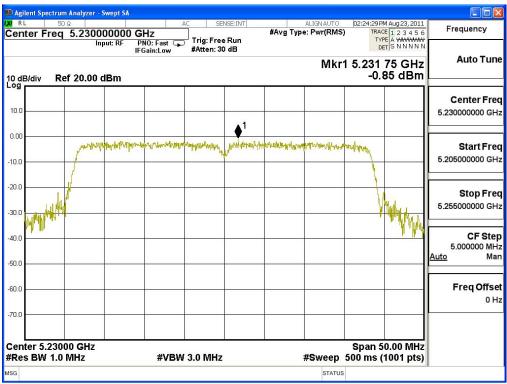
				Cinain		- Unai				
Agilent Spectrun	n Analyzer - S	Swept SA								
Center Freq		out: RF P	NO: Fast 🗔	] Trig: Free		#Avg Typ	ALIGNAUTO e: Pwr(RMS	) TRA TY	M Aug 23, 2011 CE 1 2 3 4 5 6 PE A WWWWW ET S N N N N N	Frequency
10 dB/div Re	ef 20.00 d		Gain:Low	#Atten: 30	) dB		Mkr	1 5.184	35 GHz 46 dBm	Auto Tune
10.0										Center Fred 5.19000000 GH
10.0	- COMMAN	prosent for the second second	n	manyuriumle	ant sint in which	en mellele proven of	สารทางสะจงสาวไปส	Mahaburan		Start Fre 5.165000000 GH
30.0	M							h	Mmil	Stop Free 5.215000000 GH
										CF Ste 5.000000 MH <u>Auto</u> Ma
60.0										Freq Offse 0 H
70.0	00 GH7							Span :	50.00 MHz	
#Res BW 1.0			#VBW	3.0 MHz			#Sweep		(1001 pts)	
SG							STATUS	5		

#### Channel 38 – Chain A

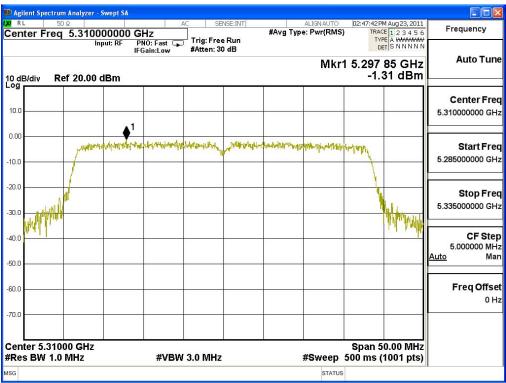
Channel 46 – Chain A



gilent Spectru RL 5	<mark>im Analyzer - S</mark> ίΩ Ω	Swept SA	A	C SEI	NSE:INT	Ť	ALIGN AUTO	02:41:26.0	4 Aug 23, 2011	
nter Fred	5.2700	out: RF Pl		Trig: Free #Atten: 30	Run		e: Pwr(RMS)	TRAC	E 1 2 3 4 5 6 E A WWWWW T S N N N N N	Frequency
Mkr1 5.274 75 GHz dB/div Ref 20.00 dBm -1.42 dBm										Auto Tun
g .0										Center Fre 5.270000000 GH
	and in	al million of the	. bile a bill Ab	to attacked	angilar tra J a	1	Alt-Martine and	(4)		Otort Erro
.0		hdrainn <del>berle</del> ada	ىلى مى يايى <sup>يى</sup> لىكى يەركىيە يەركى يەرك		August and the second second	and the second	an la suranda	month		Start Fre 5.245000000 GF
								M	<b>h</b> hui .	Stop Fre 5.295000000 GH
	۱ 								.L. MAAN	CF Ste 5.000000 MI
0										<u>Auto</u> M
0										Freq Offs 0 H
0										
nter 5.270 es BW 1.0			#VBW	3.0 MHz			#Sweep		0.00 MHz 1001 pts)	
							STATUS			

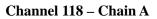
#### Channel 54 – Chain A

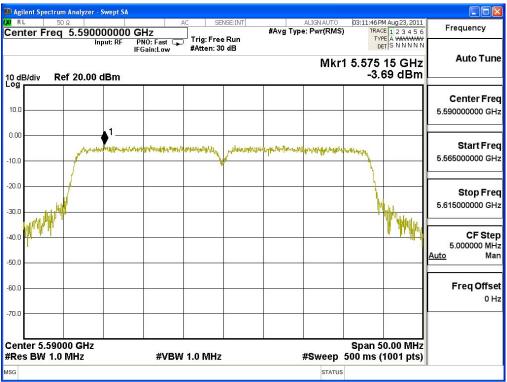
## Channel 62 – Chain A



Agilent Spectrur	n Analyzer - Swept S	54	0						
X RL 50	5.51000000	A 0 GHz PN0: Fast	Trig: Free #Atten: 30		م #Avg Type:	LIGN AUTO Pwr(RMS	) TRACE	Aug 23, 2011 1 2 3 4 5 6 A WWWWW S N N N N N	Frequency
	ef 20.00 dBm	IFGain:Low	#Atten: 30	ab		Mkr	1 5.500 (		Auto Tune
10.0									Center Free 5.510000000 GH
0.00	president all all and	edupelinerrows	property up	and the second s	ntasia-kanappinapis	npha-1/2-adapt	Martonia		Start Fre 5.485000000 GH
20.0							4	MAL.	<b>Stop Fre</b> 5.535000000 GH
								" "WAA	CF Ste 5.000000 MH <u>Auto</u> Ma
60.0									Freq Offse 0 H
70.0 Center 5.510		-#\/D\\/	4.0 MHz			Swaan	Span 50 500 ms (1	).00 MHz	
SG	IVINZ	#VDVV	1.0 MHz		#	Sweep		oo i pisj	

#### Channel 102 – Chain A



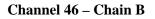


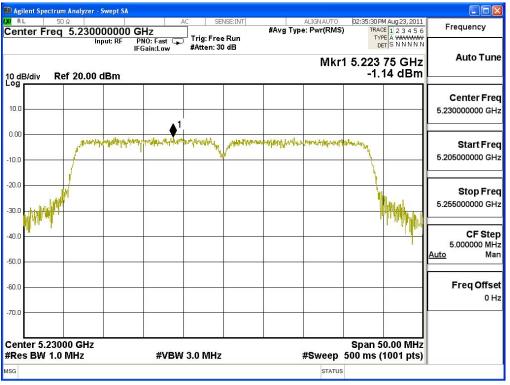
DAgilent Spectrum Analyzer - Swept SA				
XX RL 50Ω Center Freq 5.670000000 GH	AC SENSE:INT 1Z 10: Fast Trig: Free Run	ALIGNAUTO #Avg Type: Pwr(RMS	03:16:43 PM Aug 23, 2011 ) TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
10 dB/div Ref 20.00 dBm	i0: Fast → Trig: Free Run ain:Low #Atten: 30 dB	Mkr	1 5.680 15 GHz -3.29 dBm	Auto Tune
10.0				Center Freq 5.670000000 GHz
0.00 -10.0	when many many many	การการสาราชสาราชสาราชสาราชสาราชสาราช 	Wonder	Start Freq 5.645000000 GHz
-20.0			Martine 1	Stop Frec 5.695000000 GHz
-40.0				CF Step 5.000000 MH: <u>Auto</u> Mar
-60.0				Freq Offset 0 Hz
-70.0				
Center 5.67000 GHz #Res BW 1.0 MHz	#VBW 1.0 MHz	#Sweep	Span 50.00 MHz 500 ms (1001 pts)	
MSG		STATU	5	

# Channel 134 – Chain A

		Channe	1.50 - Cha			
🖉 Agilent Spectrum Analyzer - Swo	ept SA					
ໝ RL 50 ລ Center Freq 5.190000 Input		] Trig: Free Ru	#Avg Typ	ALIGNAUTO	TYPE A WWWWW	Frequency
10 dB/div Ref 20.00 dB	IFGain:Low	#Atten: 30 dE		Mkr	1 5.203 65 GHz -1.18 dBm	Auto Tune
10.0						Center Fred 5.190000000 GH;
0.00	๚๛๚๚๚๚๚๚๚๚๚ ๚๛๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚๚	ng mala she hadin ya waa	alwall and a strangest by	-winanywiny	manth	Start Free 5.165000000 GH
-20.0						Stop Free 5.215000000 GH
40.0 50.0					1 19°4)	<b>CF Ste</b> 5.000000 MH <u>Auto</u> Ma
60.0						Freq Offse 0 H
-70.0						
Center 5.19000 GHz #Res BW 1.0 MHz	#VBW	3.0 MHz		#Sweep	Span 50.00 MHz 500 ms (1001 pts)	
MSG				STATUS		

Channel 38 – Chain B

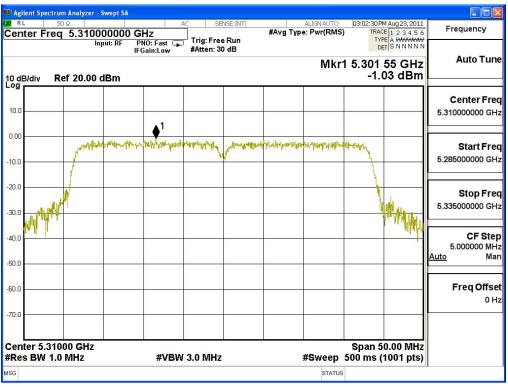


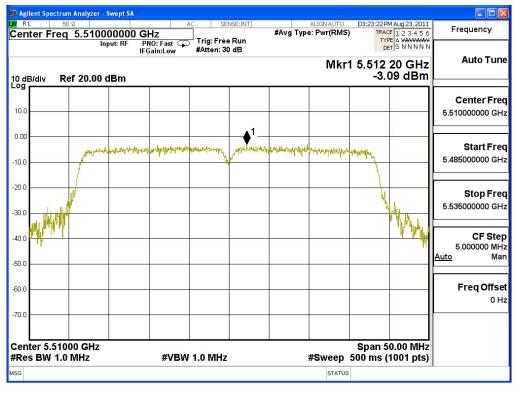


				Cinanin		Chan					
💴 Agilent Spectru	ım Analyzer - S	wept SA									
Center Fred		out: RF PI	NO: Fast 🗔	] Trig: Free		#Avg Typ	ALIGNAUTO e: Pwr(RMS	TRAC	M Aug 23, 2011 CE 1 2 3 4 5 6 PE A WWWWW ET S N N N N N	Frequency	
	Mkr1 5.256 80 GHz 0 dB/div Ref 20.00 dBm -0.95 dBm										
10.0		•1	2							Center Freq 5.270000000 GHz	
-10.0	promotives	11+hulp-referredan	Naruhyuna-Yuara-yu	Hutminit	Nyerterterthal	r waanny gramhai	knai Mirian Magalinan	manur		Start Freq 5.245000000 GHz	
-20.0										<b>Stop Fred</b> 5.295000000 GHz	
40.0										CF Step 5.000000 MH <u>Auto</u> Mar	
60.0										Freq Offse	
-70.0											
Center 5.270 #Res BW 1.0			#VBW	3.0 MHz			#Sweep		i0.00 MHz 1001 pts)		
MSG							STATUS	5			

Channel 54 – Chain B

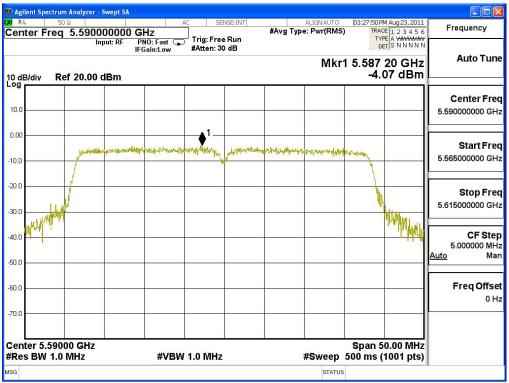
Channel 62 – Chain B





Channel 102 – Chain B

Channel 118 – Chain B



I Agilent Spectrum Analyzer - Swept SA								
RL 50Ω		C SEN	ISE:INT	#Aug Typ	ALIGNAUTO e: Pwr(RMS)		Aug 23, 2011	Frequency
enter Freq 5.67000000 Input: RF	PNO: Fast IFGain:Low	Trig: Free #Atten: 30		HULB LIN	e. r wr(rawo	TYP	E A WWWWW T S N N N N N	
0 dB/div Ref 20.00 dBm					Mkr	1 5.660 -3.(	15 GHz 06 dBm	Auto Tur
g								Center Fre
0.0								5.67000000 Gł
00 Manufacture and	HTW HARMAN	landpolantary.	NAMULANAMA	hard the second second	population and the second second	workende		Start Fr
0.0		4	<i>(</i>			1		5.645000000 G
0.0								Stop Fr
				. <u></u>			What	5.695000000 G
0.0							I'' II II WA	CF Ste 5.000000 M
0.0								<u>Auto</u> M
0.0								Freq Offs
0.0								0
enter 5.67000 GHz Res BW 1.0 MHz	#VBW	1.0 MHz			#Sweep		0.00 MHz 1001 pts)	
G					STATUS			1

#### Channel 134 – Chain B

# 5. Peak Excursion

## 5.1. Test Equipment

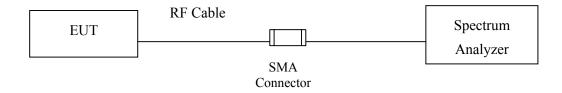
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2011
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2011
Х	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2011

Note:

- 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
- 2. The test instruments marked with "X" are used to measure the final test results.

## 5.2. Test Setup

## **Conduction Power Measurement**



## 5.3. Limits

The ratio of the peak excursion of the modulation envelope (measured suing a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

# 5.4. Test Procedure

The EUT was setup to ANSI C63.4, 2009; tested to DTS test procedure of Aug 2002 DA 02-2138 for compliance to FCC 47CFR Subpart E requirements.

# 5.5. Uncertainty

± 1.27 dB

# 5.6. Test Result of Peak Excursion

Product	:	WLAN MODULE
Test Item	:	Peak Excursion
Test Site	:	No.3 OATS
Test Mode	:	Mode 1: Transmitter (802.11a-6Mbps)

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	8.390	<13	Pass
44	5220	7.960	<13	Pass
48	5240	8.040	<13	Pass
52	5260	8.040	<13	Pass
60	5300	8.220	<13	Pass
64	5320	8.250	<13	Pass
100	5500	7.720	<13	Pass
120	5600	7.780	<13	Pass
140	5700	7.450	<13	Pass

# Channel 36:

Agilent Spect		- Swept SA							
enter Fre		000000 GHz	AC Fast C	SENSE:I	#Avg	ALIGNAUTO Type: Log-Pwr		Aug 28, 2011 1 2 3 4 5 6 MMWWWW	Frequency
0 dB/div	Ref 20.00	IFGain		Atten: 30 dB		Mkr2	5.177 27	<sup>9</sup> SNNNN 5 GHz 4 dBm	Auto Tur
0.00 10.0 10.0		and in the Hulley of White Articles	2 	ly long when	untrigillion and and	>1 เป็-หุกได้มีกับการเป็นจุกไม่จะเป็นจุกไม่จะเป็นจุกไม่จะเป็นจุกไม่จะเป็นจุกไม่เข้าได้เป็	When the second se	Tallou and the second	<b>Center Fr</b> 5.180000000 Gi
									<b>Start Fr</b> 5.167500000 G
i0.0 i0.0 i0.0									<b>Stop Fr</b> 5.192500000 G
enter 5.18 Res BW 1	.0 MHz	×	#VBW 3.	0 MHz	FUNCTION	#Sweep	Span 25 500 ms (1 EUNOTION	001 pts)	CF St 2.500000 M Auto M
1 N 1 2 N 2 3 4 5 5 6	f	5.183 825 GI 5.177 275 GI		11.93 dBm 3.54 dBm	TONE HON				Freq Offs 0
7 8 9 0 1									
G						STATUS			



					Cham		••				
💴 Agilent Sp	ectrum An	alyzer - Swe	pt SA								
Center F	50 Ω	220000	000 GHz	AC	SENS	E:INT	#Ava	ALIGNAUTO Type: Log-Pwr		M Aug 28, 2011	Frequency
Cerner	Teq J.	Input:			rig: Free F Atten: 30 d			.,,	TY	PE MMWWWW ET P S N N N N	
			ii duiii.					Mkr2		75 GHz	Auto Tune
10 dB/div Log	Ref 2	20.00 dB							3.	79 dBm	
10.0		and a de a	1	n I Akhat ana	III - Mailer	2 ulds M bdb	1.10.10	handle ballander have	New.		Center Freq
0.00		all the state of t	Automation RA Manam	atos de Thainder	And the first of the second se	-Witter Helpin	aleite Back	was made when heavy walk	all in		5.220000000 GHz
-10.0	ALL HANT								- William	And a starter	
-20.0	144.1									A CONTRACTOR	
-30.0											Start Free
-40.0											5.207500000 GHz
-50.0											
-60.0											Stop Fred
-70.0											5.232500000 GHz
-70.0											
Center 5.										5.00 MHz	CF Step
#Res BW	1.0 MH	lz	;	#VBW 3.	0 MHz			#Sweep	500 ms (	1001 pts)	2.500000 MHz
	RC SCL		X		Y		CTION	FUNCTION WIDTH	FUNCTI	DN VALUE	<u>Auto</u> Mar
	1 f 2 f		5.215 275 GH		11.75 dBr 3.79 dBr						
3				-		-					Freq Offset
4											0 Hz
6						-					
8											
9 10				-							
11											
12						1					
MSG								STATU	S		

Channel 44:

Channel 48:

Agilent Spectrum Analyzer RL 50 Ω	- Swept SA	AC SENSE:INT	ALIGNAUTO	02:22:46 PM Aug 28, 2011						
enter Freq 5.2400	DOOOOO GHZ nput: RF PNO: Fast IEGain:Low		#Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6 TYPE MMWWWW DET P S N N N N	Frequency					
) dB/div Ref 20.00	Mkr2 5.239 750 GHz B/div Ref 20.00 dBm 3.48 dBm									
og	the fight of the second	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	K)1 ahungAilumuumanyyyintaatmilli	and any few printing and	Center Fre 5.240000000 GH					
				1 viAwhile	Start Fro 5.227500000 GI					
0.0					<b>Stop Fr</b> 5.252500000 G					
enter 5.24000 GHz Res BW 1.0 MHz	#VE	3W 3.0 MHz	#Sweep	Span 25.00 MHz 500 ms (1001 pts)	CF Sto 2.500000 M					
R MODE TRO SCL 1 N 1 f 2 N 2 f	× 5.242 775 GHz 5.239 750 GHz	11.52 dBm 3.48 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> M					
3 N 2 I 3 4 5 5 5 5	3.239 730 GHZ	3.40 UDIII			Freq Offs 0					
7 B 9 0 1										
2										



🎾 Agilent Sp			Swept SA								
Center F	50 s req	5.2600	put: RF P	NO: Fast 🕞	Trig: Fi	SENSE:INT	#Avg 1	ALIGNAUTO Type: Log-Pwr	TRA	M Aug 28, 2011 E 1 2 3 4 5 6 PE MMWWWW ET P S N N N N	Frequency
10 dB/div	IB/div Ref 20.00 dBm 3.31 dBm 3.31 dBm										Auto Tune
10.0 0.00 -10.0	L.M.M.	William	had bench as a start of the	herpelander Racio	IIINA MARANYA	2 Ange and the little	()1 while works	nimitoministatia	are when the	HAVIN MA	Center Freq 5.26000000 GHz
-20.0 -30.0 -40.0 -40.0										, i virladi	Start Fred 5.247500000 GHz
-50.0 -60.0 -70.0											Stop Free 5.272500000 GH:
Center 5 #Res BW	1.0	/IHz		#VBV	V 3.0 MH				500 ms (	5.00 MHz 1001 pts)	CF Step 2.500000 MH
2 N	1 f 2 f		× 5.262 87 5.260 10		11.35 3.31		FUNCTION	FUNCTION WIDTH	FUNCTI	DN VALUE	<u>Auto</u> Mar
3 4 5 6											Freq Offse 0 H:
7 8 9 10 11											
12 MSG								STATUS			

Channel 52:

Channel 60:

💴 Agilent Spectrum Analyzer -	Swept SA				
Center Freq 5.3000	00000 GHz put: RF PNO: Fast C	AC SENSE:INT	ALIGNAUTO #Avg Type: Log-Pwr	02:27:00 PM Aug 28, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW	Frequency
10 dB/div Ref 20.00 (	IFGain:Low	#Atten: 30 dB	Mkr2	5.299 675 GHz 3.01 dBm	Auto Tune
Log 10.0 0.00 -10.0	V-n-Villed March In March	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	งมีเป็นไปเป็นเป็นขายประโย <sup>1</sup> ยังเป็นไปเป็น 	The second se	Center Freq 5.300000000 GHz
-20.0 0 - 1 - 1					Start Fred 5.287500000 GH:
-50.0 -60.0 -70.0					Stop Free 5.312500000 GH
Center 5.30000 GHz #Res BW 1.0 MHz	9715 - 27 Million	N 3.0 MHz		Span 25.00 MHz 500 ms (1001 pts)	CF Step 2.500000 MH
MSE MODE TEL SEL   1 N 1 f   2 N 2 f   3 - - -   5 - - -   6 - - -   7 - - -   8 - - -   9 - - -   10 - - -   11 - - -	× 5.295 175 GHz 5.299 675 GHz	11.23 dBm 3.01 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar Freq Offse 0 H
ISG			STATUS		



	0 0			
🗊 Agilent Spectrum Analyzer - Swe	ept SA			
X RL 50 Ω Center Freq 5.320000		ALIGN AUTO #Avg Type: Log-Pwr	02:28:55 PM Aug 28, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW	Frequency
Input:	:: RF PNO: Fast 🖵 Trig: Free Run IFGain:Low #Atten: 30 dB	ML-O	5.319 825 GHz	Auto Tune
10 dB/div Ref 20.00 dB	Sm	IVIKTZ	3.61 dBm	
Log 10.0	allaftere were for him hall the the second are and the second	allaber and an and a second and a	Star And	Center Freq 5.32000000 GHz
0.00 -10.0 -20.0			AN MARINA MAR	5.52000000 GH2
-30.0				Start Fred 5.307500000 GH;
-50.0				Stop Free
-70.0 Center 5.32000 GHz			Snon 25 00 Milia	5.332500000 GH;
#Res BW 1.0 MHz	#VBW 3.0 MHz		Span 25.00 MHz 500 ms (1001 pts)	CF Step 2.500000 MH
	X Y FU 5.322 800 GHz 11.86 dBm 5.319 825 GHz 3.61 dBm	INCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mar
2 N 2 I 3 4 5 6	3.5 13 623 GHZ 3.6 1 4011			Freq Offse 0 H:
7 8 9				
10 11 12				
MSG		STATUS		

#### Channel 64:

#### Channel 100:

		AC SENSE:		ALIGN AUTO		4 Aug 28, 2011	Frequency
ter Freq 5.5	00000000 GHz Input: RF PNO: Fas IFGain:Lo		in –	Type: Log-Pwr	TYP	E 1 2 3 4 5 6 E MM <del>WWWW</del> T P S N N N N	
B/div Ref 20	00 GHz 79 dBm						
		2	()1				Contor
	provide all all all all all all all all all al	Law portune on the man	una later for and the	harman water frither was	Stan		Center Fi 5.50000000 0
A NIM					MAL	- marine	0.000000000
MAN MANY					1 44	M Bayer R	
· ']						1 1 1 1	Start Fi
							5.487500000 0
							Stop F
							5.512500000 0
				01 17			
tor 5 50000 C	Ll-s				Cman 2		
ter 5.50000 G s BW 1.0 MHz		/BW 1.0 MHz		#Sweep	Span 2 500 ms (	5.00 MHz 1001 pts)	
s BW 1.0 MHz	#\	/BW 1.0 MHz	EINGHÂN	#Sweep	500 ms (	1001 pts)	2.500000 N
SBW 1.0 MHZ	* 5.502 850 GHz	Y 10.51 dBm		#Sweep	500 ms (	1001 pts)	2.500000 N
s BW 1.0 MHz	: #\ ×	Y 10.51 dBm			500 ms (	1001 pts)	2.500000 N <u>Auto</u> N
SBW 1.0 MHZ	* 5.502 850 GHz	Y 10.51 dBm			500 ms (	1001 pts)	2.500000 M Auto M Freq Off
SBW 1.0 MHZ	* 5.502 850 GHz	Y 10.51 dBm			500 ms (	1001 pts)	2.500000 M Auto M Freq Off
SBW 1.0 MHZ	* 5.502 850 GHz	Y 10.51 dBm			500 ms (	1001 pts)	CF Si 2.50000 M Muto M Freq Off 0
SBW 1.0 MHZ	* 5.502 850 GHz	Y 10.51 dBm			500 ms (	1001 pts)	2.500000 M Auto M Freq Off
SBW 1.0 MHZ	* 5.502 850 GHz	Y 10.51 dBm			500 ms (	1001 pts)	2.500000 M Auto M Freq Off



						011			•••					
💴 Agilent S	Spectru	um Ana	lyzer - S	wept SA										
Center		<sup>50 ຊ</sup>				AC Tria: F	SENSE:I		#Avg		IGN AUTO .og-Pwr	TRA	PM Aug 28, 2011 ACE 1 2 3 4 5 6 YPE MMWWWW	Frequency
			Inp		PNO: Fast FGain:Low	#Atten						1	DETPSNNNN	Auto Tu
10 dB/div												Auto Tun		
10.0				ور معار مقدوما ومارد م	موروف الدولة الجامع		2	مرور مرور معدوم	()1	Ynorth and	www.estlaway			Center Fr
0.00		and M	A CONTRACT	₩. <b>₩.₩.₩</b> ₩	-1-41-1889-19164)	M-My Wilderstein	e-life and e-life	folynyw fywyddyn	(Mradewrud)	uffictive all larval	ine-menal shifted	AND	-	5.60000000 G
-10.0	proph	Plank,										- The	NUMBER	
30.0							_						, т	Start Fr
40.0					-		_			_				5.587500000 G
50.0 60.0														Stop Fr
70.0														5.612500000 G
Center	5.60	000 0	Hz									Span	25.00 MHz	
Res B	W 1.	0 MH	z		#VI	3W 1.0 MI	łz			#\$	Sweep	500 ms	(1001 pts)	CF St 2.500000 M
MKR MODE	1	SCL f		× 5.602 7	50 GHz	Y 10.65	dBm	FUN	CTION	FUNCT	ION WIDTH	FUNCT	ION VALUE	<u>Auto</u> N
2 N 3	2	f		5.600 2	75 GHz	2.87	dBm							
4														Freq Offs 0
6														0
7														
9 10														
11 12														
											STATUS			
ISG											STATUS			

Channel 120:

Channel 140:

Agilent Spectrum Analyzer	- Swept SA									
RL 50 Ω enter Freg 5.7000	00000 GHz	AC SENSE:INT	ALIGNAUTO #Avg Type: Log-Pwr	02:35:57 PM Aug 28, 2011 TRACE 1 2 3 4 5 6	Frequency					
	nput: RF PNO: Fast C IFGain:Low	➡ Trig: Free Run #Atten: 30 dB	0 7	DET P S N N N N						
0 dB/div Ref 20.00	Mkr2 5.698 175 GH: B/div Ref 20.00 dBm 2.74 dBn									
og		2	<b>⟨</b> ⟩1							
0.0	put and the second of the seco	MAR WANNEL MANA	all the source of the bolton of the source of the	Maria	Center Fr					
00			2	What	5.70000000 G					
. Reden Hall				THINK THE THE						
				all and the second second	Start Fr					
0.0					5.687500000 G					
0.0					0.0010000000					
.0										
0.0					Stop Fr					
1.0					5.712500000 G					
	17 52									
enter 5.70000 GHz Res BW 1.0 MHz	#\/B	W 1.0 MHz	#Sween	Span 25.00 MHz 500 ms (1001 pts)	CF St					
			-	· _ 4	2.500000 M					
R MODE TRC SCL	× 5.702 775 GHz	10.19 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> M					
2 N 2 f	5.698 175 GHz	2.74 dBm								
3					Freq Offs					
5					0					
7	<u></u>		0							
3	0									
5 C										
1										
èl III		d								
3			STATUS							

# 

Product	:	WLAN MODULE
Test Item	:	Peak Excursion
Test Site	:	No.3 OATS
Test Mode	:	Mode 2: Transmitter (802.11n-20BW 14.4Mbps)

## Chain A

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	8.380	<13	Pass
44	5220	9.030	<13	Pass
48	5240	9.470	<13	Pass
52	5260	8.320	<13	Pass
60	5300	9.190	<13	Pass
64	5320	9.710	<13	Pass
100	5500	8.980	<13	Pass
120	5600	8.570	<13	Pass
140	5700	9.050	<13	Pass

#### Channel 36:

🛙 Agilent Spectrum Analyze	r - Swept SA									
X RL 50 Ω Center Freq 5.180	0000000 GHz Input: RF PNO: Fast C	AC SENSE:INT	ALIGNAUTO #Avg Type: Log-Pwr	02:38:53 PM Aug 28, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW	Frequency					
10 dB/dia - Bof 20 0	IFGain:Low #Atten: 30 dB Mkr2 5.183 750 GHz 0 dB/div Ref 20.00 dBm 1.86 dBm									
Log		1 12-12-12-12-12-12-12-12-12-12-12-12-12-1	2 เป็าไปการและรูปไปการและไม่ไปเราะไม่		Center Free 5.180000000 GH					
20.0 4004 1 1				i a dinami	Start Fre 5.167500000 GH					
-50.0					<b>Stop Fre</b> 5.192500000 GH					
Center 5.18000 GHz Res BW 1.0 MHz		W 3.0 MHz	#Sweep	Span 25.00 MHz 500 ms (1001 pts) EUNCTIONVALUE	CF Ste 2.500000 MH Auto Ma					
1 N 1 f   2 N 2 f   3 - - -   4 - - -   5 - - -   6 - - -   7 - - -   9 - - -   10 - - -   12 - - -	5.178 000 GHz 5.183 750 GHz	10.24 dBm 1.86 dBm			Freq Offs					
SG			STATUS							



				-							
						wept SA	Analyzer - S	ectrum			
Frequency	PM Aug 28, 2011		ALIGN AUTO		AC SENSE:			50	L		
	CE 123456 PE MMWWWW DET PSNNNN	TYP	Type: Log-Pwr	#AVg	Trig: Free Ru #Atten: 30 dB	00000 GHz ut: RF PNO: Fast IFGain:Lov		req	ter		
Auto Tun		Mkr2 5.219 950 GHz B/div Ref 20.00 dBm 1.62 dBm									
Center Fr		angender			2	<b>∖1</b>	1				
5.220000000 G		alpert mud	Alugation and Alugarian Alugarian	what which the	why you have a service of the servic	wohn when and the particular		New York			
	the the line							- Martin	a non		
01								And a	M/TP		
Start Fr 5.207500000 G								-	_		
5.207500000									<u> </u>		
Stop Fr											
5.232500000 G											
	25.00 MHz	Snan 2			10 M	-95	0 GHz	2200	ter !		
CF St 2.500000 M	(1001 pts)		#Sweep		3W 3.0 MHz	#V		1.0			
Auto N	ION VALUE	FUNCTIO	FUNCTION WIDTH	FUNCTION	Y	×		TRC SCL	MODE		
					10.65 dBm 1.62 dBm	5.212 450 GHz 5.219 950 GHz		1 f 2 f	N N		
Freq Off					1.82 GBIII	5.219 950 GHz		2 1	IN		
0								-			
1			STATUS								
			5.14105								

Channel 44:

Channel 48:

RL 50 Ω	nalyzer - Swept SA	AC SENSE:IN		NAUTO 02:42:59 PM Aug	
	5.240000000 GHz Input: RF PNO: Fas IFGain:Lo	t 🕞 Trig: Free Run	#Avg Type: Lo		3456 Frequency
) dB/div <b>Ref</b>	20.00 dBm		٦	/lkr2 5.240 275 1.62 c	
	1	หมูงได้จะ () เข้าเข้าไป กระการ () เข้าไป	an a		Center Fro 5.240000000 G
					5.227500000 G
0.0 0.0 0.0					Stop Fr 5.252500000 G
enter 5.24000 Res BW 1.0 M		VBW 3.0 MHz	#Sv	Span 25.00 veep 500 ms (1007	
R MODE TRC SCL N 1 f N 2 f	× 5.232 600 GHz 5.240 275 GHz		FUNCTION FUNCTIO	N WIDTH FUNCTION VAL	Auto M
<b>a N 2 1</b> 3 4 5	5.240 275 GHZ				Freq Offs
7 B 9					
0					



Agilent : R L		<mark>m Analyz</mark> DΩ	er - Swept SA	-	AC SE	NSE:INT		ALIGN AUTO	02:45:04.0	M Aug 28, 2011	
				<b>GHz</b> PNO: Fast C FGain:Low		Run	#Avg Ty;	be: Log-Pwr	TRAC	E 1 2 3 4 5 6 MMWWWW ET P S N N N N	Frequency
Mkr2 5.259 625 GHz dB/div Ref 20.00 dBm 2.22 dBm										Auto Tu	
	North Contraction	approxime	1มะสะบาทสาย	halwight adjust and	loge with the second	2	www.augundu	digat/147640,0016-Arra	L'ALIMONT VA		Center Fr 5.260000000 G
0.0 <b>444</b> 0.0											<b>Start Fr</b> 5.247500000 G
).0 ).0 ).0											Stop Fr 5.272500000 G
les B	W 1.0	00 GH MHz	z	#VB	W 3.0 MHz	0		#Sweep	500 ms (	5.00 MHz 1001 pts)	CF St 2.500000 M
R MODE	1	CL F		75 GHz 25 GHz	10.54 d 2.22 d	Bm	JNCTION	JNCTION WIDTH	FUNCTION	DN VALUE	Auto M
			0.203		2.22 4						Freq Off 0
7 3 9 0											

Channel 52:

Channel 60:

🛚 Agilent Spectrum Analyzer -	Swept SA				
RL 50Ω Center Freq 5.3000 In	put: RF PNO: Fast G	AC SENSE:INT	ALIGNAUTO #Avg Type: Log-Pwr	02:49:22 PM Aug 28, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW DET P S N N N N	Frequency
	IFGain:Low	#Atten: 30 dB	Mkr2	5.299 975 GHz 1.54 dBm	Auto Tun
10 dB/div Ref 20.00 d -99 10.0	dBm สู่สำนักและเป็นสู่ประเทศ	2 2 2 2 2 2 2 2 2 2 2 2 2 2	านในสามาร์เกาะสาราไปสามาร์เกาะ		Center Fre
10.0 <b>20.0</b>				Martin Andrew	Start Fre
30.0					5.287500000 GF
50.0 60.0 70.0					Stop Fre 5.312500000 GI
enter 5.30000 GHz Res BW 1.0 MHz	#VB\	V 3.0 MHz	#Sweep	Span 25.00 MHz 500 ms (1001 pts)	CF Ste 2.500000 M
KR MODE TRC SCL 1 N 1 f 2 N 2 f	× 5.298 050 GHz 5.299 975 GHz	10.73 dBm 1.54 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> M
3 1 4 5 6					Freq Offs 0
7 8 9 0					
11			STATUS		



			••••	0110111						
					t SA	nalyzer - Swept S	rum A	Spect	gilent	D Ag
Frequency	02:51:36 PM Aug 28, 2011	ALIGN AUTO		AC SENSE:IN			50 Ω			R
Frequency	TRACE 1 2 3 4 5 6	Type: Log-Pwr	#Avg	Trig: Free Rur		5.32000000	eq 5	r Fre	nter	er
	DET P S N N N N			· · · · · · · · · · · · · · · · · · ·	RF PNO: Fast IFGain:Low	Input: RF				
Auto Tu	.320 150 GHz	Mikrou			ii ounicon					
	0.91 dBm									
	0.91 0.511				n	20.00 dBm	Ref	iv	IB/di	0 d .og
Conton Fr						<b>(</b> )1				10.0
Center Fr	MAN WALL	manifela with a fail of the set	more produce MA	hand an and the service	he also and a star for	- Andrew water				
5.320000000 G	A LIVE					A 1	ALL AND	INNER		0.00
	The shall be seen						AT UN	WAW	( John J	0.0
	Why a way of the							wr"		0.0
Start Fr									1 1	0.0
5.307500000 G										
-										0.0
										0.0
Stop Fr									i —	0.0
5.332500000 C										nn
									1	U.U
Satte-188 Sat	Span 25.00 MHz	<i>01</i>				GHz	2000	5.33	nter	er
CF St	00 ms (1001 pts)	#Sweep 5		BW 3.0 MHz	#V			3W 1		
2.500000 N										_
<u>Auto</u> N	FUNCTION VALUE	FUNCTION WIDTH	FUNCTION	10.62 dBm	× 312 800 GHz	×	f	E TRC	NUDE	18 1
				0.91 dBm	.312 800 GHz		f	2	N	2
Freq Off										3
							-	-		4
0									_	5 6
										7
								_		8
										9 0
										1
										2
		STATUS								G
										_

Channel 64:

Channel 100:

Agilent Spectrum Analyzer -	Swept SA								
a RL 50 Ω Center Freq 5.5000 In	put: RF PNO: Fast ( IFGain:Low	AC SENSE:INT Trig: Free Run #Atten: 30 dB	ALIGNAUTO #Avg Type: Log-Pwr	02:53:14 PM Aug 28, 2011 TRACE 1 2 3 4 5 6 TYPE MMWWWW DET P S N N N N	Frequency				
Mkr2 5.499 675 GHz -0.39 dBm -0.39 dBm									
0 00 0.00 10.0 0.00	- Allenan Managerrain	and the second sec	ารัเก.โายัง[ยังอร์สะกลุ่มขะเหม่ไปปา?ยะเกา	A Martin Commence	Center Fre 5.500000000 GH				
20.0 <b>11 11 11 11 11 11 11 11 11 11 11 11 11</b>				- Parly Martin Parly	Start Fre 5.487500000 Gi				
0.0					<b>Stop Fr</b> 5.512500000 G				
enter 5.50000 GHz Res BW 1.0 MHz		W 1.0 MHz		Span 25.00 MHz 500 ms (1001 pts)	CF St 2.500000 M				
KR MODE TRC SCL 1 N 1 F 2 N 2 F	× 5.506 650 GHz 5.499 675 GHz	8.59 dBm -0.39 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> M				
3 4 5 6					Freq Offs 0				
7 8 9 0 1 2									
G	j.		STATUS		1				



								Swept SA	Analyzer -	rum A	Spect	ilent S
Frequency	54:48 PM Aug 28, 2011		ALIGN AUTO		VSE:INT	AC SE				50 Ω		L
Frequency	TRACE 123456 TYPE MMWWWW		rpe: Log-Pwr	#Avg	<b>D</b>	Trig: Free		00000 G		eq (	Fre	nter
	DET P S N N N N					#Atten: 30	PNO: Fast Gain:Low	put: RF F	In			
Auto Tu						Witteen. o	Gam.LOW	201				
	95 550 GHz		WKr2									
	-0.27 dBm	-0.				-		dBm	20.00	Ref	v	B/div
								1				
Center Fi		and the second s	Anter La She apartan	kin Ula	- Inmis Id	Allow and and a	2°	Philippine and	An Internet			
5.60000000 0	- AV	A Marine and	MARING MICHINE	and building	al. Matalia, Instantan	AND A ADDARD	How The Alfred	. A.M. Bels Bran and Bill	- Andrew	and the	-	
	Mar Martin	M		_			_		<u>r</u>	μ	AND NO	. DUL
	'MAMMALL									14	mult	ALL N
Start Fr	A A WILL									1	6.L. A	14.64
5.587500000 0												
				-			-	-		_		
Stop Fi												
5.612500000 0												
5.612500000 0												-
											5.00	
CF St	an 25.00 MHz		#Ourson			/ 1.0 MHz	-#3./E		0 GHz	.0 N		
2.500000 N	ms (1001 pts)	200 ms	#sweep			1.0 MHZ	#VE		/IHZ	.0 17	44 T	SB
Auto N	FUNCTION VALUE	FUNCT	UNCTION WIDTH	NCTION		Y		×		SCL	TRC	
						8.30 d		5.592 6		f	1	N
					∃m	-0.27 d	50 GHZ	5.595 5	÷	f	2	Ν
Freq Off							1					
0												_
											-	
							1					_
							1					
			STATUS									

Channel 120:

Channel 140:

enter Freg 5.700	000000 GHz	AC SENSE:IN		ALIGNAUTO		Aug 28, 2011	Frequency
	Input: RF PNO: Fast IFGain:Lov	Trig: Free Run w #Atten: 30 dB	1		TYPE DET	MM <del>WWWW</del> PSNNNN	
) dB/div Ref 20.00	) dBm			Mkr2	5.699 90 -0.2	0 GHz 9 dBm	Auto Tu
<b>9</b> 0.0	1						Center Fr
	Ward with the stand the same to be	Independent of the second second	and front the second of a	et the second second second	WALKAN		5.700000000 G
0.0 anone manufacture of the second					WWW I	The stress	
					- N	MAN AND THE	Start Fr
0.0							5.687500000 G
.0							
1.0							Stop Fr
0.0							5.712500000 G
					Snan 25	.00 MHz	
		BM 1.0 MHz		#Sween			CF St
Res BW 1.0 MHz	#V	/BW 1.0 MHz			500 ms (1	001 pts)	2.500000 N
Res BW 1.0 MHz R MODE TRC SCL	#V × 5.692 550 GHz	¥ 8.76 dBm	FUNCTION	#Sweep		001 pts)	2.500000 N
Res BW 1.0 MHz   R MODE TRC SCL   N 1   P 2   N 2   Image: State Sta	#V	Y	FUNCTION		500 ms (1	001 pts)	2.500000 N <u>Auto</u> N
NODE TRC SCL   N 1 f   N 2 f   3 - -   5 - -	#V × 5.692 550 GHz	¥ 8.76 dBm	FUNCTION		500 ms (1	001 pts)	2.500000 M <u>Auto</u> M Freq Off
Res BW 1.0 MHz   R MODE TRC SCL   1 N 1 f   2 N 2 f   3 - - -   4 - - -   5 - - -	#V × 5.692 550 GHz	¥ 8.76 dBm	FUNCTION		500 ms (1	001 pts)	2.500000 M <u>Auto</u> M Freq Off
Res BW 1.0 MHz   I N 1 f   I N 2 f   I N 2 f   I N 2 f   I I - -   I I - -   I I - -   I I - -   I I - -   I I - -   I I - -   I I - -   I I - -   I I - -	#V × 5.692 550 GHz	¥ 8.76 dBm	FUNCTION		500 ms (1	001 pts)	CF St 2.500000 M Auto N Freq Offs 0
	#V × 5.692 550 GHz	¥ 8.76 dBm	FUNCTION		500 ms (1	001 pts)	2.500000 M Auto M Freq Offs

Channel No.	Frequency (MHz)	Measurement Level (dB)	Required Limit (dB)	Result
36	5180	9.990	<13	Pass
44	5220	9.750	<13	Pass
48	5240	9.070	<13	Pass
52	5260	9.410	<13	Pass
60	5300	9.760	<13	Pass
64	5320	9.550	<13	Pass
100	5500	8.880	<13	Pass
120	5600	8.830	<13	Pass
140	5700	10.330	<13	Pass

## Chain B

# Channel 36:

💴 Agilent Spectrum Analyzer	- Swept SA						
Center Freq 5.180		AC SENSE:IN	#Avg Typ	ALIGNAUTO e: Log-Pwr	TRACE	Aug 28, 2011 1 2 3 4 5 6 MMWWWW	Frequency
10 dB/div Ref 20.00	Input: RF PNO: Fast IFGain:Low	#Atten: 30 dB	·	Mkr2	DET	PSNNNN	Auto Tune
Log 10.0 0.00 -10.0 -20.0	1~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2 Urbeter-wardinger		1 Houngellines & priv	n and a second	Marine Contraction	Center Fred 5.180000000 GHz
-30.0						<u>t i ikedirat</u>	Start Free 5.167500000 GH:
-50.0 -60.0 -70.0							Stop Free 5.192500000 GH
Center 5.18000 GHz #Res BW 1.0 MHz		3W 3.0 MHz		#Sweep	500 ms (1	<u> </u>	CF Ste 2.500000 MH
MKR MODE TRC SCL 1 N 1 f 2 N 2 f	× 5.184 725 GHz 5.179 625 GHz	11.63 dBm 1.64 dBm	FUNCTION FUI	NCTION WIDTH	FUNCTION	VALUE	<u>Auto</u> Ma
3 4 5 6							Freq Offse 0 H
7 8 9 10							
11 12 MSG				STATUS			