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Exhibit 6

Test Report

NextNet Wireless, Inc 9555 James Ave. South Suite 270 Bloomington, MN 55431

The NextNet Wireless 2.4 GHz base station (model BTS-2400-AV) has been tested for compliance to the FCC rules contained in 47CFR part 15.247 as of 20 August 2004.

FCC Rule Part	Description	Response
15.31(m)	Number of measurement frequencies	3 (low, middle, high)
15.215(c)	§ 15.215 Additional provisions to the general radiated emission limitations. (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.	Pass See pages 47-52
15.247	2400–2483.5 MHz, and 5725–5850 MHz.	
15.247(a)(2)	Systems using digital modulation techniques may operate in the 902–928 MHz, 2400– 2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.	Pass See pages 5-11
15.247(b)(3)	The maximum peak output power of the intentional radiator shall not exceed the following: For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.	Pass See pages 12-18
15.247(b)(4)(i)	Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi. Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas	Pass See page 12 Also see "Exhibit 8 Installation Manual".

	with directional gain greater than 6 dBi	
	provided the maximum peak output power of	
	the intentional radiator is reduced by 1 dB for	
	every 3 dB that the directional gain of the	
	antenna exceeds 6 dBi	
15.247(h)(4)(iii)	Fixed point to point operation as used in	Daga
13.247(0)(4)(111)	paragraphs (b)(3)(i) and (b)(3)(ii) of this	Fass
	section excludes the use of point to multipoint	
	systems omnidirectional applications and	See "Exhibit 8 Installation
	multiple co-located intentional radiators	Manual"
	transmitting the same information. The operator	
	of the spread spectrum intentional radiator or, if	
	the equipment is professionally installed, the	
	installer is responsible for ensuring that the	
	system is used exclusively for fixed, point-to-	
	point operations. The instruction manual	
	furnished with the intentional radiator shall	
	contain language in the installation instructions	
	informing the operator and the installer of this	
	responsibility.	
15.247(b)(5)	Systems operating under the provisions of	Pass
	this section shall be operated in a manner that	
	ensures that the public is not exposed to radio	See "Exhibit 11 RF
	frequency energy levels in excess of the	Exposure Information"
	Commission's guidelines. See §1.1307(b)(1)	
	of this chapter.	
15.247(c)	In any 100 kHz bandwidth outside the	Pass
RF Conducted	frequency band in which the spread spectrum	See pages 19-35
	or digitally modulated intentional radiator is	
	operating, the radio frequency power that is	
	produced by the intentional radiator shall be	
	at least 20 dB below that in the 100 kHz	
	bandwidth within the band that contains the	
	highest level of the desired power, based on	
	either an RF conducted or a radiated	
	measurement. Attenuation below the general	
	limits specified in §15.209(a) is not required.	
15.247(c)	In addition, radiated emissions which fall in	Pass
Radiated	the restricted bands, as defined in §15.205(a),	See pages 53-103
Emissions	must also comply with the radiated emission	
	limits specified in §15.209(a) (see	
	§15.205(c)).	
15.247(d)	For digitally modulated systems, the peak	Pass
	power spectral density conducted from the	See pages 36-46
	intentional radiator to the antenna shall not	
	be greater than 8 dBm in any 3 kHz band	
	during any time interval of continuous	
	transmission.	
15.247(e)	[Reserved]	Not Applicable
15.247(f)	hybrid systems	Not Applicable

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Exhibit 6 Test Report

15.247(g)	Frequency hopping spread spectrum systems	Not Applicable
15.247(h)	The incorporation of intelligence within a frequency hopping spread spectrum system	Not Applicable

Rule Part Number:	15.247(a)(2)				
	The minimum 6 dB bandwidth shall be at least 500 kHz.				
Test Procedure:	The RF output is applied to a spectrum analyzer through a self calibrated coax and attenuator(s). The spectrum analyzer is adjusted as follows: Fo = desired channel frequency RF span = 7 MHz Resolution bandwidth = 100 kHz Video bandwidth = 300 kHz. Sweep time = auto Detector = peak The peak signal is found. Markers are then adjusted to the -6dB point on either side of the peak signal level. The -6 dB bandwidth is then determined by adding the magnitude of the -6 dB frequency points. The external attenuation is included in the spectrum analyzer offset level. Measurements are performed for each of the modulation formats available, 4-QAM, 16-QAM, and 64-QAM. The Tx -6dB BW is measured at the RF connector on the PCB.				
Test Conditions:	Frequency = 2404, 2440, 2476 MHz Temperature = $25^{\circ}C$ Supply Voltage = 120 Vac / 60 Hz (19.5 VDC to BTS-2400-AV)				

Test Results:

-6dB BW (MHz)

Freq (MHz)	4-QAM	16-QAM	64-QAM
2404	5.544	5.544	5.572
2440	5.558	5.544	5.558
2476	5.544	5.558	5.558

Test Equipment:

DUT	NextNet Wireless Base (BTS-2400-AV)			
	# 24BTS00060304BTW04			
Spectrum Analyzer	Agilent E4440A			
	S/N: MY44022791			
	Calibrated on: 05/30/2004			
	Cal due: 05/30/2006			
Attenuator	Pasternak Corporation			
20 dB	Model: PE7016-20 (20 dB)			
	Calibrated by user			
Attenuator	Pasternak Corporation			
20 dB	Model: PE7005-20 (20 dB)			
	Calibrated by user			
Computer	Dell Inspiron 5000			
	Model: PPM			
	S/N: 000832RM-12961-04R-0441			
Ethernet Switch	D-Link			
	Model: DSS-5+			
	5 port 10/100Mbps			
	S/N: B205335003175			
Power Supply	Globetek			
-	Model: GT-21097-5024-4.5			
	19.5 Vdc / 2.56A Limited Power Source			
	S/N: 008968 23/04			







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Rule Part Number:	15.247(b)(3), 15.247(b)(4)(i) 1 Watt, power reduced to 0.5 watts for 15 dBi antenna (15 dBi - 6 dBi = 9 dBi above 6 dBi) Max power = 30 dBm-(9/3) = $30-3 = 27$ dBm = 0.5 watts
Test Procedure:	The RF output is applied to a spectrum analyzer through a self calibrated coax and attenuator(s). The maximum power output is measured per method #1 as described in Public Notice DA-02- 2138 from the FCC. The spectrum analyzer is adjusted as follows: Fo = desired channel frequency RF span = 6 MHz Resolution bandwidth = 1 MHz Video bandwidth = 3 MHz. Sweep time = auto Detector = sample (span/number of points < 0.5*RBW) (6e6/501 < 0.5*1e6 or 11,976 < 500,000) Trigger = Free run (100% TX duty cycle) Trace average = 100 Peak power is measured with the spectrum analyzer power measurement function. The external attenuation is included in the spectrum analyzer offset level. Measurements are performed for each of the modulation formats available, 4 QAM, 16 QAM, and 64 QAM. The Tx power for the 0.5 watt setting is measured at the RF connector on the PCB.
Test Conditions:	Frequency = 2404, 2440, 2476 MHz Temperature = $25^{\circ}C$ Supply Voltage = 120 Vac / 60 Hz (19.5 VDC to BTS-2400-AV)

Test Results:

Maximum Peak Power (dBm)

Freq (MHz)	4-QAM	16-QAM	64-QAM
2404	26.44	26.34	26.31
2440	26.26	26.23	26.21
2476	26.80	26.79	26.78

Test Equipment:

DUT	NextNet Wireless Base (BTS-2400-AV)				
	# 24BTS00060304BTW04				
Spectrum Analyzer	Agilent $F4440A$				
Speetrum Anaryzer	$S/N \cdot MV / A 022701$				
	S/10. 101144022791				
	Calibrated off. $05/50/2004$				
	Cal due: 05/30/2006				
Attenuator	Pasternak Corporation				
20 dB	Model: PE7016-20 (20 dB)				
	Calibrated by user				
Attenuator	Pasternak Corporation				
20 dB	Model: PE7005-20 (20 dB)				
	Calibrated by user				
Computer	Dell Inspiron 5000				
	Model: PPM				
	S/N: 000832RM-12961-04R-0441				
Ethernet Switch	D-Link				
	Model: DSS-5+				
	5 port 10/100Mbps				
	S/N: B205335003175				
Power Supply	Globetek				
	Model: GT-21097-5024-4.5				
	19.5 Vdc / 2.56A Limited Power Source				
	S/N: 008968 23/04				

Test Set-Up:





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Rule Part Number:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also				
	comply with the radiated emission limits specified in $\$15.209(a)$ (see $\$15.205(c)$).				
Test Procedure:	The RF output is applied to a spectrum analyzer through a self calibrated coax and attenuator(s). The spurious emissions at the antenna terminal are measured as per the guidelines found in "Guidance on Measurements for Digital Transmission Systems Section 15.247" found on the FCC web site. The spectrum analyzer is adjusted as follows: Fo = desired channel frequency RF span = varies MHz Resolution bandwidth = 100 kHz Video bandwidth = 300 kHz. Sweep time = varies Detector = peak below 1 GHz / average above 1 GHz Trigger = Free run (100% TX duty cycle) The external attenuation is included in the spectrum analyzer offset level. Measurements are performed with 4-QAM modulation. The Tx spurious for the 0.5 watt setting is measured at the RF connector on the PCB.				
Test Conditions:	Frequency = 2404, 2440, 2476 MHz Temperature = $25^{\circ}C$				
	Supply Voltage = $120 \text{ Vac} / 60 \text{ Hz} (19.5 \text{ VDC to BTS}-2400\text{-AV})$				

Test Equipment:

DUT	NextNet Wireless Base (BTS-2400-AV)
	# 24BTS00060304BTW04
Spectrum Analyzer	Agilent E4440A
-	S/N: MY44022791
	Calibrated on: 05/30/2004
	Cal due: 05/30/2006
Attenuator	Pasternak Corporation
20 dB	Model: PE7016-20 (20 dB)
	Calibrated by user
Attenuator	Pasternak Corporation
20 dB	Model: PE7005-20 (20 dB)
	Calibrated by user
Computer	Dell Inspiron 5000
	Model: PPM
	S/N: 000832RM-12961-04R-0441
Ethernet Switch	D-Link
	Model: DSS-5+
	5 port 10/100Mbps
	S/N: B205335003175
Power Supply	Globetek
	Model: GT-21097-5024-4.5
	19.5 Vdc / 2.56A Limited Power Source
	S/N: 008968 23/04

Test Setup



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30 MHz – 1 GHz

★ Agilent 11:36:24 Aug 18, 2004											
Ref30dBm #			#At	#Atten 10 dB					–40.74 dBm		
#Peak Log 10	Marke 297.7	r 00000	MHz-								
ab/ Offst	-40.7	4 dBm									
41.5 dB											
чD											
LaAv											
LAUA											
V1 S2											
53 FU A AA			1								
£ (f):	w.m.	mm	winder	monan	mannon	month	man	1 Mar Mar	mannon	mon	
FTun	- 1 - 1 - 1										
зwр											
Start 30.0 MHz Stop 1.000 0 GHz											
#Res B	#Kes BW 100 kHz#VBW 300 kHz#Sweep 5 s (501 pts)_										
2440 ľ	VIHZ	2	+-VAM								

30 MHz – 1 GHz



30 MHz – 1 GHz

🔆 Agilent 21:30:30 Aug 18, 2004 Mkr1 2.354 GHz Ref 30 dBm #Atten 10 dB -52.14 dBm #Avg Marker Log 2.354000000 GHz 10 -52.14 dBm dB/ Offst 41.5 dB PAvg V1 S2 \$3 FC A AA **£**(f): FTun 1 Swp Start 1.000 GHz Stop 2.450 GHz #Res BW 100 kHz #VBW 300 kHz #Sweep 5 s (501 pts)_ 2404 MHz 4-QAM

1 GHz – 2.450 GHz

🔆 Agilent 21:32:01 Aug 18, 2004 Mkr1 2.044 GHz Ref 30 dBm #Atten 10 dB -52.14 dBm #Avg Marker Log 2.044000000 GHz 10 -52.14 dBm dB/ Offst 41.5 dB PAvg V1 S2 \$3 FC A AA **£**(f): FTun 1 Swp Start 1.000 GHz Stop 2.450 GHz #Res BW 100 kHz #VBW 300 kHz #Sweep 5 s (501 pts)_ 2440 MHz 4-QAM

1 GHz – 2.450 GHz

🔆 Agilent 21:33:27 Aug 18, 2004 Mkr1 2.302 GHz Ref 30 dBm #Atten 10 dB -51.92 dBm #Avg Marker Log 2.302000000 GHz 10 -51.92 dBm dB/ Offst 41.5 dB PAvg V1 S2 \$3 FC A AA **£**(f): FTun Swp đ Start 1.000 GHz Stop 2.450 GHz #Res BW 100 kHz #VBW 300 kHz #Sweep 5 s (501 pts)_ 2476 MHz 4-QAM

1 GHz – 2.450 GHz

★ Agilent 21:23:18 Aug 18, 2004													
Ref 30	dBm #Atten 10 dB										–51.16 dBm		
#Avg Log	Marke	r annan	א כ <u>ח</u> ≁										
10 dB/ Offer	-51.1	6 dBm											
41.5 dB													
PAvg													
V1 S2													
S3 FC A AA													
£ (f): ETun											1		
Swp			·····										
Start 2.450 0 GHz							#\$#	Stop 3.000 0 GHz					
2404 MHz 4-QAM						ier h(2)_							

2.450 GHz – 3.0 GHz

★ Agilent 21:24:31 Aug 18, 2004										
Ref 30_dBm #At			Atten 10 dB					MKL -	-51.17 dBm	
#Avg Log	Marke	r annnn	0 CH							
10 dB/ Offer	-51.1	7 dBm								
41.5 dB										
PAva										
V1 S2										
S3 FC A AA										
£ (f): FTun										1
Swp										~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Start 2.450 0 GHz							Stop 3.000 0 GHz			
#Kes BW 100 KHZ #VBW 300 KHZ #Sweep 5 s (501 pts) 2440 MHz 4-QAM						s (501 pts)_				

2.450 GHz – 3.0 GHz



2.450 GHz – 3.0 GHz



3.0 GHz – 26.50 GHz



3.0 GHz – 26.50 GHz



3.0 GHz – 26.50 GHz



2.350 GHz – 2.500 GHz



2.350 GHz – 2.500 GHz



2.350 GHz - 2.500 GHz

Peak Power Spectral Density

Rule Part Number:	15.247(d) For digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Test Procedure:	The RF output is applied to a spectrum analyzer through a self calibrated coax and attenuator(s). The peak power spectral density at the antenna terminal is measured as per the guidelines found in "Guidance on Measurements for Digital Transmission Systems Section 15.247" found on the FCC web site.
The spectrum analyze	r is adjusted as follows: Fo = desired channel frequency RF span = 6 MHz Resolution bandwidth = 3 kHz Video bandwidth = 30 kHz. Sweep time = 2000 seconds Detector = peak The external attenuation is included in the spectrum analyzer offset level. Measurements are performed for each of the modulation formats available, 4 QAM, 16 QAM, and 64 QAM. The peak power spectral density for the 0.5 watt setting is measured at the RF connector on the PCB.
Test Conditions:	Frequency = 2404, 2440, 2476 MHz Temperature = $25^{\circ}C$ Supply Voltage = 120 Vac / 60 Hz (19.5 VDC to BTS-2400-AV)

Test Results:

Peak Power Spectral Density (dBm)

Freq (MHz)	4-QAM	16-QAM	64-QAM
2404	3.08	2.64	2.91
2440	2.65	2.77	2.94
2476	3.26	3.30	3.32
Test Equipment:

DUT	NextNet Wireless Base (BTS-2400-AV)
	# 24BTS00060304BTW04
Spectrum Analyzer	Agilent E4440A
-	S/N: MY44022791
	Calibrated on: 05/30/2004
	Cal due: 05/30/2006
Attenuator	Pasternak Corporation
20 dB	Model: PE7016-20 (20 dB)
	Calibrated by user
Attenuator	Pasternak Corporation
20 dB	Model: PE7005-20 (20 dB)
	Calibrated by user
Computer	Dell Inspiron 5000
	Model: PPM
	S/N: 000832RM-12961-04R-0441
Ethernet Switch	D-Link
	Model: DSS-5+
	5 port 10/100Mbps
	S/N: B205335003175
Power Supply	Globetek
	Model: GT-21097-5024-4.5
	19.5 Vdc / 2.56A Limited Power Source
	S/N: 008968 23/04

Test Setup



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Rule Part Number:	15.215(c)
	Stability Requirements: If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.
Test Procedure:	The local oscillator signal that drives the transmit modulator was lightly coupled onto an RF probe and applied to a spectrum analyzer. The frequency of the RF VCO was monitored and recorded for changes due to temperature change and input voltage. Measurements were performed with and with out a GPS attached.

Test Equipment:

DUT	NextNet Wireless Base (BTS-2400-AV)
	# 24BTS00060304BTW04
Spectrum Analyzer	Hewlett Packard
1 5	HP8563E
	S/N: 3221A00143
	Cal Date: 10-16-2003
	Cal Due: 10-16-2005
Attenuator(s)	Pasternak Corporation
2 x 20 dB	Model: PE7005-20 (20 dB)
	Calibrated by user
Computer	Dell Inspiron 5000
-	Model: PPM
	S/N: 000332RM-12561-93N-3144
Ethernet Switch	D-Link
	Model: DSS-5+
	5 port 10/100Mbps
	S/N: B205335003172
Power Supply	Globetek
	Model: GT-21097-5024-4.5
	19.5 Vdc / 2.56A Limited Power Source
	S/N: 008968 23/04
Multimeter	Fluke 87 III
	Voltmeter
	Calibration verified with
	HP 34401A Multimeter
	Cal Date: 08-03-2004
	Cal Due: 08-03-06
	S/N: 3146A58949
Variac	Lafeyette Radio Electronics Corp.
	NO. TR-115

Test Set-Up:



Test Results:

The BTS-2400-AV base station has adequate frequency stability to keep the fundamental emission within the ISM band.

Test Conditions:	Frequency = 2404, 2440, 2476 MHz
	Supply Voltage = 120 Vac (19.5 Vdc to BTS-2400-AV)

Test Results: Temperature Variation (no GPS)

Fo(Hz)=	240400000			244000000				
		Freq	Freq	Freq		Freq	Freq	Freq
Temp		Error	Error	Error		Error	Error	Error
(°C)	Freq (Hz)	(Hz)	(%)	(ppm)	Freq (Hz)	(Hz)	(%)	(ppm)
-40	2403993513	-6487	-0.00027	-2.70	2439993450	-6550	-0.00027	-2.68
-30	2403998112	-1888	-0.00008	-0.79	2439998088	-1912	-0.00008	-0.78
-20	2403998075	-1925	-0.00008	-0.80	2439998738	-1262	-0.00005	-0.52
-10	2403998725	-1275	-0.00005	-0.53	2439998713	-1287	-0.00005	-0.53
0	2403998775	-1225	-0.00005	-0.51	2439998763	-1237	-0.00005	-0.51
10	2403998400	-1600	-0.00007	-0.67	2439998388	-1612	-0.00007	-0.66
20	2403997662	-2338	-0.00010	-0.97	2439997625	-2375	-0.00010	-0.97
30	2403996975	-3025	-0.00013	-1.26	2439996800	-3200	-0.00013	-1.31
40	2403996750	-3250	-0.00014	-1.35	2439996713	-3287	-0.00013	-1.35
50	2403997162	-2838	-0.00012	-1.18	2439997125	-2875	-0.00012	-1.18
60	2403998650	-1350	-0.00006	-0.56	2439998638	-1362	-0.00006	-0.56

Fo(Hz)=	2476000000				
Temp (°C)	Freg (Hz)	Freq Error (Hz)	Freq Error (%)	Freq Error (ppm)	
-40	2475993037	-6963	-0.00028	-2.81	
-30	2475998100	-1900	-0.00008	-0.77	
-20	2475998725	-1275	-0.00005	-0.51	
-10	2475998700	-1300	-0.00005	-0.53	
0	2475998750	-1250	-0.00005	-0.50	
10	2475998363	-1637	-0.00007	-0.66	
20	2475997575	-2425	-0.00010	-0.98	
30	2475996900	-3100	-0.00013	-1.25	
40	2475996875	-3125	-0.00013	-1.26	
50	2475997088	-2912	-0.00012	-1.18	
60	2475998600	-1400	-0.00006	-0.57	

Test Conditions:	Frequency = 2404, 2440, 2476 MHz
	Supply Voltage = 120 Vac (19.5 Vdc to BTS-2400-AV)

Test Results: Temperature Variation (with GPS)

Fo(Hz)=	240400000				244000	0000		
Temp (°C)	Freq (Hz)	Freq Error (Hz)	Freq Error (%)	Freq Error (ppm)	Freq (Hz)	Freq Error (Hz)	Freq Error (%)	Freq Error (ppm)
-30	2403999942	-58	- 0.000002	-0.024	2439999967	-33	- 0.000001	-0.014
-20	2403999958	-42	- 0.000002	-0.017	2439999975	-25	- 0.000001	-0.010
-10	2404000075	75	0.000003	0.031	2440000033	33	0.000001	0.014
0	2404000100	100	0.000004	0.042	2440000100	100	0.000004	0.041
10	2404000100	100	0.000004	0.042	2440000100	100	0.000004	0.041
20	2404000108	108	0.000004	0.045	2440000092	92	0.000004	0.038
30	2404000108	108	0.000004	0.045	2440000108	108	0.000004	0.044
40	2404000108	108	0.000004	0.045	2440000108	108	0.000004	0.044
50	2404000108	108	0.000004	0.045	2440000108	108	0.000004	0.044
60	2404000108	108	0.000004	0.045	2440000108	108	0.000004	0.044

Fo(Hz)=	2476000000				
		Freq	Freq	Freq	
Temp		Error	Error	Error	
(°C)	Freq (Hz)	(Hz)	(%)	(ppm)	
-30	2476000033	33	0.000001	0.013	
-20	2476000017	17	0.000001	0.007	
-10	2476000075	75	0.000003	0.030	
0	2476000100	100	0.000004	0.040	
10	2476000108	108	0.000004	0.044	
20	2476000100	100	0.000004	0.040	
30	2476000108	108	0.000004	0.044	
40	2476000117	117	0.000005	0.047	
50	2476000108	108	0.000004	0.044	
60	2476000100	100	0.000004	0.040	

Test Conditions:	Frequency = 2404, 2440, 2476 MHz
	Temperature = 20° C
	No GPS
Test Results:	Supply Voltage Variation (102 – 138 Vac)

Fo(Hz)=		240400000					
Source		Frequency	Frequency	Frequency			
Voltage	Frequency	Error	Error	Error			
(VAC)	(Hz)	(Hz)	(%)	(ppm)			
102.0	2403998320	-1680	-0.000070	-0.699			
106.5	2403998327	-1673	-0.000070	-0.696			
111.0	2403998325	-1675	-0.000070	-0.697			
115.5	2403998327	-1673	-0.000070	-0.696			
120.0	2403998325	-1675	-0.000070	-0.697			
124.5	2403998325	-1675	-0.000070	-0.697			
129.0	2403998327	-1673	-0.000070	-0.696			
133.5	2403998327	-1673	-0.000070	-0.696			
138.0	2403998327	-1673	-0.000070	-0.696			

Fo(Hz)=		244000000					
Source Voltage (VAC)	Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)	Frequency Error (ppm)			
102.0	2439998294	-1706	-0.000070	-0.699			
106.5	2439998294	-1706	-0.000070	-0.699			
111.0	2439998297	-1703	-0.000070	-0.698			
115.5	2439998294	-1706	-0.000070	-0.699			
120.0	2439998292	-1708	-0.000070	-0.700			
124.5	2439998294	-1706	-0.000070	-0.699			
129.0	2439998294	-1706	-0.000070	-0.699			
133.5	2439998297	-1703	-0.000070	-0.698			
138.0	2439998294	-1706	-0.000070	-0.699			

Fo(Hz)=	2476000000			
Source Voltage (VAC)	Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)	Frequency Error (ppm)
102.0	2475998283	-1717	-0.000069	-0.693
106.5	2475998280	-1720	-0.000069	-0.695
111.0	2475998278	-1722	-0.000070	-0.695
115.5	2475998275	-1725	-0.000070	-0.697
120.0	2475998270	-1730	-0.000070	-0.699
124.5	2475998273	-1727	-0.000070	-0.697
129.0	2475998273	-1727	-0.000070	-0.697
133.5	2475998275	-1725	-0.000070	-0.697
138.0	2475998273	-1727	-0.000070	-0.697

Test Conditions:	Frequency = 2404, 2440, 2476 MHz
	Temperature = 20° C
	With GPS
Test Results:	Supply Voltage Variation (102 – 138 Vac)

Fo(Hz)=	240400000			
Source		Frequency	Frequency	Frequency
Voltage	Frequency	Error	Error	Error
(VAC)	(Hz)	(Hz)	(%)	(ppm)
102.0	2404000100	100	0.000004	0.042
106.5	2404000100	100	0.000004	0.042
111.0	2404000100	100	0.000004	0.042
115.5	2404000100	100	0.000004	0.042
120.0	2404000100	100	0.000004	0.042
124.5	2404000100	100	0.000004	0.042
129.0	2404000100	100	0.000004	0.042
133.5	2404000100	100	0.000004	0.042
138.0	2404000100	100	0.000004	0.042

Fo(Hz)=	244000000			
Source		Frequency	Frequency	Frequency
Voltage	Frequency	Error	Error	Error
(VAC)	(Hz)	(Hz)	(%)	(ppm)
102.0	2440000100	100	0.000004	0.041
106.5	2440000108	108	0.000004	0.044
111.0	2440000108	108	0.000004	0.044
115.5	2440000108	108	0.000004	0.044
120.0	2440000108	108	0.000004	0.044
124.5	2440000108	108	0.000004	0.044
129.0	2440000108	108	0.000004	0.044
133.5	2440000108	108	0.000004	0.044
138.0	2440000108	108	0.000004	0.044

Fo(Hz)=	2476000000			
Source Voltage (VAC)	Frequency (Hz)	Frequency Error (Hz)	Frequency Error (%)	Frequency Error (ppm)
102.0	2476000100	100	0.000004	0.040
106.5	2476000100	100	0.000004	0.040
111.0	2476000100	100	0.000004	0.040
115.5	2476000100	100	0.000004	0.040
120.0	2476000100	100	0.000004	0.040
124.5	2476000100	100	0.000004	0.040
129.0	2476000100	100	0.000004	0.040
133.5	2476000100	100	0.000004	0.040
138.0	2476000100	100	0.000004	0.040

Field strength of spurious radiation

Rule Part Number: 15.33(a), 15.247(c)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Frequency Range = 30 MHz to 26.5 GHz

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

Test Procedure: The field strength of spurious radiation was measured at an open area test site with applicable measurement antennas, low noise amplifiers, and spectrum analyzers. Measurements were performed by TUV Product Service Inc – Taylors Falls on August 3rd and 4th, 2004. Spurious signals were maximized for peak level by rotation of the test unit and elevation of the measurement antenna. Identified spurious signals between 30 MHz and 1000 MHz are measured with a 120 kHz/6 dB bandwidth and quasi-peak detection. Spurious signals above 1000 MHz are measured with a 1 MHz / 6 dB bandwidth and peak detection. Exhibit 6 Test Report

Field strength of spurious radiation

Test Conditions:	Frequency: 2404, 2440, 2476 MHz
	Tx power set for 0.5 watts
	Temperature = $23^{\circ}C$
	Supply Voltage = 120 Vac / 60 Hz (19.5 VDC to BTS-2400-AV)

Test Equipment: NextNet Wireless, Inc.

DUT	NextNet Wireless Base (BTS-2400-AV)
	# 24BTS00060304BTW04
Computer	Dell Inspiron 5000
	Model: PPM
	S/N: 000832RM-12961-04R-0441
Ethernet Switch	D-Link
	Model: DSS-5+
	5 port 10/100Mbps
	S/N: B205335003175
Power Supply	Globetek
	Model: GT-21097-5024-4.5
	19.5 Vdc / 2.56A Limited Power Source
	S/N: 008968 23/04

Test Data attached to end of report.

Conducted Limits

Rule Part Number:	15.33(a), 15.207(a) Except as shown in paragraphs (b intentional radiator that is designed utility (AC) power line, the radio conducted back onto the AC pow frequencies, within the band 150 the limits in the following table, a ohms line impedance stabilization with the provisions of this paragr measurement of the radio frequer line and ground at the power term the boundary between the frequer Frequency Range = 150 kHz to 3 Conducted limit (dBmV)	S(a), 15.207(a) pt as shown in paragraphs (b) and (c) of this section, for an tional radiator that is designed to be connected to the public y (AC) power line, the radio frequency voltage that is ucted back onto the AC power line on any frequency or encies, within the band 150 kHz to 30 MHz, shall not exceed mits in the following table, as measured using a 50 µH/50 the provisions of this paragraph shall be based on the urement of the radio frequency voltage between each power and ground at the power terminal. The lower limit applies at oundary between the frequency ranges.		
	Frequency of emission (WHZ)	Quasi paak	Avorago	
	0 15-0 5	$66 \text{ to } 56^{*}$	$56 \text{ to } 46^{*}$	
	0.5-5	56	46	
	5-30	60	50	
	*Decreases with the logarithm of the frequency.			
Test Procedure:	The radio frequency voltage that power mains was measured using stabilization network (LISN). Me TUV Product Service Inc – Taylo	is conducted back i g a 50 μH/50 ohms casurements were pors Falls on August	nto the AC line impedance erformed by 3^{rd} and 4^{th} .	

Test Equipment: NextNet Wireless, Inc.

DUT		
DUT	NextNet Wireless Base (BTS-2400-AV)	
	# 24BTS00060304BTW04	
Computer	Dell Inspiron 5000	
	Model: PPM	
	S/N: 000832RM-12961-04R-0441	
Ethernet Switch	D-Link	
	Model: DSS-5+	
	5 port 10/100Mbps	
	S/N: B205335003175	
Power Supply	Globetek	
	Model: GT-21097-5024-4.5	
	19.5 Vdc / 2.56A Limited Power Source	
	S/N: 008968 23/04	

Test Data attached to end or report.



TEST RESULT SUMMARY FCC PART 15 SUBPART C Section 15.247 Spurious radiated emissions (electric field, restricted bands) FCC PART 15 SUBPART C Section 15.207 Conducted Emission Requirements MANUFACTURER'S NAME NextNet Wireless, Inc. NAME OF EQUIPMENT Expedience TYPE OF EQUIPMENT ISM Base Site Equipment MODEL NUMBER 900-0046-1XXX MANUFACTURER'S ADDRESS 9555 James Avenue South, Suite 270 Bloomington, MN 55431 TEST REPORT NUMBER WC403349.1 TEST DATE 03 & 04 August 2004 According to testing performed at TÜV Product Service Inc, the above-mentioned unit is in compliance with the electromagnetic compatibility requirements defined in FCC Part 15 Subpart C Section 15.207 and with the spurious radiated emissions requirements of FCC Part 15 Subpart C Section 15.247. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained. TÜV Product Service Inc, as an independent testing laboratory, declares that the equipment tested as specified above conforms to the requirements of FCC Part 15 Subpart C Section 15.207 and the spurious radiated emissions requirements of FCC Part 15 Subpart C Section 15.247. Date: 08 September 2004 fC Sausan Thomas K. Swamon Location: Taylors Falls MN J. C. Sausen T. K. Swanson USA Tested By Reviewed By Not Transferable



EMC EMISSIO	N-TEST REPORT			
Test Report File No.	: WC403349.1 Date of issue: 08 September 2004			
Model No.	900-0046-1XXX	_		
Product Name	: Expedience	_		
Product Type	: ISM Base Site Equipment	_		
Applicant	: NextNet Wireless, Inc.	_		
Manufacturer	: NextNet Wireless, Inc.	_		
License holder	: NextNet Wireless, Inc.	_		
Address	: 9555 James Avenue South, Suite 270	_		
	Bloomington, MN 55431	_		
Test Result	E Positive □ Negative			
Test Project Number Reference(s)	WC403349.1			
Total pages including Appendices	47			
TÜV Product Service Inc is a subc	ntractor to TÜV Product Service, GmbH according to the principles outlined in ISO/IEC Guide 25 and			
TOV Product Service Inc reports apply only to the specific samples tested under stated test conditions. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. TOV Product Service inc shall have no liability for any deductions, inferences or generalizations drawn by the client or others				
This report is the confidential property of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test report shall not be reproduced except in full without our written approval. This report shall not be used by the client to claim product endorsement by NVL AP can avagence or the LIS government.				
TDV Product Service Inc and its professional staff hold government and professional organization certifications and are members of AAMI, ACIL, AEA, ANSI, IEEE, NVLAP, and VCCI				
TÜV PRODUCT SERVICE INC 19333 V	File No. WC403349.1, Page 1 (ild Mountain Road Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fax: 651 638 0298 Rev	of 13 .No 1.0		



	DIRE	CTORY - EMISSI	ONS
A)	Documentation		Page(s)
	Test report		1 - 10
	Directory		2
	Test Regulations		3
	Deviations from standard / Summary		11
	Test-setups (Photos)		12 - 13
	Test-setup (drawing)		Appendix A
B)	Test data		
	6 dB Bandwidth [15.247 (a)(2)]		9
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	Antenna Directional Gain [15.247 (b)(3)(i)]	9
	Peak Power Spectral Density [15.247 (d)]		9
	FCC 15.207 - Conducted emissions	150 kHz – 30 MHz	5, 10
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C)	Appendix A		
	Test Data Sheets and Test Setup Drawing	g(s)	A1 – A24
D)	Appendix B		
	Constructional Data Form(s) and/or Produ	uct Information Form(s)	B1 – B8
E)	Appendix C		
	Measurement Protocol		<u>C1 - C2</u>
TÜV PR	ODUCT SERVICE INC 19333 Wild Mountain Road	Taylors Falls MN 55084-1758	File No. WC403349.1, Page 2 of 13 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0

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			PRODUCT SERVICE
EMISSIONS TEST	REGULATIONS ·		
	(
The emissions tests	were performed accord	ling to following regulations:	
□ - EN 50081-1 / 1991 □ - EN 55011 / 1998 w/Amendment A □ - EN 55013 / 1990 □ - EN 55014 / 1987	1:1999	□ - Group 1 □ - Class A □ - Household applian	□ - Group 2 □ - Class B ces and similar
		□ - Portable tools □ - Semiconductor dev	vices
□ - EN 55014 / A2:199 □ - EN 55014 / 1993	ю	□ - Household applian □ - Portable tools □ - Semiconductor dev	ces and similar vices
EN 55015 / 1987 - EN 55015 / A1:199	0		
□ - EN 55015 / 1993 □ - EN 55022 / 1987 ■ - FCC Part 15 Subpa ■ - FCC Part 15 Subpa	art C Section 15.247 – Sp art C Section 15.207 Con	□ - Class A purious Radiated Emissions (Elec iducted Emission Requirements	□ - Class B tric Field – Restricted Bands)
TÜV PRODUCT SERVICE INC	19333 Wild Mountain Road	Taylors Falls MN 55084-1768 Tel:	File No. WC403349.1, Page 3 of 13 661 638 0297 Fax: 661 638 0298 Rev.No 1.0

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	PRODUCT SERV	ICE
Environmental condition	ns in the lab:	٦
Temperature Relative Humidity Atmospheric pressure Power supply system	<u>Actual</u> : 23 °C : 65 % : 99.0 kPa : 60 Hz – 115 VAC – 1 Phase	
Sign Explanations:		
 □ - not applicable ■ - applicable 		
TÜV PRODUCT SERVICE INC 19333 Wi	File No. WC403349.1, Page 4 of Ild Mountain Road Taylors Falls MN 55084-1768 Tel: 851 638 0297 Fax: 851 638 0298 Rev.N	f 13 4o 1.0



Emissions Test Con	ditions: CONDUC	TED EMISSIONS (In	terference Voltag	ge)	
The Conducted Emission	IS (INTERFERENCE VOLTA	GE) measurements we	re performed at th	e following test l	ocation:
- Test not applicable					
 ■ - Wild River Lab Large □ - Wild River Lab Small □ - Oakwood Lab (Open A □ - Wild River Lab Screen □ - New Brighton Lab Shi 	Test Site (Open Area Tr Test Site (Open Area Tr Area Test Site) n Room ielded Room	est Site) est Site)			
Test equipment used: TUV ID Model Nun	nber Manufacturer	Descripti	on Se	rial Number Cal I	Due
 2416 3825/2 2534 ESHS-20 Cal Code B = Calibration verifica 	Electro-Mechani Rhode & Schwa	rz EMCO) 50 Ω LISI rz EMI Rece Cal Code Y = Calibration no	N 881 eiver 837 t required when used wit	12-1437 Code 7055/003 14-J th other calibrated equi	e B an-05 ipment.
All measurement instrume calibrated annually.	entation is traceable to t	he National Institute of S	itandards and Tech	nology (NIST) and	lis
The RADIATED EMISSIONS	(MAGNETIC FIELD) meas	U EMISSIONS (Mag	netic Field) ned at the followin	ng test location:	
- Test not applicable					1
□ - Wild River Lab Large □ - Wild River Lab Small □ - Oakwood Lab (Open J	Test Site (Open Area T Test Site (Open Area T Area Test Site)	est Site) est Site)			
at a test distance of :					
□ - 3 meters □ - 30 meters					
TÜV PRODUCT SERVICE INC 18	9333 Wild Mountain Road	Taylors Falls MN 55084-1758	File No. Tel: 651 638 0297	WC403349.1, Pag Fax: 651 638 0298	ge 5 of 13 Rev.No 1.0



Em	issions	Test Conditio	ns: RADIATED E	MISSIO	NS (Electric F	ield)		
The test	RADIATED ed in a ho	ว Emissions (Elec prizontal and ver	TRIC FIELD) measure tical polarization at	ments, in the follow	the frequency r ing test locatio	ange of 30 n:	MHz-1000 MHz	, were
□ -	Test not a	applicable						
■ - \ □ - □ -	Wild River Wild River Oakwood	r Lab Large Test S r Lab Small Test S Lab (Open Area T	Site (Open Area Test Site (Open Area Test Test Site)	Site) – NS/ Site)	A measurements	s made 2-03	3, due 2-05.	
at a	test dista	ance of :						
■ - □ - □ -	3 meters 10 meters 30 meters	3						
Tes	t equipme	ent used: Model Number	Manufacturor		Description		Social Number	Cal Duo
I -	3204	EM-6917B	Electro-Metrics		Biconicalog Per	riodic	102	24-Oct-
∎-	8052	8566B	Hewlett-Packard		Spectrum Analy	yzer	2115a00853	04 17-Oct-
∎ -	8051	85662A	Hewlett-Packard		Analyzer Displa	ay	2112A02220	17-Oct-
•	2682	85650A	Hewlett-Packard		Quasi-Peak Ad	apter	2811A01127	04 23-Feb-
∎ - Cal C	2668 ode B = Cal	8447D libration verification pe	Electro-Mechanics	(EMCO) al Code Y = 0	Preamplifier Calibration not requir	ed when used	1937A02209 with other calibrated	Code B equipment.
All n calib Em	neasurem orated ann	ent instrumentatio nually. Test Conditio	on is traceable to the	National In	stitute of Standa	ards and Teo	chnology (NIST)	and is
The inte	INTERFER rface cab	емсе Роwея mea les in the freque	surements were pe ncy range 30 MHz -	rformed by 300 MHz a	y using the abs at the following	orbing clan test locatio	np on the mains on :	s and
. -	Test not a	applicable						
	Wild Rive Wild Rive Oakwood Wild Rive New Brigh	r Lab Large Test 5 r Lab Small Test 5 Lab (Open Area ⁻ r Lab Screen Roo nton Lab Shielded	Site (Open Area Test Site (Open Area Test Test Site) m Room	Site) Site)				
ŪV PR	ODUCT SER	WICE INC 19333 Wi	ld Mountain Road Tay	iors Falls MN	55084-1758 Te	File No	 b. WC403349.1, Fax: 651 638 02 	Page 6 of 13 98 Rev.No 1.



Emissions Test	t Conditio	ns: RADIATED	EMISSIO	NS (Electric F	ield)		
The Equivalent RA horizontal and ver	adiated Emis tical polariz	sions measuremen ation at the follow	nts in the fr ing test loc	equency range ation:	1 GHz – 12	.4 GHz were pe	erformed in a
□ - Test not applic	able						•
■ - Wild River Lab I	Large Test S	ite (Open Area Tes	t Site)				
□ - Wild River Lab □ - Oakwood Lab (□ - Wild River Lab	Small Test S Open Area T Screen Roor	ite (Open Area Tes ſest Site) ຠ	t Site)				
at a test distance (of:						
□ - 1 meters ■ - 3 meters □ - 10 meters							
Test equipment us	sed:						
TÚV ID Mod	el Number	Manufacturer		Description		Serial Number	Cal Due
■- 8052 8568	ъВ	Hewlett-Packard		Spectrum Analy	zer	2115a00853	17-Oct- 04
■ - 8051 856€	52A	Hewlett-Packard		Analyzer Displa	iy	2112A02220	17-Oct- 04
■ 2682 856§	50A	Hewlett-Packard		Quasi-Peak Ad	apter	2811A01127	23-Feb- 05
■- 3957 SL18 ■- 2075 3118	8B4020 5	Phase One Microw Electro-Mechanics	wave s (EMCO)	Preamplifier 1 - Ridge Guide Ar	- 18 GHz nt. 1-18	0001 9001-3275	Code B 19-Nov-
Cal Code B = Calibration	verification per	formed internally.	Cal Code Y = C	Calibration not requir	ed when used	with other calibrated	04 l equipment.
All measurement in calibrated annually.	strumentatio	n is traceable to the	e National In	stitute of Standa	rds and Teo	chnology (NIST)	and is
					File Ma	WC402240.4	Dage 7 of 12
TÜV PRODUCT SERVICE I	NC 19333 Wil	d Mountain Road Ta	aylors Falls MN	55084-1758 Te	el: 651 638 0297	7 Fax: 651 638 02	98 Rev.No 1.0



Equipment Under Test (El	JT) Test Operation Mode - Emission tests :
The device under test was oper	rated under the following conditions during emissions testing:
□ - Standby	
□ - Test program (H - Pattern)	
- Test program (color bar)	
- Test program (customer specification)	sific)
- Practice operation	
□ - Normal Operating Mode	
 Base site transmit. FCC Part Base site receive. FCC Part 1 	15C 15B
Configuration of the dealer	dur tanta
Configuration of the device und	ler test:
See Constructional Data Form	n in Appendix B - Page B2
See Product Information Form	n in Appendix B - beginning on Page B3
The following peripheral device	es and interface cables were connected during the measurement:
o	Type :
D	Type :
D	Туре :
D	Туре :
D	Type :
D	Туре :
□	Type :
□	Туре :
 unshielded power cable 	
 unshielded cables 	
- shielded cables	MPS.No.:
- customer specific cables	
U	
	File No. WC/033/9.1. Page 8 of 1
JV PRODUCT SERVICE INC 19333 Wild	Mountain Road Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No

		PRODUCT SERVICE
Emission Test Results:		
6 dB Bandwidth [15.247 (a)(2)]		
The requirements are	🗆 - MET	- NOT MET
The minimum 6 dB bandwidth shall be at least 50	0 kHz.	
Remarks: Test not performed at this time.		
Peak Power Out [15.247 (b)]		
The requirements are	🗆 - MET	- NOT MET
Maximum peak power output shall be 1 watt.		
Remarks: Test not performed at this time.		
Antenna Directional Gain [15.247 (b)(3)(i)]		
The requirements are	D - MET	- NOT MET
The antenna directional gain is less than 6 dBi. F	or antennas with direction	nal gain greater than 6 dBi the
maximum peak output power is reduced by 1 dB f	or every 3 dB that the dire	ectional gain is over 6 dBi.
Remarks: Test not performed at this time.		
Peak Power Spectral Density – [15.247 (d)]		
The requirements are	- MET	- NOT MET
Peak power spectral density shall not be greater t	han 8 dBm in any 3 kHz b	pand.
Remarks: Test not performed at this time.		
		File No. WC403349.1, Page 9 of 13
TÜV PRODUCT SERVICE INC 19333 Wild Mountain Road	Taylors Falls MN 55084-1758	Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0



Emission rest Results Continued.			
FCC 15.207 - Conducted emissions 150 kHz	- 30 MHz		
i ne requirements are			
Minimum margin of compliance	<u> </u>	at <u>153.6</u> KHZ	
Maximum margin of non-compliance	dB	at MHz	
Remarks:			
Spurious radiated emissions (electric field)	30 MHz - 1000 MHz (restrie	cted bands)	
The requirements are	- MET	- NOT MET	
Minimum margin of compliance	4 dB	at <u>336.0</u> MHz	
Maximum margin of non-compliance	dB	at MHz	
Remarks:			
Spurious conducted emissions 30 MHz – 25	GHz		
The requirements are	- MET	- NOT MET	
Minimum margin of compliance	dB	at MHz	
Maximum margin of non-compliance	dB	at MHz	
Remarks: Test not performed at this time.			
Equivalent Radiated emissions 1 GHz – 12.4	GHz (restricted bands)		
The requirements are	- MET	- NOT MET	
Minimum margin of compliance	<u>12</u> dB	at <u>2404.0</u> MHz	
Maximum margin of non-compliance	dB	at MHz	
Remarks:			
		File No. WC403349 1 Page	e 10 of
		. no no. no no o o o . n, r age	. 10 01



DEVIATIONS FROM STANDARD:	
None	
GENERAL REMARKS:	
SUMMARY:	
The requirements according to the tech	nical regulations are
■ - met	
□ - not met.	
The device under test does	
- fulfill the general approval requirem	ents mentioned on page 3.
- not fulfill the general approval required	irements mentioned on page 3.
Testing Start Date:	02 August 2004
resung Start Date.	US August 2004
Testing End Date:	04 August 2004
- TÜV PRODUCT SERVICE INC -	
Thomas K. Swamon	& C. Sausan
T. K. Swanson Technical Writer	Tested By: J. C. Sausen
TÜV PRODUCT SERVICE INC 19333 Wild Mountain Ro	File No. WC403349.1, Page 11 of 13 ad Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0



Test setup photo included in Exhibit 7 Test Setup Photographs

NextNet Wireless, Inc 9555 James Ave. South Suite 270 Bloomington, MN 55431



Test-setup photo(s): <u>Radiated emission_30 MHz - 12400 MHz</u>		
	No Photo Taken	
TÜV PRODUCT SERVICE INC 19333 Wild Mountain Road	Taylors Falls MN 55084-1758	File No. WC403349.1, Page 13 of 13

Test setup photo included in Exhibit 7 Test Setup Photographs

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	PRODUCT SERVICE
Appendix A	
Test Data Chaste	
and	
Test Setup Drawing(s)	
File No. WC403	349.1, Page A1 of A24
TÜV PRODUCT SERVICE INC 19333 Wild Mountain Road Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fa	c 651 638 0298 Rev.No 1.0



TEST SETUP FOR EMISSIONS TESTING WILD RIVER LAB Large Test Site Notes: 1. Items shown in dotted lines are located on the floor below the test area. It is 5 meters vertically from the ground floor to the test area. 2. 50 Hz, 60 Hz, and 400 Hz are power panels for alternating current. The antenna may be positioned horizontally 3, 10 or 30 meters from the center of the turntable. 3. The circle is a 6.7 meter diameter turntable. 4. A ground plane is in the plane of this sheet. 5. 6. The test sample is shown in the azimuthal position representing zero degrees. ANTENN Shielded E 400 Hz i..... 60 Hz 90 270 50 H; 180 File No. WC403349.1, Page A2 of A24 TÜV PRODUCT SERVICE INC 19333 Wild Mountain Road Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0

CONDUCTED EMISSIONS



Test Report	#: WC40334	49 Run 3	Test Area:	LTS		
EUT Model	#: BST2400	A	Date:	8/4/2004		
EUT Serial	#:	6	EUT Power:	60 Hz / 110 VAC	Temperati	.ıre: <u>23.0</u> ∘C
Test Metho	d: FCC B				Air Press	ure: 99.0 kPa
Custome	er: Next Net				Rel. Humic	lity: 65.0 %
EUT Descriptio	on: 2.4 GHz 1	FRx & Rcvr Base Station				
Note	es: Power Su	ipply:				
Data File Nam	ne: 3349-3wit	th cond.dat				Page: 1 of 4
List of mo	acuromo	nto for run #: 2				
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m) EUT Lead	DELTA1 EN55022 B Ave	DELTA2
***********	Deak Measur	ements compared to Average	e L imit*******	ł		
Quusi	-i cut measu	ements compared to Averag	je Enne			
Receive mode:						
153.698 kHz	40.96 Qp	0.0/2.93/0.0/0.0	43.89	L1	-11.91	n/a
229.507 kHz	33.89 Qp	0.0 / 1.85 / 0.0 / 0.0	35.74	L1	-16.73	n/a
506.857 kHz	11.63 Qp	0.0/0.47/0.0/0.0	12.1	L1	-33.9	n/a
19.748 MHz	6.65 Qp	0.3/0.1/0.0/0.0	7.05	L1	-42.95	n/a
29.3 MHz	13.87 Qp	0.5/0.1/0.0/0.0	14.47	L1	-35.53	n/a
15.155 MHz	25.65 Qp	0.3/0.08/0.0/0.0	26.03	L1	-23.97	n/a
1.002 MHz	28.34 Qp	0.0 / 0.05 / 0.0 / 0.0	28.39	L1	-17.61	n/a
1.401 MHz	26.32 Qp	0.0/0.05/0.0/0.0	26.37	L1	-19.63	n/a
6.143 MHz	26.11 Qp	0.1/0.05/0.0/0.0	26.26	L1	-23.74	n/a
15.156 MHz	16.41 Qp	0.3/0.08/0.0/0.0	16.79	L1	-33.21	n/a
19.771 MHz	23.4 Qp	0.3/0.1/0.0/0.0	23.8	L1	-26.2	n/a
29.358 MHz	17.77 Qp	0.5/0.1/0.0/0.0	18.37	L1	-31.63	n/a
153.698 kHz	40.25 Qp	0.0/2.93/0.0/0.0	43.18	N	-12.62	n/a
229.507 kHz	33.66 Qp	0.0 / 1.85 / 0.0 / 0.0	35.51	N	-16.96	n/a
534.757 kHz	24.33 Qp	0.0/0.36/0.0/0.0	24.69	N	-21.31	n/a
1.003 MHz	27.11 Qp	0.0 / 0.05 / 0.0 / 0.0	27.16	N	-18.84	n/a
1.404 MHz	25.44 Qp	0.0 / 0.05 / 0.0 / 0.0	25.49	N	-20.51	n/a
6.149 MHz	19.45 Qp	0.1 / 0.05 / 0.0 / 0.0	19.6	N	-30.4	n/a
15.173 MHz	10.14 On		40.50	N	-31.48	n/a
	10.14 Qp	0.3/0.08/0.0/0.0	18.32	IN	01.40	100
19.771 MHz	19.45 Qp	0.3/0.08/0.0/0.0 0.3/0.1/0.0/0.0	18.52	N	-30.15	n/a

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by:

J. C. Sausen

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File No. WC403349.1, Page A3 of A24

NextNet Wireless, Inc 9555 James Ave. South Suite 270 Bloomington, MN 55431
CONDUCTED EMISSIONS



Test Report	#: WC40334	49 Run 3	Test Area:	LTS			
EUT Model	#: BST2400	A	Date:	8/4/2004			
EUT Serial	#:	E	UT Power:	60 Hz / 110 VAC	Temperat	ure:	23.0 °C
Test Metho	od: FCC B				Air Press	ure:	99.0 kPa
Custom	er: Next Net				Rel. Humi	dity:	65.0 %
EUT Descriptio	on: 2.4 GHz	FRx & Rcvr Base Station					
Note	es: Power Su	ipply:					
Data File Nam	ne: 3349-3wit	th cond.dat				Page:	2 of 4
List of me	asureme	nts for run #: 3					
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBu∀ / m)	EUT Lead	DELTA1 EN55022 E Ave	3	DELTA2
TRX mode:		()					
153.698 kHz	43.47 Qp	0.0/2.93/0.0/0.0	46.4	L1	-9.4		n/a
199.867 kHz	40.72 Qp	0.0/2.0/0.0/0.0	42.72	L1	-10.89		n/a
538.137 kHz	28.66 Qp	0.0/0.35/0.0/0.0	29.01	L1	-16.99		n/a
1.01 MHz	30.57 Qp	0.0 / 0.05 / 0.0 / 0.0	30.62	L1	-15.38		n/a
1.415 MHz	30.59 Qp	0.0 / 0.05 / 0.0 / 0.0	30.64	L1	-15.36		n/a
6.132 MHz	27.5 Qp	0.1/0.05/0.0/0.0	27.65	L1	-22.35		n/a
10.0 MHz	30.49 Qp	0.2/0.05/0.0/0.0	30.74	L1	-19.26		n/a
23.804 MHz	24.24 Qp	0.32/0.1/0.0/0.0	24.66	L1	-25.34		n/a
29.371 MHz	19.47 Qp	0.5/0.1/0.0/0.0	20.07	L1	-29.93		n/a
153.698 kHz	41.83 Qp	0.0 / 2.93 / 0.0 / 0.0	44.76	N	-11.04		n/a
199.867 kHz	37.56 Qp	0.0/2.0/0.0/0.0	39.56	N	-14.05		n/a
538.137 kHz	19.63 Qp	0.0 / 0.35 / 0.0 / 0.0	19.98	N	-26.02		n/a
1.01 MHz	8.04 Qp	0.0 / 0.05 / 0.0 / 0.0	8.09	N	-37.91		n/a
1.415 MHz	-2.76 Qp	0.0 / 0.05 / 0.0 / 0.0	-2.71	N	-48.71		n/a
1.432 MHz	28.72 Qp	0.0 / 0.05 / 0.0 / 0.0	28.77	N	-17.23		n/a
6.139 MHz	27.46 Qp	0.1 / 0.05 / 0.0 / 0.0	27.61	N	-22.39		n/a
10.0 MHz	24.82 Qp	0.2/0.05/0.0/0.0	25.07	N	-24.93		n/a
23.813 MHz	25.45 Qp	0.32/0.1/0.0/0.0	25.87	N	-24.13		n/a
29.38 MHz	16.32 Qp	0.5/0.1/0.0/0.0	16.92	N	-33.08		n/a
End of conducter	d data.						

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File No. WC403349.1, Page A4 of A24

NextNet Wireless, Inc 9555 James Ave. South Suite 270 Bloomington, MN 55431

CONDUCTED EMISSIONS



Test Report #:	WC403349 Run 3	Test Area:	LTS				
EUT Model #:	BST2400A	Date:	8/4/2004				
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	99.0	kPa
Customer:	Next Net			Rel. Humi	idity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Base Station						
Notes:	Power Supply:						
Data File Name:	3349-3with cond dat				Page:	3 of	4

Measurement summary for limit1: EN55022 B Ave (Qp)								
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	EUT Lead	DELTA1			
	(dBuV)	ATTEN	(dBuV / m)		EN55022 B			
		(dB)			Ave			
153.698 kHz	43.47 Qp	0.0 / 2.93 / 0.0 / 0.0	46.4	L1	-9.4			
199.867 kHz	40.72 Qp	0.0 / 2.0 / 0.0 / 0.0	42.72	L1	-10.89			
1.415 MHz	30.59 Qp	0.0/0.05/0.0/0.0	30.64	L1	-15.36			
1.01 MHz	30.57 Qp	0.0 / 0.05 / 0.0 / 0.0	30.62	L1	-15.38			
229.507 kHz	33.89 Qp	0.0 / 1.85 / 0.0 / 0.0	35.74	L1	-16.73			
538.137 kHz	28.66 Qp	0.0 / 0.35 / 0.0 / 0.0	29.01	L1	-16.99			
1.432 MHz	28.72 Qp	0.0/0.05/0.0/0.0	28.77	N	-17.23			
10.0 MHz	30.49 Qp	0.2/0.05/0.0/0.0	30.74	L1	-19.26			
1.401 MHz	26.32 Qp	0.0/0.05/0.0/0.0	26.37	L1	-19.63			
6.132 MHz	27.5 Qp	0.1/0.05/0.0/0.0	27.65	L1	-22.35			
6.139 MHz	27.46 Qp	0.1/0.05/0.0/0.0	27.61	N	-22.39			
15.155 MHz	25.65 Qp	0.3 / 0.08 / 0.0 / 0.0	26.03	L1	-23.97			
23.813 MHz	25.45 Qp	0.32/0.1/0.0/0.0	25.87	N	-24.13			
19.771 MHz	23.4 Qp	0.3/0.1/0.0/0.0	23.8	L1	-26.2			
29.371 MHz	19.47 Qp	0.5/0.1/0.0/0.0	20.07	L1	-29.93			
15.173 MHz	18.14 Qp	0.3/0.08/0.0/0.0	18.52	N	-31.48			
29.358 MHz	17.77 Qp	0.5/0.1/0.0/0.0	18.37	L1	-31.63			
506.857 kHz	11.63 Qp	0.0/0.47/0.0/0.0	12.1	L1	-33.9			
29.3 MHz	13.87 Qp	0.5/0.1/0.0/0.0	14.47	L1	-35.53			
19.748 MHz	6.65 Qp	0.3/0.1/0.0/0.0	7.05	L1	-42.95			

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File No. WC403349.1, Page A5 of A24

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CONDUCTED EMISSIONS



Test Report #:	WC403349 Run 3	Test Area:	LTS				
EUT Model #:	BST2400A	Date:	8/4/2004				
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	99.0	kPa
Customer:	Next Net			Rel. Hum	idity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Base Station						
Notes:	Power Supply:						
Data File Name:	3349-3with cond.dat				Page:	4 of	4

Graph:



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File No. WC403349.1, Page A6 of A24



Test Report	#: WC40334	49 Run 1	Test Area: L1	s				
EUT Model	#: _BST2400	A	Date: 8/	3/04				
EUT Serial	#:		EUT Power: 60) Hz / 110 VAC	Temperat	ure:	23.0	°C
Test Metho	d: FCC B				Air Press	ure:	99.0	kPa
Custome	er: Next Net				Rel. Humi	dity:	65.0	%
EUT Descriptio	n: 2.4 GHz	FRx & Rcvr Basestation						
Note	s: Receive r	node. TRX is disabled.						
Data File Nam	ne: 3349.dat					Page	e: 1 of	7
List of me	asureme	nts for run #: 1						
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP ATTEN ((B)	/ FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA1 FCC-B <1GH	Iz I	DELT FCC B > 3m	A2 1GHz
56.03 MHz	36.6 Qp	0.6/12.7/25.9/0.0	24.0	V/1.00/0	-16.0		n/a	
168.012 MHz	36.95 Qp	1.07 / 9.1 / 26.05 / 0.0	21.07	V/1.00/0	-22.43		n/a	
224.012 MHz	32.75 Qp	1.29 / 11.1 / 26.3 / 0.0	18.84	V / 1.00 / 0	-27.16		n/a	
336.006 MHz	35.4 Qp	1.57 / 14.27 / 26.7 / 0.0	24.54	V/1.00/0	-21.46		n/a	
350.006 MHz	32.45 Qp	1.6 / 15.19 / 26.69 / 0.0	22.55	V/1.00/0	-23.45		n/a	
392.006 MHz	33.55 Qp	1.69 / 16.0 / 26.67 / 0.0	24.57	V / 1.00 / 0	-21.43		n/a	
00.0 Mile	25.05.0-	0.01757105.010.0	40.50	1/// 00//0	04.40			
80.0 MHZ	35.95 Qp	0.0/0.51/25.8/0.0	18.52	V/1.00/0	-21.48	_	n/a	
120.0 MHZ	21.75 Op	10/026/2602/00	10.0	V/1.00/0	-24.7	_	n/a	
160.054 MHz	32.05 Op	10/90/2508/00	16.07	V/1.00/0	-27.5		n/a	
400.012 MHz	30.4.On	17/163/267/00	21.7	V/1.00/0	-24.3	-	n/a	
225.0 MHz	30.85 Op	129/111/263/00	16.94	V/1.00/0	-29.06		n/a	
220.0 10112	00.00 ap	1.207 11.17 20.07 0.0	10.54	V/1.00/0	20.00		110	
75.872 MHz	37.85 Qp	0.72/8.24/25.8/0.0	21.01	V/1.00/0	-18.99		n/a	
78.039 MHz	36.15 Qp	0.76 / 7.74 / 25.8 / 0.0	18.85	V/1.00/0	-21.15		n/a	
175.005 MHz	39.9 Qp	1.1/9.25/26.11/0.0	24.14	V/1.00/0	-19.36		n/a	
176.956 MHz	37.1 Qp	1.1 / 9.4 / 26.12 / 0.0	21.48	V/1.00/0	-22.02		n/a	
		-	•	•	•			
168.012 MHz	40.35 Qp	1.07 / 9.1 / 26.05 / 0.0	24.47	V / 1.00 / 90	-19.03		n/a	
224.012 MHz	42.8 Qp	1.29 / 11.1 / 26.3 / 0.0	28.89	V / 1.00 / 90	-17.11		n/a	
225.0 MHz	34.9 Qp	1.29 / 11.1 / 26.3 / 0.0	20.99	V / 1.00 / 90	-25.01		n/a	
336.006 MHz	35.85 Qp	1.57 / 14.27 / 26.7 / 0.0	24.99	V / 3.00 / 180	-21.01		n/a	
214.11 MHz	36.45 Qp	1.22 / 11.0 / 26.3 / 0.0	22.37	V / 1.00 / 3	-21.13		n/a	
215.346 MHz	36.35 Qp	1.23 / 11.0 / 26.3 / 0.0	22.28	V / 1.00 / 3	-21.22		n/a	

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File No. WC403349.1, Page A7 of A24

NextNet Wireless, Inc 9555 James Ave. South Suite 270 Bloomington, MN 55431



Test Report	#: WC40334	49 Run 1	Test Area:	LTS		
EUT Model	#: BST2400	A	Date:	8/3/04		
EUT Serial	#:		EUT Power:	60 Hz / 110 VAC	Temperat	ture: <u>23.0</u> °C
Test Metho	d: FCC B				Air Press	sure: <u>99.0</u> kPa
Custome	er: Next Net				Rel. Humi	dity: 65.0 %
EUT Descriptio	n: 2.4 GHz	FRx & Rcvr Basestation				
Note	s: Receive r	node. TRX is disabled.				
Data File Nam	e: 3349.dat					Page: 2 of 7
List of me	asureme	nts for run #: 1				
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMF ATTEN (dB)	P/ FINAL (dBuV/	m) POL / HGT / AZ m) (m)(DEG)	DELTA1 FCC-B <1GH 3m	IZ FCC B >1GHz
392.006 MHz	41.1 Qp	1.69 / 16.0 / 26.67 / 0.0	32.12	H / 3.00 / 270	-13.88	n/a
336.006 MHz	42.5 Qp	1.57 / 14.27 / 26.7 / 0.0	31.64	H / 1.00 / 270	-14.36	n/a
350.006 MHz	38.15 Qp	1.6 / 15.19 / 26.69 / 0.0	28.25	H / 1.00 / 270	-17.75	n/a
168.012 MHz	44.95 Qp	1.07 / 9.1 / 26.05 / 0.0	29.07	H / 1.00 / 180	-14.43	n/a
175.005 MHz	48.8 Qp	1.1/9.25/26.11/0.0	33.04	H / 1.00 / 180	-10.46	n/a
214.11 MHz	49.2 Qp	1.22 / 11.0 / 26.3 / 0.0	35.12	H / 1.00 / 180	-8.38	n/a
215.346 MHz	50.3 Qp	1.23 / 11.0 / 26.3 / 0.0	36.23	H / 1.00 / 180	-7.27	n/a
224.012 MHz	51.3 Qp	1.29 / 11.1 / 26.3 / 0.0	37.39	H / 1.00 / 180	-8.61	n/a
225.0 MHz	43.45 Qp	1.29 / 11.1 / 26.3 / 0.0	29.54	H / 1.00 / 180	-16.46	n/a
336.006 MHz	46.05 Qp	1.57 / 14.27 / 26.7 / 0.0	35.19	H / 1.00 / 180	-10.81	n/a
350.006 MHz	40.0 Qp	1.6 / 15.19 / 26.69 / 0.0	30.1	H / 1.00 / 180	-15.9	n/a
392.006 MHz	45.2 Qp	1.69 / 16.0 / 26.67 / 0.0	36.22	H / 1.00 / 180	-9.78	n/a
400.012 MHz	36.55 Qp	1.7 / 16.3 / 26.7 / 0.0	27.85	H / 1.00 / 180	-18.15	n/a
374.7 MHz	36.95 Qp	1.63 / 15.5 / 26.61 / 0.0	27.47	H / 1.00 / 180	-18.53	n/a
376.901 MHz	36.35 Qp	1.64 / 15.61 / 26.61 / 0.0	D 26.98	H / 1.00 / 180	-19.02	n/a
375.779 MHz	33.7 Qp	1.63 / 15.51 / 26.61 / 0.0	0 24.23	H / 1.00 / 180	-21.77	n/a
321.155 MHz	37.5 Qp	1.51 / 14.06 / 26.68 / 0.0	D 26.38	H / 1.00 / 180	-19.62	n/a
323.015 MHz	36.6 Qp	1.51 / 14.0 / 26.69 / 0.0	25.42	H / 1.00 / 180	-20.58	n/a
268.588 MHz	31.25 Qp	1.45 / 12.43 / 26.42 / 0.0	J 18.7	H / 1.00 / 180	-27.3	n/a
160.633 MHz	40.15 Qp	1.01 / 9.0 / 25.98 / 0.0	24.17	H / 1.00 / 180	-19.33	n/a
161.473 MHz	41.3 Qp	1.01 / 9.0 / 25.99 / 0.0	25.32	H / 1.00 / 180	-18.18	n/a
375.779 MHz	35.65 Qp	1.63 / 15.51 / 26.61 / 0.0	D 26.18	H / 1.00 / 0	-19.82	n/a
374.7 MHz	38.75 Qp	1.63 / 15.5 / 26.61 / 0.0	29.27	H / 1.00 / 0	-16.73	n/a
376.901 MHz	38.5 Qp	1.64 / 15.61 / 26.61 / 0.0	D 29.13	H / 1.00 / 0	-16.87	n/a

215.3 MHz maxed:

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File No. WC403349.1, Page A8 of A24



Test Report #: WC403349 Run 1 Test Area: LTS EUT Model #: BST2400A Date: 8/3/04 EUT Serial #: EUT Power: 60 Hz / 110 VAC Temperature: 23.0 °C Test Method: FCC B Air Pressure: 99.0 kF Customer: Next Net Rel. Humidity: 65.0 % EUT Description: 2.4 GHz TRx & Rcvr Basestation 65.0 % Date File Name: 3349.dat Page: 3 of 7 Page: 3 of 7 List of measurements for run #: 1 FREQ LEVEL (ABLE / ANT / PREAMP / ATTEN (dBuV / m) (M)(DEG)) FCC-B < 1GHz FCC B > 1GH and the for an an and the for an and the for an									
EUT Model #: BST2400A Date: 8/3/04 EUT Serial #: EUT Power: 60 Hz / 110 VAC Temperature: 23.0 °C Test Method: FCC B Air Pressure: 99.0 kF Customer: Next Net Rel. Humidity: 65.0 % EUT Description: 2.4 GHz TRx & Rcvr Basestation	Test Report #:	WC40334	49 Run 1	Test Area:	LTS				
EUT Model #: BST2400A Date: 8/3/04 EUT Serial #: EUT Power: 60 Hz / 110 VAC Temperature: 23.0 °C Test Method: FCC B Air Pressure: 99.0 kF Customer: Next Net Rel. Humidity: 65.0 % EUT Description: 2.4 GHz TRx & Rcvr Basestation									
EUT Serial #:	EUT Model #:	BST2400	A	Date:	8/3/04				
Test Method: FCC B Air Pressure: 99.0 kF Customer: Next Net Rel. Humidity: 65.0 % EUT Description: 2.4 GHz TRx & Rcvr Basestation Notes: Receive mode. TRX is disabled. Data File Name: 3349.dat Page: 3 of 7	EUT Serial #:			EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Method: FCC B Air Pressure: 99.0 kF Customer: Next Net Rel. Humidity: 65.0 % EUT Description: 2.4 GHz TRx & Rcvr Basestation									
Customer: Next Net Rel. Humidity: 65.0 % EUT Description: 2.4 GHz TRx & Rcvr Basestation	Test Method:	FCC B				Air Press	sure:	99.0	kPa
Customer: Next Net Rei. Humidity: 65.0 % EUT Description: 2.4 GHz TRx & Rcvr Basestation								or o	
EUT Description: 2.4 GHz TRx & Rcvr Basestation Notes: Receive mode. TRX is disabled. Data File Name: 3349.dat Page: 3 of 7 List of measurements for run #: 1 CABLE / ANT / PREAMP / ATTEN (dBuV / m) (dBUV / m) (m)(DEG) POL / HGT / AZ FCC B > 1GHz FCC B > 1GH 3m	Customer:	Next Net				Rel. Hum	iaity:	65.0	%
Notes: Receive mode. TRX is disabled. Data File Name: 3349.dat Page: 3 of 7 List of measurements for run #: 1 CABLE / ANT / PREAMP / ATTEN (dBuV / m) FINAL (m)(DEG) DELTA1 FCC-B <1GHz FCC B >1GH 3m DELTA2 FCC B >1GH 3m	EUT Description:	2.4 GHz	TRx & Rcvr Basestation						
Notes: Receive mode. TRX is disabled. Data File Name: 3349.dat Page: 3 of 7 List of measurements for run #: 1 Page: A of 7 FREQ LEVEL (dBuV) CABLE / ANT / PREAMP / ATTEN (dB) FINAL (dBuV / m) POL / HGT / AZ (m)(DEG) DELTA1 FCC-B <1GHz 3m DELTA2 FCC B >1GH 3m									
Data File Name: 3349.dat Page: 3 of 7 List of measurements for run #: 1 CABLE / ANT / PREAMP / ATTEN (dBuV / m) FINAL (dBuV / m) POL / HGT / AZ (m)(DEG) DELTA1 FCC B > 1GH 2 3m FREQ LEVEL (dBuV) CABLE / ANT / PREAMP / ATTEN (dBuV / m) FINAL (m)(DEG) FCC-B < 1GHz 3m	Notes:	Receive I	mode. TRX is disabled.						
Data File Name: 3349.dat Page: 3 of 7 List of measurements for run #: 1 FREQ LEVEL (dBuV) CABLE / ANT / PREAMP / ATTEN FINAL (dBuV / m) POL / HGT / AZ DELTA1 DELTA2 FREQ LEVEL (dBuV) CABLE / ANT / PREAMP / ATTEN FINAL (dBuV / m) POL / HGT / AZ DELTA1 DELTA2 FCC-B < IGHz 3m ATTEN GBUV / m) (m)(DEG) FCC-B < IGHz 3m 3m							_		_
List of measurements for run #: 1 FREQ LEVEL (dBuV) CABLE / ANT / PREAMP / ATTEN (dB) FINAL (dBuV / m) POL / HGT / AZ (m)(DEG) DELTA1 FCC-B <1GHz 3m DELTA2 FCC B >1GH 3m	Data File Name:	3349.dat					Page:	3 of	7
List of measurements for run #: 1 FREQ LEVEL CABLE / ANT / PREAMP / (dBuV) FINAL POL / HGT / AZ DELTA1 DELTA2 Mathematical for run #: 1 ATTEN (dBuV / m) (m)(DEG) FCC-B < 1GHz 3m FCC B > 1GH	1.1.4.6								
FREQ LEVEL CABLE / ANT / PREAMP / FINAL POL / HGT / AZ DELTA1 DELTA2 (dBuV) ATTEN (dBuV / m) (m)(DEG) FCC-B <1GHz FCC B >1GH (dB) 3m 3m	List of meas	sureme	nts for run #: 1						
(abuv) ATTEN (abuv / m) (m)(DEG) FCC-B <1GHZ FCC B >1GH (dB) 3m 3m	FREQ	LEVEL	CABLE / ANT / PREAMP	P/ FINAL	POL/HGT/AZ	DELTA1	- 50	DELTA	42
(QB)		(dBuV)	ALLEN	(dBuV / i	n) (m)(DEG)	FCC-B <1G	HZ FO	CB>1	IGHZ
215 226 MUT 52 25 Op 1 22 / 10 0 20 10 U/ 1 40 / 400 5 22 m/p	245 226 MU-	52.25 On	(QB)	20.40	L/1 40 / 100	300		300	
215.320 MHz 32.25 QP 1.237 11.07 20.37 0.0 30.16 H7 1.407 190 -5.32 H/d 450.623 MHz 44.25 Op 4.047.00 / 25.09 (0.0 25.77 H/d.4.07.400 40.42 plp	210.320 MHZ	32.25 Qp	1.23/11.0/20.3/0.0	30.10	H / 1.40 / 190	-0.32		n/a	
100.033 MHz 41.35 Qp 1.0179.0725.9870.0 25.37 H71.407190 -18.13 IVa	100.033 MHZ	41.35 Qp	1.01/9.0/25.98/0.0	20.37	H / 1.40 / 190	-18.13		n/a	
101.473 MHz 42.35 QP 1.0179.0723.9970.0 20.37 H71.407190 -17.13 IVa	101.473 MHZ	42.35 Qp	1.01/9.0725.9970.0	20.37	H / 1.40 / 190	-17.13		n/a	
108.012 MHz 40.05 Qp 1.07 / 9.17 20.057 0.0 30.07 H71.40 / 190 -12.83 IVa	108.012 MHZ	46.55 Qp	1.07/9.1720.0570.0	30.07	H / 1.40 / 190	-12.83		n/a	
175.003 Min2 49.95 Qp 1.179.23720.1170.0 34.19 H71.407190 -9.31 H74	175.005 MHZ	49.95 Qp	1.179.257.20.1170.0	34.19	H / 1.40 / 190	-9.31		n/a	
214.11 MIR2 49.7 QD 1.227 11.07 20.37 0.0 33.02 H71.40 / 190 -7.00 IVa	214.11 MIELZ	49.7 Qp	1.22/11.0/20.3/0.0	30.02	H / 1.40 / 190	-7.00		n/a	
127.130 MHZ 30.15 QP 0.9776.09720.0570.0 19.70 H71.40 (190 -23.74 H/a	127.130 MHZ	30.15 Qp	0.9778.09720.0570.0	19.70	H / 1.40 / 190	-23.74		n/a	
101.251 MHz 40.35 QD 1.179.39720.1070.0 32.00 H/1.407190 -10.02 IVa	200.007 MHz	48.30 QP	12/1120/262/00	32.00	H / 1.40 / 190	-10.02		n/a	
200.007 MHz 43.3 Gp 1.2711.35720.370.0 23.75 H71.407150 13.71 Ha	200.007 MHZ	43.5 Qp	12/11/22/26/200	29.79	H / 1.40 / 190	10.07		n/a	
23154 MHz 29.2 Op 1.2/11/3/2010 23.3 H1/140/100 20.06 p/2	201.435 MHz	39.3 Op	13/1174/263/00	25.03	H / 1 /0 / 100	-19.57		n/a	
235.54 WHZ 36.5 QP 1.57 H.747 26.57 6.6 23.64 H71.407 136 -20.36 HVa	200.04 WILL2	30.3 Qp	1.57 11.747 20.57 0.0	23.04	11/ 1.40 / 130	-20.50		11/a	
2 404 GHz maxed	2 404 GHz mayed								
2.404 GHz 48.66 Av 4.31/30.49/43.66/0.0 39.79 H/1.80/192 n/a -14.21	2.404 GHz	48.66 Av	4.31/30.49/43.66/0.0	39.79	H / 1.80 / 192	n/a		-14.2	1
									-
2.404 GHz maxed:	2.404 GHz maxed:								
2.404 GHz 50.77 Av 4.31/30.49/43.66/0.0 41.9 V/1.60/140 n/a -12.1	2.404 GHz	50.77 Av	4.31 / 30.49 / 43.66 / 0.0	0 41.9	V / 1.60 / 140	n/a		-12.1	

No further significant EUT emissions detected 30 MHz to 12GHz, vert and hor ant

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File No. WC403349.1, Page A9 of A24

NextNet Wireless, Inc 9555 James Ave. South Suite 270 Bloomington, MN 55431



Test Report #:	WC403349 Run 1	Test Area:	LTS				
EUT Model #:	BST2400A	Date:	8/3/04				
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	99.0	kPa
Customer:	Next Net			Rel. Hum	idity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Basestation						
Notes:	Receive mode. TRX is disabled.						
Data File Name:	3349.dat				Page:	4 of	7

Measurement summary for limit1: FCC-B <1GHz 3m (Qp) FINAL FREQ LEVEL CABLE / ANT / PREAMP / POL/HGT/AZ DELTA1 (m)(DEG) FCC-B <1GHz (dBuV / m) (dBuV) ATTEN (dB) 3m 215.326 MHz 214.11 MHz 52.25 Qp 49.7 Qp 1.23 / 11.0 / 26.3 / 0.0 1.22 / 11.0 / 26.3 / 0.0 38.18 35.62 H/140/190-5.32 -7.88 H / 1.40 / 190 1.29 / 11.1 / 26.3 / 0.0 1.1 / 9.25 / 26.11 / 0.0 224.012 MHz 51.3 Qp 37.39 H / 1.00 / 180 -8.61 175.005 MHz 49.95 Qp 34.19 H / 1.40 / 190 -9.31 1.69 / 16.0 / 26.67 / 0.0 1.1 / 9.59 / 26.16 / 0.0 1.57 / 14.27 / 26.7 / 0.0 392.006 MHz 45.2 Qp 48.35 Qp 36.22 -9.78 H / 1.00 / 180 181.251 MHz 32.88 35.19 H / 1.40 / 190 -10.62 336.006 MHz 46.05 Qp H / 1.00 / 180 -10.81 1.37714.27726.770.0 1.07/9.1/26.05/0.0 1.2/11.39/26.3/0.0 1.6/15.19/26.69/0.0 0.6/12.7/25.9/0.0 46.55 Qp 43.5 Qp 30.67 29.79 30.1 24.0 -12.83 -13.71 168.012 MHz H / 1.40 / 190 H / 1.40 / 190 200.007 MHz 350.006 MHz H/1.00/180 -15.9 40.0 Qp 56.03 MHz 36.6 Qp V/1.00/0 -16.0 225.0 MHz 43.45 Qp 1.29 / 11.1 / 26.3 / 0.0 29.54 H / 1.00 / 180 -16.46 374.7 MHz 38.75 Qp 1.63 / 15.5 / 26.61 / 0.0 29.27 H/1.00/0 -16.73 376.901 MHz 38.5 Qp 1.64 / 15.61 / 26.61 / 0.0 29.13 H/1.00/0 -16.87 161.473 MHz 42.35 Qp 41.35 Qp 1.01 / 9.0 / 25.99 / 0.0 1.01 / 9.0 / 25.98 / 0.0 26.37 H / 1.40 / 190 -17.13 25.37 27.85 21.01 160.633 MHz H / 1.40 / 190 -18.13 1.7 / 16.3 / 26.7 / 0.0 0.72 / 8.24 / 25.8 / 0.0 400.012 MHz 36.55 Qp H / 1.00 / 180 -18.15 37.85 Qp 75.872 MHz V/1.00/0 -18.99 37.5 Qp 35.65 Qp 1.51/14.06/26.68/0.0 1.63/15.51/26.61/0.0 1.2/11.33/26.3/0.0 1.51/14.0/26.69/0.0 26.38 26.18 23.53 25.42 25.04 321.155 MHz 375.779 MHz H/1.00/180 H/1.00/0 -19.62 37.3 Qp 201.453 MHz -19.97H/1.40/190 323,015 MHz 36.6 Qp H/100/180 -20 58 1.3 / 11.74 / 26.3 / 0.0 0.76 / 7.74 / 25.8 / 0.0 0.8 / 7.57 / 25.8 / 0.0 -20.96 235.54 MHz 38.3 Qp H / 1.40 / 190 78.039 MHz 80.0 MHz 36.15 Qp 35.95 Qp 18.85 18.52 -21.15 -21.48 V/1.00/0 V/100/0

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J. C. Sausen

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File No. WC403349.1, Page A10 of A24



Test Report #:	WC403349 Run 1	Test Area:	LTS	_			
EUT Model #:	BST2400A	Date:	8/3/04	_			
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Pres	sure:	99.0	kPa
Customer:	Next Net			Rel. Hum	idity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Basestation						
Notes:	Receive mode. TRX is disabled.						
Data File Name:	3349.dat				Page:	5 of	7

Measurem	Measurement summary for limit1: FCC-B <1GHz 3m (Qp)								
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	DELTA1				
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC-B <1GHz				
		(dB)			3m				
176.956 MHz	37.1 Qp	1.1 / 9.4 / 26.12 / 0.0	21.48	V / 1.00 / 0	-22.02				
127.136 MHz	36.15 Qp	0.97 / 8.69 / 26.05 / 0.0	19.76	H / 1.40 / 190	-23.74				
120.0 MHz	34.35 Qp	0.9 / 9.51 / 25.96 / 0.0	18.8	V/1.00/0	-24.7				
160.054 MHz	32.95 Qp	1.0 / 9.0 / 25.98 / 0.0	16.97	V/1.00/0	-26.53				
268.588 MHz	31.25 Qp	1.45 / 12.43 / 26.42 / 0.0	18.7	H / 1.00 / 180	-27.3				
140.0 MHz	31.75 Qp	1.0 / 9.26 / 26.02 / 0.0	16.0	V/1.00/0	-27.5				
140.0 WH 12	31.73 Qp	1.07 9.207 20.027 0.0	10.0	V/1.00/0	-21.3				

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File No. WC403349.1, Page A11 of A24



Test Report #:	WC403349 Run 1	Test Area:	LTS				
EUT Model #:	BST2400A	Date:	8/3/04				
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	99.0	kPa
Customer:	Next Net			Rel. Hum	idity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Basestation						
Notes:	Receive mode. TRX is disabled.						
Data File Name:	3349.dat				Page:	6 of	7

Measurement summary for limit2: FCC B >1GHz 3m (Av)						
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL (dBu)/(m)	POL / HGT / AZ	DELTA2	
	(ubuv)	(dB)	(ubuv / III)	(III)(DEG)	3m	
2.404 GHz	50.77 Av	4.31 / 30.49 / 43.66 / 0.0	41.9	V / 1.60 / 140	-12.1	

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File No. WC403349.1, Page A12 of A24

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Test Report #:	WC403349 Run 1	Test Area:	LTS	_			
EUT Model #:	BST2400A	Date:	8/3/04	_			
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	99.0	kPa
Customer:	Next Net			Rel. Hum	idity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Basestation						
Notes:	Receive mode. TRX is disabled.						
Data File Name:	3349.dat				Page:	7 of	7

Graph:



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File No. WC403349.1, Page A13 of A24

NextNet Wireless, Inc 9555 James Ave. South Suite 270 Bloomington, MN 55431



Test Report #:	WC403349 Run 2	Test Area:	LTS			
EUT Model #:	BST2400A	Date:	8/3/2004			
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Temperature:	23.0	∘С
Test Method:	FCC B			Air Pressure:	99.0	kPa
Customer:	Next Net			Rel. Humidity:	65.0	%

EUT Description: 2.4 GHz TRx & Rcvr Basestation

Notes: Transmit mode. Receiver is disabled. Load instead of antenna.

Data File Name: 3349.dat

Page: 1 of 11

List of me	asureme	nts for run #: 2				
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	DELTA1	DELTA2
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC-B <1GHz	FCC B >1GHz
		(dB)			3m	3m
LOW FREQUEN	CY RANGE SI	ETTING = 2.404 GHz.:				
1.036 GHz	38.67 Av	2.79 / 26.42 / 38.8 / 0.0	29.08	V / 1.70 / 131	n/a	-24.92
1.008 GHz	37.93 Av	2.75 / 26.4 / 38.34 / 0.0	28.75	V / 1.70 / 131	n/a	-25.25
1.008 GHz	36.1 Av	2.75 / 26.4 / 38.34 / 0.0	26.92	H / 1.20 / 38	n/a	-27.08
1.036 GHz	37.96 Av	2.79 / 26.42 / 38.8 / 0.0	28.37	H / 1.20 / 38	n/a	-25.63
44.425 MHz	37.3 Qp	0.6 / 15.6 / 25.9 / 0.0	27.6	V/1.00/0	-12.4	n/a
65.125 MHz	37.75 Qp	0.7 / 10.58 / 25.9 / 0.0	23.13	V/1.00/0	-16.87	n/a
75.872 MHz	35.15 Qp	0.72 / 8.24 / 25.8 / 0.0	18.31	V/1.00/0	-21.69	n/a
78.039 MHz	36.15 Qp	0.76 / 7.74 / 25.8 / 0.0	18.85	V/1.00/0	-21.15	n/a
80.0 MHz	36.35 Qp	0.8 / 7.57 / 25.8 / 0.0	18.92	V/1.00/0	-21.08	n/a
120.0 MHz	33.25 Qp	0.9 / 9.51 / 25.96 / 0.0	17.7	V/1.00/0	-25.8	n/a
127.136 MHz	31.4 Qp	0.97 / 8.69 / 26.05 / 0.0	15.01	V/1.00/0	-28.49	n/a
140.024 MHz	31.4 Qp	1.0 / 9.27 / 26.01 / 0.0	15.66	V/1.00/0	-27.84	n/a
160.066 MHz	33.6 Qp	1.0 / 9.0 / 25.98 / 0.0	17.62	V/1.00/0	-25.88	n/a
160.633 MHz	29.1 Qp	1.01 / 9.0 / 25.98 / 0.0	13.12	V/1.00/0	-30.38	n/a
161.473 MHz	31.5 Qp	1.01 / 9.0 / 25.99 / 0.0	15.52	V/1.00/0	-27.98	n/a
168.012 MHz	32.75 Qp	1.07 / 9.1 / 26.05 / 0.0	16.87	V/1.00/0	-26.63	n/a
175.005 MHz	38.2 Qp	1.1 / 9.25 / 26.11 / 0.0	22.44	V/1.00/0	-21.06	n/a
176.956 MHz	25.85 Qp	1.1 / 9.4 / 26.12 / 0.0	10.23	V/1.00/0	-33.27	n/a
200.007 MHz	29.25 Qp	1.2 / 11.39 / 26.3 / 0.0	15.54	V/1.00/0	-27.96	n/a
201.453 MHz	25.05 Qp	1.2 / 11.33 / 26.3 / 0.0	11.28	V/1.00/0	-32.22	n/a
214.11 MHz	32.25 Qp	1.22 / 11.0 / 26.3 / 0.0	18.17	V/1.00/0	-25.33	n/a
215.326 MHz	32.2 Qp	1.23 / 11.0 / 26.3 / 0.0	18.13	V/1.00/0	-25.37	n/a
224.012 MHz	25.35 Qp	1.29 / 11.1 / 26.3 / 0.0	11.44	V/1.00/0	-34.56	n/a
225.0 MHz	28.2 Qp	1.29 / 11.1 / 26.3 / 0.0	14.29	V/1.00/0	-31.71	n/a
321 155 MHz	25.35 On	1 51 / 14 06 / 26 68 / 0 0	14.23	V/100/0	-31 77	n/a

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File No. WC403349.1, Page A14 of A24



Test Report #:	WC403349 Run 2	Test Area:	LTS			
EUT Model #:	BST2400A	Date:	8/3/2004			
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Temperature:	23.0	°C
Test Method:	FCC B			Air Pressure:	99.0	kPa
Customer:	Next Net			Rel. Humidity:	65.0	%

EUT Description: 2.4 GHz TRx & Rcvr Basestation

Notes: Transmit mode. Receiver is disabled. Load instead of antenna.

Data File Name: 3349.dat

Page: 2 of 11

List of me	List of measurements for run #: 2							
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	DELTA1	DELTA2		
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC-B <1GHz	FCC B >1GHz		
		(dB)			3m	3m		
323.015 MHz	23.4 Qp	1.51 / 14.0 / 26.69 / 0.0	12.22	V / 1.00 / 0	-33.78	n/a		
336.006 MHz	25.75 Qp	1.57 / 14.27 / 26.7 / 0.0	14.89	V/1.00/0	-31.11	n/a		
350.006 MHz	27.05 Qp	1.6 / 15.19 / 26.69 / 0.0	17.15	V/1.00/0	-28.85	n/a		
374.7 MHz	24.3 Qp	1.63 / 15.5 / 26.61 / 0.0	14.82	V / 1.00 / 0	-31.18	n/a		
392.006 MHz	27.25 Qp	1.69 / 16.0 / 26.67 / 0.0	18.27	V / 1.00 / 0	-27.73	n/a		
400.012 MHz	30.55 Qp	1.7 / 16.3 / 26.7 / 0.0	21.85	V / 1.00 / 0	-24.15	n/a		
127.136 MHz	32.75 Qp	0.97 / 8.69 / 26.05 / 0.0	16.36	V/1.00/90	-27.14	n/a		
160.633 MHz	30.5 Qp	1.01 / 9.0 / 25.98 / 0.0	14.52	V/1.00/90	-28.98	n/a		
161.473 MHz	32.85 Qp	1.01 / 9.0 / 25.99 / 0.0	16.87	V / 1.00 / 90	-26.63	n/a		
200.007 MHz	33.85 Qp	1.2 / 11.39 / 26.3 / 0.0	20.14	V / 1.00 / 90	-23.36	n/a		
214.11 MHz	42.9 Qp	1.22 / 11.0 / 26.3 / 0.0	28.82	V / 1.00 / 90	-14.68	n/a		
215.326 MHz	43.9 Qp	1.23 / 11.0 / 26.3 / 0.0	29.83	V / 1.00 / 90	-13.67	n/a		
225.0 MHz	35.9 Qp	1.29 / 11.1 / 26.3 / 0.0	21.99	V / 1.00 / 90	-24.01	n/a		
160.633 MHz	33.4 Qp	1.01 / 9.0 / 25.98 / 0.0	17.42	V / 3.00 / 90	-26.08	n/a		
160.609 MHz	33.7 Qp	1.01 / 9.0 / 25.98 / 0.0	17.72	V / 3.00 / 90	-25.78	n/a		
161.473 MHz	35.6 Qp	1.01 / 9.0 / 25.99 / 0.0	19.62	V / 3.00 / 90	-23.88	n/a		
168.012 MHz	36.35 Qp	1.07 / 9.1 / 26.05 / 0.0	20.47	V / 3.00 / 90	-23.03	n/a		
175.005 MHz	42.25 Qp	1.1 / 9.25 / 26.11 / 0.0	26.49	V / 3.00 / 90	-17.01	n/a		
350.006 MHz	31.0 Qp	1.6 / 15.19 / 26.69 / 0.0	21.1	V / 3.00 / 90	-24.9	n/a		
374.7 MHz	31.7 Qp	1.63 / 15.5 / 26.61 / 0.0	22.22	V / 3.00 / 90	-23.78	n/a		
375.779 MHz	28.85 Qp	1.63 / 15.51 / 26.61 / 0.0	19.38	V / 3.00 / 90	-26.62	n/a		
376.901 MHz	31.45 Qp	1.64 / 15.61 / 26.61 / 0.0	22.08	V/3.00/90	-23.92	n/a		
400.012 MHz	29.75 Qp	1.7 / 16.3 / 26.7 / 0.0	21.05	V/3.00/90	-24.95	n/a		
56.03 MHz	35.5 Qp	0.6 / 12.7 / 25.9 / 0.0	22.9	V / 1.00 / 180	-17.1	n/a		
321.155 MHz	29.85 Qp	1.51 / 14.06 / 26.68 / 0.0	18.73	V / 1.00 / 180	-27.27	n/a		
323.015 MHz	29.25 Qp	1.51 / 14.0 / 26.69 / 0.0	18.07	V / 1.00 / 180	-27.93	n/a		

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File No. WC403349.1, Page A15 of A24



WC403349 Run 2	Test Area:	LTS			
BST2400A	Date:	8/3/2004			
	EUT Power:	60 Hz / 110 VAC	Temperature:	23.0	°C
FCC B			Air Pressure:	99.0	kPa
Next Net			Rel. Humidity:	65.0	%
-	WC403349 Run 2 BST2400A FCC B Next Net	WC403349 Run 2 Test Area: BST2400A Date: EUT Power: EUT Power: FCC B Next Net	WC403349 Run 2 Test Area: LTS BST2400A Date: 8/3/2004 EUT Power: 60 Hz / 110 VAC FCC B Next Net	WC403349 Run 2 Test Area: LTS BST2400A Date: 8/3/2004 EUT Power: 60 Hz / 110 VAC Temperature: FCC B Air Pressure: Air Pressure: Next Net Rel. Humidity: Rel. Humidity:	WC403349 Run 2 Test Area: LTS BST2400A Date: 8/3/2004 EUT Power: 60 Hz / 110 VAC Temperature: 23.0 FCC B Air Pressure: 99.0 Next Net Rel. Humidity: 65.0

EUT Description: 2.4 GHz TRx & Rcvr Basestation

Notes: Transmit mode. Receiver is disabled. Load instead of antenna.

Data File Name: 3349.dat

Page: 3 of 11

List of me	asureme	nts for run #: 2				
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	DELTA1	DELTA2
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC-B <1GHz	FCC B >1GHz
		(dB)			3m	3m
200.007 MHz	36.1 Qp	1.2 / 11.39 / 26.3 / 0.0	22.39	V / 1.00 / 270	-21.11	n/a
201.453 MHz	30.0 Qp	1.2 / 11.33 / 26.3 / 0.0	16.23	V / 1.00 / 270	-27.27	n/a
214.11 MHz	43.5 Qp	1.22 / 11.0 / 26.3 / 0.0	29.42	V / 1.00 / 270	-14.08	n/a
336.006 MHz	30.25 Qp	1.57 / 14.27 / 26.7 / 0.0	19.39	V / 1.00 / 270	-26.61	n/a
400.012 MHz	33.2 Qp	1.7 / 16.3 / 26.7 / 0.0	24.5	V / 1.00 / 270	-21.5	n/a
		•				
80.0 MHz	49.4 Qp	0.8 / 7.57 / 25.8 / 0.0	31.97	V / 2.90 / 270	-8.03	n/a
140.024 MHz	38.25 Qp	1.0 / 9.27 / 26.01 / 0.0	22.51	H/1.00/0	-20.99	n/a
168.012 MHz	40.7 Qp	1.07 / 9.1 / 26.05 / 0.0	24.82	H/1.00/0	-18.68	n/a
224.012 MHz	47.9 Qp	1.29 / 11.1 / 26.3 / 0.0	33.99	H / 1.00 / 0	-12.01	n/a
225.0 MHz	37.6 Qp	1.29 / 11.1 / 26.3 / 0.0	23.69	H/1.00/0	-22.31	n/a
321.155 MHz	38.85 Qp	1.51 / 14.06 / 26.68 / 0.0	27.73	H / 1.00 / 0	-18.27	n/a
323.015 MHz	38.5 Qp	1.51 / 14.0 / 26.69 / 0.0	27.32	H/1.00/0	-18.68	n/a
336.006 MHz	50.85 Qp	1.57 / 14.27 / 26.7 / 0.0	39.99	H/1.00/0	-6.01	n/a
350.006 MHz	38.3 Qp	1.6 / 15.19 / 26.69 / 0.0	28.4	H/1.00/0	-17.6	n/a
374.7 MHz	36.95 Qp	1.63 / 15.5 / 26.61 / 0.0	27.47	H / 1.00 / 0	-18.53	n/a
375.779 MHz	34.35 Qp	1.63 / 15.51 / 26.61 / 0.0	24.88	H/1.00/0	-21.12	n/a
376.901 MHz	36.6 Qp	1.64 / 15.61 / 26.61 / 0.0	27.23	H/1.00/0	-18.77	n/a
392.006 MHz	34.8 Qp	1.69 / 16.0 / 26.67 / 0.0	25.82	H/1.00/0	-20.18	n/a
176.956 MHz	30.7 Qp	1.1 / 9.4 / 26.12 / 0.0	15.08	H / 1.00 / 90	-28.42	n/a
392.006 MHz	36.85 Qp	1.69 / 16.0 / 26.67 / 0.0	27.87	H / 1.00 / 90	-18.13	n/a
140.024 MHz	39.6 Qp	1.0 / 9.27 / 26.01 / 0.0	23.86	H / 1.00 / 180	-19.64	n/a
168.012 MHz	45.5 Qp	1.07 / 9.1 / 26.05 / 0.0	29.62	H / 1.00 / 180	-13.88	n/a

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File No. WC403349.1, Page A16 of A24



WC403349 Run 2	Test Area:	LTS			
BST2400A	Date:	8/3/2004			
	EUT Power:	60 Hz / 110 VAC	Temperature:	23.0	°C
FCC B			Air Pressure:	99.0	kPa
Next Net			Rel. Humidity:	65.0	%
-	WC403349 Run 2 BST2400A FCC B Next Net	WC403349 Run 2 Test Area: BST2400A Date: EUT Power: EUT Power: FCC B Next Net	WC403349 Run 2 Test Area: LTS BST2400A Date: 8/3/2004 EUT Power: 60 Hz / 110 VAC FCC B Next Net	WC403349 Run 2 Test Area: LTS BST2400A Date: 8/3/2004 EUT Power: 60 Hz / 110 VAC Temperature: FCC B Air Pressure: Air Pressure: Next Net Rel. Humidity: Rel. Humidity:	WC403349 Run 2 Test Area: LTS BST2400A Date: 8/3/2004 EUT Power: 60 Hz / 110 VAC Temperature: 23.0 FCC B Air Pressure: 99.0 Next Net Rel. Humidity: 65.0

EUT Description: 2.4 GHz TRx & Rcvr Basestation

Notes: Transmit mode. Receiver is disabled. Load instead of antenna.

Data File Name: 3349.dat

Page: 4 of 11

List of me	List of measurements for run #: 2						
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	DELTA1	DELTA2	
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC-B <1GHz	FCC B >1GHz	
		(dB)			3m	3m	
214.11 MHz	43.95 Qp	1.22 / 11.0 / 26.3 / 0.0	29.87	H / 1.00 / 180	-13.63	n/a	
215.326 MHz	44.0 Qp	1.23 / 11.0 / 26.3 / 0.0	29.93	H / 1.00 / 180	-13.57	n/a	
224.012 MHz	50.15 Qp	1.29 / 11.1 / 26.3 / 0.0	36.24	H / 1.00 / 180	-9.76	n/a	
225.0 MHz	39.4 Qp	1.29 / 11.1 / 26.3 / 0.0	25.49	H / 1.00 / 180	-20.51	n/a	
140.0 MHz	40.4 Qp	1.0 / 9.26 / 26.02 / 0.0	24.65	H / 2.00 / 180	-18.85	n/a	
168.012 MHz	46.2 Qp	1.07 / 9.1 / 26.05 / 0.0	30.32	H / 2.00 / 180	-13.18	n/a	
392.006 MHz	41.6 Qp	1.69 / 16.0 / 26.67 / 0.0	32.62	H / 2.00 / 270	-13.38	n/a	
350.006 MHz	39.8 Qp	1.6 / 15.19 / 26.69 / 0.0	29.9	H / 1.00 / 270	-16.1	n/a	
392.006 MHz	41.15 Qp	1.69 / 16.0 / 26.67 / 0.0	32.17	H / 2.00 / 270	-13.83	n/a	
		-			•		
336 MHz maxed							
336.016 MHz	52.43 Qp	1.57 / 14.27 / 26.7 / 0.0	41.57	H / 1.00 / 129	-4.43	n/a	
350.006 MHz	41.95 Qp	1.6 / 15.19 / 26.69 / 0.0	32.05	H / 1.00 / 129	-13.95	n/a	
224 MHz maxed							
224.012 MHz	52.08 Qp	1.29 / 11.1 / 26.3 / 0.0	38.17	H / 1.30 / 40	-7.83	n/a	
200.007 MHz	37.6 Qp	1.2 / 11.39 / 26.3 / 0.0	23.89	H / 1.30 / 40	-19.61	n/a	
214.11 MHz	47.25 Qp	1.22 / 11.0 / 26.3 / 0.0	33.17	H / 1.30 / 40	-10.33	n/a	
215.326 MHz	47.35 Qp	1.23 / 11.0 / 26.3 / 0.0	33.28	H / 1.30 / 40	-10.22	n/a	
225.0 MHz	41.8 Qp	1.29 / 11.1 / 26.3 / 0.0	27.89	H / 1.30 / 40	-18.11	n/a	
MID RANGE FR	EQUENCY SE	TTING = 2.440 GHz:					
140.0 MHz	38.7 Qp	1.0 / 9.26 / 26.02 / 0.0	22.95	H / 1.30 / 40	-20.55	n/a	
160.609 MHz	33.85 Qp	1.01 / 9.0 / 25.98 / 0.0	17.87	H / 1.30 / 40	-25.63	n/a	
161.473 MHz	34.8 Qp	1.01 / 9.0 / 25.99 / 0.0	18.82	H / 1.30 / 40	-24.68	n/a	
168.012 MHz	43.0 Qp	1.07 / 9.1 / 26.05 / 0.0	27.12	H / 1.30 / 40	-16.38	n/a	
175.005 MHz	36.95 Qp	1.1 / 9.25 / 26.11 / 0.0	21.19	H / 1.30 / 40	-22.31	n/a	

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File No. WC403349.1, Page A17 of A24



Fest Report #:	WC403349 Run 2	Test Area:	LTS			
EUT Model #:	BST2400A	Date:	8/3/2004			
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Temperature:	23.0	°C
Test Method:	FCC B			Air Pressure:	99.0	kPa
Customer:	Next Net			Rel. Humidity:	65.0	%

EUT Description: 2.4 GHz TRx & Rcvr Basestation

Notes: Transmit mode. Receiver is disabled. Load instead of antenna.

Data File Name: 3349.dat

Page: 5 of 11

List of measurements for run #: 2									
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	DELTA1	DELTA2			
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC-B <1GHz	FCC B >1GHz			
		(dB)			3m	3m			
200.007 MHz	37.9 Qp	1.2 / 11.39 / 26.3 / 0.0	24.19	H / 1.30 / 40	-19.31	n/a			
214.11 MHz	47.5 Qp	1.22 / 11.0 / 26.3 / 0.0	33.42	H / 1.30 / 40	-10.08	n/a			
215.326 MHz	47.65 Qp	1.23 / 11.0 / 26.3 / 0.0	33.58	H / 1.30 / 40	-9.92	n/a			
224.012 MHz	52.5 Qp	1.29 / 11.1 / 26.3 / 0.0	38.59	H / 1.30 / 40	-7.41	n/a			
225.0 MHz	41.85 Qp	1.29 / 11.1 / 26.3 / 0.0	27.94	H / 1.30 / 40	-18.06	n/a			
321.155 MHz	39.3 Qp	1.51 / 14.06 / 26.68 / 0.0	28.18	H / 1.30 / 40	-17.82	n/a			
336.016 MHz	50.65 Qp	1.57 / 14.27 / 26.7 / 0.0	39.79	H / 1.30 / 40	-6.21	n/a			
224 MHz maxed	:					-			
224.012 MHz	52.98 Qp	1.29 / 11.1 / 26.3 / 0.0	39.07	H / 1.40 / 46	-6.93	n/a			
336 MHz maxed	:								
336.016 MHz	52.56 Qp	1.57 / 14.27 / 26.7 / 0.0	41.7	H / 1.30 / 25	-4.3	n/a			
No higher levels	noted with cab	ble movement.							
168 MHz maxed			-						
168.012 MHz	48.23 Qp	1.07 / 9.1 / 26.05 / 0.0	32.35	V / 1.00 / 123	-11.15	n/a			
127.136 MHz	38.2 Qp	0.97 / 8.69 / 26.05 / 0.0	21.81	V / 1.00 / 123	-21.69	n/a			
175.005 MHz	39.35 Qp	1.1 / 9.25 / 26.11 / 0.0	23.59	V / 1.00 / 123	-19.91	n/a			
1.288 GHz	39.39 Av	3.11 / 26.57 / 40.59 / 0.0	28.48	H / 1.00 / 122	n/a	-25.52			
4.88 GHz	40.75 Av	6.39 / 34.76 / 44.04 / 0.0	37.87	H / 1.00 / 159	n/a	-16.13			
RETURNING TO) 2.476 GHz O	PERATING RANGE:							
No harmonics or	spurious emis	sions detected 1 GHz to 12.4 G	Hz, vert and ho	r ant.					
140.0 MHz	30.75 Qp	1.0 / 9.26 / 26.02 / 0.0	15.0	H/1.00/0	-28.5	n/a			

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File No. WC403349.1, Page A18 of A24



Test Report #:	WC403349 Run 2	Test Area:	LTS			
EUT Model #:	BST2400A	Date:	8/3/2004			
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Temperature:	23.0	°C
Test Method:	FCC B			Air Pressure:	99.0	kPa
Customer:	Next Net			Rel. Humidity:	65.0	%

EUT Description: 2.4 GHz TRx & Rcvr Basestation

Notes: Transmit mode. Receiver is disabled. Load instead of antenna.

Data File Name: 3349.dat

Page: 6 of 11

List of me	List of measurements for run #: 2									
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	DELTA1	DELTA2				
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC-B <1GHz	FCC B >1GHz				
		(dB)	. ,		3m	3m				
160.609 MHz	29.7 Qp	1.01 / 9.0 / 25.98 / 0.0	13.72	H / 1.00 / 0	-29.78	n/a				
161.473 MHz	29.9 Qp	1.01 / 9.0 / 25.99 / 0.0	13.92	H / 1.00 / 0	-29.58	n/a				
168.012 MHz	38.5 Qp	1.07 / 9.1 / 26.05 / 0.0	22.62	H / 1.00 / 0	-20.88	n/a				
175.005 MHz	30.55 Qp	1.1 / 9.25 / 26.11 / 0.0	14.79	H / 1.00 / 0	-28.71	n/a				
200.007 MHz	29.3 Qp	1.2 / 11.39 / 26.3 / 0.0	15.59	H / 1.00 / 0	-27.91	n/a				
214.11 MHz	39.85 Qp	1.22 / 11.0 / 26.3 / 0.0	25.77	H/1.00/0	-17.73	n/a				
215.326 MHz	39.3 Qp	1.23 / 11.0 / 26.3 / 0.0	25.23	H/1.00/0	-18.27	n/a				
224.012 MHz	43.1 Qp	1.29 / 11.1 / 26.3 / 0.0	29.19	H / 1.00 / 0	-16.81	n/a				
225.0 MHz	32.35 Qp	1.29 / 11.1 / 26.3 / 0.0	18.44	H / 1.00 / 0	-27.56	n/a				
321.155 MHz	31.75 Qp	1.51 / 14.06 / 26.68 / 0.0	20.63	H / 1.00 / 0	-25.37	n/a				
323.015 MHz	31.1 Qp	1.51 / 14.0 / 26.69 / 0.0	19.92	H / 1.00 / 0	-26.08	n/a				
336.016 MHz	43.65 Qp	1.57 / 14.27 / 26.7 / 0.0	32.79	H / 1.00 / 0	-13.21	n/a				
350.006 MHz	30.6 Qp	1.6 / 15.19 / 26.69 / 0.0	20.7	H / 1.00 / 0	-25.3	n/a				
392.006 MHz	27.85 Qp	1.69 / 16.0 / 26.67 / 0.0	18.87	H/1.00/0	-27.13	n/a				
400.012 MHz	27.0 Qp	1.7 / 16.3 / 26.7 / 0.0	18.3	H/1.00/0	-27.7	n/a				
336 MHz maxed										
336.004 MHz	50.38 Qp	1.57 / 14.27 / 26.7 / 0.0	39.52	H / 1.00 / 97	-6.48	n/a				
168.012 MHz	41.6 Qp	1.07 / 9.1 / 26.05 / 0.0	25.72	H / 1.00 / 97	-17.78	n/a				
175.005 MHz	38.05 Qp	1.1 / 9.25 / 26.11 / 0.0	22.29	H / 1.00 / 97	-21.21	n/a				
224.012 MHz	37.7 Qp	1.29 / 11.1 / 26.3 / 0.0	23.79	H / 1.00 / 97	-22.21	n/a				
350.006 MHz	39.25 Qp	1.6 / 15.19 / 26.69 / 0.0	29.35	H / 1.00 / 97	-16.65	n/a				
392.006 MHz	38.95 Qp	1.69 / 16.0 / 26.67 / 0.0	29.97	H / 1.00 / 97	-16.03	n/a				
224 MHz maxed										
224.012 MHz	45.45 Qp	1.29 / 11.1 / 26.3 / 0.0	31.54	V / 1.00 / 78	-14.46	n/a				

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File No. WC403349.1, Page A19 of A24



n/a

Test Report	#: WC40334	49 Run 2	Test Area:	LTS				
EUT Model	#: BST2400	A	Date:	8/3/2004				
EUT Serial	#:		EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Metho	d: FCC B				Air Pres	sure:	99.0	kPa
Custome	er: Next Net				Rel. Hum	idity:	65.0	%
EUT Descriptio	n: 2.4 GHz	TRx & Rcvr Basestation						
Note	s: Transmit	mode. Receiver is disabled.	Load instead	of antenna.				
Data File Nam	e: 3349.dat					Page:	7 of	11
List of me	asureme	nts for run #: 2						
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP ATTEN (dB)	?/ FINAL (dBu∀/)	m) POL / HGT / AZ (m)(DEG)	DELTA1 FCC-B <1G 3m	DELTA1 D CC-B <1GHz FCC 3m		A2 1GHz
140.0 MHz	40.75 Qp	1.0 / 9.26 / 26.02 / 0.0	25.0	V / 1.00 / 78	-18.5		n/a	
168.012 MHz	44.0 Qp	1.07 / 9.1 / 26.05 / 0.0	28.12	V / 1.00 / 78	-15.38		n/a	
226 MHz mayod:								

336.004 MHz 47.8 Qp 1.57 / 14.27 / 26.7 / 0.0 36.94 H / 1.30 / 193

No further significant EUT emissions detected 30 MHz to 12.4 GHz, vert and hor ant.

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File No. WC403349.1, Page A20 of A24

-9.06

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Test Report #:	WC403349 Run 2	Test Area:	LTS			
EUT Model #:	BST2400A	Date:	8/3/2004			
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Temperature:	23.0	°C
Test Method:	FCC B			Air Pressure:	99.0	kPa
Customer:	Next Net			Rel. Humidity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Basestation					
Notes:	Transmit mode. Receiver is disabled	. Load instead	of antenna.			

Data File Name: 3349.dat

Page: 8 of 11

Measurement summary for limit1: FCC-B <1GHz 3m (Qp)								
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	DELTA1			
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC-B <1GHz			
		(dB)			3m			
336.016 MHz	52.56 Qp	1.57 / 14.27 / 26.7 / 0.0	41.7	H / 1.30 / 25	-4.3			
224.012 MHz	52.98 Qp	1.29 / 11.1 / 26.3 / 0.0	39.07	H / 1.40 / 46	-6.93			
80.0 MHz	49.4 Qp	0.8 / 7.57 / 25.8 / 0.0	31.97	V / 2.90 / 270	-8.03			
215.326 MHz	47.65 Qp	1.23 / 11.0 / 26.3 / 0.0	33.58	H / 1.30 / 40	-9.92			
214.11 MHz	47.5 Qp	1.22 / 11.0 / 26.3 / 0.0	33.42	H / 1.30 / 40	-10.08			
168.012 MHz	48.23 Qp	1.07 / 9.1 / 26.05 / 0.0	32.35	V / 1.00 / 123	-11.15			
44.425 MHz	37.3 Qp	0.6 / 15.6 / 25.9 / 0.0	27.6	V / 1.00 / 0	-12.4			
392.006 MHz	41.6 Qp	1.69 / 16.0 / 26.67 / 0.0	32.62	H / 2.00 / 270	-13.38			
350.006 MHz	41.95 Qp	1.6 / 15.19 / 26.69 / 0.0	32.05	H / 1.00 / 129	-13.95			
65.125 MHz	37.75 Qp	0.7 / 10.58 / 25.9 / 0.0	23.13	V / 1.00 / 0	-16.87			
175.005 MHz	42.25 Qp	1.1 / 9.25 / 26.11 / 0.0	26.49	V / 3.00 / 90	-17.01			
56.03 MHz	35.5 Qp	0.6 / 12.7 / 25.9 / 0.0	22.9	V / 1.00 / 180	-17.1			
321.155 MHz	39.3 Qp	1.51 / 14.06 / 26.68 / 0.0	28.18	H / 1.30 / 40	-17.82			
225.0 MHz	41.85 Qp	1.29 / 11.1 / 26.3 / 0.0	27.94	H / 1.30 / 40	-18.06			
140.0 MHz	40.75 Qp	1.0 / 9.26 / 26.02 / 0.0	25.0	V / 1.00 / 78	-18.5			
374.7 MHz	36.95 Qp	1.63 / 15.5 / 26.61 / 0.0	27.47	H / 1.00 / 0	-18.53			
323.015 MHz	38.5 Qp	1.51 / 14.0 / 26.69 / 0.0	27.32	H / 1.00 / 0	-18.68			
376.901 MHz	36.6 Qp	1.64 / 15.61 / 26.61 / 0.0	27.23	H / 1.00 / 0	-18.77			
200.007 MHz	37.9 Qp	1.2 / 11.39 / 26.3 / 0.0	24.19	H / 1.30 / 40	-19.31			
375.779 MHz	34.35 Qp	1.63 / 15.51 / 26.61 / 0.0	24.88	H / 1.00 / 0	-21.12			
78.039 MHz	36.15 Qp	0.76 / 7.74 / 25.8 / 0.0	18.85	V / 1.00 / 0	-21.15			
400.012 MHz	33.2 Qp	1.7 / 16.3 / 26.7 / 0.0	24.5	V / 1.00 / 270	-21.5			
75.872 MHz	35.15 Qp	0.72 / 8.24 / 25.8 / 0.0	18.31	V / 1.00 / 0	-21.69			
127.136 MHz	38.2 Qp	0.97 / 8.69 / 26.05 / 0.0	21.81	V / 1.00 / 123	-21.69			
161.473 MHz	35.6 Qp	1.01 / 9.0 / 25.99 / 0.0	19.62	V/3.00/90	-23.88			

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File No. WC403349.1, Page A21 of A24



Test Report #:	WC403349 Run 2	Test Area:	LTS			
EUT Model #:	BST2400A	Date:	8/3/2004			
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Temperature:	23.0	°C
Test Method:	FCC B			Air Pressure:	99.0	kPa
Customer:	Next Net			Rel. Humidity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Basestation					

Notes: Transmit mode. Receiver is disabled. Load instead of antenna.

Data File Name: 3349.dat

Page: 9 of 11

Measurement summary for limit1: FCC-B <1GHz 3m (Qp)								
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL/HGT/AZ	DELTA1			
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC-B <1GHz			
		(dB)			3m			
160.609 MHz	33.85 Qp	1.01 / 9.0 / 25.98 / 0.0	17.87	H / 1.30 / 40	-25.63			
120.0 MHz	33.25 Qp	0.9 / 9.51 / 25.96 / 0.0	17.7	V / 1.00 / 0	-25.8			
160.066 MHz	33.6 Qp	1.0 / 9.0 / 25.98 / 0.0	17.62	V/1.00/0	-25.88			
201.453 MHz	30.0 Qp	1.2 / 11.33 / 26.3 / 0.0	16.23	V / 1.00 / 270	-27.27			
176.956 MHz	30.7 Qp	1.1 / 9.4 / 26.12 / 0.0	15.08	H / 1.00 / 90	-28.42			

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File No. WC403349.1, Page A22 of A24

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Test Report #:	WC403349 Run 2	Test Area:	LTS				
EUT Model #:	BST2400A	Date:	8/3/2004				
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	99.0	kPa
Customer:	Next Net			Rel. Hum	idity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Basestation						
Notes:	Transmit mode. Receiver is disabled.	Load instead	of antenna.				
Data File Name:	3349.dat				Page:	10 c	of 11

Measurement summary for limit2: FCC B >1GHz 3m (Av)						
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL / HGT / AZ	DELTA2	
	(dBuV)	ATTEN	(dBuV / m)	(m)(DEG)	FCC B >1GHz	
		(dB)			3m	
4.88 GHz	40.75 Av	6.39 / 34.76 / 44.04 / 0.0	37.87	H / 1.00 / 159	-16.13	
1.036 GHz	38.67 Av	2.79 / 26.42 / 38.8 / 0.0	29.08	V / 1.70 / 131	-24.92	
1.008 GHz	37.93 Av	2.75 / 26.4 / 38.34 / 0.0	28.75	V / 1.70 / 131	-25.25	
1.288 GHz	39.39 Av	3.11 / 26.57 / 40.59 / 0.0	28.48	H / 1.00 / 122	-25.52	

Tested	bv.	J. C	Sause
resieu	Dy.	0.0	. ouusc

en

Printed

GC Sausan Signature Thomes K. Swamon Signature

Reviewed by:

TKS Printed

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Test Report #:	WC403349 Run 2	Test Area:	LTS				
EUT Model #:	BST2400A	Date:	8/3/2004				
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	99.0	kPa
Customer:	Next Net			Rel. Hum	idity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Basestation						
Notes:	Transmit mode. Receiver is disabled	Load instead	of antenna.				
Data File Name:	3349.dat				Page:	11 c	f 11

Graph:



Tested by: J. C. Sausen

Printed

Printed

TKS

GC Sauson Signature

Reviewed by:

Thomas K. Swamon Signature

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T1"R /

	PRODUCT SERVICE
Appendix B	
Constructional Data Form(c)	
and/or	
Product Information Form(s)	
	File No. WC403349.1, Page B1 of B8
TÜV PRODUCT SERVICE INC 19333 Wild Mountain Road Taylors Falls MN 55084-1758	Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0



EMC Test Plan and Constructional Data Form

PLEASE COMPLETE TH		ING N/A	IF THE FIELD	D IS NO	DT APPLICABLE
Applicant NOTE: TH	his information will be input into	your te	st report as s	shown	below.
Press the F1 key at any t	time to get HELP for the current	field sel	ected.		
Company:	NextNet Wireless, Inc.				
Address:	9555 James Avenue Sou	th			
	Suite 270				
	Bloomington, MN 55431				
Contact:	Tim Blom		Positio	n:	Principal Engineer
Phone:	507-837-1057 x212		Fax:	-	507-837-1059
E-mail Address:	blomt@nextnetwireless.co	om			
General Equipment	Description NOTE: This is	nformati	on will be in	put into	your test report as shown below.
FUT Description	ISM Base Site Equipment	ł			· ·
EUT Name	Expedience				
Model No :	900-0046-1XXX		Serial	No ·	RE board #
induct from				-	24BTS00060304BTW04
Product Options:	none				
Configurations to be	tested: standard				
Test Objective					
EMC Directive 89	/336/EEC (EMC)	\boxtimes	FCC:	Clas	is 🗌 A 🛛 B Part
Std:			VCCI:	Clas	s 🗌 A 🗌 B
Machinery Directiv	ve 89/392/EEC (EMC		BCIQ:	Clas	s 🗆 A 🗆 B
Std:			Canada:	Clas	s 🗌 A 🗌 B
Medical Device D	irective 93/42/EEC (EMC)		Australia:	Clas	s 🗌 A 🗌 B
Std: Vehicle Directive Std: DA Reviewers G Notification Sub	72/245/EEC (EMC) Suidance for Premarket missions (EMC)	-	Other: _		

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Form EMC Test	Plan and Cor	nstruction	al Data Fo	orm	TUV PRODUCT SERVICE
TÜV Product S	Service Certification	on Requested			
Attestation	of Conformity (AoC))	Internat	tional EMC Mark (IEN	A)
Protection (lass (N/A for yehi	(aal)			
(Press F1 when	field is selected to	show additional	information o	n Protection Class.)	
Attendance					
Test will be:	Attended by t	he customer	Unatter	nded by the customer	T
Failure - Com	plete this section	if testing will r	not be attende	ed by the customer.	
If a failure occu Call contact Continue to	rs, TUV Product Se t listed above, if no esting to complete t	ervice should: at available then test series.	stop testing.	(After hrs phone):	
Stop testin	esung to define con g.	ecuve action.			
EUT Specifica	tions and Require	ments			
Length 20.5"	Width:	8"	Height:	3.25" We	eight: 9.6 lbs
- :					
Power Require	ements				
Regulations requi European power i	ire testing to be perfor is typically 230 VAC 50	med at typical pov Hz or 400 VAC 50	wer ratings in the Hz, single and t	e countries of intended u hree phase, respectively	se. (i.e.,)
Voltage:	120	(If battery powere	d, make sure bat	tery life is sufficient to com	plete testing.)
# of Phases:	1				
Current		Current			
(Amps/phase(n	nax)): <u>3</u>	(Amps/pl	hase(nominal)): 1.5	
Other					
Other Special	Requirements				
N/A					
Typical Install	ation and/or Opera	ating Environm	nent (etc.)		
	tting, fixed equipme	ent location, resi	idential light p	ole.	
Industrial se					
Industrial se					
EUT Power Ca	able				
EUT Power Ca	able nt OR ⊠ R OR □ U	emovable Inshielded	Lengt	h (in meters): 10	
EUT Power Ca Permaner Shielded Not Applic	able nt OR ⊠ R OR □ U able	emovable inshielded	Lengt	h (in meters): <u>10</u>	

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EMC Test Plan and Constructional Data Form

EUT Interface	Po	rts	and	Cab	les						
Interface				Shi	ieldir	ng					
Туре	Analog	Digital	Qty	Yes	No	Туре	Termination	Connector Type	Port Termination	Length (in meters)	Removable Permanent
EXAMPLE: RS232		x	2	×		Foil over braid	Coaxial	Metallized 9- pin D-Sub	Characteristic Impedance	6	×□
Ethernet/DC			1		Ø	CAT-5	internal	RJ-45/circular	100 ohm	10	

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Form			
EMC Test Plan and Co	onstructional Dat	ta Form	PRODUCT SERVICE
EUT Software.			
Revision Level: 1.2			
Description: Expedience 2	.4 GHz base software		
EUT Operating Modes to be equipment be tested while operating in that a simple program generate a compl algorithms used in the equipment. List a Consult with your TUV Product Service F	Tested list the operating a typical operation mode. FCG ete line of upper case H's. Pro II code modules as described a Representative if additional ass	g modes to be used during C testing of personal compu vide a general description of bove, with the revision level istance is required.	test. It is recommended the ters and/or peripherals requires all software, firmware, and PLD used during testing.
1. Base site transmit. FCC	Part 15C	stance is required.	
2. Base site receive. FCC	Part 15B		
3.			
EUT System Components Lis	t and describe all components	which are part of the EUT. F	For FCC testing a minimum
Description	Model #	Serial #	FCC ID #
Base transmitter / receiver	900-0046-1XXX	RF board #'s 24BTS00060304B TW04	PHX-BTS2400A

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EMC Test Plan and Constructional Data Form

Description			Mod	el#	Serial #	FCC ID #		
Dell laptop co	mpute	er	Insp	iron 5000	000832RM- 12961-04R-04	N/A 141		
D-Link switch			DSS	8-5+	B2053350317	5 N/A		
Oscillator Fre	anei	ncies						
	Der	ived						
Frequency	Fre	quency	Com	ponent # / Locat	ion	Description of Use		
20.000MHz	Ν		Y90	2		TCXO for main stability		
1100 kHz / 200kHz	Ν		U1,	U5		power supply switchers		
32.768 kHz	Ν		Y20	1, U219		real time clock		
25 MHz 28 MHz 42 MHz 45 MHz	Y	U210			bus clock			
Power Supply	y							
Manufacturer		Model #		Serial #	Type			
Globetek		GT-21097 5024-4.5	-	n/a	Switched Switched	d-mode: (Frequency) 100 kHz		
					🗌 Linear	Other:		
					Switched	d-mode: (Frequency)		
Power Line F	ilters							
		Mod	el #		Location in EU	Т		
Manufacturer								
Manufacturer N/A								

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EMC Test Plan and Constructional Data Form

Critical EMI Componen	ts (Capacitors, ferrites	s, etc.)		
Description	Manufacturer	Part # or Value	Qty	Component # / Location
EMC Californi Datalli a				-

N/A

(PLEASE INSERT "ELECTRONIC SIGNATURE" BELOW IF POSSIBLE)

Authorization Signatures							
/s/ Tim Blom	8/2/2004						
Customer authorization to perform tests according to this test plan.	Date						
Test Plan/CDF Prepared By (please print)	Date						
Reviewed by TÜV Product Service Associate	Date						

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EMC Block Diagram Form



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Appendix C					
MEASUREMENT PROTOCOL					
GENERAL INFORMATION					
<u>Test Methodology</u> Conducted and radiated emission testing is performed according to the procedures in International Special Committee on Radio Interference (CISPR) Publication 22 (1993), European Standard EN 55022 and Australian Standard AS 3548 (which are based on CISPR 22).					
The Japanese standard, "Voluntary Control Council for Interference (VCCI) by Data Processing Equipment and Electronic Office Machines, Technical Requirements" is technically equivalent to CISPR 22 (1993). For official compliance, a conformance report must be sent to and accepted by the VCCI.					
In compliance with FCC Docket 92-152, "Harmonization of Rules for Digital Devices Incorporate International Standards", testing for FCC compliance may be done following the ANSI C63.4-1992 procedures and using the CISPR 22 Limits.					
Measurement Uncertainty The test system for conducted emissions is defined as the LISN, tuned receiver or spectrum analyzer, and coaxial cable. The test system for radiated emissions is defined as the antenna, the pre-amplifier, the spectrum analyzer and the coaxial cable. These test systems have a measurement uncertainty of ±4.8 dB. The equipment comprising the test systems are calibrated on an annual basis.					
<u>Justification</u> The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into it's characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.					
CONDUCTED EMISSIONS The final level, expressed in dB μ V, is arrived at by taking the reading directly from the EMI receiver. This level is compared directly to the CISPR limit.					
To convert between dBμV and μV, the following conversions apply: dBμV = 20(log μV) μV = Inverse log(dBμV/20)					
RADIATED EMISSIONS The final level, expressed in dBµV/m, is arrived at by taking the reading from the spectrum analyzer (Level dBµV), adding the antenna correction factor and cable loss factor (Factor dB) to it, then subtracting the preamp gain. This result then has the CISPR limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets in Attachment A.					
Example: FREQ LEVEL CABLE/ANT/PREAMP FINAL POL/HGT/AZ DELTA1 (MHz) (dBuV) (dB) (dB/m) (dB) (dBuV/m) (m) (deg) EN 55022 A					
60.80 42.5Qp + 1.2 + 10.9 - 25.5 = 29.1 V 1.0 0.0 -10.9					
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Taylors Falls MN 55084-1758

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TÜV PRODUCT SERVICE INC 19333 Wild Mountain Road

Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0



DETAILS OF TEST PROCEDURES

General Standard Information

The test methods used comply with ANSI C63.4-1992 - "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz."

Conducted Emissions

Conducted emissions on the 50 Hz and/or 60 Hz power interface of the EUT are measured in the frequency range of 150 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection, and a Line Impedance Stabilization Network (LISN), with $50 \ \Omega/50 \ \mu$ H (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeters above the floor and is positioned 40 centimeters from the vertical ground plane (wall) of the screen room. In some cases, a pre-scan using a spectrum analyzer is initially performed on the units comprising the system under test to locate the highest emissions. If the minimum passing margin appears to be less than 20 dB with a peak mode measurement, the emissions are re-measured using a tuned receiver or spectrum analyzer with quasi-peak and average detection and recorded on the data sheets.

Radiated Emissions

Radiated emissions from the EUT are measured in the frequency range of 30 to 12400 MHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection and measurements above 1000 MHz are made with a 1 MHz/6 dB bandwidth and peak detection. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 3, 10 or 30 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees. The transmitter is rotated through 3 orthogonal axes in order to determine the maximum emission levels.

File No. WC403349.1, Page C2 of C2 TÜV PRODUCT SERVICE INC 19333 Wild Mountain Road Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0