Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS8 13Mbps 20M-BW)-Adapter 1 -Channel 1

Antenna	Frequency	Reading Level	Correction Factor	Emission Level	Detector
Pole	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	
Horizontal	2412	62.570	29.730	92.300	Peak
Horizontal	2412	47,851	29.736	77,587	Average
Vertical	2412	75.910	29.730	105.640	Peak
Vertical	2412	60.002	29.736	89.738	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=30Hz

Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Detector
Horizontal	2389.1	92.300	40.742	51.558	Peak
Horizontal	2390	77.587	42.678	34.909	Average
Vertical	2389.1	105.640	40.742	64.898	Peak
Vertical	2390	89.738	42.678	47.060	Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = F - Δ

F = Fundamental field Strength (Peak or Average)



	Реак Det	ector of cond	lucted Band Ed	ge Delta	
🛙 Agilent Spectrum Analyzer -	Swept SA				
	DOOOOO GHz		ALIGNAUTO Avg Type: Log-Pwr Avg Hold:>100/100	04:36:17 PM Apr 06, 2009 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N	Save As
Ref Offset -1 10 dB/div Ref 0.00 d		Atten: 20 dB	Mk	r1 2.412 5 GHz -7.045 dBm	Sav
-10.0 -20.0 -30.0			2	<u>1</u>	File/Folde Lis
40.0 50.0 60.0		nicologia the way and the	3 Multimeter		File name
90.0					Save A type
Start 2.33000 GHz Res BW 1.0 MHz	#VE 2.412 5 GHz	3W 1.0 MHz -7.045 dBm	#Sweep	Stop 2.43000 GHz 500 ms (1001 pts) FUNCTION VALUE	🏂 Up Or Lev
2 N 1 f 3 N 1 f 4 5 6 7	2.400 0 GHz 2.389 1 GHz	-33,865 dBm -47.787 dBm			Create Ne Folde
7 8 9 10 11 12					Canc
ISG			STATUS	ADC Over Range	

💴 Agilent Spectrum Analyzer -	Swept SA				
	000000 GHz	AC SENSE:INT	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 2/100	04:41:23 PM Apr 06, 2009 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Save As
Ref Offset -1 10 dB/div Ref 0.00 d		Atten: 20 dB		r1 2.408 7 GHz -23.884 dBm	Save
-10.0 -20.0 -30.0				1	File/Folde Lis
-40.0 -50.0 -60.0			3		File name
-70.0 -80.0					Save A type
Start 2.33000 GHz #Res BW 1.0 MHz	×		Sweep	Stop 2.43000 GHz 7.80 s (1001 pts)	Dup One Leve
1 N 1 f 2 N 1 f 3 N 1 f 4	2.408 7 GHz 2.400 0 GHz 2.390 0 GHz	-23.884 dBm -50.167 dBm -66.562 dBm			Create Nev ờ Create Nev
8 9 10 11 12					Cance
MSG			STATUS	ADC Over Range	

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS8 13Mbps 20M-BW)-Adapter 1 -Channel 11

Antenna	Frequency	Reading Level	Correction Factor	Emission Level	Detector
Pole	[MHz]	[dB(uV)]	[dB/m]	[dB(uV/m)]	
Horizontal	2462	60.639	29.944	90.583	Peak
Horizontal	2462	46.367	29.992	76.289	Average
Vertical	2462	68.340	29.953	98.292	Peak
Vertical	2462	53.314	29.952	83.266	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=30Hz

Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Detector
Horizontal	2483.5	90.583	42.541	48.042	Peak
Horizontal	2483.5	76.289	42.868	29.421	Average
Vertical	2483.5	98.292	42.541	55.751	Peak
Vertical	2483.5	83.266	42.868	40.398	Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = $F - \Delta$

F = Fundamental field Strength (Peak or Average)



Peak De	tector of conduc	cted Band Ed	ge Delta	
🗊 Agilent Spectrum Analyzer - Swept SA				
X 50 Ω Marker 1 2.465700000000 GHz Input: RF PNO: Fast IFGaint.or		ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 38/100	04:39:38 PM Apr 06, 2009 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Save As
Ref Offset -10 dB 10 dB/div Ref 0.00 dBm	Save			
-10.0 -20.0 -30.0				File/Folder List
-40.0 /	Mush Harbel warder and row man	مستوعيت مريدور ووالع مراسع المتواسع المراسع	and a second a second a second a	File name:
-70.0				Save As type:
Start 2.45000 GHz #Res BW 1.0 MHz #W MKR MODE TRO SCI X 1 N 1 f 2.465 7 GHz			Stop 2.55000 GHz 500 ms (1001 pts) FUNCTION VALUE	Dp One
2 N 1 f 2.463 5 GHz 3 4 4 5 6 7 9				Create New Folder
7 8 9 10 11 11 12 12				Cance
MSG		STATUS	ADC Over Range	

💴 Agilent Sp		er - Swept SA					
⋈ Marker 1	^{50 Ω}	00000000 GHz		Avg Type	ALIGNAUTO : Log-Pwr 2/100	04:39:03 PM Apr 06, 2009 TRACE 1 2 3 4 5 6 TYPE MWWWWMA	Save As
10 dB/div	Ref Offse Ref 0.0	IFGain				DET P NNNNN 1 2.463 6 GHz -24.025 dBm	Save
-10.0 -20.0 -30.0	1	~~~~					File/Folder List
-40.0 -50.0 -60.0							File name:
-70.0 -80.0 -90.0							Save As type:
#Res BW	RC SCL	× ×	#VBW 10 Hz			top 2.55000 GHz 7.80 s (1001 pts) FUNCTION VALUE	
2 N 3 4 5 6	1 f 1 f	2.463 6 G 2.483 5 G					Create New Folder
7 8 9 10 11 12							Cance
MSG					STATUS	LADC Over Range	

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS8 27Mbps 40M-BW)-Adapter 1 -Channel 1

Antenna	Frequency	Reading Level	Correction Factor	Emission Level	Detector
Pole	[MHz]	[dBuV]	[dB/m]	[dBuV/m]	
Horizontal	2422	64.045	29.752	93.797	Peak
Horizontal	2422	46.663	29.789	76.452	Average
Vertical	2422	72.335	29.774	102.109	Peak
Vertical	2422	52.263	29.784	82.047	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=30Hz

Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Detector
Horizontal	2390	93.797	36.178	57.619	Peak
Horizontal	2390	76.452	32.02	44.432	Average
Vertical	2390	102.109	36.178	65.931	Peak
Vertical	2390	82.047	32.02	50.027	Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements

per the Marker-Delta Method with the following formula:

Band Edge field Strength = F - Δ

F = Fundamental field Strength (Peak or Average)



	เล	ge Dei	and Ed	licted .	conc	or of	Detect	Реак					
								wept SA	alyzer - S		t Spect	gilent	
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Sav	6 2 GHz 95 dBm	r1 2.426	Mk	20.07	0 dB	Atten: 20	ain:Low	dB	ffset -10				
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type												Ľ	-90.0
A Up On	5000 GHz 1001 pts)		#Sweep		2	1.0 MHz	#VBW				2.350 3W 1		
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ectrum Analyzer - Swept SA	
50 x AC SENSE:INT ALIGNAUTO 04:44:55 PM Apr 06, 2005 1 2.426200000000 GHz AVg Type: Log-Pwr Trace [1 2:3 4:5 5 Trace [2 3:4 5:5 5 Image: Data of the part of th	Save As
Ref Offset -10 dB Mkr1 2.426 2 GHz	Save
Ref 0.00 dBm -33.53 dBm	
	File/Folder List
manutes manufactures	
	File name
3	
	Save A
	type
5000 GHz Stop 2.45000 GHz / 1.0 MHz #VBW 10 Hz Sweep 7.80 s (1001 pts)	
FILO MINE2 #VBW 10 H2 Sweep 7.80 S (100 Fpts) TRC[sct] X Y Function Function width Function value	Leve
1 f 2.426 2 GHz -33.53 dBm 1 f 2.400 0 GHz -53.98 dBm	1
1 f 2.390 0 GHz -65.54 dBm	Create New
	Folde
	Cance
STATUS	

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS8 27Mbps 40M-BW)-Adapter 1 -Channel 7

Antenna	Frequency	Reading Level	Correction Factor	Emission Level	Detector
Pole	[MHz]	[dB(uV)]	[dB/m]	[dB(uV/m)]	
Horizontal	2452	58.534	29.914	88.449	Peak
Horizontal	2452	40.629	29.876	70.050	Average
Vertical	2452	71.968	29.917	101.884	Peak
Vertical	2452	52.016	29.950	81.996	Average

Note: 1:Spectrum Analyzer setting:

Peak detector: RBW=1MHz, VBW=1MHz

Average detector: RBW=1MHz, VBW=30Hz

Band Edge Test Data

Antenna Pole	Test Frequency (MHz)	Fundamental (dBuV/m)	Δ (dB)	Band Edge Field Strength (dBuV/m)	Detector
Horizontal	2483.5	88.449	37.951	50.498	Peak
Horizontal	2483.5	70.050	30.540	39.510	Average
Vertical	2483.5	101.884	37.951	63.933	Peak
Vertical	2483.5	81.996	30.540	51.456	Average

Note:

The Band Edge Field Strength was calculated using the Fundamental and Conducted Band Edge measurements per the Marker-Delta Method with the following formula:

Band Edge field Strength = $F - \Delta$

F = Fundamental field Strength (Peak or Average)



	Peak Dete	ctor of conat	icted Band Ed	ge Della	
🛙 Agilent Spectrum Analyzer -	- Swept SA				
Δarker 2 2.483500	000000 GHz nput: RF PNO: Fast C IEGain:Low	AC SENSE:INT Trig: Free Run Atten: 20 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 51/100	04:47:41 PM Apr 06, 2009 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Save As
Ref Offset -1 I0 dB/div Ref 0.00 d	10 dB		Mk	r2 2.483 5 GHz -48.209 dBm	Sav
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tart 2.43000 GHz Res BW 1.0 MHz	#VB	W 1.0 MHz	#Sweep	Stop 2.53000 GHz 500 ms (1001 pts) FUNCTION VALUE	り Up Or Lev
2 N 1 f 3 4 5 5 6 7	2.483 5 GHz	-48.209 dBm			Create Ne Fold
8 9 10 11					Canc
sg		1	STATUS	·	

🍺 Agilent Spectrum Analyzer -	Swept SA		
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10 dB/div Ref 0.00 d		-65.44 dBm	
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-50.0		2	File name:
-60.0		-	
-80.0			Save As
-90.0			type:
Start 2.43000 GHz #Res BW 1.0 MHz	#VBW 10 Hz	Stop 2.53000 GHz Sweep 7.80 s (1001 pts)	
MKR MODE TRC SCL	##B##10112	FUNCTION FUNCTION WIDTH FUNCTION VALUE	Level
1 N 1 f 2 N 1 f	2.461 7 GHz -34.90 dBm 2.483 5 GHz -65.44 dBm		
3 4			🦂 Create New
5 6			- Folder
7 8			
9			Cance
11 12			
MSG		STATUS	

7. Occupied Bandwidth

7.1. Test Equipment

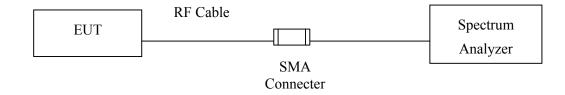
The following test equipments are used during the radiated emission tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.	
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr, 2009	
т.,	1 4 11 1 4	1.1 / 1			

Note: 1. All instruments are calibrated every one year.

2. The test instruments marked by "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

7.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003; tested according to DTS test procedure of Mar. 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Span greater than RBW.

7.5. Uncertainty

± 150Hz

7.6. Test Result of Occupied Bandwidth

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11b 1Mbps)-Adapter 1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	10050	>500	Pass

Figure Channel 1:

50 Ω larker 3 2.41705	Input: RF PNO: Fast		ALIGN OFF Avg Type: Log-Pwr	11:01:31 AM Mar 31, 2009 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Marker
	IFGain:Lov	W #Atten: 30 dB	Mkr	3 2.417 05 GHz	Marker Tab
0 dB/div Ref 20.0	0 dBm		1	1.47 dBm	
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enter 2.41200 GH Res BW 100 kHz		/BW 100 kHz	#Sweep	Span 50.00 MHz 500 ms (1001 pts)	
KR MODE TRC SCL	×	Y	FUNCTION FUNCTION WIDTH		
1 N 1 F 2 N 1 F 3 N 1 F	2.415 05 GHz 2.407 00 GHz	4.80 dBm 2.83 dBm 1.47 dBm			
4 1 T 5 1 1 T	2.417 05 GHz	1.47 dBm			All Markers C
6 7					
8 9 0					Mo
1					2 0
2					

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11b 1Mbps)-Adapter 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	10050	>500	Pass

Figure Channel 6:

Marker	6 AM Mar 31, 2009 RACE 1 2 3 4 5 6 TYPE MWWWWW	TRAC	ALIGN OFF Pwr(RMS)	#Avg Ty				42050000	50 s r 3 2.4	rker
Marker Tal	DETPNNNNN	DE					: RF PNO: Fast IFGain:Lov	Input:		
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On Marke		(4 M	V	-		Man and speed	Warding Mr. A. Milling		0
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	s 50.00 MHz (1001 pts)		#Sweep #		2	'BW 100 kHz	#V		2.4370 W 100	
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Ţ					Bm		2.434 00 GHz 2 432 00 GHz			
						2.58 d 2.13 d	2.434 00 GHz 2.432 00 GHz 2.442 05 GHz			N N
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All Markers (2.58 d	2.432 00 GHz		1 f	N
All Markers (2.58 d	2.432 00 GHz		1 f	NN
						2.58 d	2.432 00 GHz		1 f	NN

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11b 1Mbps)-Adapter 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	10000	>500	Pass

Figure Channel 11:

	50 Ω		rept SA		AC SE	NSE:INT		🛕 ALIGN OFF		AM Mar 31, 2009	Marke	
arker	3 2.46	700000		Hz NO: Fast G	Trig: Fre	e Run	#Avg T	ype: Pwr(RMS	TY	CE 1 2 3 4 5 6 PE MWWWW	Marke	r
		inpu	IFO	Gain:Low	#Atten: 3	0 dB				PNNNNN	Marker	Tab
dB/div	Ref	20.00 dE	3m					Mkr		00 GHz 79 dBm	<u>On</u>	c
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nter 2	2.46200	GHZ			20				Span :	50.00 MHz		
	N 100 k			#VB	N 100 kHz			#Sweep	500 ms	(1001 pts)		
			×	ص عد عد	Y	FL	JNCTION	FUNCTION WIDTH	FUNCT	ON VALUE		
	TRC SCL		2.465 0		5.50 d							
MODE	1 f					Bmi						
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N N N	1 f 1 f										All Marke	ers (
MODE N N N	1 f 1 f										All Marke	ers C
	1 f 1 f										All Marke	
	1 f 1 f										All Marke	Mo 2 o

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmitter (802.11g 6Mbps)-Adapter 1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	16250	>500	Pass

Figure Channel 1:

Swept SA	AC SENSE:INT	ALIGN OFF	11:23:18 AM Mar 31, 2009	Marker
	Trig: Free Run #Atten: 30 dB	#Avg Type, Pwr(KWS	DET P N N N N	Marker Tab
dBm		Mkr	3 2.420 10 GHz -1.11 dBm	<u>On</u> (
2 John Mar	1		-3.00 dDm	Marker Coun
hours low and and and		have a second	how we will the state of the st	Coup Marke On
#VBV	V 100 kHz	#Sweep	Span 50.00 MHz 500 ms (1001 pts)	
× 2.414 50 GHz	3.00 dBm	INCTION FUNCTION WIDTH	FUNCTION VALUE	
2.403 86 GHz 2.420 10 GHz	-0.73 dBm -1.11 dBm			All Markers
				м
	IFGain:Low dBm 2 4 4 4 4 4 4 4 4 4 4 4 4 4	000000 GHz Trig: Free Run nput: RF PN0: Fast Trig: Free Run dBm #Atten: 30 dB dbm	000000 GHz Trig: Free Run #Avg Type: Pwr(RMS) nput: RF PNO: Fast #Atten: 30 dB dBm 1 3 dbm 1 3 dbm 1 3 dbm 1 3 dbm 4 4 dbm 4 4 <td>000000 GHz Trig: Free Run #Avg Type: Pwr(RMS) Trace: 12.345 6 nput: RF PNO: Fast Trig: Free Run #Atten: 30 dB dBm -1.11 dBm 2 1 -1.11 dBm 2 1 -300 dBm 2 1 -300 dBm 3 -300 dBm 4 4 4 5</td>	000000 GHz Trig: Free Run #Avg Type: Pwr(RMS) Trace: 12.345 6 nput: RF PNO: Fast Trig: Free Run #Atten: 30 dB dBm -1.11 dBm 2 1 -1.11 dBm 2 1 -300 dBm 2 1 -300 dBm 3 -300 dBm 4 4 4 5

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmitter (802.11g 6Mbps)-Adapter 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	16300	>500	Pass

Figure Channel 6:

Marker	11:27:10 AM Mar 31, 2009 TRACE 1 2 3 4 5 6 TYPE MWWWWW	ALIGN OFF e: Pwr(RMS)		SENSE:INT		0000 GHz	4515000	er 3 2.4	arke
Marker Tab	DET P N N N N N					: RF PNO: Fast IFGain:Lov	Inpu		
<u>On</u>	2.445 15 GHz -0.08 dBm	Mkr3				m	f 20.00 dE	div Re	dB/
Marker Coun			3		1				
[Off	-2.74 dBm		- when the	monder	wellow Constraints and the second				00
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On g	Mullingellentresserver	Р Г					held the second s	washington).0 u .
	Cristowe							······	
	Span 50.00 MHz 0 ms (1001 pts)	#Sweep 5		z	'BW 100 kHz	#V		r 2.4370 BW 100	
					Y	×		de tro sci	R MO
	FUNCTION VALUE	NCTION WIDTH	ICTION F		200 -				1 .
	FUNCTION VALUE	NCTION WIDTH		dBm	3.26 d -0.03 d	2.430 75 GHz 2.428 85 GHz		1 f 1 f	1 N 2 N
All Markers (FUNCTION VALUE	NCTION WIDTH		dBm		2.430 75 GHz		1 f 1 f	2 N 3 N 4
All Markers (FUNCTION VALUE	NCTION WIDTH		dBm	-0.03 d	2.430 75 GHz 2.428 85 GHz		1 f 1 f	2 N 3 N 4 5
	FUNCTION VALUE	NCTION WIDTH		dBm	-0.03 d	2.430 75 GHz 2.428 85 GHz		1 f 1 f	2 N 5 N 4 5 7 8
All Markers (Markers 2 a	FUNCTION VALUE			dBm	-0.03 d	2.430 75 GHz 2.428 85 GHz		1 f 1 f	2 N 3 N 4 5 7

:	Multi-functional Gigabit Wireless N Router
:	Occupied Bandwidth Data
:	No.3 OATS
:	Mode 2: Transmitter (802.11g 6Mbps)-Adapter 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	16300	>500	Pass

Figure Channel 11:

Marker	M Mar 31, 2009		ALIGN OFF		EINT	AC SENS				50 Ω		
Marker Marker Tal	123456 E MWWWWW T P N N N N N	TYP	e: Pwr(RMS)	#Avg Ty		Trig: Free F #Atten: 30 d	Hz 10: Fast ⊂ Gain:Low			2.47	er 3	ırk
	15 GHz 26 dBm		Mkr3					Bm	20.00 c	Ref	div	dB/
Marker Cour				1			•		20.000		urr	
[Of	-4.36 dBm			- minualina	www.alivanter	antivalentera p	2 Almanda					00-
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	0.00 MHz 1001 pts)		#Sweep			100 kHz	#VB) GHz (Hz	16200 100 I		
	N VALUE	FUNCTIO	NCTION WIDTH	TION		Y 1.64 dBr		× 2.467 0			IDE TR	
					n	-2.02 dBr -2.26 dBr	5 GHz	2.453 8		f		1
All Markers						-2.20 001		2.470 1			· ·	F
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Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS8 13Mbps 20M-BW)-Adapter 1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	17500	>500	Pass

Figure Channel 1:

6 Marker	11:47:38 AM Mar 31, 2009 TRACE 1 2 3 4 5 6 TYPE MWWWWW	ALIGN OFF ype: Pwr(RMS)	#Avg	AC SENSE	00000 GHz		
Marker Ta	DETPNNNN		1		ıt: RF PNO: Fast IFGain:Lov	Inpu	
z <u>on</u>	2.420 75 GHz 0.25 dBm	Mkr3				ef Offset 10 d ef 20.00 d	
Marker Cour		3	¹		2		
" [Of	-0.12 dBm		and the second second	A COLOR OF A COLOR			
		N.			لمرم		
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1	in white and					- John Marshin Marth	
	Span 50.00 MHz						ter 2.412
7						OU GHZ	
	500 ms (1001 pts)	#Sweep 5		BW 100 kHz	#V	0 kHz	s BW 10
		#Sweep 5	FUNCTION	Y	X	CL	MODE TRC 1
	500 ms (1001 pts)		FUNCTION	Y 5.88 dBm 0.18 dBm	× 2.417 00 GHz 2.403 25 GHz	EL CONTRACTOR	Mode TRC N 1 N 1
	500 ms (1001 pts)		FUNCTION	Y 5.88 dBm	× 2.417 00 GHz	CL	Mode TRC N 1 N 1
	500 ms (1001 pts)		FUNCTION	Y 5.88 dBm 0.18 dBm	× 2.417 00 GHz 2.403 25 GHz	EL CONTRACTOR	Mode TRC N 1 N 1
) All Markers	500 ms (1001 pts)		FUNCTION	Y 5.88 dBm 0.18 dBm	× 2.417 00 GHz 2.403 25 GHz	EL CONTRACTOR	Mode TRC N 1 N 1
	500 ms (1001 pts)		FUNCTION	Y 5.88 dBm 0.18 dBm	× 2.417 00 GHz 2.403 25 GHz	EL CONTRACTOR	Mode TRC N 1 N 1

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS8 13Mbps 20M-BW)-Adapter 1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	17500	>500	Pass

Figure Channel 6:

arkei	50 r 3 2. 4	4458000	00000 G	iHz NO: Fast			ALIGN OFF	IS) TRA	PM Mar 31, 2009 CE 1 2 3 4 5 6 PE M WWWWW	Marker
		In		NU: Fast Gain:Low	#Atten: 20			D	ET P NNNNN	Marker Tab
) dB/di		of Offset 10 of 20.00 c					Mk	r3 2.445 4.	80 GHz 24 dBm	<u>On</u>
				2		1	3			Marker Coun
.00				Justia	and	water water	white		3.83 dBm	[Off]
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0.0			when a when	¢.			- h. h.			Cou
0.0		he wat	Marine An				why we way	hall as		Marke
0.0	and WALLAND	wandawin						hall warry of	Winner	On
0.0									- n.	
0.0				-						
0.0								- 0		
	2 4 2 7	00 GHz					25	Cnon é	50.00 MHz	
				#VE	3W 100 kHz		#Sweep	500 ms (
Res B				_	Y	FUNCTION	FUNCTION WIDT	H FUNCTI	ON VALUE	
Res B	TRC SC		X	0.011	a aa 15					
Res B Remote 1 N 2 N			2.442 0 2.428 2	5 GHz	9.83 dE 5.04 dE	3m				· · · · · · · · · · · · · · · · · · ·
Res B Kr Mode 1 N 2 N 3 N	TRD SO		2.442 0	5 GHz		3m				All Markers
Res B 1 N 2 N 3 N 4 5	1 f 1 f		2.442 0 2.428 2	5 GHz	5.04 dE	3m				All Markers
Res B 1 N 2 N 3 N 4 5 6 7	1 f 1 f		2.442 0 2.428 2	5 GHz	5.04 dE	3m				All Markers (
Res B 1 N 2 N 3 N 4 5 6	1 f 1 f		2.442 0 2.428 2	5 GHz	5.04 dE	3m				
Res B 1 N 2 N 3 N 4 5 3 7 3	1 f 1 f		2.442 0 2.428 2	5 GHz	5.04 dE	3m				All Markers

Product	:	Multi-functional Gigabit Wireless N Router
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS8 13Mbps 20M-BW)-Adapter 1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	17450	>500	Pass

Figure Channel 11:

									wept SA	nalyzer - S		Spect	lent :	Agi
Marker	Mar 31, 2009	TRACE	ALIGN OFF : Pwr(RMS)		NT	SENSE:1	AC S	Hz	00000 G	707500	50Ω 2/17	2	kor	ar
Marker Tal		TYP	,		n		Trig: Fr #Atten:	IO: Fast (iain:Low	ut: RF PI		2.47	5	NCI	
n	75 GHz 6 dBm	3 2.470 0.1	Mkr3							Offset 10 20.00 d			3/div) dE
Marker Cour					(2						9 0.0
[Of	-0.34 dBm			Junha	harrent	Array March	, and the set of the set	Jown			_			.00
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n Marke		Munomed and	W Why						way VV	M				122
	Mulanhampar	- WWWWW								understander and	when	HANNI	Mar	.0
								-					10203099	.0
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	0.00 MHz	Span 50	- 11			10.5				GHz	5200	2.46	L ter	en'
	1001 pts)	500 ms (1	#Sweep \$			Hz	N 100 kH	#VB		Hz	00 k	W 1	s B	te:
	N VALUE	FUNCTIO	ICTION WIDTH	Fl	FUNC	6 dBm	Y 5.66		× 2.467 0		SCL f	1	MODE	R
				1		l dBm	-0.01) GHz	2.453 3		f	1	N	2
All Markers						6 dBm	0.16	GHZ	2.4707		Г	1	N	I
10000														7 }
Mo														9 D
2 c											-		-	1
			STATUS											