Product	:	Notebook
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS0 6.5Mbps 20M-BW)-Ant1

RF Radiated Measurement (Vertical):

	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01(Peak)	2390.000	1.929	51.816	53.746	74.00	54.00	Pass
01(Average)					74.00	54.00	Pass

Figure Channel 01:

Vertical (Peak)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	Notebook
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS0 6.5Mbps 20M-BW)-Ant1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Kesult
11(Peak)	2483.500	3.076	47.926	51.001	74.00	54.00	Pass
11(Average)					74.00	54.00	Pass

Figure Channel 11:

Horizontal (Peak)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	Notebook
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS0 6.5Mbps 20M-BW)-Ant1

RF Radiated Measurement (Vertical):

	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
11(Peak)	2483.500	2.552	47.072	49.624	74.00	54.00	Pass
11(Average)					74.00	54.00	Pass

Figure Channel 11:

Vertical (Peak)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	Notebook
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Decult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01(Peak)	2390.000	2.937	58.213	61.150	74.00	54.00	Pass
01(Average)	2390.000	2.937	42.415	45.352	74.00	54.00	Pass

Figure Channel 01:

Horizontal (Peak)



Figure Channel 01:

Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	Notebook
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1

RF Radiated Measurement (Vertical):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
01(Peak)	2390.000	1.929	60.589	62.519	74.00	54.00	Pass
01(Average)	2390.000	1.929	42.212	44.142	74.00	54.00	Pass

Figure Channel 01:

Vertical (Peak)



Figure Channel 01:

Vertical (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	Notebook
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1

RF Radiated Measurement (Horizontal):

Channel No.	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Dogult
	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
07(Peak)	2484.700	3.075	57.214	60.289	74.00	54.00	Pass
07(Average)	2484.700	3.075	35.185	38.260	74.00	54.00	Pass

Figure Channel 07:

Horizontal (Peak)



Figure Channel 07:

Horizontal (Average)



- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product	:	Notebook
Test Item	:	Band Edge Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1

RF Radiated Measurement (Vertical):

	Frequency	Correct Factor	Reading Level	Emission Level	Peak Limit	Average Limit	Docult
Channel No.	(MHz)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dBuV/m)	Result
07(Peak)	2484.600	2.559	56.097	58.656	74.00	54.00	Pass
07(Average)	2484.600	2.559	38.926	41.485	74.00	54.00	Pass

Figure Channel 07:

Vertical (Peak)



Figure Channel 07:





- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
- 4. "*", means this data is the worst emission level.
- 5. Measurement Level = Reading Level + Correct Factor.
- 6. The average measurement was not performed when the peak measured data under the limit of average detection.

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
Note:	1. All instruments a	re calibrated ever	ry 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	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11b 1Mbps)-Ant1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	12350	>500	Pass

🗊 Agilent Spectrum Analyzer - Swept SA	an as			
Marker 1 2.413050000000 GHz		ALIGNAUTO 02:55:54. g Type: Log-Pwr TRA	AM Jun 02, 2009 CE 1 2 3 4 5 6	Save As
Input: RF PNO: Fast IFGain:Low	² Trig: Free Run Atten: 30 dB	Mkr1 2.413 6.	05 GHz	Save
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-20.0 -30.0 -40.0		John Marine John Marine		File name:
-60.0				Save As type:
Center 2.41200 GHz #Res BW 100 kHz #VBW MKF MODE TO 1 N 1 f 2.413 05 GHz	100 kHz Y Function 6.05 dBm	Span 5 #Sweep 500 ms FUNCTION WIDTH FUNCT	50.00 MHz (1001 pts)	Dp One Up One Level
2 N 1 f 2.405.85 GHz 3 N 1 f 2.418 20 GHz 4	-0.85 dBm -0.64 dBm			Create New Folder
8 9 10 11 11 12				Cancel
MSG		STATUS		

Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11b 1Mbps)-Ant1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	11250	>500	Pass

Construction Construction<		gilent S	Spect	rum	Analyzer - S	Swept SA											
Input: RF PNO: Fast Ingut: Ref PNO: Fast Mail Mail Mail Mail Mail Save 10 dB/div Ref 20.00 dBm -2.356 dBm -2.356 dBm -2.356 dBm File/Folder List 10 dB/div Ref 20.00 dBm -2.356 dBm -121 dBm File/Folder List 10 dB/div Ref 20.00 dBm -2.356 dBm -121 dBm File/Folder List 10 dB/div Ref 20.00 dBm -2.356 dBm -121 dBm File/Folder List 20 d	w Ma	rker	3	50 s 2.4	2 422000	00000 G	Hz	AC	SENS	E:INT	Avg Ty	ALIG	g-Pwr	02:58:59 A	M Jun 02, 2009	S	ave As
10 dB/div Ref 20.00 dBm -2.356 dBm 20 dB/div Ref 20.00 dBm -2.356 dBm 40 d -2.356 dBm -2.356 dBm 40 d -2.442 20 GHz -2.442 20 GHz File/Folder -2.442 20 GHz -2.43700 GHz #Res BW 100 kHz #VBW 100 kHz #Sweep 500 ms (1001 pts) 2 N 1 f 2.4320 GHz -2.132 dBm 3 N 1 f 2.44220 GHz -2.356 dBm 9 d					In	put: RF P IF(NO: Fast Gain:Low	Atte	en: 30 d	B	Avgino	10.>100	N/L/r				Save
10.0 121.6m File/Folder 10.0 121.6m File/Folder 10.0 121.6m File/Folder 20.0 30.0 121.6m File/Folder 40.0 10.0 121.6m File/Folder 40.0 10.0 121.6m File/Folder 50.0 10.0 121.6m File/Folder 60.0 10.0 10.0 10.0 10.0 70.0 1 1 2.436.05 GHz #VBW 100 kHz #Sweep 500 ms (1001 pts) #Res BW 100 kHz #VBW 100 kHz #Sweep 500 ms (1001 pts) Image: Create New Folder 2 N 1 1 2.436.05 GHz 2.132.6 Bm Image: Create New Folder 3 N 1 1 2.432.00 GHz 2.3356 dBm Image: Create New Folder 3 N 1 1 2.432.00 GHz 2.3356 dBm Image: Create New Folder 7 1 1 1 1 Image: Create New Folder Cancel 10 10 10 10 10 10 10 10 10 10 10 10	10 c	B/div	,	Ref	f 20.00 d	dBm								-2.3	20 GH2 56 dBm		
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1 N 1 f 2.436 05 GHz 4.795 dBm 2 N 1 f 2.430 95 GHz -2.132 dBm 3 N 1 f 2.442 20 GHz -2.356 dBm 4	MKR	MODE	TRC	SCL		×			/////	FUN	CTION	FUNCTION	N WIDTH	FUNCTIO	IN VALUE		Level
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Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11b 1Mbps)-Ant1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	11350	>500	Pass

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Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmitter (802.11g 6Mbps)-Ant1 (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	16500	>500	Pass

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Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmitter (802.11g 6Mbps)-Ant1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	16550	>500	Pass

😰 Agilent Spectrum Analyzer - Swept SA				
Marker 3 2.445300000000 GHz		ALIGNAUTO Avg Type: Log-Pwr	03:02:50 AM Jun 02, 2009 TRACE 1 2 3 4 5 6 TYPE M WAAWAAA	Save As
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8				
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Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmitter (802.11g 6Mbps)-Ant1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	16500	>500	Pass

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:	Notebook
:	Occupied Bandwidth Data
:	No.3 OATS
:	Mode 3: Transmitter (802.11n MCS0 6.5Mbps 20M-BW)-Ant1 (2412MHz)
	: : :

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	17250	>500	Pass

🗩 Agilent Spectrum Analyzer - Swept SA			
Marker 1 2.409200000000 GHz	AC SENSE:INT Avg Type	ALIGN AUTO 03:25:36 AM Jun 02, 2009 : Log-Pwr TRACE 1 2 3 4 5 6 > 100/100 TYPE M WAAAAAAA	Save As
Input: RF PNO: Fas IFGain:Lo	w #Atten: 20 dB	Mkr1 2 409 20 GHz	Save
10 dB/div Ref 10.00 dBm		-3.352 dBm	
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-30.0			87.5,8
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-60.0 multanter when man marked			
-70.0			Save As type:
Cepter 2 41200 GHz		Span 50 00 MHz	р. — • слоз
#Res BW 100 kHz #	/BW 100 kHz	#Sweep 500 ms (1001 pts)	췱 Up One
MKR MODE TRC SCL X 1 N 1 f 2.409 20 GHz	Y FUNCTION FUN -3.352 dBm	NCTION WIDTH FUNCTION VALUE	Level
2 N 1 f 2.403 40 GHz 3 N 1 f 2.420 65 GHz	-10.546 dBm -10.633 dBm		🚕 Create New
5 6			Folder
7 8			
10 11			Cancel
12 NSC			

Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS0 6.5Mbps 20M-BW)-Ant1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	17400	>500	Pass

🎾 Agilent S	pectrum A	nalyzer - Sv	vept SA									
w Marker	50 Ω 1 2.43	420000	0000 GI	Hz	AC SE		Avg T AvgIH	ALIGNAU ype: Log-Po old: 86/100	UTO 03:26: Wr T	89 AM Jun 02, 2009 RACE 1 2 3 4 5 6 TYPE MWW/MAA	S	ave As
10 dB/diu	Dof	inpu 10.00 dl	IC RF PN	ain:Low	#Atten: 20	dB		М	kr1 2.43 -3.	4 20 GHz		Save
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-60.0												Save Astronom
Center 2 #Res BV MKR MODE	2.43700 N 100 k 1EC SC	GHz Hz	× 2.434 20	#VE	W 100 kHz Y -3.243 d	3m	FUNCTION	#Swe	Spar ep 500 m DTH FUN	n 50.00 MHz s (1001 pts) ction value	٦	Up On Leve
2 N 3 N 4 5 6	1 f 1 f		2.428 15 2.445 55	5 GHz 5 GHz	-13.339 d -10.384 d	3m 3m					9	Create Nev Folde
7 8 9 10 11 12												Cance
MSG							I	ST	ATUS			

Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS0 6.5Mbps 20M-BW)-Ant1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	17500	>500	Pass

Agneint a	pectrum	Analyzer -	Swept SA	<u></u>		1.5					
arker	3 2 /	Ω 1706500	00000 G	Hz	AC	SENSE:INT	ΑναΤι	ALIGNAUTO	03:27:48/ TRA	AM Jun 02, 2009 CE 1 2 3 4 5 6	Save As
	Input: RF PN0: Fast Trig: Free Run IFGain:Low #Atten: 20 dB										
dB/div	Re	f 10.00 (dBm					Mkr	3 2.470 -12.	65 GHz 15 dBm	Si
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enter :	2.462	0 GHz	3			10		12	Span 5	50.00 MHz	
tes Bl	N 100	kHz		#VBI	N 100 kH	Iz		#Sweep	500 ms ((1001 pts)	🔺 Up C
el xonsi	TOCI SC		~		~		INCTION	FUNCTION WIDTH	FUNCTI		Le
	1 f		2.459 2	0 GHz	-4,299	dBm	INCHON	TONCHON WIDTH	TONCH	ON VALUE	
2 N	1 f		2.453 1	5 GHz	-14.02	dBm					
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Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1 (2422MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2422.00	35900	>500	Pass

D	gilent	Spect	trum	Analyzer	- Swept	SA		N	- 20			205			30					
<mark>ы</mark> Ма	arker	• 1	50 s 2.4	2 23300	00000 Input: R	000 G	Hz NO: Fas	t 😱	C SE	NSE:IN	1T	Avg T Avg H	`ype old⊃	ALIGN AUTO : Log-Pwr >100/100	03:30:3 TF	1 AM	0un 02, 2009 1 2 3 4 5 (MWWWWW P N N N N N	5	Sav	ve As
10	dBidi		Pot	F 10 00	dBm	IFO	Gain:Lo	w	#Atten: 20	DdB				Mk	r1 2.4	23 718	3 GHz 3 dBm			Save
-10 -20		•		10.00			2 and	~\$.*{=*1/*	v የ ተለምምሳሳት የ	•1 ,	Marqan at 1927	4 ⁴ 84 P-BH-HY	₽ 3				-8.72 dBr		F	ile/Folde Lis
-30 -40 -50	.0 .0 .0	July Ma	Index of W	in the second second	yrigerligerliger	₼₿₼₱ ₽₽₿	/						4	k Alakapatiwatiya	uderformulatered	Marcus	titika and the state of the sta		F	ile name
-60 -70 -80	.0 0.																			Save As type
Ce #R	enter les B	2.4: W 1	220 00	0 GHz kHz	>	2.423	#\ 3 GHz	/BW	100 kHz Y -2.718 d	Bm	FUNC	CTION	FUN	#Sweep	Span 500 ms	100 5 (10	0.0 MHz)01 pts; value		D	Up One Leve
2020		1	f			2.403 2.439	9 GHz 8 GHz		<u>-10.253 d</u> -10.100 d	Bm Bm) CI	reate New Folder
8 9 10 11																				Cance
MSG														STATUS	3					

Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
4	2437.00	36400	>500	Pass

								Swept SA	Analyzer -	pectrum	ilent S	D Ag
Save As	M Jun 02, 2009 E 1 2 3 4 5 6 E MWWWWW	03:31:42 A TRAC TYP	ALIGNAUTO :: Log-Pwr	Avg Type	e Run	AC SE	GHz PNO: Fast	000000 0	Ω 29300 II	50 1 2.4	rker	<mark>x</mark> Mai
Save	9 3 GHz 24 dBm	r1 2.429 -3.2	Mk		0 dB	#Atten: 2	Gain:Low	dBm	f 10.00	Re	IB/div	10 c
File/Folde Lis	-9.24 dBm		3	-		1 #1	2					Log 0.00 -10.0
File name		afather.stafet-without	and and a second and					eret and a trade of the two	ulation of the sector of the)) 	-20.0 -30.0 -40.0
Save A type)))	-60.0 -70.0 -80.0
Dp On Lev	00.0 MHz 1001 pts) NVALUE	Span 1 500 ms (#Sweep	CTION	Bm	V 100 kHz -3 245 d	#VE	× 2 429	0 GHz kHz	2.4370 N 100	nter es Bl MODE	Cer #Re MKB
Create Ne Folde					Bm Bm	-14.20 d -12.78 d	97 GHz 91 GHz	2.418 2.455		1 f 1 f	N	23456
Canc												/ 8 9 10 11
			STATUS	L					1		_	ISG

Product	:	Notebook
Test Item	:	Occupied Bandwidth Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1 (2452MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
7	2452.00	35900	>500	Pass

								- Swept SA	Analyzer	ectrum	lent Sp	l Agi
Save As	M Jun 02, 2009 E 1 2 3 4 5 6 E M WWWWWW	03:32:57 Al TRAC TYP	ALIGNAUTO : Log-Pwr	Avg Typ	e Run	AC SE	Hz	000000 G	Ω 69700	50 s 3 2.4	ker :	lar
Sav	7 GHz 2 dBm	r3 2.469 -12.7	Mk		0 dB	#Atten: 20	iu: Fast 🖕 Gain:Low	dBm	f 10.00	Rei	3/div	0 dl
File/Folde Lis	-10.10 dBm			war-Throw		1 	2					. og 0.00 10.0
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Dp Or Lev	00.0 MHz 1001 pts) NVALUE	Span 1 500 ms (7	#Sweep	Tion Fi	Bm	100 kHz	#VBW	× 2 441	0 GHz kHz	.4520 / 100	ter 2 s BW	en Re KE
Create Ne					Bm Bm	-12.22 d -12.72 d	8 GHz 7 GHz	2.433 2.469		1 f 1 f	N N	2 3 4 5 6
_										-		89

8. Power Density

8.1. 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
Note:	1. All equipments are	e calibrated every	one year.	

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

8.2. Test Setup



8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.4. 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= 3 kHz, VBW=10KHz, Sweep time=(SPAN/3KHz), detector=Peak detector

8.5. Uncertainty

 \pm 1.27 dB

8.6. Test Result of Power Density

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11b 1Mbps)-Ant1 (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-10.798	< 8dBm	Pass

								Swept SA	ım Analyzer -	ilent Spectr	🗊 Agi
2009 Save As	M Jun 02, 2009	03:37:30 A	ALIGNAUTO : Log-Pwr	Avg Type	NSE:INT	AC SE	iHz	00000 G	^{50 Ω}	ker 1 2	Mar
Hz Save	6 7 GHz 98 dBm	412 040 -10.7	Mkr1 2.4	Avg Hold:	e Run) dB	d Trig: Free #Atten: 20	NO: >30k 🖵 Gain:Low	JBm	lnj Ref 10.00 (B/div I	10 di
File/Folder					1						0.00
File name		0000							0.0.0.0		-10.0 -20.0
Save As										$\langle \langle \rangle \rangle$	-30.0 -40.0
Up One											-50.0
Create New Folder											-60.0
Hz Cance	300.0 kHz	Span (# S waa=			10 -	#(P)	Z	20500 GH	ter 2.41	-80.0 Cen
	iour pts)	100 S (#Sweep			TU KHZ	#VBVV			5 044 3.	#Res

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 1: Transmitter (802.11b 1Mbps)-Ant1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-12.171	< 8dBm	Pass

6 Save As	M JUN02, 2009	U3:40:20 AI			ICTED TO LET				2.0	E
IN	E 1 2 3 4 5 6 E MWWWWW T P N N N N N	TRACI TYP	: Log-Pwr 1/100	Avg Type Avg Hold:	Run	Trig: Free	Hz 10: >30k 😱	00000 G	4370470	ker 1 2.
z Sav	7 0 GHz 71 dBm	437 047 -12.17	Mkr1 2.		dB	#Atten: 20	Sain:Low	IFC	ef 10.00 c	B/div R
File/Fold										
File nam					1	\uparrow				
Save A		AAA							AAAA	
Up Or					9.7 28					
Create Ne										
Canc	300.0 kHz	Span 3						~	0500 GHz	ter 2.437

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11b 1Mbps)-Ant1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-12.208	< 8dBm	Pass

								owept SA	n Analyzer - S	lent Spectrun	D Agi
Save As	M Jun 02, 2009	03:43:51 A	ALIGNAUTO	Avg Type	NSE:INT	AC SE	Hz 4	00000 G	Ω 4620476	50 ker 1 2.4	<mark>»</mark> Marl
Save	6 GHz 8 dBm	462 047 -12.20	Mkr1 2.	Avg Hold:) dB	#Atten: 20	IO: >30k 🖵 Gain:Low	out: RF PN IFC IB M	Ing ef 10.00 c	3/div R e	10 dE
File/Folde Lis	· · · · · ·				1						0.00
File name										<u>\</u>	-10.0 -20.0
Save A type	VVV	\mathbb{N}			MAA	\mathbb{W}				\mathbb{W}	-30.0
Dp On Lev											-50.0
Create New Folde											-70.0
Cance	100.0 kHz	Span 3	#Sweer			10 kHz	#\/R\M	Z	0500 GHz	ter 2.462	-80.0 Cent
	1001 pt3)	1003(STATUS			10 112					ISG

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmitter (802.11g 6Mbps)-Ant1 (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-18.921	< 8dBm	Pass

								Swept SA	m Analyzer -	ent Spectru	D Agi
Save As	M Jun 02, 2009	03:47:20 A	ALIGNAUTO	Avg Type	NSE:INT		Hz	00000 G	οΩ .4111114	ser 1 2.	<mark>»</mark> Marl
Sav	I 4 GHz 21 dBm	.11 111 -18.92	Mkr1 2.	Avginoia	dB	#Atten: 2	NO: >30k 🕞 Gain:Low	J Bm	In ef 10.00 (3/div R	10 dE
File/Folde Lis											0.00
File name		$\wedge \wedge$	$\gamma \gamma \gamma$	m		\sim	~~~~			0 0	-10.0 -20.0
Save A type	~~~	~ ~ ~ ~	4.0) (-30.0
步 Up On Lev											-50.0
Create Ne Folde											-70.0
Canc	300.0 kHz	Span 3	#Sween				#\/D\\	ź	1000 GH	ter 2.411	80.0 Cent
	roor proj	100 5 (STATUS			TO KHZ	#VDVU		7 8112	J U V V J.U	ISG

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 2: Transmitter (802.11g 6Mbps)-Ant1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-19.634	< 8dBm	Pass

		9.0						owept SA	Analyzer -	ent Spectru	Agile
Save As	M Jun 02, 2009	03:50:29 Al	ALIGNAUTO	Ανα Τ	ENSE:INT	.c SE	/ U-7	00000 0	Ω 1352000	5	ark
		TYP	: 1/100	Avg H	e Run 0 dB	Trig: Fre #Atten: 2	10: >30k 🖵 Gain:Low	out: RF PI	In		
Sa	0 0 GHz 34 dBm	435 200 -19.63	Mkr1 2.					lBm	f 10.00 (/div R	dB
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1252											
					4						.0
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🤭 Create N											0
Fol											
Can											l
Jun	00.0 kHz	Span 3	#Curcon			10 24-	#\/D\M	Z	2000 GH:	er 2.435	nt
	iou i pisj	100 5 (#aweep			TO KHZ	#VDVV		NIIZ	DVV 3.0	c 3

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmitter (802.11g 6Mbps)-Ant1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-19.520	< 8dBm	Pass

🛙 Agilent Spe	ectrum Analyzer - Swe	ept SA					<u></u>			
Marker 1	50 Ω 2.46361270	0000 GHz	Trig: Free	BE:INT	Avg Type Avg Hold:	ALIGNAUTO : Log-Pwr 6/100	04:02:12 A TRAC TYF	M Jun 02, 2009 E 1 2 3 4 5 6 E M MANANAN	Sa	ve As
10 dB/div	Ref 10.00 dB	RF PNU:>30k ⊂⊾ IFGain:Low	#Atten: 20	dB	in ginera.	Mkr1 2.4	463 612 -19.52	2 7 GHz 20 dBm		Save
0.00									1	File/Folde Lis
-10.0		~~~ ^~		A-0-0	000.)	File name
-30.0			V	~~ v			\sim	$\sim \sim$		Save A type
-50.0									٦	Up On Lev
70.0									jo C	reate Ne Folde
-80.0	4636250 GH7						Span ?	300.0 kHz		Canc
#Res BW	3.0 kHz	#VBW	10 kHz			#Sweep	100 s (1001 pts)		
SG						STATUS				

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS0 6.5Mbps 20M-BW)-Ant1 (2412MHz)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412.00	-18.894	< 8dBm	Pass

💴 Agilent	Spectrum Analyzer -	Swept SA									
Marke	r 1 2.4120473	300000 G	Hz	Trig: Free		Avg Type Avg/Hold	ALIGNAUTO e: Log-Pwr • 1/100	04:05:27 A TRAC	M Jun 02, 2009	Sa	ve As
10 dB/di	iv Ref 10.00	d Bm	io: >30k (Sain:Low	#Atten: 20	D dB	Arginola.	Mkr1 2.	412 047 -18.8	7 3 GHz 94 dBm		Save
0.00										1	File/Folde Lis
-10.0					1						File name
-30.0	mm		\sim	W	$\[mathcal{M}\]$	~~~~	m	$\sim \sim \sim$	\sim		Save As type
-50.0										٦	Up On Leve
-70.0										^{⊘c}	reate Nev Folde
Center #Res E	2.4120500 GH W 3.0 kHz	z		10 kHz			#Sweep	Span () 100 s (300.0 kHz 1001 pts)		Cance
NSG							STATUS				

:	Notebook
:	Power Density Data
:	No.3OATS
:	Mode 3: Transmitter (802.11n MCS0 6.5Mbps 20M-BW)-Ant1 (2437MHz)
	: : :

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
6	2437.000	-18.141	< 8dBm	Pass

Arker 1 2.437047400000 GHz Trig: Free Run Input: RF Avg Type: Log-Pw IFGain:Low Trig: Free Run #Atten: 20 dB Avg Type: Log-Pw Avg Hold: 8/100 Tract 1 2 3 4 5 6 Tree Management 0 dB/div Ref 10.00 dBm -18.141 dBm -18.141 dBm 0 g -11 -11 -18.141 dBm 0.00 -11 -11 -11 0.00 -11 -11 -11 0.00 -11 -11 -11 0.00 -11 -11 -11 0.00 -11 -11 -11 0.00 -11 -11 -11 -11 0.00 -11 -11 -11 -11 0.00 -11 -11 -11 -11 0.01 -11 -11 -11 -11 0.01 -11 -11 -11 -11 0.01 -11 -11 -11 -11	Save As
Mkr1 2.437 047 4 GHz -18.141 dBm -18.141 dBm -18.141 dBm -18.141 dBm -1 -18.141 dBm	
	Sa
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°mmmmmmmmmmm	File nar
	Save ty
	🎒 Up d Le
	Create N Fo
nter 2.4370474 GHz es BW 3.0 kHz #VBW 10 kHz #Sweep 100 s (1001 pts)	Car

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 3: Transmitter (802.11n MCS0 6.5Mbps 20M-BW)-Ant1 (2462MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
11	2462.00	-19.004	< 8dBm	Pass

								Swept SA	trum Analyzer -	🔎 Agilent Spe
Save As	M Jun 02, 2009	04:28:06 A	ALIGNAUTO	Avg Typ	NSE:INT		iHz	00000 G	^{50 Ω} 2.462047	<mark>¤</mark> Marker 1
Save	7 9 GHz 04 dBm	⊫ 162 047 -19.0	Mkr1 2.4	Avginoid) dB	#Atten: 20	NO: >30k ⊂ ⊾ Gain:Low	put: RF P IF d Bm	Ref 10.00	10 dB/div
File/Folder Lis										0.00
File name					1					-10.0
Save As type	\sim	\sim	m	\sim	$\[mathcal{M}\]$	h	~~		mm	-30.0
Dp One Leve										-50.0
Create New Folder										-70.0
Cance	300.0 kHz 1001 pts)	Span (100 s (#Sweep			10 kHz	#VBW	z	620500 GH 3.0 kHz	Center 2.4 #Res BW
0			STATUS							MSG

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1 (2422MHz)

Channel No.	Frequency Measure Level (MHz) (dBm)		Limit (dBm)	Result
1	2422.00	-15.993	< 8dBm	Pass

						s l or	Ť.,	Swept SA	m Analyzer -	ent Spectru	D Agi
Save As	E 1 2 3 4 5 6	U4:35:35 A TRAC	Log-Pwr	Avg Type Avg Hold:	Pun		Hz	00000 G	422047 0	ver 1 2.	Marl
Save	7 0 GHz 93 dBm	₽ 422 047 -15.9	Mkr1 2.	inglitoia.) dB	#Atten: 20	io: >30k C	d Bm	ef 10.00 (3/div R	10 dE
File/Folder Lis											0.00
File name					1	1					-10.0 -20.0
Save As type		MA			NAJ	\mathcal{N}	\sim			\mathcal{M}	-30.0 -40.0
🏂 Up One Leve	U .				v					V	-50.0
Create Nev Folde											-70.0
Cance	100.0 kHz 1001 pts)	Span 3 100 s (#Sweer			10 kHz	#VBW	Z	20500 GĤ: 0 kHz	ter 2.422 s BW 3.0	Cent #Res
1			STATUS				econorcord 2024			eren (* 1977) 1994 († 197	MSG

Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1 (2437MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
4	2437.000	-15.562	< 8dBm	Pass



Product	:	Notebook
Test Item	:	Power Density Data
Test Site	:	No.3 OATS
Test Mode	:	Mode 4: Transmitter (802.11n MCS0 13.5Mbps 40M-BW)-Ant1 (2452MHz)

Channel No.	Frequency (MHz)	Measurement Level (dBm)	Required Limit (dBm)	Result
7	2452.00	-16.665	< 8dBm	Pass



9. EMI Reduction Method During Compliance Testing

No modification was made during testing.