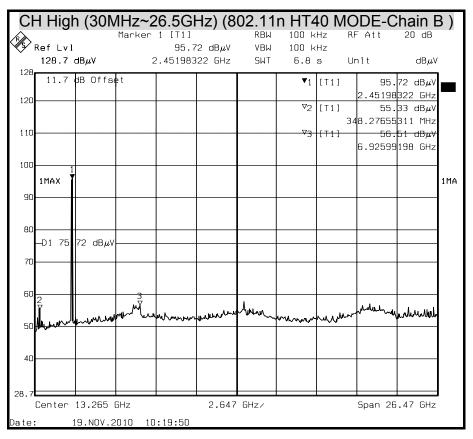


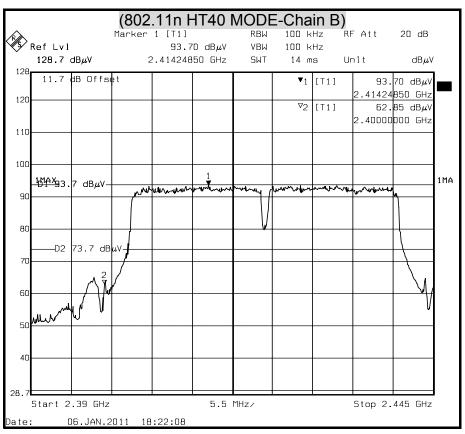




OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT (802.11n HT40 MODE)



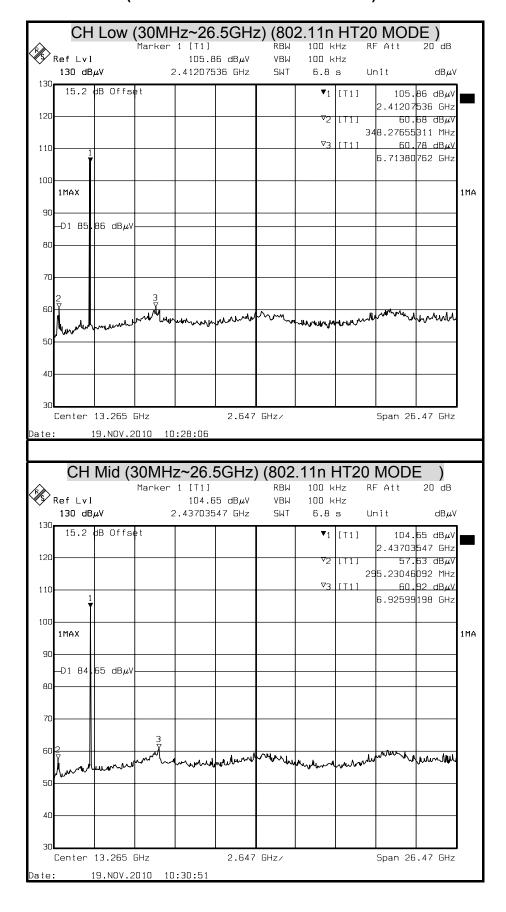


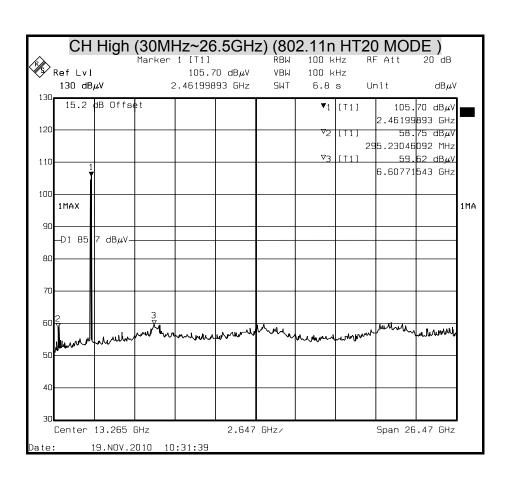


OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

Date of Issue: February 25, 2011

(802.11n HT20 Combined Mode)

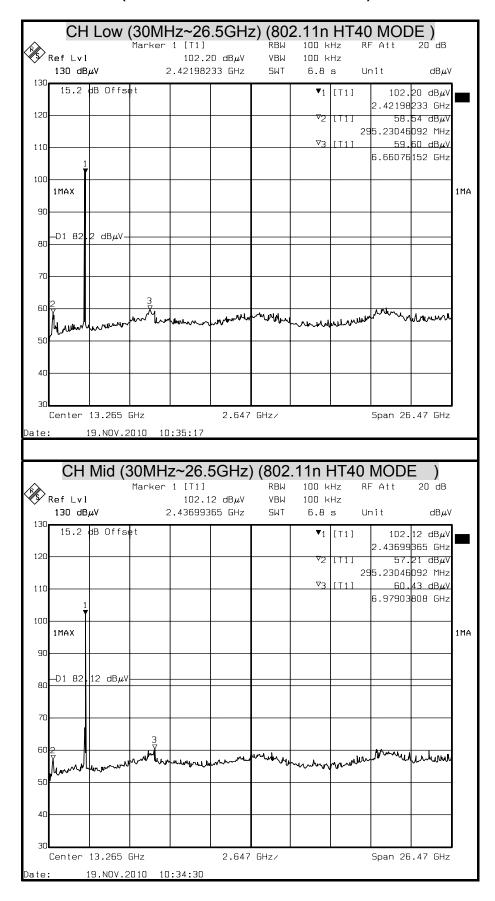


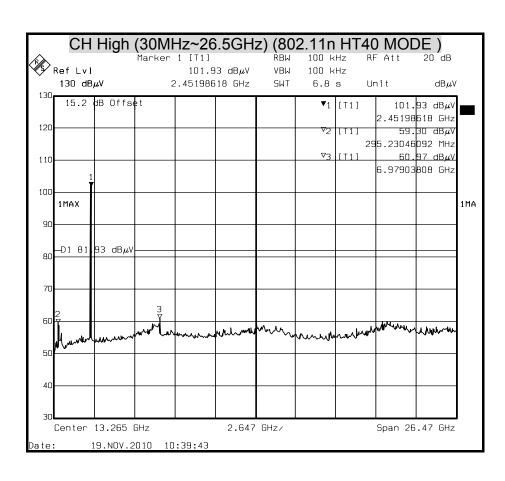


OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

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(802.11n HT40 Combined Mode)





8.6 RADIATED EMISSIONS

8.6.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS

LIMITS

§ 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 -1710	10.6 -12.7
6.26775 - 6.26825	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 – 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 -16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	(²)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

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§ 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz, However, operation within these frequency bands is permitted under other sections of this Part, e-g, Sections 15.231 and 15.241.

^{§ 15.209 (}b) In the emission table above, the tighter limit applies at the band edges.

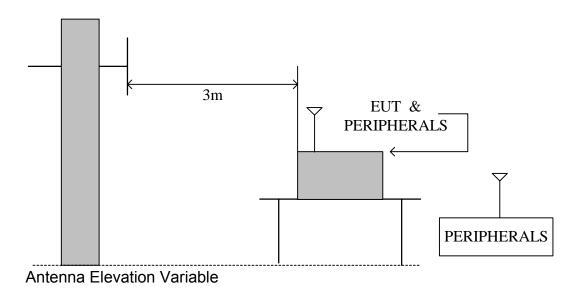
<u>TEST EQUIPMENTS</u>
The following test equipments are utilized in making the measurements contained in this report.

	0	pen Area Test Site #	6	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
TYPE N COAXIAL CABLE	SUHNER	CHA9513	6	NOV. 17, 2011
BI-LOG Antenna	Sunol	JB1	A070506-2	OCT. 4, 2011
LOOP ANTENNA	EMCO	6502	8905-2356	JUN. 10, 2011
Pre-Amplifier	HP	8447F	2944A03817	NOV. 23, 2011
EMI Receiver	R&S	ESVS10	833206/012	MAY 10, 2011
RF Cable	SUHNER	SUCOFLEX104PEA	20520/4PEA	NOV. 10, 2011
Horn Antenna	Com-Power	AH-118	071032	DEC. 29, 2010
Spectrum Analyzer	R&S	FSEK 30	835253/002	JUL. 14, 2011
Pre-Amplifier	MITEQ	AFS44-00108650-42-10P-44	1205908	NOV. 23, 2011
Turn Table	Yo Chen	001		N.C.R.
Antenna Tower	AR	TP1000A	309874	N.C.R.
Controller	СТ	SC101		N.C.R.
RF Swicth	E-INSTRUMEN T TELH LTD	ERS-180A	EC1204141	N.C.R
Power Meter	Anritsu	ML2487A	6K00003888	MAY 11, 2011
Power Sensor	Anritsu	MA2491A	33265	MAY 10, 2011
Temp./Humidity Chamber	K.SON	THS-M1	242	AUG. 11, 2011
Signal Generator HP DC Power Source LOKO		8673C	2938A00663	SEP. 12, 2011
		DSP-5050	L1507009282	N.C.R
Test S/W		e-3 (5.04303	3e)	

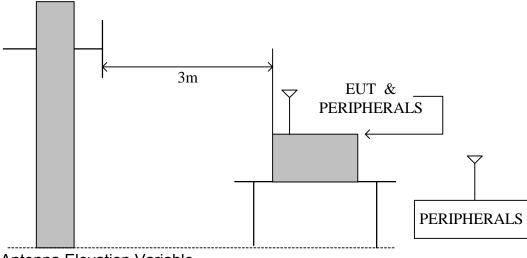
Report No.: T100901402-RP1 FCC ID: U6A-BR182N Date of Issue: February 25, 2011

TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from 30 to 1GHz.



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



Antenna Elevation Variable

TEST PROCEDURE

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

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- b. White measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. White measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.
- 4. No emission is found between lowest internal used/generated frequency to 30MHz (9kHz~30MHz)

TEST RESULTS

No non-compliance noted.

8.6.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

Product Name	N+ Mobile Router	Test Date	2010/12/10
Model	BR182n	Test By	Vision Chang
Test Mode	Normal operating (worst case)	TEMP& Humidity	31℃, 60%

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Horizontal

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Level	Limits	mits Margin Dete	
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dBµV/M)	(dB)	PK/QP
74.29	9.19	8.37	1.99	19.55	40.00	-20.45	QP
128.95	7.28	13.91	2.69	23.88	43.50	-19.62	QP
226.50	7.14	12.63	3.87	23.64	46.00	-22.36	QP
312.50	13.23	14.58	4.50	32.31	46.00	-13.69	QP
468.75	11.57	17.76	5.75	35.07	46.00	-10.93	QP
627.25	2.60	20.06	6.91	29.57	46.00	-16.43	QP
N/A							

Vertical

Frequency	Meter Reading	Antenna Factor	Cable Loss	Emission Level	Limits	Margin	Detector Mode
(MHz)	(dBµV)	(dB/M)	(dB)	(dBµV/M)	(dBµV/M)	(dB)	PK/QP
73.99	16.10	8.40	1.97	26.47	40.00	-13.53	QP
126.35	11.64	14.01	2.66	28.31	43.50	-15.19	QP
155.94	11.18	12.44	3.04	26.66	46.00	-16.84	QP
230.43	8.84	12.56	3.91	25.31	46.00	-20.69	QP
312.50	13.02	14.58	4.50	32.10	46.00	-13.90	QP
468.75	11.76	17.76	5.75	35.26	46.00	-10.74	QP
781.25	5.60	22.02	8.25	35.87	46.00	-10.13	QP
N/A							

REMARK: Emission level (dB μ V/m) =Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading (dB μ V).

8.6.3 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz

Product Name	N+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11b TX (CH Low)	TEMP& Humidity	25.2°ℂ, 53%

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Horizontal

	TX / IEI	EE 802.11	b 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)
	1249.96	56.72	25.55	2.10	41.76	0.74	43.35	74.00	-30.65	Р
	1249.96	52.27	25.55	2.10	41.76	0.74	38.90	54.00	-15.10	Α
*	4824.06	54.56	33.17	3.73	42.38	0.69	49.77	74.00	-24.23	Р
*	4824.06	48.63	33.17	3.73	42.38	0.69	43.84	54.00	-10.16	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11b TX (CH Low)	TEMP& Humidity	25.2°ℂ, 53%

Vertical

	TX / IE	TX / IEEE 802.11b mode / CH Low				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)
	1250.06	53.18	25.55	2.10	41.75	0.74	39.82	74.00	-34.18	Р
	1250.06	49.15	25.55	2.10	41.75	0.74	35.79	54.00	-18.21	Α
*	4824.02	54.96	33.17	3.73	42.38	0.69	50.17	74.00	-23.83	Р
*	4824.02	48.10	33.17	3.73	42.38	0.69	43.31	54.00	-10.69	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11b TX (CH Middle)	TEMP& Humidity	25.2°ℂ, 53%

Horizontal

	TX / IEE	mode /	CH Middle	Measurement Distance at 3m Horizontal 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)
	1250.02	55.85	25.55	2.10	41.75	0.74	42.49	74.00	-31.51	Р
	1250.02	51.63	25.55	2.10	41.75	0.74	38.27	54.00	-15.73	Α
*	4873.97	54.21	33.32	3.74	42.43	0.71	49.55	74.00	-24.45	Р
*	4873.97	47.63	33.32	3.74	42.43	0.71	42.97	54.00	-11.03	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11b TX (CH Middle)	TEMP& Humidity	25.2°ℂ, 53%

Vertical

	TX / IEE	TX / IEEE 802.11b mode / CH Middle				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)	
	1250.04	53.64	25.55	2.10	41.75	0.74	40.28	74.00	-33.72	Р	
	1250.04	49.85	25.55	2.10	41.75	0.74	36.49	54.00	-17.51	Α	
*	4874.05	54.19	33.32	3.74	42.43	0.71	49.53	74.00	-24.47	Р	
*	4874.05	47.93	33.32	3.74	42.43	0.71	43.27	54.00	-10.73	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11b TX (CH High)	TEMP& Humidity	25.2°ℂ, 53%

Horizontal

	TX / IEE	EE 802.11	b 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)	
	1249.99	56.95	25.55	2.10	41.76	0.74	43.58	74.00	-30.42	Р	
	1249.99	52.47	25.55	2.10	41.76	0.74	39.10	54.00	-14.90	Α	
*	4924.06	54.59	33.47	3.76	42.48	0.73	50.07	74.00	-23.93	Р	
*	4924.06	48.63	33.47	3.76	42.48	0.73	44.11	54.00	-9.89	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11b TX (CH High)	TEMP& Humidity	25.2°ℂ, 53%

Vertical

	TX / IEE	E 802.11	b mode	/ CH High	Measu	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)	
	1250.00	54.16	25.55	2.10	41.76	0.74	40.80	74.00	-33.21	Р	
	1250.00	49.75	25.55	2.10	41.76	0.74	36.39	54.00	-17.62	Α	
*	4924.06	53.63	33.47	3.76	42.48	0.73	49.11	74.00	-24.89	Р	
*	4924.06	47.30	33.47	3.76	42.48	0.73	42.78	54.00	-11.22	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11g TX (CH Low)	TEMP& Humidity	25.2°ℂ, 53%

Horizontal

	TX / IE	EE 802.11	lg mod	e / CH Low	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)	
	1250.02	56.84	25.55	2.10	41.75	0.74	43.48	74.00	-30.52	Р	
	1250.02	51.94	25.55	2.10	41.75	0.74	38.58	54.00	-15.42	Α	
4	4823.65	53.95	33.17	3.73	42.38	0.69	49.16	74.00	-24.84	Р	
4	4823.65	47.18	33.17	3.73	42.38	0.69	42.39	54.00	-11.61	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11g TX (CH Low)	TEMP& Humidity	25.2°ℂ, 53%

Vertical

	TX / IEI	TX / IEEE 802.11g mode / CH Low				rement	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)
	1250.01	52.87	25.55	2.10	41.75	0.74	39.51	74.00	-34.49	Р
	1250.01	47.63	25.55	2.10	41.75	0.74	34.27	54.00	-19.73	Α
*	4824.31	54.63	33.17	3.73	42.38	0.69	49.84	74.00	-24.16	Р
*	4824.31	48.35	33.17	3.73	42.38	0.69	43.56	54.00	-10.44	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11g TX (CH Middle)	TEMP& Humidity	25.2°ℂ, 53%

Horizontal

	TX / IEEE 802.11g		mode /	CH Middle	Measur	Measurement Distance at 3m Horizontal polar				
	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)
	1250.03	55.96	25.55	2.10	41.75	0.74	42.60	74.00	-31.40	Р
	1250.03	52.16	25.55	2.10	41.75	0.74	38.80	54.00	-15.20	Α
*	4876.43	53.41	33.33	3.75	42.44	0.71	48.76	74.00	-25.24	Р
*	4876.43	47.06	33.33	3.75	42.44	0.71	42.41	54.00	-11.59	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11g TX (CH Middle)	TEMP& Humidity	25.2°ℂ, 53%

Vertical

	TX / IEE	TX / IEEE 802.11g mode / CH Middle				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)		
	1250.00	53.63	25.55	2.10	41.76	0.74	40.27	74.00	-33.74	Р		
	1250.00	48.65	25.55	2.10	41.76	0.74	35.29	54.00	-18.72	Α		
*	4876.98	54.21	33.33	3.75	42.44	0.71	49.57	74.00	-24.43	Р		
*	4876.98	47.63	33.33	3.75	42.44	0.71	42.98	54.00	-11.02	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11g TX (CH High)	TEMP& Humidity	25.2°ℂ, 53%

Horizontal

	TX / IEE	EE 802.11	g mod	e / CH High	Measur	Measurement Distance at 3m Horizon				
	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)
	1249.99	56.04	25.55	2.10	41.76	0.74	42.67	74.00	-31.33	Р
	1249.99	52.16	25.55	2.10	41.76	0.74	38.79	54.00	-15.21	Α
*	4924.03	53.84	33.47	3.76	42.48	0.73	49.32	74.00	-24.68	Р
*	4924.03	47.96	33.47	3.76	42.48	0.73	43.44	54.00	-10.56	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11g TX (CH High)	TEMP& Humidity	25.2°ℂ, 53%

Vertical

	TX / IEE	TX / IEEE 802.11g mode / CH High				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)
	1250.01	52.63	25.55	2.10	41.75	0.74	39.27	74.00	-34.73	Р
	1250.01	48.66	25.55	2.10	41.75	0.74	35.30	54.00	-18.70	Α
k	4923.98	54.21	33.47	3.76	42.48	0.73	49.69	74.00	-24.31	Р
k	4923.98	47.63	33.47	3.76	42.48	0.73	43.11	54.00	-10.89	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+ Mobile Router	Test Date	2010/11/20		
Model	BR182n	BR182n Test By			
Test Mode	IEEE 802.11n HT20 TX (CH Low)	TEMP& Humidity	25.2°ℂ, 53%		

Horizontal

	TX / IEEE 802.11n HT20 mode / CH Low				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)		
	1250.00	55.63	25.55	2.10	41.76	0.74	42.27	74.00	-31.74	Р		
	1250.00	51.37	25.55	2.10	41.76	0.74	38.01	54.00	-16.00	Α		
*	4823.96	53.69	33.17	3.73	42.38	0.69	48.90	74.00	-25.10	Р		
*	4823.96	47.22	33.17	3.73	42.38	0.69	42.43	54.00	-11.57	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+ Mobile Router	Test Date	2010/11/20		
Model	BR182n	BR182n Test By			
Test Mode	IEEE 802.11n HT20 TX (CH Low)	TEMP& Humidity	25.2°ℂ, 53%		

Vertical

	TX / IEEE 802.11n HT20 mode / CH Low				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)
	1249.99	52.63	25.55	2.10	41.76	0.74	39.26	74.00	-34.74	Р
	1249.99	48.12	25.55	2.10	41.76	0.74	34.75	54.00	-19.25	Α
*	4824.05	53.98	33.17	3.73	42.38	0.69	49.19	74.00	-24.81	Р
*	4824.05	47.25	33.17	3.73	42.38	0.69	42.46	54.00	-11.54	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+ Mobile Router	Test Date	2010/11/20	
Model	BR182n	Test By	John Chen	
Test Mode	IEEE 802.11n HT20 TX (CH Middle)	TEMP& Humidity	25.2°ℂ, 53%	

Horizontal

	TX / IEEE 8	TX / IEEE 802.11n HT20 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)		
	1250.05	55.99	25.55	2.10	41.75	0.74	42.63	74.00	-31.37	Р		
	1250.05	52.80	25.55	2.10	41.75	0.74	39.44	54.00	-14.56	Α		
*	4874.65	53.14	33.32	3.74	42.43	0.71	48.49	74.00	-25.51	Р		
*	4874.65	47.28	33.32	3.74	42.43	0.71	42.63	54.00	-11.37	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11n HT20 TX (CH Middle)	TEMP& Humidity	25.2℃, 53%

Vertical

	TX / IEEE 8	TX / IEEE 802.11n HT20 mode / CH Middle					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)		
	1249.96	53.62	25.55	2.10	41.76	0.74	40.25	74.00	-33.75	Р		
	1249.96	49.06	25.55	2.10	41.76	0.74	35.69	54.00	-18.31	Α		
*	4874.06	53.89	33.32	3.74	42.43	0.71	49.24	74.00	-24.76	Р		
*	4874.06	47.85	33.32	3.74	42.43	0.71	43.19	54.00	-10.81	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11n HT20 TX (CH High)	TEMP& Humidity	25.2°ℂ, 53%

Horizontal

	TX / IEEE	TX / IEEE 802.11n HT20 mode / 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)	
	1249.98	55.46	25.55	2.10	41.76	0.74	42.09	74.00	-31.91	Р	
	1249.98	51.36	25.55	2.10	41.76	0.74	37.99	54.00	-16.01	Α	
*	4924.12	54.13	33.47	3.76	42.48	0.73	49.61	74.00	-24.39	Р	
*	4924.12	48.52	33.47	3.76	42.48	0.73	44.00	54.00	-10.00	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11n HT20 TX (CH High)	TEMP& Humidity	25.2°ℂ, 53%

Vertical

	TX / IEEE	802.11n H	T20 mod	e / CH High	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)	
	1250.02	52.67	25.55	2.10	41.75	0.74	39.31	74.00	-34.69	Р	
	1250.02	48.56	25.55	2.10	41.75	0.74	35.20	54.00	-18.80	Α	
*	4924.09	53.84	33.47	3.76	42.48	0.73	49.32	74.00	-24.68	Р	
*	4924.09	47.32	33.47	3.76	42.48	0.73	42.80	54.00	-11.20	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11n HT40 TX (CH Low)	TEMP& Humidity	25.2°ℂ, 53%

Horizontal

	TX / IEEE 802.11n HT40 mode / CH Low				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)	
	1250.03	56.23	25.55	2.10	41.75	0.74	42.87	74.00	-31.13	Р	
	1250.03	52.32	25.55	2.10	41.75	0.74	38.96	54.00	-15.04	Α	
*	4844.18	53.69	33.23	3.74	42.40	0.70	48.96	74.00	-25.04	Р	
*	4844.18	47.01	33.23	3.74	42.40	0.70	42.28	54.00	-11.72	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+ Mobile Router	Test Date	2010/11/20		
Model	BR182n	BR182n Test By			
Test Mode	IEEE 802.11n HT40 TX (CH Low)	TEMP& Humidity	25.2°ℂ, 53%		

Vertical

	TX / IEEE	TX / IEEE 802.11n HT40 mode / CH Low					Measurement Distance at 3m Vertical polar				
	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)	
	1250.04	52.39	25.55	2.10	41.75	0.74	39.03	74.00	-34.97	Р	
	1250.04	47.63	25.55	2.10	41.75	0.74	34.27	54.00	-19.73	Α	
*	4844.20	54.85	33.23	3.74	42.40	0.70	50.12	74.00	-23.88	Р	
*	4844.20	47.06	33.23	3.74	42.40	0.70	42.33	54.00	-11.67	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11n HT40 TX (CH Middle)	TEMP& Humidity	25.2°ℂ, 53%

Horizontal

	TX / IEEE 8	802.11n HT	T40 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)
	1250.01	56.03	25.55	2.10	41.75	0.74	42.67	74.00	-31.33	Р
	1250.01	52.60	25.55	2.10	41.75	0.74	39.24	54.00	-14.76	Α
*	4874.16	53.47	33.32	3.74	42.43	0.71	48.82	74.00	-25.18	Р
*	4874.16	47.66	33.32	3.74	42.43	0.71	43.01	54.00	-10.99	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11n HT40 TX (CH Middle)	TEMP& Humidity	25.2°ℂ, 53%

Vertical

	TX / IEEE 8	302.11n HT	40 mode /	CH Middle	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)
	1250.02	54.63	25.55	2.10	41.75	0.74	41.27	74.00	-32.73	Р
	1250.02	49.16	25.55	2.10	41.75	0.74	35.80	54.00	-18.20	Α
*	4873.86	53.50	33.32	3.74	42.43	0.71	48.84	74.00	-25.16	Р
*	4873.86	46.84	33.32	3.74	42.43	0.71	42.18	54.00	-11.82	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11n HT40 TX (CH High)	TEMP& Humidity	25.2°ℂ, 53%

Horizontal

	TX / IEEE	802.11n H	T40 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)
	1250.02	55.85	25.55	2.10	41.75	0.74	42.49	74.00	-31.51	Р
	1250.02	51.03	25.55	2.10	41.75	0.74	37.67	54.00	-16.33	Α
*	4903.86	54.36	33.41	3.75	42.46	0.72	49.78	74.00	-24.22	Р
*	4903.86	48.26	33.41	3.75	42.46	0.72	43.68	54.00	-10.32	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+ Mobile Router	Test Date	2010/11/20
Model	BR182n	Test By	John Chen
Test Mode	IEEE 802.11n HT40 TX (CH High)	TEMP& Humidity	25.2°ℂ, 53%

Vertical

	TX / IEEE	802.11n H	T40 mod	e / CH High	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)
	1249.99	54.21	25.55	2.10	41.76	0.74	40.84	74.00	-33.16	Р
	1249.99	48.23	25.55	2.10	41.76	0.74	34.86	54.00	-19.14	Α
*	4904.16	53.94	33.41	3.75	42.46	0.72	49.37	74.00	-24.63	Р
*	4904.16	46.47	33.41	3.75	42.46	0.72	41.90	54.00	-12.10	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.

8.6.4 RESTRICTED BAND EDGES

802.11b Mode

Channel	Polarity	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	Н	2390.00	58.66	74	-15.34	Peak
	Н	2390.00	45.75	54	-8.25	Average
	V	2390.00	57.84	74	-16.16	Peak
LOW	V	2390.00	45.33	54	-8.67	Average
	Н	2483.50	56.77	74	-17.23	Peak
	Н	2483.50	45.34	54	-8.66	Average
	V	2483.50	57.55	74	-16.45	Peak
HIGH	V	2483.50	45.13	54	-8.87	Average

Date of Issue: February 25, 2011

802.11g Mode

Channel	Polarity	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	Н	2390.00	58.56	74	-15.44	Peak
	Н	2390.00	46.23	54	-7.77	Average
	V	2390.00	57.83	74	-16.17	Peak
LOW	V	2390.00	45.36	54	-8.64	Average
	Н	2483.50	58.81	74	-15.19	Peak
	Н	2483.50	45.49	54	-8.51	Average
	V	2483.50	58	74	-16.00	Peak
HIGH	V	2483.50	45.37	54	-8.63	Average

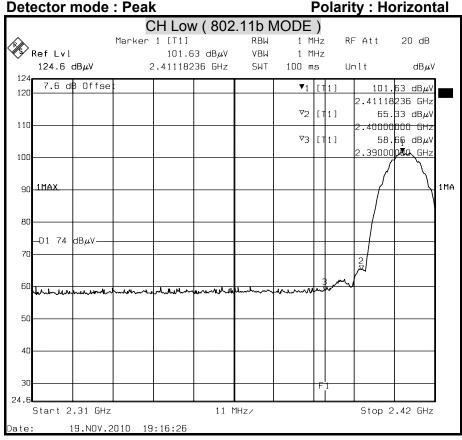
802.11n HT-20 Mode

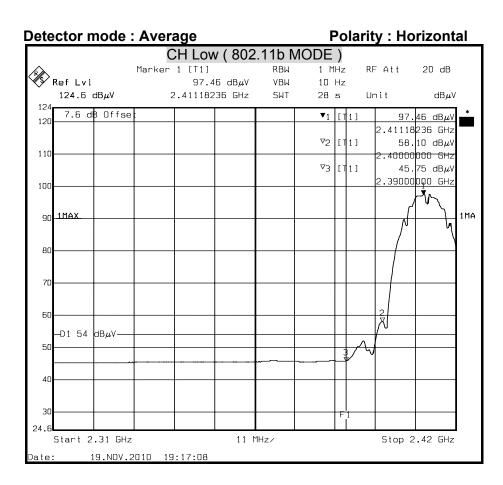
Channel	Polarity	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	Н	2390.00	58.84	74	-15.16	Peak
	Н	2390.00	45.89	54	-8.11	Average
	V	2390.00	57.7	74	-16.30	Peak
LOW	V	2390.00	45.46	54	-8.54	Average
	Н	2483.50	59.55	74	-14.45	Peak
	Н	2483.50	45.29	54	-8.71	Average
	V	2483.50	57.39	74	-16.61	Peak
HIGH	V	2483.50	45.36	54	-8.64	Average

802.11n HT-40 Mode

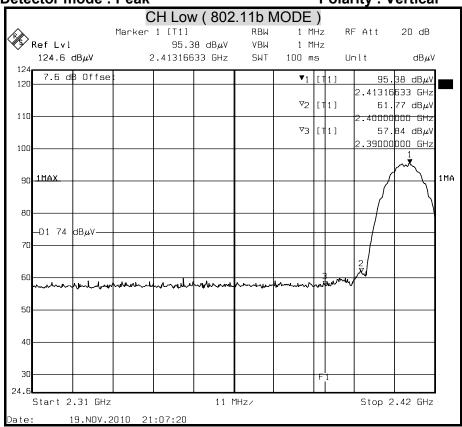
Channel	Polarity	Freq.(MHz)	Level(dBuV)	Limit(dBuV)	Margin(dB)	Detector
	Н	2390.00	58.8	74	-15.20	Peak
	Н	2390.00	46.12	54	-7.88	Average
	V	2390.00	57.66	74	-16.34	Peak
LOW	V	2390.00	45.40	54	-8.60	Average
	Н	2483.50	58.29	74	-15.71	Peak
	Н	2483.50	45.44	54	-8.56	Average
	V	2483.50	57.16	74	-16.84	Peak
HIGH	V	2483.50	45.47	54	-8.53	Average

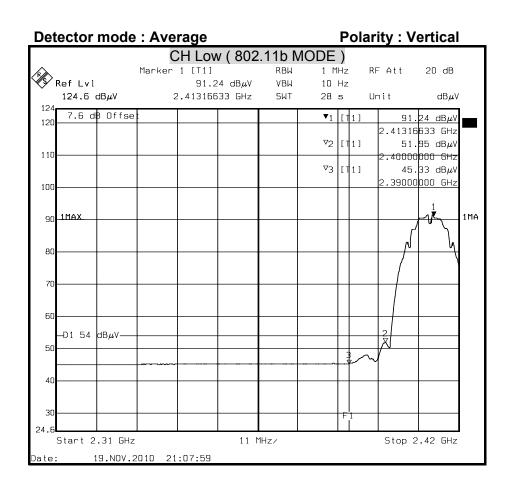
Polarity: Horizontal



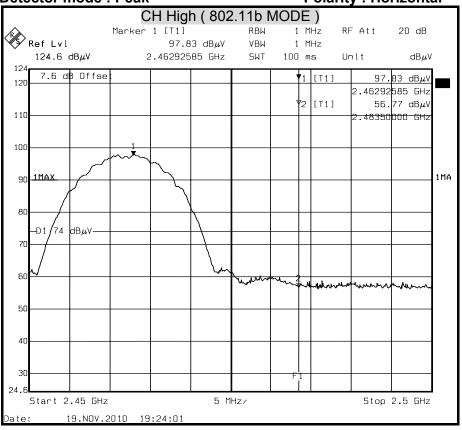


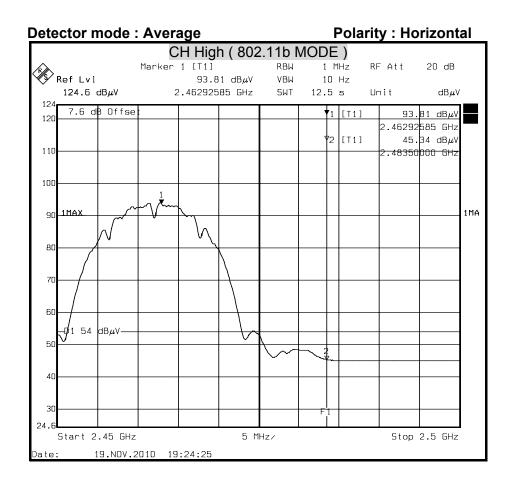
Detector mode : Peak Polarity : Vertical





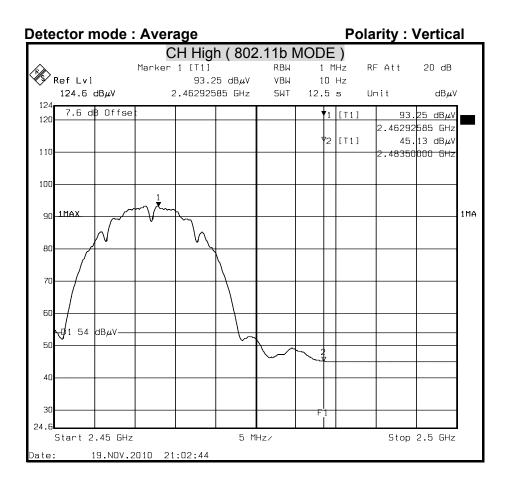
Detector mode: Peak Polarity: Horizontal



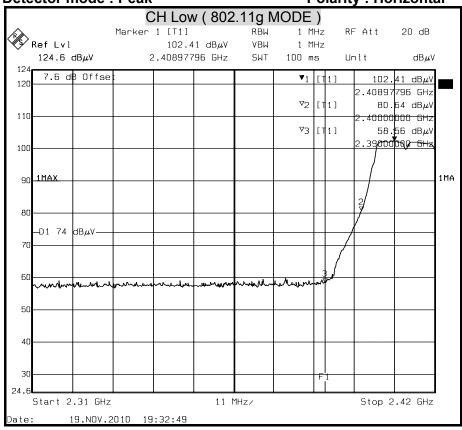


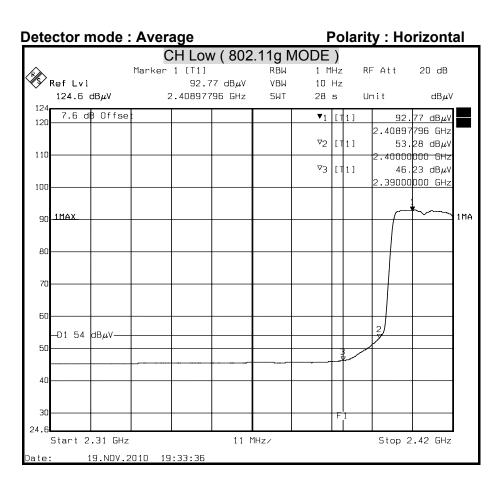
19.NOV.2010 21:02:10

Detector mode: Peak Polarity : Vertical CH High (802.11b MODE) 1 MHz RF Att Marker 1 [T1] Ref Lvl VBW 1 MHz 97.13 dB μ V 124.6 $dB\mu V$ 2.46292585 GHz SWT 100 ms $\mathrm{dB}\mu\mathrm{V}$ 7.6 dB Offse 1 [T1] 97.13 dBμV 2.46292585 GHz ♥2 [T1] 57.55 $dB\mu V$.48350<mark>000 GHz</mark> 100 1MAX 1MA 90 a٢ dBμV-74 60 Start 2.45 GHz 5 MHz/ Stop 2.5 GHz

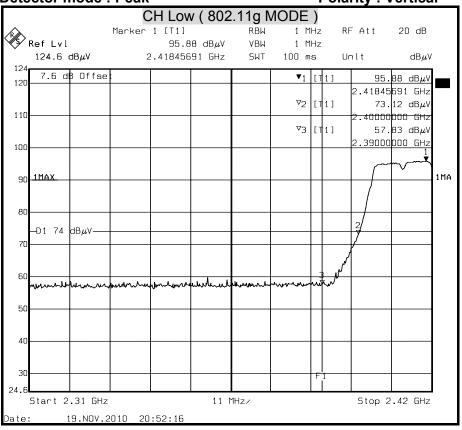


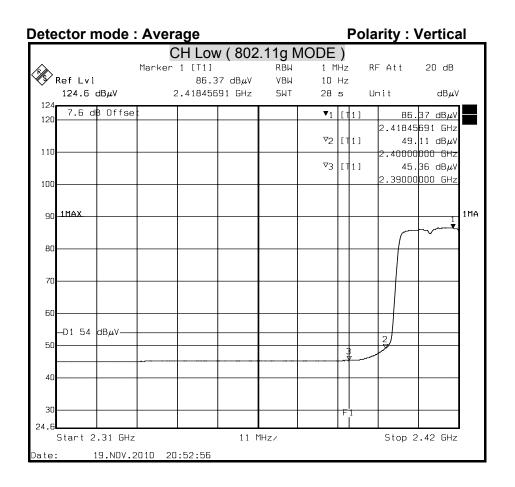
Detector mode : Peak Polarity : Horizontal



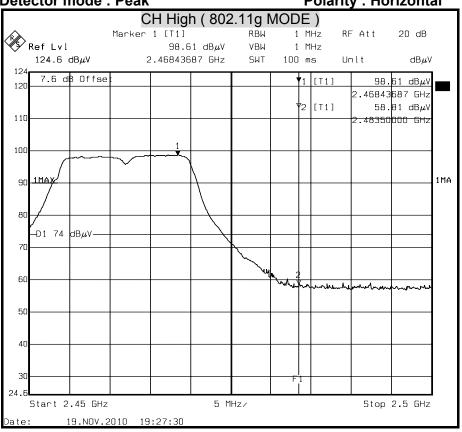


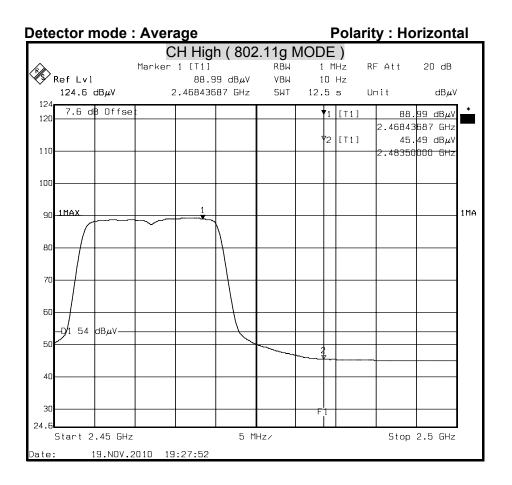
Detector mode : Peak Polarity : Vertical



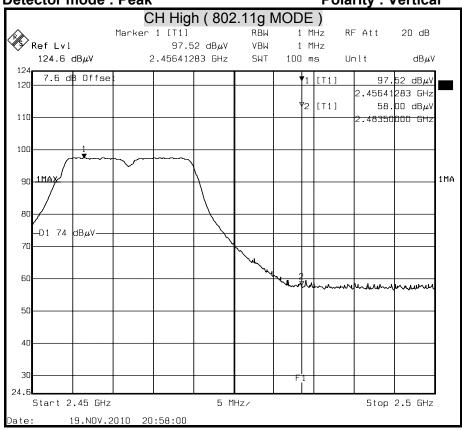


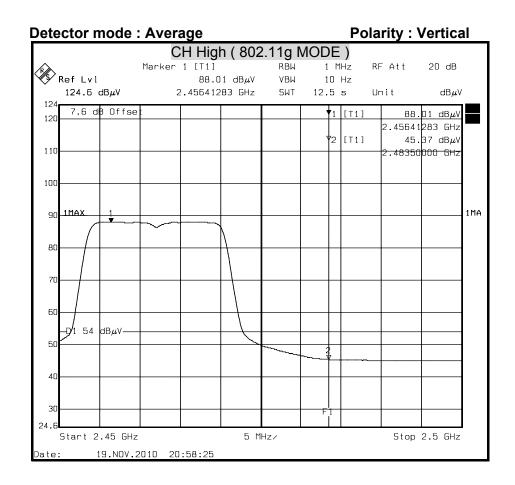
Detector mode: Peak Polarity: Horizontal



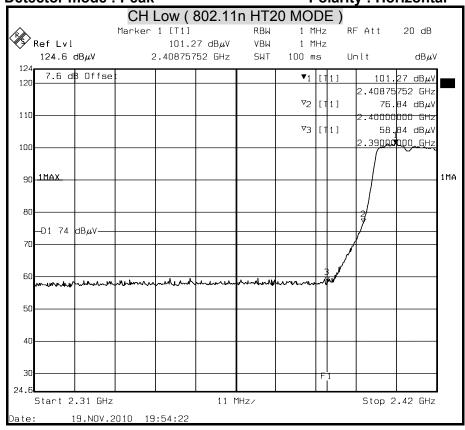


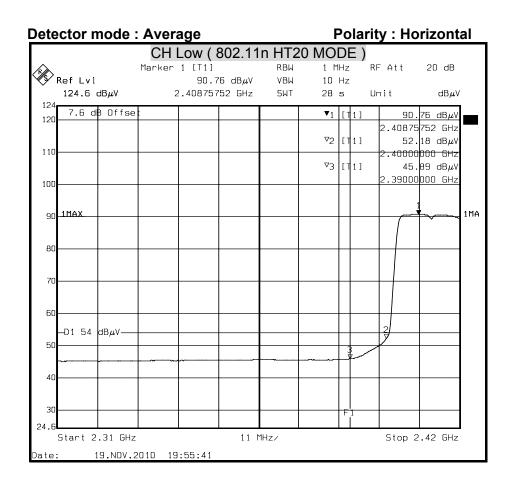
Detector mode: Peak Polarity : Vertical



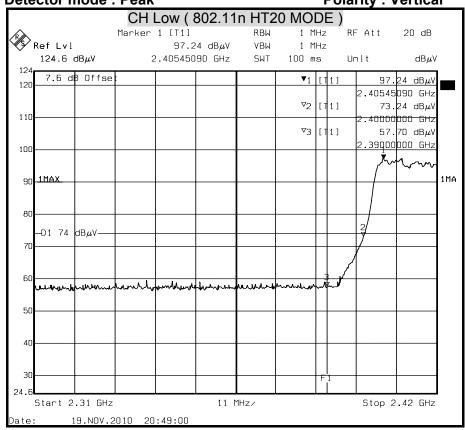


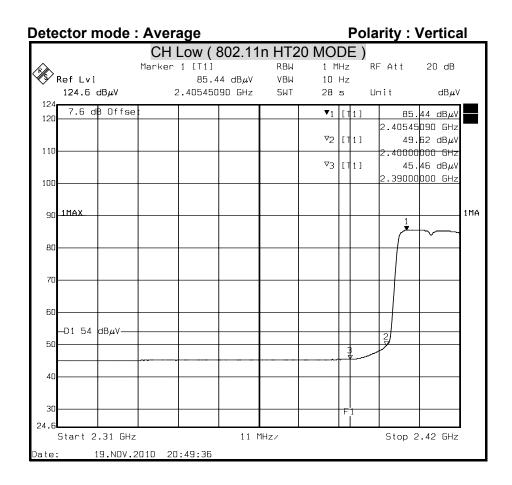
Detector mode : Peak Polarity : Horizontal



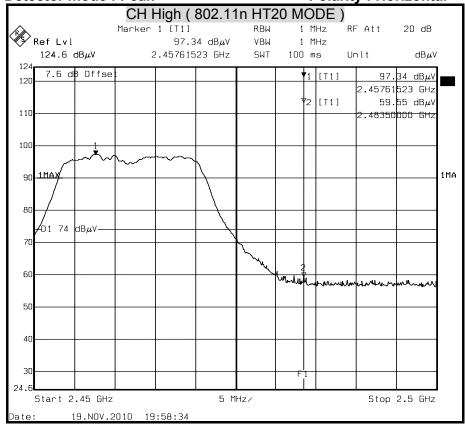


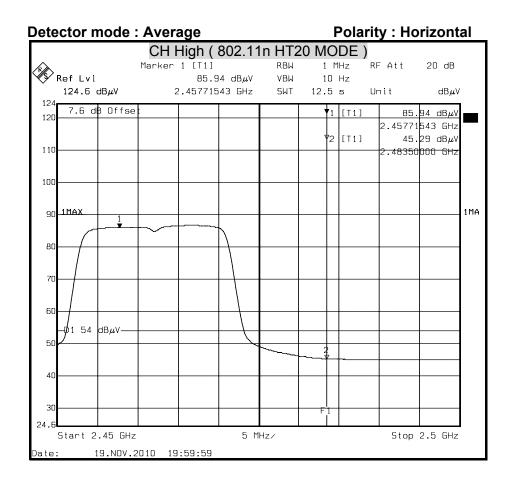
Detector mode : Peak Polarity : Vertical



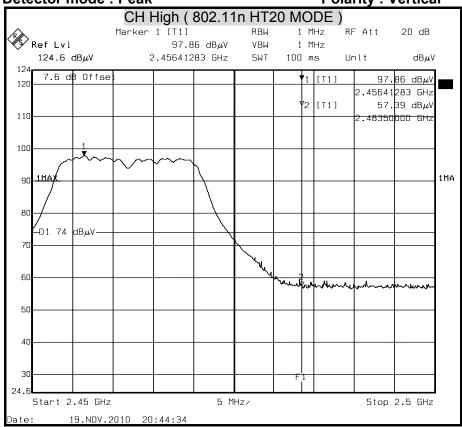


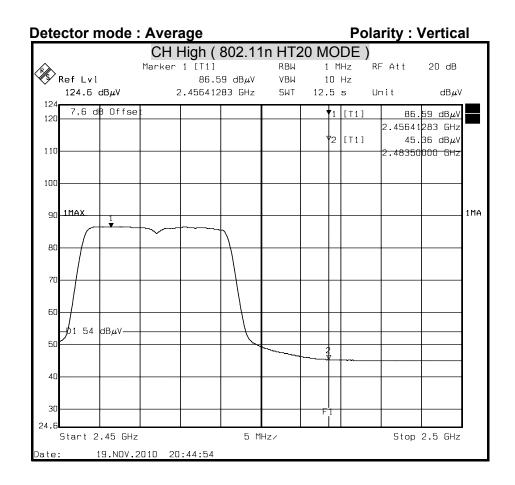
Detector mode : Peak **Polarity : Horizontal** CH High (802.11n HT20 MODE)



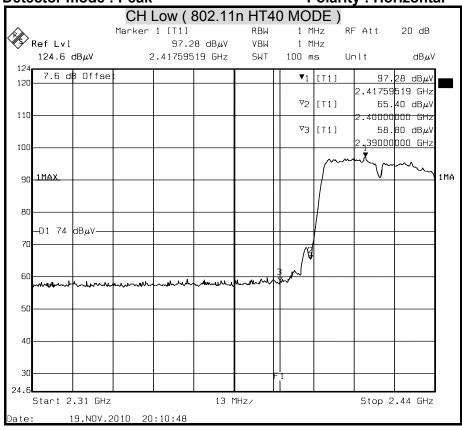


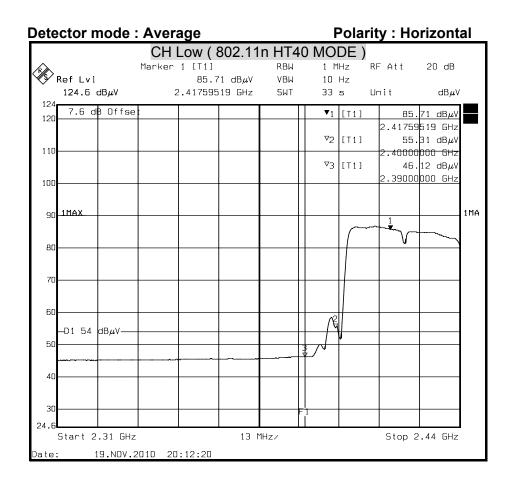
Detector mode : Peak **Polarity: Vertical**





Detector mode : Peak Polarity : Horizontal





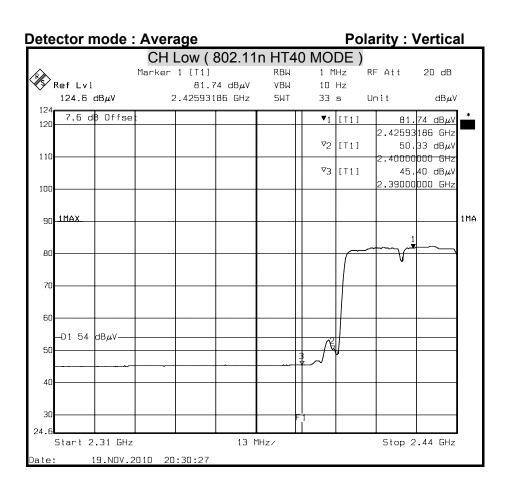
Start 2.31 GHz

19.NOV.2010 20:29:37

Detector mode: Peak Polarity: Vertical CH Low (802.11n HT40 MODE) 1 MHz RF Att 20 dB Marker 1 [T1] RBW Ref Lvl $93.42~\mathrm{dB}\mu\mathrm{V}$ ٧BW 1 MHz 124.6 $dB\mu V$ 2.42593186 GHz SWT 100 ms $dB\mu V$ Unit 7.6 dB Offse 93.42 dBμV 2.42593186 GHz **▼**1 [T1] ∇2 [T1] 62.24 dBμV .40000000 GHz ∇3 [T1] 57.66 dBμV .39000<mark>000 GHz</mark> 100 1MA 1MAX -D1 74 dBμV-

13 MHz/

Stop 2.44 GHz



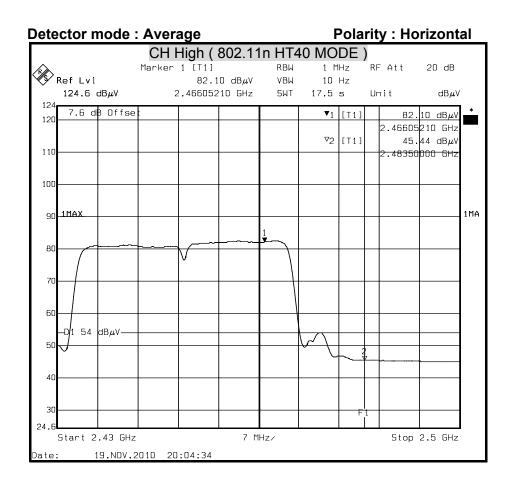
Start 2.43 GHz

19.NOV.2010 20:03:51

Detector mode : Peak **Polarity : Horizontal** CH High (802.11n HT40 MODE) Marker 1 [T1] 1 MHz RF Att Ref Lvl 92.94 $dB\mu V$ VBW 1 MHz 124.6 $dB\mu V$ 2.46605210 GHz SWT 100 ms $\mathrm{dB}\mu\mathrm{V}$ 7.6 dB Offse 92.94 dBμV 2.46605210 GHz ∇2 [T1] 58.29 $dB\mu V$ 110 . 48350<mark>000 GH</mark>z 100 1MA 90 a٢ 74 dBμV-70

7 MHz/

Stop 2.5 GHz



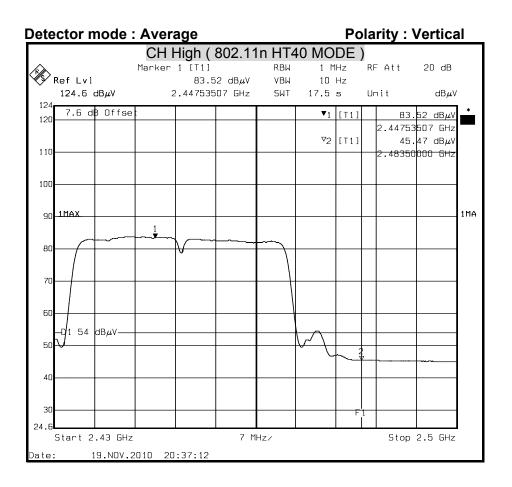
Start 2.43 GHz

19.NOV.2010 20:36:35

Detector mode : Peak **Polarity: Vertical** CH High (802.11n HT40 MODE) Marker 1 [T1] 1 MHz RF Att Ref Lvl ٧BW 1 MHz 94.79 dBµV 124.6 $dB\mu V$ 2.44753507 GHz SWT 100 ms $\mathrm{dB}\mu\mathrm{V}$ 7.6 dB Offse 94.79 dBμV 2.44753507 GHz ∇2 [T1] 57. 16 dBμV 110 . 48350<mark>000 GHz</mark> 100 1MA 90 a٢ /1 74 dBμV-

7 MHz/

Stop 2.5 GHz



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.

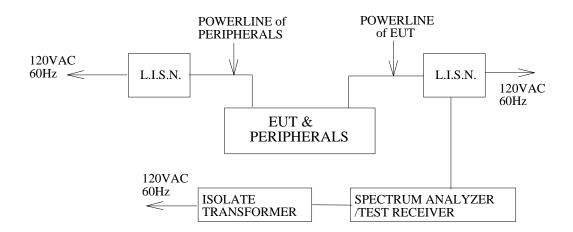
Frequency of Emission (MHz)	Conducted limit (dBµv)		
requeitey of Emission (Miliz)	Quasi-peak	Average	
0.15 - 0.5	66 to 56	56 to 46	
0.5 - 5	56	46	
5 - 30	60	50	

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.

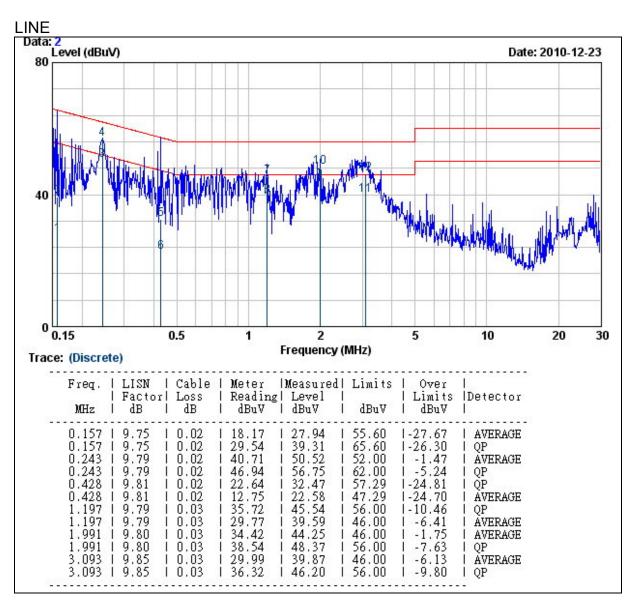
TEST RESULTS

No non-compliance noted.

CONDUCTED RF VOLTAGE MEASUREMENT

Product Name	N+ Mobile Router	Test Date	2010/12/23
Model	BR182n	Test By	Shiang Su
Test Mode	Normal operating (worst case)	TEMP& Humidity	24.4°C, 59%

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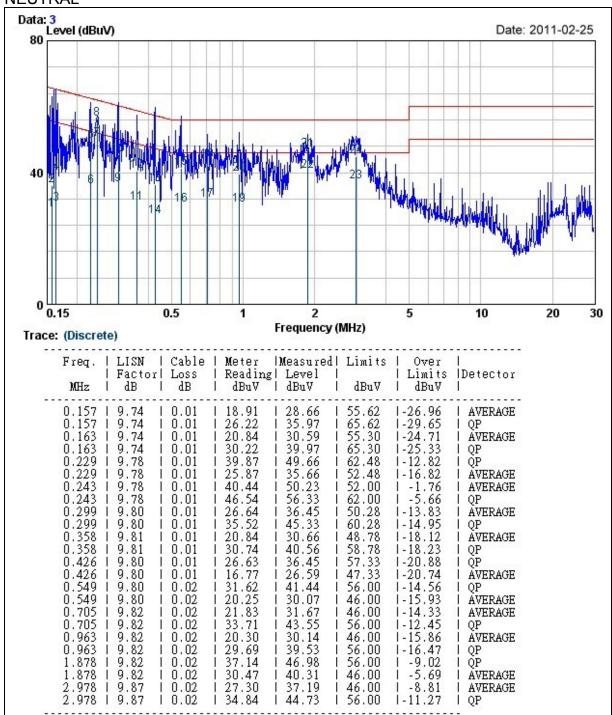


- 1. Correction Factor = Insertion loss + cable loss
- 2. Margin value = Emission level Limit value

Product
NameN+ Mobile RouterTest Date2011/2/25ModelBR182nTest ByShiang SuTest ModeNormal operating (worst case)TEMP&
Humidity24.4°C, 59%

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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

1)Built-in Antenna(×1)1TX1RX

Manufacture: XinXie Technology (SHENZHEN)co. Itd.

Model: L22-XY30507

Type: PCB Gain: 0 dBi

2)Built-in Antenna(×1)1TX1RX

Manufacture: BRITO TECHNOLOGY Model:EM-15

Type: PIFA Gain: 2 dBi