

Conducted Spurs Peak, 2462 MHz, Non HT-20 Beam Forming, 6 to 54 Mbps

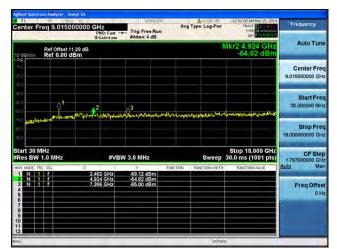


Center Freq 9.015000	DC DOOO GHZ PNO: Fast IFGain:Low	Trig: Free Run #Atten: 4 dB	Avg Type: Log-Pwr	11:57/46 PM May 14, 2014 TRACE 12 4 5 TYPE 04 Cett P N 61N/6 8	Frequency
Ref Offset 11.2 10 dB/div Ref 0.00 dB	28 dB m		N	1kr2 4,924 GHz -63.32 dBm	Auto Tun
200					Center Fre 9.015000000 GH
406 500 ero	2 4 Anna 2 4 Anna 4 Anna 4		dette weigene konstanten son der men son der bei ber	المانون سالير في الزيستوسي لمان	Start Fre 30.000000 MH
70.0					Stop Fre 18.000000000 GH
Start 30 MHz #Res BW 1.0 MHz MKR MODE TRC SCL	#VB\	W 3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Ste 1.797000000 GH Auto Ma
1 N 1 F	2.462 GHz 4.924 GHz	-59.94 dBm -63.32 dBm -64.82 dBm	INCTION FUNCTION WIDTH	FUNCTION VALUE	FreqOffs
	7.386 GHz				01

Antenna C







Antenna D

Page No: 301 of 388

Conducted Spurs Peak, 2462 MHz, HT-20, M0 to M7 enter Freq 9.015000000 GHz Avg Type: Log-P Fast --- Trig: Free Run Auto Tun Ref Offset 11.28 dB Ref 0.00 dBm Center Fre 9.015000000 GH Start Fre ∧3 Stop Fre 18.00000000 GH CF Ste 1.797000000 Stop 18.000 GHz Sweep 30.0 ms (1001 pts) 30 MHz BW 1.0 MH W 3.0 MHz M -54.51 dBm -63.58 dBm -65.13 dBm 2.462 GHz 4.924 GHz 7.386 GHz Freq Offse

Antenna A

Page No: 302 of 388

cisco

Avg Type: Log

ten Section Alegran reter Freq 9.015000000 GHz FROIFast Frank ten Atten: 4 dB Avg Type: Log-Pw Auto Tun Ref Offset 11.28 dB Ref 0.00 dBm Start Free 30,000000 MH Stop 18.000 GHz Sweep 30.0 ms (1001 pts) tart 30 MHz Res BW 1.0 MH #VBW 3.0 MHz Ma -56.18 dE -66.02 dE -65.92 dE 2.462 GH 4.924 GH 7.386 GH Freq Offse

Conducted Spurs Peak, 2462 MHz, HT-20, M0 to M7

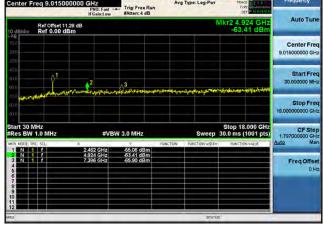
Antenna A

enter Freq 9.015000000 GHz

Antenna B

Page No: 303 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential





Auto Tu

Center Fre 9.015000000 GH

Start Fre

Stop Fre

CF Step

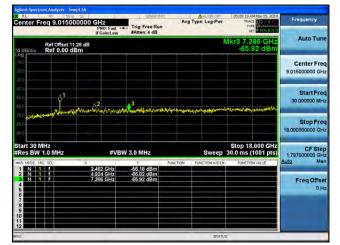
Freq Offse

M

Frequ

enter Freq 9.015000000 GHz Avg Type: Log-F Trig: Free Run Auto Tun Ref Offset 11.28 dB Ref 0.00 dBm 41 Center Free 9.015000000 GH Start Free 30,000000 MH Stop Fre CF Step 1,797000000 GHz Stop 18.000 GHz Sweep 30.0 ms (1001 pts) W 3.0 MHz Ma -55.06 dBm -63.41 dBm -65.90 dBm 2.462 GHz 4.924 GHz 7.386 GHz Freq Offse

Antenna A



Antenna B

Page No: 304 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Spurs Peak, 2462 MHz, HT-20, M8 to M15



enter Freq 9.015000000 GHz Avg Type: Log-P ast --- Trig: Free Run Auto Tun Ref Offset 11.28 dB Ref 0.00 dBm Center Fre 9.015000000 GH Start Fre Stop Fre 19.00000000 GH Stop 18.000 GHz Sweep 30.0 ms (1001 pts) CFS 30 MHz BW 1.0 MH W 3.0 MHz 1,7970 -55.51 dBm -64.65 dBm -66.67 dBm 4.924 GHz 7.386 GHz FreqOf 01

Conducted Spurs Peak, 2462 MHz, HT-20, M0 to M7



	HZ FNO: Fast Gain:Low #Atten: 4 dB	Avg Type: Log-Pwr	105(24:50 AM May 15, 2014 TRACE 24 4 TYPE 001 PRODUCTS	Frequency
Ref Offset 11.28 dB	Called OW Protein Cold	N	1kr3 7.386 GHz -64.99 dBm	Auto Tune
00 100 200				Center Free 9.015000000 GH:
	2 alink a sanki a yasile Agak	ht an han in the stand of the	anglesterations with	Start Free 30,000000 MH
700 900 910				Stop Free 18.000000000 GH
Start 30 MHz Res BW 1.0 MHz MRR MODE TRC SOL 2	#VBW 3.0 MHz	Sweep :	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Step 1.797000000 GH Auto Mar
1 N 1 f 2.4	62 GHz -55 66 dBm 24 GHz -65 80 dBm 86 GHz -64 99 dBm			FreqOffse
4 6 6 7				0 H:

Antenna C

RL # 500 DC		JENNE:NT	ALISN OFF	05:20:56 AM May 15, 2014	a second and the
enter Freq 9.01500000	PNO: Fast ++	Trig: Free Run #Atten: 4 dB	Avg Type: Log-Pwr	TRACE 12 4	Frequency
Ref Offset 11.28 dB				4,924 GHz -61.70 dBm	Center Freq
					Center Fred 9.015000000 GH
10 11	2 Minuthiadai	A3	aldersambare factor and the Berthol	antini aanaanini min	Start Free 30,000000 MH
10 10					Stop Free 18.000000000 GH
art 30 MHz Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Ster 1.797000000 GH
	2.462 GHz	-56,10 dBm	INCTION FUNCTION WEITH	FUNCTION VALUE	Auto Ma
N 1 F	4.924 GHz 7.386 GHz	-61.70 dBm -65.79 dBm			Freq Offset 0 Hz

cisco

Antenna B

Page No: 305 of 388

enter Freq 9.015000000 GHz Avg Type: Log-P ast --- Trig: Free Run Auto Tun Ref Offset 11.28 dB Ref 0.00 dBm Center Fre 9.015000000 GH Start Fre Stop Fre 19.00000000 GH Stop 18.000 GHz Sweep 30.0 ms (1001 pts) CFS 30 MHz BW 1.0 MH W 3.0 MHz 1,7970 -55.51 dBm -64.65 dBm -66.67 dBm 4.924 GHz 7.386 GHz FreqOf 01

Conducted Spurs Peak, 2462 MHz, HT-20, M8 to M15



Center Freq 9.01500000		Trig: Free Run	Avg Type: Log-Pwr	05/24 50 AM May 15, 2014 TRACE 22 4 5 TYPE 04 DUT DRUCK 015	Frequency
Ref Offset 11.28 d 0 dB/div Ref 0.00 dBm		Price and	N	1kr3 7.386 GHz -64.99 dBm	
00 (0.0 (10) (10) (10)					
410 910 910	2 2	3	Shinhasin has salaring	and the laboration of the second	Start Free 30.000000 MH
					Stop Fre 18.00000000 GH
Start 30 MHz Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Step 1.797000000 GH Auto Mai
1 N 1 F 2 N 1 F N 1 F 7	2.462 GHz 4.924 GHz 7.386 GHz	-55.66 dBm -65.80 dBm -64.99 dBm		PORC (NW VALUE	Freq Offse 0 H
8 9 10 11 12 12			STATUS		

Antenna C

RL		001	JENIE-WIT	ALISN OFF	05:20:56 AM May 15, 2014	Auto Tune
enter F	req 9.01500	PNO: Fast + IFGain:Low	Trig: Free Run #Atten: 4 dB	Avg Type: Log-Pwr	TRACE 12 4	
) dB/div	Ref Offset 11 Ref 0.00 de			N	/kr2 4.924 GHz -61.70 dBm	Auto Tune
0.0 0.0 1.0 2.0						Center Fred 9.015000000 GH:
ta 10 10		2 My we have	A3	abbenaphyarelayan anasaren 18.18	entration of the second second second	Start Free 30,000000 MH
0.0 LÓ	Anton					Stop Free 18.00000000 GH
tart 30 M Res BW	1Hz 1.0 MHz	#VB	W 3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Step 1.797000000 GH
AR MODE TH	1	× 2.462 GHz	-56.10 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
2 N 1 3 N 1 6 6 7		4.924 GHz 7.386 GHz	-61.70 dBm -65.79 dBm			Freq Offse 0 H
8 9 0 1 2						

cisco

Antenna B

Page No: 306 of 388

enter Freq 9.015000000 GHz Avg Type: Log-P --- Trig: Free Run Auto Tun Ref Offset 11.28 dB Ref 0.00 dBm Center Fre 9.015000000 GH Start Fre 30.000000 M Stop Fre 19.00000000 GH Stop 18.000 GHz Sweep 30.0 ms (1001 pts) CFS 30 MHz BW 1.0 MH W 3.0 MHz 1,7970 -55.51 dBm -64.65 dBm -66.67 dBm 4.924 GHz 7.386 GHz FreqOf 01

Conducted Spurs Peak, 2462 MHz, HT-20, M16 to M23



Center Freq 9.01500000	0 GHz		Avg Type: Log-Pwr	05:24:50 AM May 15, 2014 TRACE REPORT	Frequency
	DNO-East Trig	: Free Run en: 4 dB		DET P N O N C ST	de la company
Ref Offset 11.28 d	в		N	1kr3 7.386 GHz -64.99 dBm	Center Freq
ມຍູ ທີ່ເບີ້ອີ້ ກັນຍຸມສາຍ ສາຍ					Center Free 9.015000000 GH:
410 €10 €10	And a star week to sup	u Annale Andre	-	angtherestations at the	Start Free 30.000000 MH
70.0 (c.e.)					
91.0					1.797000000 GHz
Start 30 MHz	#VBW 3.01	MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	
Start 30 MHz #Res BW 1.0 MHz MKR MODE TRC SCL > 1 N 1 f	2.462 GHz -55	FUNCT		30.0 ms (1001 pts)	CF Step 1.797000000 GH
Start 30 MHz #Res BW 1.0 MHz MRR MODE TRC SCL 3	2,462 GHz -55, 4,924 GHz -65	FUNCT		30.0 ms (1001 pts)	CF Step 1.797000000 GH
Start 30 MHz #Res BW 1.0 MHz with MODE TRC SCL 2 1 N 1 f 3 N 1 f 4 6	2,462 GHz -55, 4,924 GHz -65	FUNCT 66 dBm 80 dBm		30.0 ms (1001 pts)	CF Step 1.797000000 GH Auto Mai Freq Offse

Antenna C

	00	JEN/R:4/1	ALISN OFF	05:20:56 AM May 15, 2014	Frequency
enter Freq 9.01500	PNO: Fast ++ IFGain:Low	Trig: Free Run #Atten: 4 dB	Avg Type: Log-Pwr	TRACE 12 4	
Ref Offset 11 Bidly Ref 0.00 df	28 dB Bm		1	/kr2 4.924 GHz -61.70 dBm	
09 000 0.0 2.0					
	2 My Marine Marine Hall	A3	Wayner (graf waar 100 Met	handhari an	Start Free 30,000000 MH
oo Lii Lii					Stop Free 18.00000000 GH
tart 30 MHz Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Step 1.797000000 GH
KRI MODIE TRE SCL	×		NCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
1 N 1 f	2 462 GHz 4 924 GHz 7 386 GHz	-56.10 dBm -61.70 dBm -65.79 dBm			Freq Offse

cisco

Antenna B

Page No: 307 of 388

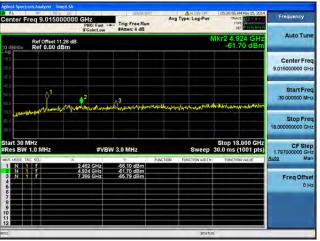
Auto Tune Auto Tune Conter Freq 3.01500000 GH2 martin if Chanter and the first and

Conducted Spurs Peak, 2462 MHz, HT-20, M0 to M7



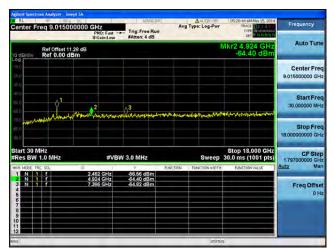
Center Freq 9.0150000		Trig: Free Run #Atten: 4 dB	Avg Type: Log-Pwr	05/24 50 AM May 15, 2014 TRACE 2 4 5 TYPE 2014	Frequency
Ref Offset 11.28	dB		N	1kr3 7.386 GHz -64.99 dBm	Auto Tun
200					Center Fre 9.015000000 GH
416 910 910 910	and 2 martines	3	Nimberitycheczyc Byrtzaczychowych	an strate at the second second	Start Fre 30.000000 MH
					Stop Fre 18.00000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBW	3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Ste 1.797000000 GH
1 N 1 F 2 N 1 F 4 5 6 6 7 8 9 9	2.462 GHz 4.924 GHz 7.386 GHz	-55.66 dBm -85.80 dBm -64.99 dBm			Freq Offset 0 Hz
11					

Antenna C



cisco





Antenna D

Page No: 308 of 388

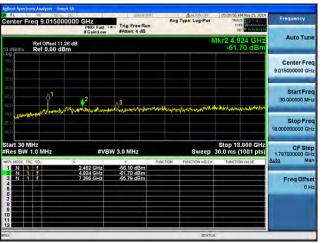


Conducted Spurs Peak, 2462 MHz, HT-20, M8 to M15



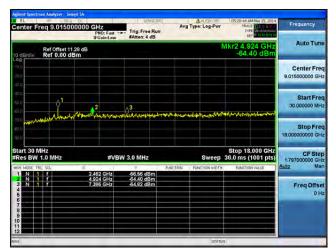


Antenna C



uluih cisco





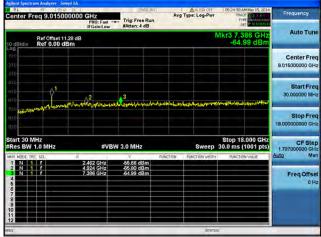
Antenna D

Page No: 309 of 388

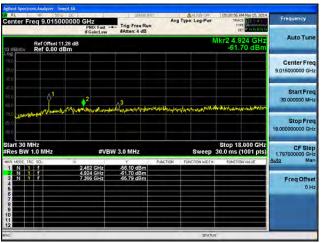


Conducted Spurs Peak, 2462 MHz, HT-20, M16 to M23



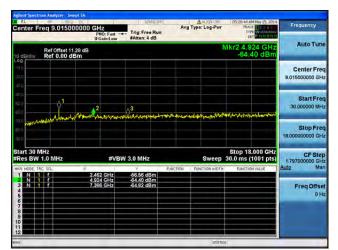


Antenna C



cisco



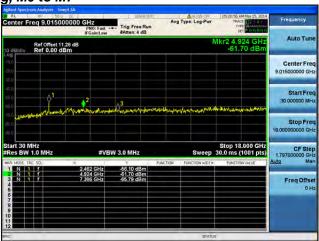


Antenna D

Page No: 310 of 388

Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M0 to M7



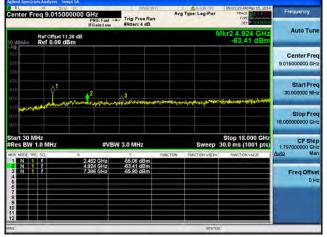


Antenna A

Antenna B

Page No: 311 of 388

Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M8 to M15





Antenna A

Antenna B

Page No: 312 of 388

Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M0 to M7



	9 DC	SEVERAT	ALISN OF	05:52:05 AM May 15, 2014	Frequency
Center Freq 9.0150	PNO: Fast + IFGain:Low	Trig: Free Run #Atten: 4 dB	Avg Type: Log-Pwr	TYPE WARMAN	requercy
Ref Offset 1 0 dB/div Ref 0.00 d	1.28 dB 3Bm			Vikr2 4.924 GHz -61.70 dBm	Auto Tune
0g 100 20					Center Free 9.015000000 GH
	2 Without March Marchen	3	wither with the second states of the second states	William and an and a start a	Start Free 30,000000 MH
0.0 <mark>10-17-10-10-10-17-10-10-10-10-10-10-10-10-10-10-10-10-10-</mark>					Stop Free 18.000000000 GH
				Stop 18.000 GHz	
tart 30 MHz Res BW 1.0 MHz	#VB	W 3.0 MHz	Sweep	30.0 ms (1001 pts)	CF Step 1.797000000 GH
	#VB 2.462 GHz 4.924 GHz 7.386 GHz		Sweep	30.0 ms (1001 pts)	
Res BW 1.0 MHz KR MODE TRE SCL 1 N 2 N 3 N 4	× 2.462 GHz 4.924 GHz	ү. я -56 72 dBm -61.70 dBm		30.0 ms (1001 pts)	1.797000000 GH Auto Mai Freq Offse

Antenna B

enter Freq 9.0150	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 4 dB	Avg Type: Log-P		Frequency
Ref Offset 1 dB/div Ref 0.00 d				Mkr2 4.924 GHz -62.73 dBm	Auto Tune
99 00 00					Center Free 9.015000000 GH:
	PM and the set it is an		Alexandra and a lot	ontentronomington front and	Start Free 30.000000 MH:
					Stop Free 18.000000000 GH:
tart 30 MHz Res BW 1.0 MHz	#VBI	V 3.0 MHz	Swee	Stop 18.000 GHz p 30.0 ms (1001 pts)	1.797000000 GH
KR MODE TRC SCL.	× 2.462 GHz	-58.07 dBm	INCTION FUNCTION WI	STH : FUNCTION VALUE	Auto Mar
2 N 1 f 3 N 1 f 4 5 6 6 7	4.924 GHz 7.386 GHz	-62.73 dBm -63.75 dBm			Freq Offse 0 H
8					1

Antenna C

Page No: 313 of 388

Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M8 to M15



RL # 500 DC		THE SERVICE	ALISN OFF	05:36:32 AM May 15, 2014	Frequency
enter Freq 9.0150000	PNO: Fast + IFGain:Low	Trig: Free Run #Atten: 4 dB	Avg Type: Log-Pwr	TRACE 12 24	
Ref Offset 11.28 d dB/div Ref 0.00 dBm	8			Mkr2 4.924 GHz -63.03 dBm	
00 0.05 0.05 0.0 2.6					
	2 april april very	A 3	ter y had a poly has the first state of the first of	hope that is some any specification in the	Start Free 30,000000 MH:
nn an a					Stop Fred 18.000000000 GH:
tart 30 MHz Res BW 1.0 MHz	#VB	N 3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Step 1.797000000 GH
KR MODE TRE SOL X	2.462 GHz 4.924 GHz	-56.76 dBm -63.03 dBm	UNCTION FUNCTION WIDT	 RUNCTION VALUE 	Auto Mar
3 N 1 F 4	7.386 GHz	-64.71 dBm			Freq Offse 0 H;

Antenna B

eq Hz

Frequency	15:40:24 AM May 15, 2014 TRACE 22:44 TYPE 001 9100000	Type: Log-Pwr	Avg	Trig: Free Run	Z D: Fast -+	00000 GH	9.0150			en.
Auto Tu	kr2 4.924 GHz -65.32 dBm	N			aniceow	.28 dB	offset 11 f 0.00 d	Re Re	div	0 di
Center Fr 9.015000000 G										00 100 200
Start Fr 30.000000 M	alas napped anon	مراجع مراجع	(Jam)Patrata	¢ ³		2	¢1			
Stop Fr 18.00000000 G						la e al marte	rearra	april 1	, nut	
CF St	Stop 18.000 GHz 30.0 ms (1001 pts)	Sweep 3		3.0 MHz	#VBV		MHz	MHz 1.0		
<u>Auto</u> M	FUNCTION VALUE	FUNCTION WIDTH :	FUNCTION	-55.66 dBm		× 2.462		RC SC	N	ия 1
Freq Offs 0				-65.32 dBm -65.40 dBm	GHz	4.924 7.386				34667
										8 9 10

Antenna C

Page No: 314 of 388

Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M16 to M23



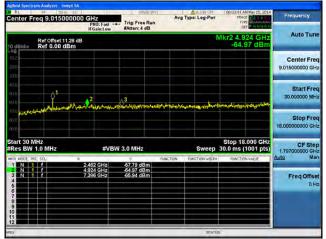
RL IF SUO DC		SEMIE:WIT	ALISN OFF	05:20:56 AM May 15, 2014	Frequency
enter Freq 9.0150000	PNO: Fast ++	Trig: Free Run	Avg Type: Log-Pwr	TYPE WARMAN	Frequency
Ref Offset 11.28 d 0 dB/div Ref 0.00 dBm	в			Vkr2 4.924 GHz -61.70 dBm	Auto Tune
00 0.00 0.00 0.0					Center Freq 9.015000000 GHz
	2 www.housture-tw	A3 Rhansenstrandermarke	io bioseque grandes and souther	tertanus production	Start Free 30,000000 MHz
6.6 1.6 1.0					Stop Free 18.000000000 GH2
tart 30 MHz Res BW 1.0 MHz	#VBV	/ 3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Step 1.797000000 GH
KR MODE TRE SCL >	2.462 GHz 4.924 GHz	-56.10 dBm -61.70 dBm	UNCTION FUNCTION WIDTH	PUNCTION VALUE	Auto Man
3 N 1 F 4 6 6	7 386 GHz	-65.79 dBm			Freq Offsel 0 Hz
7					

Antenna B

enter Freq 9.01500		Trig: Free Run	Avg Type: Log-Pwr	05/24/50 AM May 15, 2014 TRACE 12 14 E	Frequency
	IFGain:Low	#Atten: 4 dB		Mkr3 7.386 GHz	Auto Tune
Ref Offset 11.2 dB/div Ref 0.00 dB				-64.99 dBm	
19 10 10					Center Freq 9.015000000 GHz
10 10 10	New Manathana	3	und bei land son die ster bester die ster bei ster ster ster	enterality of all all parameters with the	Start Freq 30.000000 MHz
10 Herring and a fear of the second of the s	and a second				Stop Fred 18.000000000 GH:
art 30 MHz Res BW 1.0 MHz	#VB	W 3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Step 1.797000000 GHz
R MODE TRC SCL	× 2.462 GHz	-55.66 dBm	UNCTION FUNCTION WIDTH	E FUNCTION VALUE	Auto Mar
	4.924 GHz 7.386 GHz	45.80 dBm 464.99 dBm			Freq Offset 0 Hz

Antenna C

Page No: 315 of 388

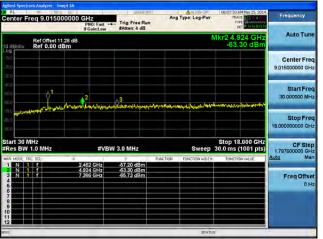


Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M0 to M7



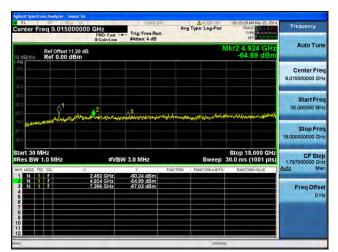


Antenna C



cisco





Antenna D

Page No: 316 of 388

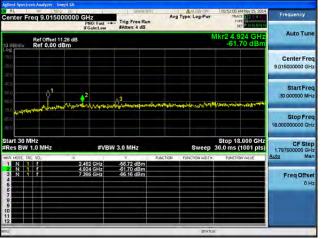


Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M8 to M15

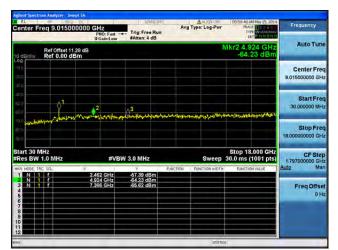


Center Freq 9.0150000		Trig: Free Run #Atten: 4 dB	Avg Type: Log-Pwr	05:55:57 AM May 15, 2014 TRACE 2 4 F TYPE WARNAW	Frequency
Ref Offset 11.28 10 dB/div Ref 0.00 dBm	Auto Tune				
200					Center Free 9.015000000 GH
410 310 01 610	2		A way on the state of the set	white and the state of the stat	Start Fre 30.000000 MH
					Stop Fre 18.000000000 GH
Start 30 MHz #Res BW 1.0 MHz		W 3.0 MHz		Stop 18.000 GHz 30.0 ms (1001 pts)	CF Ste 1.797000000 GH Auto Ma
MAR MODE THC SCL 1 N2 1 7 2 N 1 7 3 N 1 7 4 6 6 7	2.462 GHz 4.924 GHz 7.386 GHz	-58.07 dBm -52.73 dBm -63.76 dBm	INCTION FUNCTION WIDTH	PUNCTION VALUE	Freq Offse 0 H
8 9 10 11 12					

Antenna C



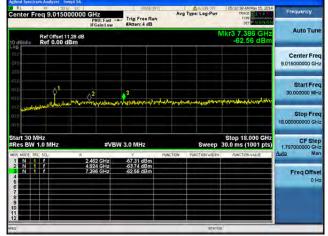




Antenna D

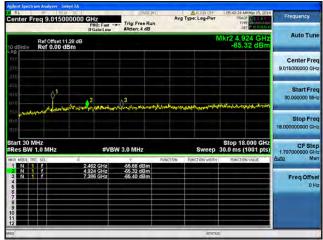
Page No: 317 of 388

Conducted Spurs Peak, 2462 MHz, HT-20 Beam Forming, M16 to M23



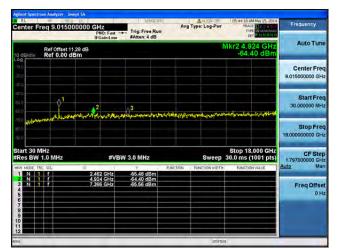






Antenna C

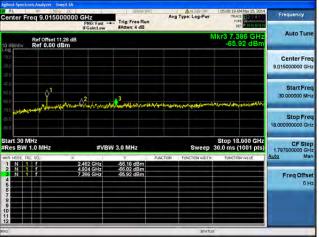




Antenna D

Page No: 318 of 388

enter Freq 9.015000000 GHz Avg Type: L Trig: Free Run Auto Tun Ref Offset 11.28 dB Ref 0.00 dBm 41 Center Fre 9.015000000 GH Start Free 30,000000 MH Stop Fre CF Step 1.797000000 GH Stop 18.000 GHz Sweep 30.0 ms (1001 pts) W 3.0 MHz Ma -55.06 dBm -63.41 dBm -65.90 dBm 2.462 GHz 4.924 GHz 7.386 GHz Freq Offse Antenna A

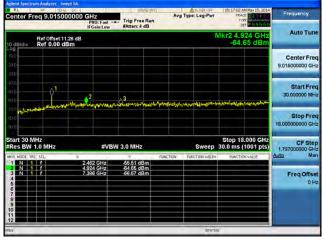


Antenna B

Page No: 319 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Spurs Peak, 2462 MHz, HT-20 STBC, M0 to M7



Conducted Spurs Peak, 2462 MHz, HT-20 STBC, M0 to M7



Center Freq 9.01500000		Trig: Free Run #Atten: 4 dB	Avg Type: Log-Pwr	DS:24:50 AM May 15, 2014 TRACE 2014 TYPE WARMAN	Frequency
Ref Offset 11.28 di 10 dB/div Ref 0.00 dBm	8		٢	/kr3 7.386 GHz -64.99 dBm	Auto Tune
00 100 210 310					Center Fred 9.015000000 GH:
410 910 610	And an approximately	3	-18 San Jacobier Strategy Strategy and Strategy and Strategy Strategy Strategy Strategy and Strategy a	should be added a south of the	Start Free 30,000000 MH:
7110					Stop Free 18.00000000 GH
Start 30 MHz #Res BW 1.0 MHz	#VBI	W 3.0 MHz	Sweep	Stop 18.000 GHz 30.0 ms (1001 pts)	CF Step 1.797000000 GH
MKR MODE TRC SCL X	2.462 GHz	-55.66 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
2 N 1 F 3 N 1 F 4 5	4.924 GHz 7.386 GHz	-65.80 dBm -64.99 dBm			Freq Offset 0 Hi
7 8 9 10					
12			STATU		

Antenna C

enter Freq	9.015000			ree Run : 4 dB		Lig-Pwr	05:20:56 AM M TRACE TVPE DET		Frequency
dB/div Re	Offset 11.2 f 0.00 dBr	8 dB m				N	1kr2 4.924 -61.70		Auto Tune
10 10									Center Freq 9,015000000 GHz
.a. 0. 		2 Myveninivativ	A3	a.A.a.dainett.ala	Washindari	and the second second	anter and a		Start Free 30.000000 MH:
6 6	a de server de la construcción de l	- Jac - of the second							Stop Free 18.00000000 GH:
art 30 MHz Res BW 1.0	MHz	#1	/BW 3.0 M	Hz		Sweep	Stop 18.0 30.0 ms (10	01 pts)	CF Step 1.797000000 GH
R NOTE THE SO		× 2 462 GHz 4 924 GHz 7 386 GHz	-61.70	dBm	NCTION FUN	CTION WIDTH	FUNCTION V	415	Auto Mer Freq Offse 0 Hi

Antenna B

Page No: 320 of 388

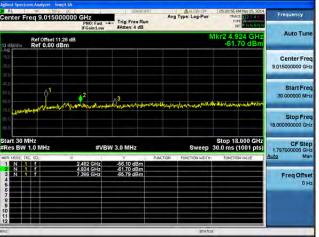


Conducted Spurs Peak, 2462 MHz, HT-20 STBC, M0 to M7



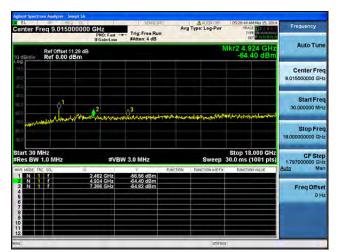


Antenna C



cisco





Antenna D

Page No: 321 of 388

Conducted Bandedge

15.205:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Use the procedures in 558074 D01 DTS Meas Guidance v03r02.

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Be sure to enter all losses between the transmitter output and the spectrum analyzer.

Reference Level:	10 dBm
Attenuation:	4 dB
Sweep Time:	Coupled
Resolution Bandwidth:	1MHz
Video Bandwidth:	100 Hz for average
Detector:	Peak

Save 2 plots: Average Plot (Vertical and Horizontal), Limit= -41.25 dBm eirp (54dBuV/m @3m)

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands.

The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units.

This report represents the worst case data for all supported operating modes and antennas.

Page No: 322 of 388

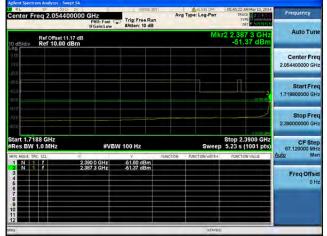
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Tx 3 Bandedge Level (dBm)	Tx 4 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
	CCK, 1 to 11 Mbps	1	6	-51.4				-45.4	-41.25	4.2
	CCK, 1 to 11 Mbps	2	6	-51.4	-61.7			-45.0	-41.25	3.8
	CCK, 1 to 11 Mbps	3	6	-51.4	-61.7	-61.8		-44.7	-41.25	3.4
	CCK, 1 to 11 Mbps	4	6	-51.4	-61.7	-61.8	-61.6	-44.3	-41.25	3.1
	Non HT-20, 6 to 54 Mbps	1	6	-47.8				-41.8	-41.25	0.5
	Non HT-20, 6 to 54 Mbps	2	6	-49.1	-55.5			-42.2	-41.25	1.0
	Non HT-20, 6 to 54 Mbps	3	6	-49.1	-55.5	-56.2		-41.6	-41.25	0.3
	Non HT-20, 6 to 54 Mbps	4	6	-52.8	-57.8	-58.4	-57.0	-43.9	-41.25	2.6
	Non HT-20 Beam Forming, 6 to 54 Mbps	2	9	-52.8	-57.8			-42.6	-41.25	1.4
	Non HT-20 Beam Forming, 6 to 54 Mbps	3	11	-54.5	-59.0	-61.2		-41.7	-41.25	0.5
	Non HT-20 Beam Forming, 6 to 54 Mbps	4	12	-56.4	-61.3	-63.4	-60.9	-41.7	-41.25	0.4
	HT-20, M0 to M7	1	6	-48.1				-42.1	-41.25	0.9
	HT-20, M0 to M7	2	6	-48.1	-55.7			-41.4	-41.25	0.2
	HT-20, M8 to M15	2	6	-48.1	-55.7			-41.4	-41.25	0.2
	HT-20, M0 to M7	3	6	-50.2	-55.6	-55.2		-42.1	-41.25	0.9
2412	HT-20, M8 to M15	3	6	-50.2	-55.6	-55.2		-42.1	-41.25	0.9
7	HT-20, M16 to M23	3	6	-50.2	-55.6	-55.2		-42.1	-41.25	0.9
	HT-20, M0 to M7	4	6	-50.2	-55.6	-55.2	-55.4	-41.4	-41.25	0.1
	HT-20, M8 to M15	4	6	-50.2	-55.6	-55.2	-55.4	-41.4	-41.25	0.1
	HT-20, M16 to M23	4	6	-50.2	-55.6	-55.2	-55.4	-41.4	-41.25	0.1
	HT-20 Beam Forming, M0 to M7	2	9	-51.8	-56.9			-41.6	-41.25	0.4
	HT-20 Beam Forming, M8 to M15	2	6	-48.1	-55.7			-41.4	-41.25	0.2
	HT-20 Beam Forming, M0 to M7	3	11	-55.4	-61.0	-62.7		-43.0	-41.25	1.7
	HT-20 Beam Forming, M8 to M15	3	8	-51.8	-56.9	-58.0		-42.1	-41.25	0.8
	HT-20 Beam Forming, M16 to M23	3	6	-50.2	-55.6	-55.2		-42.1	-41.25	0.9
	HT-20 Beam Forming, M0 to M7	4	12	-57.3	-62.8	-71.1	-63.0	-43.3	-41.25	2.0
	HT-20 Beam Forming, M8 to M15	4	9	-53.5	-59.0	-60.4	-59.2	-42.1	-41.25	0.8
	HT-20 Beam Forming, M16 to M23	4	7	-51.8	-56.9	-58.0	-56.7	-41.9	-41.25	0.6
	HT-20 STBC, M0 to M7	2	6	-48.1	-55.7			-41.4	-41.25	0.2
	HT-20 STBC, M0 to M7	3	6	-50.2	-55.6	-55.2		-42.1	-41.25	0.9
	HT-20 STBC, M0 to M7	4	6	-50.2	-55.6	-55.2	-55.4	-41.4	-41.25	0.1
9t	CCK, 1 to 11 Mbps	1	6	-57.3				-51.3	-41.25	10.1
246 2	CCK, 1 to 11 Mbps	2	6	-57.3	-58.5			-48.8	-41.25	7.6
		Page	• No: 32	3 of 388						

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version.

Cisco Systems, Inc. Company Confidential

CCK, 1 to 11 Mbps	3	6	-57.3	-58.5	-55.0		-45.9	-41.25	4.7
CCK, 1 to 11 Mbps	4	6	-57.3	-58.5	-55.0	-56.3	-44.6	-41.25	3.3
Non HT-20, 6 to 54 Mbps	1	6	-48.5				-42.5	-41.25	1.3
Non HT-20, 6 to 54 Mbps	2	6	-50.1	-50.9			-41.5	-41.25	0.2
Non HT-20, 6 to 54 Mbps	3	6	-54.7	-53.9	-54.8		-43.7	-41.25	2.4
Non HT-20, 6 to 54 Mbps	4	6	-54.7	-53.9	-54.8	-54.6	-42.5	-41.25	1.2
Non HT-20 Beam Forming, 6 to 54 Mbps	2	9	-54.7	-53.9			-42.3	-41.25	1.0
Non HT-20 Beam Forming, 6 to 54 Mbps	3	11	-58.7	-57.6	-58.8		-42.8	-41.25	1.5
Non HT-20 Beam Forming, 6 to 54 Mbps	4	12	-64.5	-60.5	-63.6	-63.3	-44.7	-41.25	3.4
HT-20, M0 to M7	1	6	-48.5				-42.5	-41.25	1.3
HT-20, M0 to M7	2	6	-51.1	-52.3			-42.6	-41.25	1.4
HT-20, M8 to M15	2	6	-51.1	-52.3			-42.6	-41.25	1.4
HT-20, M0 to M7	3	6	-53.0	-53.9	-54.5		-43.0	-41.25	1.7
HT-20, M8 to M15	3	6	-53.0	-53.9	-54.5		-43.0	-41.25	1.7
HT-20, M16 to M23	3	6	-53.0	-53.9	-54.5		-43.0	-41.25	1.7
HT-20, M0 to M7	4	6	-53.0	-53.9	-54.5	-54.4	-41.9	-41.25	0.6
HT-20, M8 to M15	4	6	-53.0	-53.9	-54.5	-54.4	-41.9	-41.25	0.6
HT-20, M16 to M23	4	6	-53.0	-53.9	-54.5	-54.4	-41.9	-41.25	0.6
HT-20 Beam Forming, M0 to M7	2	9	-53.0	-53.9			-41.4	-41.25	0.2
HT-20 Beam Forming, M8 to M15	2	6	-51.1	-52.3			-42.6	-41.25	1.4
HT-20 Beam Forming, M0 to M7	3	11	-56.2	-56.4	-58.3		-41.3	-41.25	0.0
HT-20 Beam Forming, M8 to M15	3	8	-55.1	-55.8	-56.3		-43.1	-41.25	1.9
HT-20 Beam Forming, M16 to M23	3	6	-53.0	-53.9	-54.5		-43.0	-41.25	1.7
HT-20 Beam Forming, M0 to M7	4	12	-60.5	-60.1	-61.4	-60.7	-42.6	-41.25	1.4
HT-20 Beam Forming, M8 to M15	4	9	-56.2	-56.4	-58.3	-57.6	-42.0	-41.25	0.8
HT-20 Beam Forming, M16 to M23	4	7	-55.1	-55.8	-56.3	-56.0	-42.6	-41.25	1.3
HT-20 STBC, M0 to M7	2	6	-51.1	-52.3			-42.6	-41.25	1.4
HT-20 STBC, M0 to M7	3	6	-53.0	-53.9	-54.5		-43.0	-41.25	1.7
HT-20 STBC, M0 to M7	4	6	-53.0	-53.9	-54.5	-54.4	-41.9	-41.25	0.6

Page No: 324 of 388



Conducted Bandedge Average, 2412 MHz, CCK, 1 to 11 Mbps

Antenna A

Page No: 325 of 388

Frequency Auto Tur

Center Fre 2.054400000 GH

Start Fre

Stop Fre

CF St

Freq Offse

67

Conducted Bandedge Average, 2412 MHz, CCK, 1 to 11 Mbps

Center Freq 2.0544		Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	05:45:22 AM May 13, 2014 TRACE 12 4 4 5 TYPE DOT 011 111	Frequency
Ref Offset 1 Ref 10.00	1,17 dB	anden. 10 ub	Mk	r2 2.387 3 GHz -51.37 dBm	Auto Tune
000					Center Fred 2.054400000 GH:
-31.0 -41.0					Start Free 1.718800000 GH
eud mit eus					Stop Free 2.39000000 GH
Start 1.7188 GHz #Res BW 1.0 MHz	#VB	V 100 Hz	Sweep	Stop 2.3900 GHz 5.23 s (1001 pts)	CF Step 67.120000 MH
MKR MODE TRC SCL	2.390 0 GHz	-51.60 dBm	NETION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
2 N 1 f 3 4 5 5 6 7 8 9 10 11	2,387 3 GHz	-51.37 dBm			Freq Offse 0 H:
12			STATUS		

Antenna A

Antenna B

1.7188 GH BW 1.0 M

req 2.054400000 GHz PN0: Fast PN0: Fast Free Run SAtten: 10 dB

> 2.390 0 GHz 2.375 2 GHz

#VBW 100 Hz

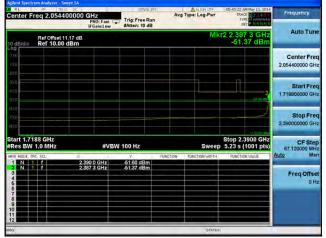
-61.71 dBm -67.19 dBm

Ref Offset 11.17 dB Ref 10.00 dBm Avg Type: Log

Stop 2.3900 GHz Sweep 5.23 s (1001 pts)

Page No: 326 of 388

Conducted Bandedge Average, 2412 MHz, CCK, 1 to 11 Mbps



nter Freq 2			Trig: Free Run	Avg Type: Log-Pwr	05:49:46 AM May 13, 2014 TRACE 12 2 5 6 TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	Frequency
dB/div Ref	Offset 11.17 10.00 dB	dB		Mk	r2 2.375 2 GHz -67.19 dBm	Auto Tune
00 10 10						Center Fred 2.054400000 GH:
10 10 10					_Π	Start Fred 1.718800000 GH:
10 10					61.71	Stop Free 2.390000000 GH
art 1.7188 G tes BW 1.0 I		#VBV	V 100 Hz	Sweep	Stop 2.3900 GHz 5.23 s (1001 pts)	CF Stej 67.120000 MH
Image: Non-state Image: Non-state<		23900 GHz 2375 2 GHz	-61.71 dBm -67.19 dBm	PUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mar Freq Offse 0 Ha
2				STATUS		

cisco

Antenna B

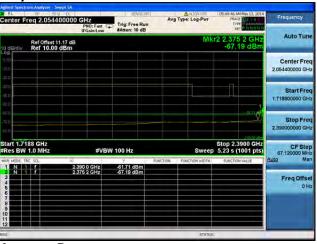
Antenna	Α

er Freq 2.054400		Trig: Free Run #Atten: 10 dB		Log-Pwr	TRAC	M May 13, 2014	Frequency
Ref Offset 11.1	7 dB 3m			Mk	r2 2.375 -67.0	5 9 GHz 08 dBm	Auto Tun
							Center Fre 2.054400000 GH
							Start Fre 1.718800000 GH
							Stop Fre 2.39000000 GH
1.7188 GHz BW 1.0 MHz	#VBW	100 Hz		Sweep	5.23 s (3900 GHz 1001 pts)	CF Ste 67.120000 MH
DDE TRC SCL N 1 F N 1 F	2.390 0 GHz 2.375 9 GHz	-61.84 dBm -67.08 dBm	UNCTION FUN	CTION WIDTH	FUNCTIO	N VALUE	<u>Auto</u> Ma
							Freq Offse 0 H
				STATUS			

Antenna C

Page No: 327 of 388

Frequency 2 0544 Avg Type: PNO: Fast C Auto Tun Ref Offset 11.17 dB Ref 10.00 dBm .387 3 51.37 Center Free 2.054400000 GH Start Fre 1.71 Stop Fre 000000 G es BW 1.0 MH Stop 2.3900 GH Sweep 5.23 s (1001 pts CF Ste 67.120000 MI #VBW 100 Hz -51.60 dBm -51.37 dBm 2.390 0 GHz 2.387 3 GHz Freq Offse



Antenna A

Center Freq 2.054	400000 GHz PN0: Fast 0 IFGainclow	Trig: Free Run #Atten: 10 dB	Ave	ALIGNOM	TRAC	May 13, 2014	Frequency
Ref Offset 0 dB/div Ref 10.00				Mk	r2 2.375 -67,0	9 GHz 98 dBm	Auto Tune
- 09 () () () () () () () () () () () () () (Center Free 2.054400000 GH
33.5 41.0							Start Fre 1.718800000 GH
610 710							Stop Fre 2.39000000 GH
Start 1.7188 GHz #Res BW 1.0 MHz	#VB	W 100 Hz		Sweep	5.23 s (CF Ste 67.120000 MH
MKR MODE TRC SCL.	2.390 0 GHz 2.375 9 GHz	-61.84 dBm -67.08 dBm	PUNCTION	RUNCTION WOTH	FUNCTIO	N WALVE	Auto Ma Freq Offse 0 H
8 9 10 11							

Antenna C



.054400000) GHz	Trig: Free Run #Atten: 10 dB	Avg T	ALION OF	05:59:01 AM May 1 TRACE 1 LYPE DAY LIET P 71	Frequency
Offset 11.17 dB 10.00 dBm				Mk	r2 2.310 1 (-68.06 c	
						Center Freq 2.054400000 GHz
						Start Freq 1.718800000 GHz
					Q.	50 m Stop Freq 2.39000000 GHz
	#VBV	V 100 Hz		Sweep	Stop 2.3900	GHz CF Step pts) 67.120000 MHz
~	.390 0 GHz .310 1 GHz	-61.58 dBm -68.06 dBm	FUNCTION	FUNCTION WOTH .	FUNCTION VALU	E Auto Man
						Freq Offset 0 Hz
	Drifset 11.17 dB 10.00 dBm Hz Hz Hz	IFGainstee Offset (11,17 dB 10.00 dBm H2 H2 H2 #VBV	Priof Fast (w) Priof fast (w) Adden: 10 40 10.00 dBm 10.00 dBm 4.446m 10 40 4.446m 10 40 4.446	Phot Faul Trip: Free Run If Gainstaw Drive 11.17 B 10.00 dB/m Image: Amount of the second seco	0.054400000 GHz Dr01Fac Trig: Free Run Mater: 10 dB Avg Type: Log-Pur Mater: 10 dB 0.000 dBm Mk 10.00 dBm	Op/End/1000000 CH2 Trig: Free Run Matern 10 dB Arg Type: Log-Perr Nucl Type: Log-Perr Other H1117 dB Mix12 2.310 Mix12 2.310 Nix12 2.310 Nix12 2.310 Other H1117 dB 0.00 dBm -68.06 d -68.06 d -68.06 d Hz #VW 100 Hz Stop 2.3900 Stop 2.3900 Stop 2.3900 Liz #VW 100 Hz Mix12 0.3100 Stop 2.3900 Stop 2.3900 2390 0 GHzi +55 66 dBm Mix12 0.4100 Ractore Ractore

Antenna D

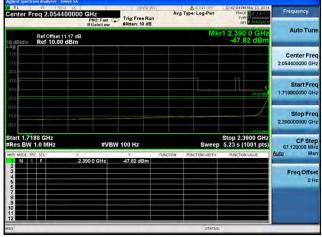
Page No: 328 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Bandedge Average, 2412 MHz, CCK, 1 to 11 Mbps



Conducted Bandedge Average, 2412 MHz, Non HT-20, 6 to 54 Mbps





Page No: 329 of 388

Conducted Bandedge Average, 2412 MHz, Non HT-20, 6 to 54 Mbps



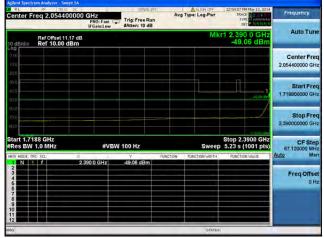
D0000 GHz PNO: Fast C SAtten: 10 dB reg 2.05440 Avg Type: Log-P Frequency Auto Tur Ref Offset 11.17 dB Ref 10.00 dBm Center Fre 2.054400000 GH Start Fre Stop Fre 000000 G art 1.7188 GHz es BW 1.0 MH Stop 2.3900 GHz Sweep 5.23 s (1001 pts) CF Ste #VBW 100 Hz 67.12 -55.50 dBm -68.71 dBm 2.390 0 GHz 2.304 1 GHz Freq Offse

Antenna A

Antenna B

Page No: 330 of 388

Conducted Bandedge Average, 2412 MHz, Non HT-20, 6 to 54 Mbps



	30.9 DC		SEMEE 201	ALICN OFF	01:03:09 PMMay 13, 2014	and the second se
enter Freq 2.	054400000	PNO: Fast	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	TRACE 12 6 10	Frequency
o dB/div Ref	ffset 11.17 dB 10.00 dBm	I GUNGLUM		Mk	r2 2.304 1 GHz -68.71 dBm	Auto Tune
•9 100 nU						Center Freq 2.054400000 GHz
10 10					1	Start Freq 1.718800000 GHz
10 10					2^2	Stop Freq 2.390000000 GHz
tart 1.7188 GH Res BW 1.0 M		#VBW	100 Hz	Sweep	Stop 2.3900 GHz 5.23 s (1001 pts)	CF Step 67.120000 MHz
KR HODE TRC SOL		390 0 GHz 304 1 GHz	-55.50 dBm -68.71 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Man
			50,1150,00			Freq Offset 0 Hz
				STATUS		

Antenna B

	Antenna	Α
--	---------	---

		2.0544	00000	PNO: Fast	Trig: F	ree Run :: 10 dB	Avg	Type: Log-Pv	wr 1	DE PM May 13, 2014 RACE 23, 4 P TYPE DET 2 M (1000)	Frequency
10 dB/div	Re	f 0ffset 1 f 10.00	1.17 dB dBm					P		04 1 GHz 8.15 dBm	Auto Tune
0.00 (0.0) 											Center Fre 2.054400000 GH
anā —											Start Fre 1.718800000 GH
-60-8 -70-0 -60-8									5) ²	Stop Fre 2.39000000 GH
Start 1.	N 1.0	MHz		#VB	N 100 H				ep 5.23	2.3900 GHz s (1001 pts)	CF Ste 67.120000 MH
	IRC SC			0 0 GHz 4 1 GHz	-56 25 -58,15	dBm	UNCTION	FUNCTION WID	TH: FUN	CTION VALUE	Auto Ma
345678910	ار کر ار کر ار کر ار کر ار کر										Freq Offse 0 H
11 12									TUS		-

Antenna C

Page No: 331 of 388

Avg Type: Log-Frequency a 2 0544 PNO: Fast Catten: 0 dB Auto Tun Ref Offset 11.17 dB Ref -10.00 dBm Center Free 2.054400000 GH Start Fre 1.718 Stop Fre 0000000 G CF Ste 67.120000 MH es BW 1.0 MH Stop 2.3900 GH: Sweep 5.23 s (1001 pts #VBW 100 Hz 2.390 0 GHz 2.263 8 GHz -52.82 dBm -70 27 dBm Freq Offse



Antenna A

enter F	req 2.0544000		Trig: Free Run #Atten: 0 dB	Avg Type: Log	-Pwr IR	PM May 13, 2014 ACE 12 4 VPE DUITED TO	Frequency
0 dB/div	Ref Offset 11.17 Ref -10.00 dE				Mkr2 2.26 -68	3 8 GHz .66 dBm	Auto Tun
20.0 au 0 40.0							Center Fre 2.054400000 GH
50.0 50.0 70.0					Q2		Start Fre 1.718800000 GH
90.0 90.0 100						3/000/000	Stop Fre 2.39000000 Gi
tart 1.71 Res BW	1.0 MHz	#VB	N 100 Hz		weep 5.23 s	.3900 GHz (1001 pts)	CF Ste 67.120000 Mi Auto Mi
KR MODE 19		2.390 0 GHz 2.263 8 GHz	-58,42 dBm -68,66 dBm	FUNCTION FUNCTION	WIDTH: FUNCT	ION VALUE	
3456789		2.203 8 GHZ	-08.00 aBm				Freq Offs 01
10 11 12							
0					STATUS		

Antenna C



enter Freq 2.05440000		Trig: Free Run	Avg Type: Log-Pwr	01:43:56 PM May 13, TRACE TO TRACE TO TRACE	Frequency
Ref Offset 11.17 dt 0 dB/div Ref -10.00 dBm			M	(r2 2.263 8 G -68.07 de	
09 MÖ 200					Center Freq 2.054400000 GHz
870 6.0				2	Start Freq 1.718800000 GHz
0					Stop Freq 2.39000000 GHz
tart 1.7188 GHz Res BW 1.0 MHz	#VBW		SWee	Stop 2.3900 G 5.23 s (1001 p	HZ CEStor
2 N 1 F 3 3 4 5 5 7 8 9	2 390 0 GHz 2 263 8 GHz	-57.00 dBm -69.07 dBm			Freq Offsel 0 Hz

Antenna D

Page No: 332 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Bandedge Average, 2412 MHz, Non HT-20, 6 to 54 Mbps

Conducted Bandedge Average, 2412 MHz, Non HT-20 Beam Forming, 6 to 54 Mbps





Antenna A

Antenna B

Page No: 333 of 388

Conducted Bandedge Average, 2412 MHz, Non HT-20 Beam Forming, 6 to 54 Mbps



nter Freq 2.05440000		Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	TRACE 2 2 4 TRACE 2 2 4 TVPE DUT P INNING	Frequency
Ref Offset 11.17 di dB/div Ref -10.00 dBm	в		M	r2 2.263 1 GHz -69.91 dBm	Auto Tune
9 0 0					Center Freq 2.054400000 GHz
0					Start Freq 1.718800000 GHz
0 0				1000	Stop Freq 2.390000000 GHz
art 1.7188 GHz tes BW 1.0 MHz	#VBW	100 Hz	Sweep	Stop 2.3900 GHz 5.23 s (1001 pts)	CF Step 67.120000 MHz
N 1 F	2.390 0 GHz 2.263 1 GHz	-58.97 dBm -69.91 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Man
					Freq Offset 0 Hz
1			STATU	5	

Antenna B

Antenna A

Center F	eq 2.0544000	DOO GHZ PNO: Fast C IFGain:High	Trig: Free Run #Atten: 0 dB		ALIGN OFF	TRAC	E TO LANDAUGUE	Frequency
10 dB/div	Ref Offset 11.17 Ref -10.00 dE	dB Im			MI	r2 2.263 -70.1	1 GHz 5 dBm	Auto Tune
20 0 31 0 40 0								Center Free 2.054400000 GH
60.0 60.0 70.9						2 ²	5110.0	Start Fre 1.718800000 GH
90.0 90.0 100							damari	Stop Fre 2.39000000 GH
Start 1.71 #Res BW	1.0 MHz	#VB	N 100 Hz			5.23 s (1	900 GHz 1001 pts)	CF Ste 67.120000 MH Auto Ma
MKR MODE TF 1 N 1 2 N 1 3 4 5	f	2.390 0 GHz 2.263 1 GHz	-61.18 dBm -70.15 dBm	PUNCTION P	INCTION (MIDTH	FUNCTION	4 WALDE	Freq Offse
6 7 8 9 10 11								
80					STATU	5		

Antenna C

Page No: 334 of 388

Conducted Bandedge Average, 2412 MHz, Non HT-20 Beam Forming, 6 to 54 Mbps







RL Center Fr	eq 2.0544000		Trig: Free Run #Atten: 0 dB	Avg Typ	e: Log-Pwr	TRA	M May 13, 2014 CE 2 4 5 FE 2 4 FE 2 4 5 FE 2 4 FE 2 4 FE 2 4 5 FE 2 4 FE 2 4 FE 2 4 FE 2 4 FE 2 4 FE 2 4 FE 2 5	Frequency
0 dB/div	Ref Offset 11.17 o Ref -10.00 dBr	iB m			MI	(r2 2.26 -71.	3 8 GHz 66 dBm	Auto Tun
20 0 30 0 30 0						<u> </u>		Center Fre 2.054400000 GH
90.65 						\$ ²		Start Fre 1.718800000 GH
en d 20 0							3000 000	Stop Fre 2.39000000 GH
Start 1.71 Res BW		#VB	W 100 Hz		Swee	Stop 2.	3900 GHz 1001 pts)	CF Ste 67.120000 MH
MKR MODE TR	C SOL	2.390 0 GHz 2.263 8 GHz	-63.42 dBm -71.66 dBm	PUNCTION PU	NCTION WIDTH	FUNCTI	IN VALUE	Auto Ma
345678								Freq Offse 0 H
9 10 11 12								

Antenna C



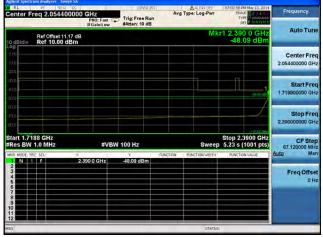
enter Fi	req 2.0544000		Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	02:18:14 FMMay 13, 2014 TRACE 24 TYPE 24 DET P TANGTAT	Frequency
0 dB/div	Ref Offset 11.17 (Ref -10.00 dB)	:B m		Μ	kr2 2.263 8 GHz -70.07 dBm	Auto Tune
n0 n0 n0						Center Freq 2.054400000 GHz
970 61.0 76.0					2 Distant	Start Fred 1.718900000 GH:
100 100						Stop Free 2.39000000 GH
tart 1.71 Res BW	88 GHz 1.0 MHz	#VBV	V 100 Hz	Swee	Stop 2.3900 GHz p 5.23 s (1001 pts)	CF Step 67.120000 MH
	f	2.390 0 GHz	-60,89 dBm	UNCTION FUNCTION WIDTH	E FUNCTION VALUE	Auto Mar
2 N 1 3 4 5 6		2.263 8 GHz	-70.07 dBm			Freq Offse 0 Hz
7 8 9 10						
2			1	STAT		4

Antenna D

Page No: 335 of 388



Conducted Bandedge Average, 2412 MHz, HT-20, M0 to M7

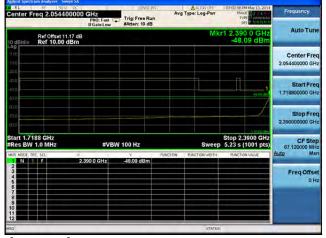


Antenna A

Page No: 336 of 388

ahaha cisco

Conducted Bandedge Average, 2412 MHz, HT-20, M0 to M7



RL	um Analyzer - Sw	001	176:53126	ALISN OF	F 07:06:42 P	MMay 13, 2014	
Center Fr	req 2.05440	00000 GHz PN0: Fast IFGain:Low	Trig: Free Run	Avg Type: Log-Pr	EV4	E 12 24 20	Frequency
0 dB/div	Ref Offset 11 Ref 10.00			1	Vkr2 2.30 -68.	4 1 GHz 91 dBm	Auto Tune
09 000 000							Center Free 2.054400000 GH
150 910 510						-5572 (8)(Start Free 1.718800000 GH
810 110 110					\$ ²		Stop Free 2.390000000 GH
tart 1.71 Res BW		#VE	3W 100 Hz	Swe	Stop 2.3 eep 5.23 s (3900 GHz	CF Step 67.120000 MH
IN 1	1	∞ 2.390 0 GHz	-55.72 dBm	UNCTION FUNCTION WID	TH FUNCTION	IN VALUE	Auto Mar
3 4 5 6	ſ	2.304 1 GHz	-68,91 dBm				Freq Offse 0 H
7 8 9 10 11							
150				57/	ATUS		U

Antenna A

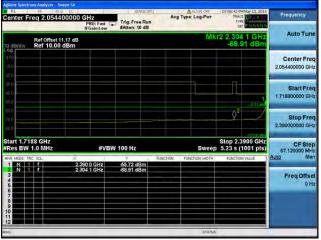
Antenna B

Page No: 337 of 388

Conducted Bandedge Average, 2412 MHz, HT-20, M8 to M15



Antenna A



uluih cisco

Antenna B

Page No: 338 of 388

Conducted Bandedge Average, 2412 MHz, HT-20, M0 to M7



Antenna A

Center Fre	eq 2.054400		Trig: Free Run #Atten: 0 dB	Ave	Type: Log-Pwr	TRAC	MMy 13, 2014	Frequency
	Ref Offset 11.1 Ref -10.00 d				MI	r2 2.262 -68.1	2 5 GHz 85 dBm	Auto Tune
20 0 31 0 40 0								Center Free 2.054400000 GH
60.0 60.0 73.0						¢2	15.0 00	Start Free 1.718800000 GH
91.0 							4500	Stop Fre 2,39000000 GH
Start 1.718 #Res BW 1	.0 MHz	#VB	W 100 Hz			5.23 s (1900 GHz 1001 pts)	CF Ste 67.120000 MH Auto Ma
MKR MODE TRC 1 N 1 2 N 1 3	2	2.390 0 GHz 2.262 5 GHz	-55.23 dBm -68.85 dBm	FUNCTION	PUNCTION WIDTH	FUNCTIO	N WALUE	Auto Ma Freq Offse
4 5 6 7 8 9 10 11								αH

Antenna C

nter Freq 2.0	05440000		Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	D7/38:36 PMMay 13, 201- TRACE 12 2 4 EVPE STUDIO	Frequency
Ref Of dB/div Ref -	fset 11.17 c 10.00 dBr	iB n		М	kr2 2.264 5 GHz -69.95 dBm	
9 0 0						Center Freq 2.054400000 GHz
0					0 ²	Start Freq 1.718800000 GHz
0 0						Stop Freq 2.390000000 GHz
es BW 1.0 M		#VB	W 100 Hz	SWee	Stop 2.3900 GHz p 5.23 s (1001 pts)	CF Step 67.120000 MHz Auto Man
		2,390 0 GHz 2,264 5 GHz	55,62 dBm 69,95 dBm			Freq Offset Q Hz

cisco

Antenna B

Page No: 339 of 388

Conducted Bandedge Average, 2412 MHz, HT-20, M8 to M15



	req 2.05440	DOODO GHZ PNO: Fast C IFGain:High		Avg Type: Log-Pwr	07/38/36 PMMay 13, 2014 TRACE 12 15 15 TVPE 5 PMMay 13, 2014	Frequency
0 dB/div	Ref Offset 11 Ref -10.00	.17 dB dBm		M	(r2 2.264 5 GHz -69.95 dBm	Center Freq 2.054400000 GHz Start Freq 1.718900000 GHz 2.39000000 GHz 2.39000000 GHz CF Step 57.12000 MHz
09 200 200						
50.0 ELD 76.0					\$ ²	
81.0 81.0 .162						
	1.0 MHz	#VBV	V 100 Hz	Swee	Stop 2.3900 GHz 5.23 s (1001 pts)	CF Step 67.120000 MHz Auto Man
3456789910		2.390 0 GHz 2.264 5 GHz	-65.62 dBm -69.96 dBm		TUNCTION VALUE	Freq Offset 0 Hz
8 9 10 11 12				STATU	5.	

Antenna B

Antenna A

q 2.054400	000 GHz	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pw		Frequency
			٨	1kr2 2.262 5 G -68.85 dB	
					Center Fre 2.054400000 GH
				2 2	1 Start Fre 1.718800000 GH
					Stop Fre 2.39000000 GH
0 MHz		W 100 Hz		Stop 2.3900 G ep 5.23 s (1001 p	HZ
f	2.390 0 GHz 2.262 5 GHz	-55 23 dBm -68.85 dBm	FUNCTION FUNCTION WIDT	H. FUNCTION VALUE	FreqOffse
					0+
	q 2.054400	g 2.054400000 GHz PRO, Fax L IFGold High Ref -10.00 dBm 6 GHz 6 GHz 6 GHz 6 GHz 7 2390 0 GHz	g 2.054400000 GHz Priot Fast Trig: Free Run Priot Fast Trig: Free Run Ard Offeet 11.7 d R B B B B Ard Offeet 11.7 d R B	g 2.054400000 GHz Trig: Free Run Broanstan Trig: Free Run PAtson: 0 dB Avg Type: Log-Pw Avg Type: Log-Pw Trig: Free Run Broanstan: 0 dB Trig: Free Run PAtson: 0 dB Avg Type: Log-Pw Avg Type: Log-Pw Free Run Broanstan: 0 dB Trig: Free Run PAtson: 0 dB Trig: Free Run PAtson: 0 dB Avg Type: Log-Pw Avg Type: Log-Pw Free Run PAtson: 0 dB Trig: Free Run PAtson: 0 d	g 2.054400000 GHz PR0:Faint Log Trig: Free Run Axten: 0 dB Avg Type: Leg-Per Type: Leg-Per Type: Leg-Per Trid: Bit Type: Leg-Per PR0:Faint Light Trid: Free Run Axten: 0 dB Mkr2 2.252 5 G -66.85 dE Ard Origet 11 17 dB Mkr2 2.252 5 G -66.85 dE Ref 10.00 dBm GHz GHz Stop 2.3000 G 0 MHz 4VEW 100 Hz Stop 2.3000 GHz 562 dB

Antenna C

Page No: 340 of 388

Conducted Bandedge Average, 2412 MHz, HT-20, M16 to M23



	'eq 2.0544		GHz PNO: Fast C IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type	Log-Pwr	TRA	MMay 13, 2014 CE 12, 4 14 PE 11 N / 77/14	Frequency
0 dB/div	Ref Offset 1 Ref -10.00					MI		4 5 GHz 95 dBm	Auto Tune
nó nó mó									Center Fred 2.054400000 GHz
500 510 760							0 ²	-360.00	Start Fred 1.718200000 GH:
1110 810 160									Stop Fred 2.39000000 GH
tart 1.71 Res BW	1.0 MHz	~	#VB	W 100 Hz	RINCTION DUN	Sweep	5.23 s	3900 GHz (1001 pts)	CF Step 67.120000 MH Auto Mar
1 N 1 2 N 1 3 4 5 6 7 8 9	11	2.3	90 0 GHz 64 5 GHz	-55.62 dBm -69.95 dBm					Freq Offsel 0 Hz
1									

Antenna B

Antenna A

	req 2.0544	00000 GHz PNO: Fast IFGain:High	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	07:42:29 PM Miy 13, 2014 TRACE 2 4 TYPE DOT PNNNNI	Frequency
0 dB/div	Ref Offset 1 Ref -10.00			MI	(r2 2.262 5 GHz -68.85 dBm	
20.0 30.0 40.0						Center Fre 2.054400000 GH
60.6 60.0 70.0					2 2	Start Fre 1.718800000 GH
eu.c er.c .uz					100.000	Stop Fre 2.39000000 GH
Start 1.71 #Res BW	1.0 MHz	#VE	W 100 Hz	Swee	Stop 2.3900 GHz 5.23 s (1001 pts)	
1 N 2 N 3 4 5 6	171	2.390 0 GHz 2.262 5 GHz	-55.23 dBm -69.85 dBm			Freq Offse 0 H
7 8 9 10 11						

Antenna C

Page No: 341 of 388

Conducted Bandedge Average, 2412 MHz, HT-20, M0 to M7







	eq 2.05440		Trig: Free Run #Atten: 0 dB	Avg Tj	ALIONOM pe: Log-Pwr	TRAC	M May 13, 2014	Frequency
0 dB/div	Ref Offset 11. Ref -10.00				Mk	r2 2.262 -68.1	2 5 GHz 85 dBm	Auto Tun
						Π		Center Fre 2.054400000 GH
16 10 10							1 3523 an	Start Fre 1.718800000 GH
ud: 								Stop Fre 2.39000000 GH
tart 1.718 Res BW 1	.0 MHz	#VE	SW 100 Hz			5.23 s (CF Ste 67.120000 MH
KR MODE TRO 1 N 1 2 N 1 3 4 5 5 6 5 7 8 9		2,390 0 GHz 2,262 5 GHz	-55 23 dBm -68.95 dBm	PUNCTION	RUNICTION WIDTH	FUNCTION	N VALUE	Auto Ma Freq Offse 0 H
9					STATUS			_

Antenna C



	eq 2.05440000			Avg Ty	pe: Log-Pwr	TRACE	May 13, 2014	Frequency
dB/div	Ref Offset 11.17 d Ref -10.00 dBn	iB n			MI	(r2 2.264 -68.8	5 GHz 4 dBm	Auto Tune
10 10 10					1	Π		Center Freq 2.054400000 GHz
010 2.0 6.0						Q ²	1	Start Freq 1.718800000 GHz
100								Stop Freq 2.39000000 GHz
art 1.71 Res BW		#VBV	V 100 Hz		Sweep	Stop 2.3 5.23 s (1	900 GHz 001 pts)	2.39000000 GH2 CF Step 67.120000 MH2
R HODE TR	1	2.390 0 GHz 2.264 5 GHz	-55.41 dBm -68.84 dBm	UNCTION	UNCTION WIDTH	FUNCTION	VALUE	<u>Auto</u> Man
345567899001								Freq Offset 0 Hz
2					STATUS	5)		

Antenna D

Page No: 342 of 388

Conducted Bandedge Average, 2412 MHz, HT-20, M8 to M15







Frequency	TRACE 2 4	07	Log-Pwr	Avg	e Run dB	Trig: Fre #Atten: 0	CHZ PNO: Fast Carl		2.05440	ter Fr
Auto Tu	.262 5 GHz -68.85 dBm		MI						ef Offset 11 ef -10.00	3/div
Center Fr 2.054400000 G	Π									
Start Fr 1.718800000 G	1 35:23 am	Q^2							\wedge	
Stop Fr 2.39000000 G										
CF Ste 67.120000 M	p 2.3900 GHz 3 s (1001 pts)	p 5.	Swee			100 Hz	#VBW		MHz	t 1.718 s BW 1
Auto M Freq Offs	UNCTION VALUE		ICTION WIDTH	INCTION	Bm Bm	v -55.23 di -68.85 di	90 0 GHz 52 5 GHz	2.3 2.2	f	MODE TRO
		5	STATU						-	

Antenna C



	q 2.0544000		Trig: Free Run #Atten: 0 dB	Avg	ALION OF	TRAC	AMay 13, 2014	Frequency
	tef Offset 11.17 tef -10.00 dB				MI	-68.1	5 GHz 34 dBm	Auto Tune
ný ný ný								Center Freq 2.054400000 GHz
070 2.0 6.0						\$ ²	15.01	Start Freq 1.718800000 GHz
= 10 (c 0 (ciz								Stop Freq 2.39000000 GHz
tart 1.7188 Res BW 1.		#VBV	V 100 Hz		Sweet	Stop 2.3 5.23 s (900 GHz 1001 pts)	CF Step 67.120000 MHz
A MODE THE	f l	x 2.390 0 GHz	-55,41 dBm	UNCTION	FUNCTION WIDTH	FUNCTIO	N VALUE	Auto Man
2 N 1 3 4 5 6	, 	2.264 5 GHz	-68,84 dBm					Freq Offset 0 Hz
2								

Antenna D

Page No: 343 of 388

Conducted Bandedge Average, 2412 MHz, HT-20, M16 to M23







Frequency	29 PM May 13, 2014 TRACE 24 F TYPE DOT P N IN TOTAL	07:	.og-Pwr			ree Run	Trig: Fr	ast 😱	GHz PNO: Fas	00000			L Iter
Auto Tu	262 5 GHz 88.85 dBm		Mk							11.17 dB 0 dBm	ef Offset ef -10.0	R	B/div
Center Fr 2.054400000 G													
Start Fr 1.718800000 G	1 5520 am	\Diamond^2									\sim		
Stop Fr 2.390000000 G	100.000												
CF St 67.120000 M Auto M	2.3900 GHz s (1001 pts)	5.2				z	100 Hz	#VBW	#\		MHz		s BV
FregOffs	NCTION VALUE		ON WOTH	FUN	FUNCT		-55.23 c -68.85 c		390 0 GHz 262 5 GHz			TRC SI	N N N
0													
-	_		STATUS	-	_	_			_	_		-	_

Antenna C



	eq 2.05440000			Avg Ty	pe: Log-Pwr	TRACE	May 13, 2014	Frequency
dB/div	Ref Offset 11.17 d Ref -10.00 dBn	iB n			MI	(r2 2.264 -68.8	5 GHz 4 dBm	Auto Tune
10 10 10					1	Π		Center Freq 2.054400000 GHz
010 2.0 6.0						Q ²	1	Start Freq 1.718800000 GHz
100								Stop Freq 2.39000000 GHz
art 1.71 Res BW		#VBV	V 100 Hz		Sweep	Stop 2.3 5.23 s (1	900 GHz 001 pts)	CF Step 67.120000 MHz
R HODE TR	1	2.390 0 GHz 2.264 5 GHz	-55.41 dBm -68.84 dBm	UNCTION	UNCTION WIDTH	FUNCTION	VALUE	<u>Auto</u> Man
345567899001								Freq Offset 0 Hz
2					STATUS	5)		

Antenna D

Page No: 344 of 388

Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M0 to M7



Avg Type: Log-Pu Frequency eg 2 05440 000 GHz Trig: Free Run Auto Tur Ref Offset 11.17 dB Ref -10.00 dBm Center Fre 2.054400000 GI Start Fre Stop Fre 0000000 GI Stop 2.3900 GHz Sweep 5.23 s (1001 pts) art 1.7188 GHz es BW 1.0 MH CF Ste #VBW 100 Hz 67.12 -56.91 dBn -70.62 dBn 2.390 0 GHz 2.264 5 GHz Freq Offse

Antenna A

Antenna B

Page No: 345 of 388

diada cisco

ntër Freq 2.054400000 GHz PND: Fast Carolina Free Run gradina Lew Atten: 10 dB Avg Type: Log-Pv Frequency Auto Tur Ref Offset 11.17 dB Ref 10.00 dBm 2.390 0 G -48.09 dE Center Fre 2.054400000 GH Start Fre 1.7188 Stop Fre 2.39 Start 1.7188 GHz #Res BW 1.0 MHz Stop 2.3900 GH: Sweep 5.23 s (1001 pts CF Ste 67.120000 M #VBW 100 Hz Freq Offse OH



Antenna A

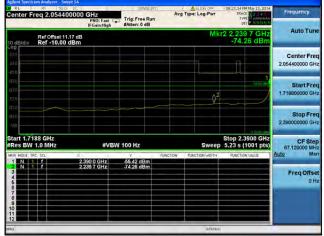
Antenna B

Page No: 346 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M8 to M15

Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M0 to M7



RL MF 300 00	0114	SSMEE.2NT	Avg Type: Log-Pwr	08:24:59 PMMay 13, 2014 TRACE 14	Frequency
inter Freq 2.054400000	PNO: Fast C	Trig: Free Run #Atten: 0 dB	ang tipe, cogit at	DET P INNAN I	
Ref Offset 11.17 dB dB/div Ref -10.00 dBm			M	r2 2.264 5 GHz -73.67 dBm	Auto Tune
9					Center Free 2.054400000 GH
ά φ					Start Free 1.718800000 GH:
0				1000	Stop Free 2.390000000 GH;
art 1.7188 GHz tes BW 1.0 MHz	#VBW	100 Hz	Sweep	Stop 2.3900 GHz 5.23 s (1001 pts)	CF Step 67.120000 MH
R HODE TRC SOL X	390 0 GHz	-60.99 dBm	INCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
N 1 f 2:	264 5 GHz	-73.67 dBm			Freq Offse 0 H:

A

Antenna A

RL enter F		00000 GHz PN0: Fast IFGain:High	Trig: Free Run #Atten: 0 dB	Avg	Type: Log-Pwr	08:28:48 PM My 13, 20 TRACE 1 2 4 TYPE DET 2 14	Frequency
0 dB/div	Ref Offset 1 Ref -10.00	dBm			Mk	r2 2.320 2 GH -71.55 dB	Z Auto Tuni
200 337 400							Center Fre 2.054400000 GH
50.8 60.9 70.9						2 *****	Start Fre
90.0 90.0 100							Stop Fre 2.39000000 GH
tart 1.71 Res BW	1.0 MHz	#VB	W 100 Hz		Sweep	Stop 2.3900 GF 5.23 s (1001 pt	z CF Ste s) 67.120000 MH
4KR MODE TF 1 N 1 2 N 1 3 4 5	17	2.390 0 GHz 2.320 2 GHz	-62.67 dBm -71.55 dBm	FUNCTION	FUNCTION WIDTH :	FUNCTION VALUE	Auto Ma Freq Offs 0 H
7 8 9 10 11							

Antenna C

Page No: 347 of 388

Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M8 to M15



enter Freq 2.054400000		Avg Type: Log-Pwr	07:54:02 PMMay 13, 2014 TRACE 24 LYPE DUMANT	Frequency
Ref Offset 11.17 dB		Mk	r2 2.264 5 GHz -70.62 dBm	Auto Tune
				Center Freq 2.054400000 GHz
0.0				Start Freq 1.718800000 GHz
				Stop Fred 2.39000000 GH
tart 1.7188 GHz Res BW 1.0 MHz	#VBW 100 Hz	Sweep		CF Step 67.120000 MHs Auto Mar
1 N 1 F 2 2 N 1 F 2 3 4 5	.390 0 GHz .56.91 dBm 264 5 GHz .70.62 dBm			Freq Offsel 0 Hz

Antenna B

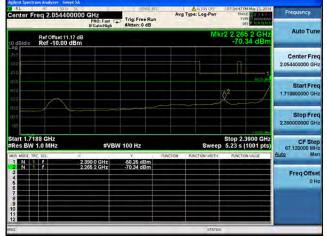
Antenna A	١
-----------	---

1.17 dB 0 dBm			Mkr2 2.2 -7(64 5 GHz 0,31 dBm	Auto Turk Center Free 2.054400000 GH Start Free 1.719800000 GH Stop Free
			2°.		2.054400000 GH Start Free 1.718800000 GH Stop Free
			²		1.718800000 GH Stop Fre
					2.39000000 GH
#VB	W 100 Hz	UNCTION FUNCTION	weep 5.23 s	2.3900 GHz 5 (1001 pts) TION WALKE	CF Ste 67.120000 MH Auto Ma
2.390 0 GHz 2.264 5 GHz	-57.98 dBm -70.31 dBm		WOTH FOR		Freq Offse
	2,264 5 GHz	2.264 5 GHz -70.31 dBm	22845 GHz70.31 dBm	22546 GHz -7031 dBm	22646 GHz -7031 dBm

Antenna C

Page No: 348 of 388

Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M16 to M23



Ref Offset 11.17 dB Mkr2 2.264 5 GHz Auto T 10 dBidiry Ref -10.00 dBm -69.95 dBm 2.954 30000 40 dBidiry Ref -10.00 dBm -69.95 dBm 2.954 30000 40 dBidiry Ref -10.00 dBm -69.95 dBm 2.954 30000 40 dBidiry Ref -10.00 dBm -69.95 dBm 2.954 30000 40 dBidiry Ref -10.00 dBm -69.95 dBm 2.954 30000 40 dBidiry Ref -10.00 dBm -69.95 dBm 2.954 30000 40 dBidiry Ref -10.00 dBm -69.95 dBm 2.954 30000 40 dBidiry Ref -10.00 dBm -69.95 dBm 2.950 2.3900 GHz 2.3900000000 51 dBidiry RVEW 100 Hz Sweep 5.23 5 (100 Mps) 51 (100 Mps) 61 (100 Mps) RR es BW 1.0 MHz SW est p 5.23 5 (100 Mps) Ref (100 Mps) 61 (100 Mps)	Center Fre	q 2.054400		Trig: Free Run	Avg Type: Log-Pwr	07/38/36 PMMay 13 TRACE 12 TVPE STUDIES	Frequency
Center F 200 201	10 dB/div		7 dB	Printer P 40	M		
Start F 32 33 No 2 33 No 2 33 No 2 34 No 3 3 No 1 1 No	mė mė						Center Fred 2,054400000 GH:
Stop F 2.39000000 Hart 1.7188 CHz Stop F Res BW 1.0 MHz #VBW 100 Hz Sweep 5.23 s (1001 µc) 67120000 An MOE TR: Std. %	6.0					\$ ²	Start Fred 1.718800000 GH:
tant 17/188 CHz Stop 2.3900 CHz Stop 2.3900 CHz CF 8 Res BW 1.0 MHz #VBW 100 Hz Sweep 5.23 s (1001 pts) 67/12000 Max Moter Inc SoL 00 Y Fraction Austein-White Austein-White Austein-White	ŝtó						Stop Free 2.390000000 GH:
	Res BW 1	.0 MHz	#VB			Stop 2.3900 (p 5.23 s (1001	GHz CF Step pts) 67.120000 MH
2 N 1 f 2264 5 GHz 69.95 dBm Freq Off	1 N 1 2 N 1 3 4 5 6 7 8 9	1	2,390 0 GHz 2,264 5 GHz	-55.62 dBm		FUNCTION VALUE	Freq Offse 0 Hz

Antenna B

	eq 2.05440		Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	107:42:29 PM May 13, 2014 TRACE 1 2 1 4 5 TYPE 2 14 5 DET P N N 17 211	Frequency
0 dB/div	Ref Offset 11.1 Ref -10.00 c	17 dB IBm		M	r2 2.262 5 GHz -68.85 dBm	Auto Tune
20.0 20.0 20.0						Center Fred 2.054400000 GH:
50.6. 50.6 70.9					2	Start Free 1.718800000 GH
81.0 87.0 108						Stop Free 2.39000000 GH
Res BW	1.0 MHz	#VB	W 100 Hz	Swee	Stop 2.3900 GHz p 5.23 s (1001 pts)	CF Ster 67.120000 MH Auto Mar
1 N 1 2 N 1 3 4 5 6	1	2.390 0 GHz 2.262 5 GHz	-55.23 dBm -68.85 dBm			Freq Offse 0 H
7 8 9 10 11						
50				STATU	s	-

Antenna C

Page No: 349 of 388

Avg Type: Log-F Frequency 20544 PNO: Fast Trig: Free Run Atten: 0 dB Auto Tun Ref Offset 11.17 dB Ref -10.00 dBm .240 3 0 74.29 d Center Free 2.054400000 GH Start Fre 1.718 Stop Fre 0000000 Gi art 1.7188 GHz es BW 1.0 MH Stop 2.3900 GH Sweep 5.23 s (1001 pts CF Ste 67.120000 MI #VBW 100 Hz -57 28 dBm -74.29 dBm 2.390 0 GHz 2.240 3 GHz Freq Offse





		0544000	000 GHz PNO: Fas IFGain:Hit	P	Trig: Free R #Atten: 0 dB			Log-Pwr	TRA	PM May 13, 2014	Frequency
0 dB/div	Ref 0 Ref -	fset 11.17 10.00 dE	dB Bm					Mk		4 1 GHz 12 dBm	Auto Tun
20.0 30.0 40.0											Center Fre 2.054400000 GH
60.6 60.0 70.0									Ŷ	2 341035	Start Fre 1.718800000 GH
end end red										100.000	Stop Fre 2.39000000 GH
Start 1.7 Res BV	V 1.0 M		#\	/BW	100 Hz	PUNCTIO		Sweep	5.23 s	.3900 GHz (1001 pts)	CF Ste 67.120000 MH Auto Mi
1 N			2.390 0 GHz 2.304 1 GHz		-64.62 dBm -71.12 dBm		19 1919		POINCI	IN THE DE	FreqOffs
56789101112											01
12 so				_			-	STATUS	-		-

Antenna C



enter Fr	eq 2.0544000		Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	08:49:29 PMMay 13, 2014 TRACE 2 2 5 TYPE 2 7 10 10 10 10 10 10 10 10 10 10 10 10 10	Frequency
0 dB/div	Auto Tune					
n0 20.0						Center Freq 2.054400000 GHz
8070 68 0 76 0					\$ ²	Start Freq 1.718800000 GHz
100						Stop Freq 2.39000000 GHz
tart 1.71 Res BW		#VB	N 100 Hz	Sweep	Stop 2.3900 GHz 5.23 s (1001 pts)	CF Step 67.120000 MHz
	11	× 2.390 0 GHz	-62.96 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Man
2 N 1 3 4 5 6 7		2.304 1 GHz	-73,13 dBm			Freq Offset 0 Hz
8 9 9 10 10 11 12						
sa				STATU	5)	-

Antenna D

Page No: 350 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M0 to M7

Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M8 to M15







	req 2.0544		Trig: Free Run	Ave	Type: Log-Pwr	08:13:37 PM Miy 13, 2014 TRACE 1 2 4 TYPE 000000000000000000000000000000000000	Frequency
0 dB/div	Ref Offset 11 Ref -10.00				MI	r2 2.320 2 GHz -71.28 dBm	Auto Tune
20.0 30.0 40.0							Center Fre 2.054400000 GH
50.0 50.0 70.0						2000	Start Fre 1.718800000 GH
n d kt o tek						31/000	Stop Fre 2.39000000 Gi-
tart 1.71 Res BW	88 GHz 1.0 MHz	#VB	W 100 Hz		Sweep	Stop 2.3900 GHz 5.23 s (1001 pts)	CF Ste 67.120000 MH
KR MODE 1	RC SCL:	2.390 0 GHz 2.320 2 GHz	-60.42 dBm -71.28 dBm	PUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
3456							Freq Offse 0 H
7 8 9 10 11							
90				_	STATU		-

Antenna C



enter Freq 2.05440		Trig: Free Run	Avg Type: Log-Pwr	09:17:25 PMMay 13, 2014 TRACE 12 4 TVPE DET P TANGTON	Frequency	
Ref Offset 11. dB/div Ref -10.00 c	17 dB IBm		Mk	r2 2.265 8 GHz -71.04 dBm	Auto Tune	
09 no no 60					Center Freq 2.054400000 GHz	
				2 ² 1000	Start Freq 1.718800000 GHz	
10 10 10					Stop Free 2.390000000 GH:	
tart 1.7188 GHz Res BW 1.0 MHz	#VB	W 100 Hz	Sweep	Stop 2.3900 GHz 5.23 s (1001 pts)	07.120000 Hitta	
KR MODE TRC SCL 1. N 1 F 2. N 1 F 3. 4.	2.390 0 GHz 2.265 8 GHz	-59.24 dBm -71.04 dBm	UNCTION SUNCTION WIDTH :	FUNCTION VALUE	Auto Man Freq Offset	
5 6 7 8 9 0					0 H2	

Antenna D

Page No: 351 of 388

Conducted Bandedge Average, 2412 MHz, HT-20 Beam Forming, M16 to M23





Antenna A

enter F	req 2.054400		Trig: Free Run #Atten: 0 dB	Ave	Type: Log-Pwr	07:57:51 PM My 13, 20 TRACE 1 2 4 TYPE DOT 2 71110	Frequency
0 dB/div	Ref Offset 11.1 Ref -10.00 d	7 dB Bm			MI	kr2 2.264 5 GH -70.31 dBr	
20.0 30.0						n	Center Fre 2.054400000 GH
50.8 50.0 7.0 0						2 ²	Start Fre 1.718B00000 GH
80.0 30.0 100							Stop Fre 2.390000000 GH
tart 1.71 Res BW	88 GHz 1.0 MHz	#VB	W 100 Hz		Swee	Stop 2.3900 GH p 5.23 s (1001 pt	67.120000 M
1 N	1	2,390 0 GHz 2,264 5 GHz	-57.98 dBm -70.31 dBm	PUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto M
34567							Freq Offs 01
8 9 10 11							
90				_	STATU	5	

Antenna C

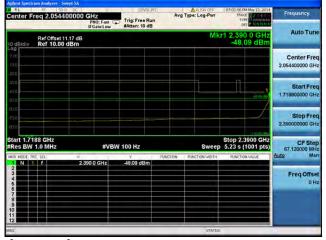


enter Freq 2.	054400000	PNO: Fast C	Trig: Free Run	Avg Type: Lo		TRACE TANK TO A CONTRACT OF THE CONTRACT.	Frequency	
	fset 11.17 dB 10.00 dBm				Mkr2 2	.264 5 GHz 69.58 dBm	Auto Tune	
ni no 60				1		П	Center Fred 2.054400000 GH:	
80 60					Q ²	-1967.00	Start Fred 1.718900000 GH:	
							Stop Free 2.390000000 GH	
tart 1.7188 GH Res BW 1.0 MI		#VBV	V 100 Hz		Sweep 5.2	p 2.3900 GHz 3 s (1001 pts)	CF Step 67.120000 MH	
IN 1 F N 1 F N 1 F	22	390 0 GHz 264 5 GHz	-56.67 dBm -69.58 dBm	UNCTION FUNCTIO	N WIDTH . F	UNCTION VALUE	Auto Man Freq Offset	
5678900							011	

Antenna D

Page No: 352 of 388

Conducted Bandedge Average, 2412 MHz, HT-20 STBC, M0 to M7



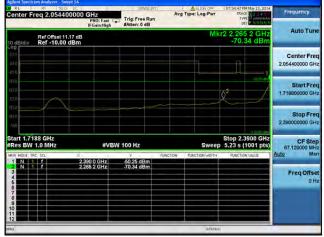
RL	Um Analyzer - Swept S		35/623		ALION OFF	07:06:42 P	4May 13, 2014		
enter Fi	req 2.0544000	PNO: Fast C	Trig: Free Ru	Avi	Type: Log-Pwr	TVP		Frequency	
0 dB/div	Ref Offset 11.17 Ref 10.00 dBn	dB n					Mkr2 2.304 1 GHz -68.91 dBm		
0g 000 E0								Center Fre 2.054400000 GH	
40.0) 40.0) St.0						Π	1	Start Fre 1.718900000 GH	
600) 700 658						\$ ²		Stop Fre 2.390000000 GH	
Start 1.71 #Res BW	1.0 MHz	#VBV	V 100 Hz		Sweep	Stop 2.3 5.23 s (900 GHz 1001 pts)	CF Ste 67.120000 MH	
NKR HODE TR		2.390 0 GHz	-55.72 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION	N VALUE	Auto Ma	
2 N 1	1	2.304 1 GHz	-68.91 dBm					Freq Offse 0 H	
7 8 9 10 11									
12 sa	1 A.	-			STATUS		_		

Antenna A

Antenna B

Page No: 353 of 388

Conducted Bandedge Average, 2412 MHz, HT-20 STBC, M0 to M7



Frequency	07:38:36 PMMay 13, 2014 TRACE 12 2 4 10 LVPE	Type: Log-Pwr	Av	Trig: Free Run	GHZ PNO: Fast	400000		Fre	nter
Auto Tune	r2 2.264 5 GHz -69.95 dBm	Mk		satten. v ub	Il-Gain:Righ	11.17 dB 0 dBm	ef Offset 1 ef -10.00	v: F	JB/di
Center Fred 2.054400000 GH:									
Start Free 1.718800000 GH:	\$ ²								ņ ņ
Stop Free 2.390000000 GH	4000								ġ ġ
CF Step 67.120000 MH	Stop 2.3900 GHz	Sweep		100 Hz	#VBW		GHz MHz		
Auto Mar	FUNCTION VALUE	FUNCTION WIDTH	FUNCTION	-55.62 dBm -69.95 dBm	90 0 GHz 64 5 GHz	× 2.3 2.2		1RC	N N
Freq Offse 0 H:									
	£	STATUS							

Antenna B

Antenna	Α

RL Center Fr	eq 2.05440		Trig: Free Run #Atten: 0 dB	Avs	Type: Log-Pwr	TRAC	M May 13, 2014	Frequency
0 dB/div	Ref Offset 11 Ref -10.00	.17 dB dBm			MI	r2 2.26 -68.	25 GHz 85 dBm	Auto Tune
100 317 400						1		Center Fre 2.054400000 GH
ns						2 ²		Start Fre 1.718800000 GH
318 310 100								Stop Fre 2.39000000 GH
tart 1.71 Res BW	1.0 MHz	#VB	W 100 Hz			p 5.23 s (CF Ste 67.120000 MH Auto Ma
IN 1 N 1 N 1 3 4	f	2.390 0 GHz 2.262 5 GHz	-55.23 dBm -68.85 dBm	FUNCTION	FUNCTION WIDTH	FUNCTIO	N VALUE	Freq Offse
5 6 7 8 9 10								U.
12					STATU			

Antenna C

Page No: 354 of 388

Conducted Bandedge Average, 2412 MHz, HT-20 STBC, M0 to M7







	eq 2.0544		Trig: Free Run #Atten: 0 dB	Ave	Type: Log-Pwr	TRA	PM May 13, 2014	Frequency
0 dB/div	Ref Offset 11 Ref -10.00				M		2 5 GHz 85 dBm	Auto Tun
20 0 30 0 40 0						n		Center Fre 2.054400000 GH
10 10 10							3523 and	Start Fre 1.718800000 GH
81.0 81.0 108							antime	Stop Fre 2.39000000 GH
Start 1.71 Res BW	1.0 MHz	#VB	W 100 Hz			p 5.23 s	3900 GHz (1001 pts)	CF Ste 67.120000 MH
AKR MODE TR	C SCL. F	2,390 0 GHz 2,262 5 GHz	-55 23 dBm -68 85 dBm	PUNCTION	FUNCTION WIDTH	FUNCTI	ON VALUE	Auto Ma
345678910 11								Freq Offse 0 H
2				_	STATU	5		

Antenna C



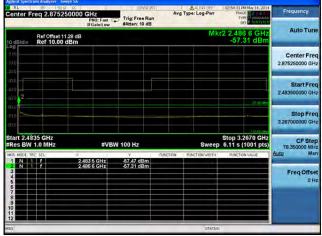
AL 300 00 nter Freq 2.05440000		Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	07:45:21 PMMay 13, 2014 TRACE 2 6 6 TVPE 1000000000000000000000000000000000000	Fraquency
Ref Offset 11.17 d B/div Ref -10.00 dBn	B n		Auto Tune		
					Center Freq 2.054400000 GHz
				&2 2	Start Freq 1.718900000 GHz
					Stop Free 2.39000000 GH
art 1.7188 GHz es BW 1.0 MHz	#VBW			Stop 2.3900 GHz 5.23 s (1001 pts)	CF Step 67.120000 MHs Auto Mar
HODE, TAC SOL O	2,390 0 GHz 2 264 5 GHz	-55.41 dBm -69.84 dBm	INCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz

Antenna D

Page No: 355 of 388



Conducted Bandedge Average, 2462 MHz, CCK, 1 to 11 Mbps



Antenna A

Page No: 356 of 388

Conducted Bandedge Average, 2462 MHz, CCK, 1 to 11 Mbps



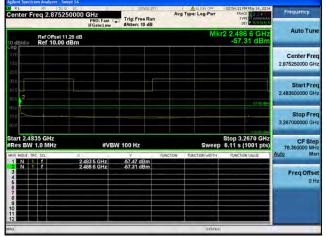
enter Freq 2.8752500		Trig: Free Run #Atten: 10 dB	Avs	ADDION Type: Log-Pwr	C25951 PMMay 14, 2014 TRACE 12 4 TYPE DUT P TANKING	Frequency		
Ref Offset 11.28 dB Mkr2 2.486 6 GHz 0 dB/d/w Ref 10.00 dBm -58.46 dBm								
						Center Free 2.875250000 GH		
00 2		ſ				Start Fre 2.483500000 GH		
ου ο ό υσ					. (523 d2m	Stop Fre 3.267000000 GH		
tart 2.4835 GHz Res BW 1.0 MHz		V 100 Hz			Stop 3.2670 GHz 6.11 s (1001 pts)	CF Ste 78,350000 MH Auto Ma		
GR HOLE THE SOL	2,483 5 GHz 2,486 6 GHz	-59.29 dBm -59.46 dBm	PUNCTION	FUNCTION WIDTH .	FUNCTION VALUE	Freq Offse 0 H		

Antenna A

Antenna B

Page No: 357 of 388

Conducted Bandedge Average, 2462 MHz, CCK, 1 to 11 Mbps



RL		250000 GHz	38	NEE-290	Avg Type	ALICH OFF		MMMy 14, 2014	Frequency
enter r	eq 2.6752	PNO: Fa	st 😱 Trig:Fre #Atten: 1	e Run 0 dB			EV	PE PERMIT	
dB/div	Ref Offset 1 Ref 10.00					Mk		6 6 GHz 46 dBm	Auto Tune
09 00 00									Center Free 2.875250000 GH
20. 2									Start Free 2,483500000 GH
10 10								-55 20 etm	Stop Free 3.267000000 GH:
tart 2.48 Res BW	35 GHz 1.0 MHz	#	VBW 100 Hz			Sweep		2670 GHz (1001 pts)	CF Step 78.350000 MH
KR MODE TH	171	2.483 5 GH	-59.29 d	3m	NCTION FUN	CTION WIDTH	FUNCTI	ON VALUE	Auto Mar
345678990112									Freq Offse 0 H
2						STATUS	5	-	

cisco

Antenna B

|--|

Cente			525000		st 😱	Trig: Free #Atten: 10			e: Log-Pwr	TRA	PM May 14, 2014 CE 12, 44 PE 244 Det Ph. (c) (c) (c)	Frequency
10 dB/d	liv	Ref Offse Ref 10.0	t 11.28 de 00 dBm	8					MI	r2 3.19 -68	9 6 GHz 88 dBm	Auto Tune
0.00 0.00 0.00 -70.0												Center Free 2.875250000 GH
30.6 40.9 60.9												Start Fre 2.483500000 GH
-70 0 -70 0 -80.9											\$ ²	Stop Fre 3.267000000 GH
	BW 1.	0 MHz			VBW	100 Hz				6.11 s	2670 GHz (1001 pts)	CF Ste 78:350000 MH Auto Ma
		f		2.483 5 GH; 3.199 6 GH;		4 -54,98 dB -68,88 dB	m	NCTION PL	INCTION WIDTH	FUNCTI	ON VALUE	Freq Offse
8 9 10 11 12												
50	-	_	_				_		STATUS	1	_	

Antenna C

Page No: 358 of 388

eq 2.875250000 GHz PNO: Fast Colord any Atten: 10 dB Avg Type: Log-F Frequency Auto Tun Ref Offset 11.28 dB Ref 10.00 dBm .486 6 57.31 Center Free 2.875250000 G Start Fre 2.4835 Stop Fre 3.267000000 GH t 2.4835 GHz s BW 1.0 MH Stop 3.2670 GH: Sweep 6.11 s (1001 pts CF Ste 78.350000 M #VBW 100 Hz -57.47 dBm -57.31 dBm 2.483 5 GHz 2.486 6 GHz Freq Offse





Center I	Freq 2.	375250000	PNO: Fast	Trig: Free Ri	Avg	ALIGN OFF	03:03:59 PM May 14, 2014 TRACE 2 4 TYPE 2 4 DET P 10:001	Frequency
0 dB/div		fset 11.28 dB 0.00 dBm				MI	r2 3.199 6 GHz -68.88 dBm	
0.00 10.00 20.00 20.00								Center Fre 2.875250000 GH
30.6 40.9 50.6								Start Fre 2.483500000 GH
eu c rario eu e							\$ ²	Stop Fre 3.267000000 GH
Res BV	835 GH V 1.0 MH		#VB	W 100 Hz			Stop 3.2670 GHz 6.11 s (1001 pts)	
	IRC SEL		483 5 GHz 199 6 GHz	-54.98 dBm -68.88 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	ALLO MA
34567	د قلد ک بر وید ک بر وی ک د وی ک							Freq Offs 01
8 9 10 11 12								
50						STATUS	5	

Antenna C



enter Freq 2.875250000		Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	03-08-39 PMMay 14, 2014 TRACE TVPE DET P INNOTCH	Frequency
Ref Offset 11.28 dE			Mk	r2 2.486 6 GHz -56.53 dBm	Auto Tune
50 100 100					Center Free 2.875250000 GH:
20 1				40.20 cD	Start Free 2.483500000 GH
10					Stop Free 3.267000000 GH
tart 2.4835 GHz Res BW 1.0 MHz	#VBW	100 Hz	Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Step 78.350000 MH
	483 5 GHz	-56.26 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
2 N 1 F 2 3 4 5 5	.486 6 GHz	-56.53 dBm			Freq Offse 0 H
7 0 8 9 0 1					
2 1 1 1 1 1 1 1			STATU		-

Antenna D

Page No: 359 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Bandedge Average, 2462 MHz, CCK, 1 to 11 Mbps



Conducted Bandedge Average, 2462 MHz, Non HT-20, 6 to 54 Mbps





Page No: 360 of 388

Conducted Bandedge Average, 2462 MHz, Non HT-20, 6 to 54 Mbps



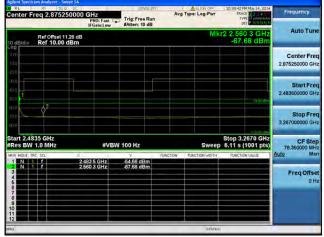
Trig 2.875250000 GHz PN0; Fast Atten: 10 dB Avg Type: Log-Pa Frequency Auto Tur Ref Offset 11.28 dB Ref 10.00 dBm Center Fre 2.875250000 GI Start Fre 2.483 Stop Fre 3.267000000 GH 1 2.4835 GHz s BW 1.0 MH Stop 3.2670 GHz Sweep 6.11 s (1001 pts) CF Ste #VBW 100 Hz 78.3 -50.88 dBn -67.84 dBn 2,483 5 GHz 2,560 3 GHz Freq Offse

Antenna A

Antenna B

Page No: 361 of 388

Conducted Bandedge Average, 2462 MHz, Non HT-20, 6 to 54 Mbps



RL		RF.	000	DC I				102200		ADDN OFF	10:43:51	MMW 14, 2014	Contract of the local division of the local
enter	Fre	q 2.8	37525	0000	PN	0: Fast C	Trig: Fre	e Run	Avg	Type: Log-Pwr	D		Frequency
dB/di	v:	Ref Of Ref 1	fset 11. 0.00 d	28 dB IBm						MI		0 3 GHz 90 dBm	Auto Tune
													Center Freq 2.875250000 GHz
												-3117 00-1	Start Freq 2.483500000 GHz
10		\$ ²										100.0	Stop Freq 3.267000000 GHz
		5 GH				#VB	W 100 Hz			Sweep		2670 GHz (1001 pts)	CF Step 78.350000 MHz
R MODE		1		2.	483 5 560 3	GHz GHz	-53.87 c -67.90 c	Bm	NCTION	FUNCTION WIDTH	FUNCTI	ON VALUE	<u>Auto</u> Man
													Freq Offset 0 Hz
	-				-				-	STATU		-	-

Antenna B

Antenna A

Center Fre	aq 2.875250		Trig: Free Run #Atten: 10 dB	Avg	Type: Log-Pwr	10:47:48 PM May 14, 2014 TRACE 1 2 3 4 TYPE DET 2 NORMAL	Frequency
0 dB/div	Ref Offset 11.28 Ref 10.00 dB	i dB m			Mk	r2 2.560 3 GHz -68.97 dBm	Auto Tune
0 c0 (0.0) 20.0							Center Fre 2.875250000 GH
n.0 410 410						akde	Start Fre 2.483500000 GH
81.8 70.0 81.8	\$ ²					4700	Stop Fre 3.267000000 GH
tart 2.483 Res BW 1	.0 MHz	#VB	N 100 Hz		Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Ste 78:350000 MH
IN I	1	2.483 5 GHz 2.560 3 GHz	-54.82 dBm -68.97 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
3456789	14 Januar 19 Jan						Freq Offse 0 H
10 11 12							

Antenna C

Page No: 362 of 388

eq 2.875250000 GHz PNO: Fast Atten: 10 dB Avg Type: Log-Frequency Auto Tun Ref Offset 11.28 dB Ref 10.00 dBm .560 3 0 -67,68 d Center Free 2.875250000 G Start Fre 2.4835 Stop Fre 3.267000000 GH t 2.4835 GHz s BW 1.0 MH Stop 3.2670 GH: Sweep 6.11 s (1001 pts CF St. 78.350000 M #VBW 100 Hz -54,66 dBm -67,68 dBm 2.483 5 GHz 2.560 3 GHz Freq Offse





	eq 2.875	250000 GHz PNO: Fast IFGain:Low	Trig: Free Ru #Atten: 10 dB	Avg	Type: Log-Pwr	10:47:48 PM May 14, 2014 TRACE 1 2 4 TYPE 0 DOT P N 010110	Frequency
0 dB/div	Ref Offset	11.28 dB) dBm			Mk	r2 2.560 3 GHz -68,97 dBm	Auto Tune
09 000 000							Center Free 2.875250000 GH
						lika	Start Free 2.483500000 GH
ud uo	2						Stop Fre 3.267000000 GH
tart 2.48 Res BW		#V	BW 100 Hz		Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Ster 78.350000 MH
KR MODE TR	171	2.483 5 GHz 2.560 3 GHz	-54.82 dBm -68.97 dBm	PUNCTION	FUNCTION WIDTH	FUNCTION WALVE	Auto Ma
3 4 5 6 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							Freq Offse 0H
10				_	STATUS		

Antenna C



enter F	reg 2.875	250000	GHz	SEVER SIT	Avs	Type: Log-Pwr	10:52:40 PMAMay 14, 201 TRACE 0	Frequency
			PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 10 dB			DET P WARM	14
dB/div	Ref Offset Ref 10.0	11.28 dB 0 dBm				Mk	2 2.560 3 GH: -68.90 dBn	
								Center Free 2.875250000 GH
							-1410-40	Start Fre 2.483500000 GH
	\$ ²							Stop Fre 3.267000000 GH
tart 2.48 Res BW	35 GHz 1.0 MHz		#VB	W 100 Hz		Sweep	Stop 3.2670 GH 6.11 s (1001 pts	CF Step 78,350000 MH
KR HODE TH			483 5 GHz	-54.60 dBm	FUNCTION	FUNCTION WIDTH .	FUNCTION VALUE	Auto Ma
2 N 1 3 4 5 6		2	560 3 GHz	-68.90 dBm				Freq Offse 0 H
7								

Antenna D

Page No: 363 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Bandedge Average, 2462 MHz, Non HT-20, 6 to 54 Mbps

Conducted Bandedge Average, 2462 MHz, Non HT-20 Beam Forming, 6 to 54 Mbps



Avg Type: Log-Pw Frequency reg 2.87525 PNO: Fast C Trig: Free Run Atten: 10 dB Auto Tur Ref Offset 11.28 dB Ref 10.00 dBm Center Fre 2.875250000 GI Start Fre 2.483 Stop Fre 3.267000000 GH t 2.4835 GHz s BW 1.0 MH Stop 3.2670 GHz Sweep 6.11 s (1001 pts) CF Ste #VBW 100 Hz 78.3 -53.87 dBn -67.90 dBn 2.483 5 GHz 2.560 3 GHz Freq Offse

Antenna A

Antenna B

Page No: 364 of 388

Conducted Bandedge Average, 2462 MHz, Non HT-20 Beam Forming, 6 to 54 Mbps





Antenna A

		#Atten: 10 dB	n		DET P N GERIL	
of Offset 11.28 de of 10.00 dBm				MI	r2 3.199 6 GHz -69.08 dBm	Auto Tune
						Center Freq 2.875250000 GHz
						Start Freq 2.483500000 GHz
					Q2 ^{2410.44}	Stop Freq 3.267000000 GHz
MHz	#VBI	W 100 Hz		Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Step 78.350000 MHz
	2.483 5 GHz	-59.92 dBm -69.08 dBm	PUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Man Freq Offset
						0 Hz
		MHz #VB\ 2,483 5 GHz	MHz #VBW 100 Hz	MHz #VBW 100 Hz	MHz #VBW 100 Hz Sweep 2 X Y Punction Punction with the system 2.483 5 GHz -59 82 dBml Filler Filler	CHz Stop 3.2670 GHz MHz #VBW 100 Hz Sweep 6.11 s (1001 pts) 2:493 5 GHz ≤ 5682 dBm Raction Raction Raction with

Antenna C

Antenna B

Page No: 365 of 388

Conducted Bandedge Average, 2462 MHz, Non HT-20 Beam Forming, 6 to 54 Mbps







enter Fr	req 2.8752	1 X X X X X X X X X X X X X X X X X X X	PNO: Fast C	Trig: Free Ru #Atten: 0 dB	Ave	Type: Log-Pwr	11:54:46 PM May 14, 2014 TRACE 12 14 1 TYPE 12 14 1 DET 9 74 14 11	Frequency
0 dB/div	Ref Offset 1 Ref -10.0	1.28 dB 0 dBm				MI	r2 2.560 3 GHz -71.00 dBm	Auto Tun
								Center Fre 2.875250000 GH
	¢ ²						\$373 cBn	Start Fre 2.483500000 GH
0.0 100								Stop Fre 3.267000000 GH
tart 2.48 Res BW			#VB	N 100 Hz		Sweep	Stop 3.2670 GHz 5.11 s (1001 pts)	CF Ste 78.350000 MH
	C SCL		3 5 GHz 0 3 GHz	-63.58 dBm -71.00 dBm	PUNCTION	FUNCTION WIDTH	RUNCTION VALUE	Auto Mi
3 4 5 6								Freq Offse
7 8 9 9 10 11 12								
10			_		_	STATUS	5	

Antenna C



		250000 GH		Trig: Free Run #Atten: 0 dB	Avg	Type: Log-Pwr	11:50:36 PMMay 14 TRACE TYPE DET P TI	Frequency
dB/div	Ref Offset Ref -10.0					Mk	2 2.560 3 G -71.52 d	
								Center Freq 2.875250000 GHz
							-633	Start Freq 2.483500000 GHz
11.1) 17.0) 16.0)								Stop Fred 3.267000000 GH
tart 2.48 Res BW	35 GHz 1.0 MHz		#VBW	100 Hz		Sweep	Stop 3.2670 6.11 s (1001	GHz CF Step pts) 78,350000 MHz
KR MODE TH	NC SOL	∞ 2.483 5	GHz	-63.28 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Man
2 N 1	r I	2.560 3	GHz	-71.52 dBm				Freq Offset 0 Hz
7 8 9 0								
2								

Antenna D

Page No: 366 of 388



Conducted Bandedge Average, 2462 MHz, HT-20, M0 to M7





Page No: 367 of 388

Conducted Bandedge Average, 2462 MHz, HT-20, M0 to M7



PRO 2.875250000 GHz PN0; Fast Fig: Free Run Atten: 10 dB Avg Type: Log-P Frequency Auto Tur Ref Offset 11.28 dB Ref 10.00 dBm Center Fre 2.875250000 GI Start Fre 2.483 Stop Fre 3.267000000 GH t 2.4835 GHz s BW 1.0 MH Stop 3.2670 GHz Sweep 6.11 s (1001 pts) CF Ste #VBW 100 Hz 78.3 -52 26 dBn -67.82 dBn 2,483 5 GHz 2,560 3 GHz Freq Offse

Antenna A

Antenna B

Page No: 368 of 388

Conducted Bandedge Average, 2462 MHz, HT-20, M8 to M15



svertillen Alleyre er Freq 2.875250000 GHz. PRIO: Freq C. Trig: Free Run Riccalcit ov Atten: 10 dB Avg Type: Log-Pwr Frequency Auto Tu Ref Offset 11.28 dB Ref 10.00 dBm 2.560 3 C -67 82 d Center Fre 2.875250000 GH Start Fr 2,4835000 Stop Fre 3.267000000 G Start 2.4835 GHz #Res BW 1.0 MH Stop 3.2670 GHz Sweep 6.11 s (1001 pts) CF Ste #VBW 100 Hz 78.35 M 2.483 5 GHz 2.560 3 GHz -52 26 dBn -67.82 dBn Freq Offse QH

uluih cisco

Antenna B



Page No: 369 of 388

Conducted Bandedge Average, 2462 MHz, HT-20, M0 to M7



Antenna A

	req 2.87	5250000 GH	Z IO: Fast C, ain:Low	Trig: Free F #Atten: 10 c	tun		Ligvor	TRA	M May 15, 2014	Frequency
10 dB/div		et 11.28 dB 00 dBm					Mk		04 GHz 87 dBm	Auto Tune
0 c0 (0.9)										Center Free 2.875250000 GH
20.6 40.0 40.0									46.56	Start Fre 2.483500000 GH
60.8 70 0 60.9									\$ ²	Stop Fre 3.267000000 GH
Start 2.4 #Res BW	335 GHz 1.0 MHz		#VB	N 100 Hz			Sweep	Stop 3.: 6.11 s (2670 GHz 1001 pts)	CF Ste 78.350000 MH
	RC SEL	2.483 5 3.200 4	GHz	-54.48 dBn -68.87 dBn		ION FUN	CTION WIDTH	FUNCTIO	IN VALUE	Auto Ma
3456789		3,2004		46,67 UDI						Freq Offse 0 H
10 11 12										

Antenna C

enter Fr		250000 GHz	Fast 😱	Trig: Free R	Avg	Type: Log-Pwr	DS:17:52 AM May TRACE T LYPE DET		Frequency
dB/div	Ref Offset 1 Ref 10.00	1.28 dB	ILL UW			Mk	r2 2.560 3 -67.98		Auto Tune
									Center Free 2.875250000 GH
									Start Free 2.483500000 GH
10	\$ ²		_						Stop Free 3.267000000 GH
art 2.483 tes BW 1			#VBW	100 Hz		Sweep	Stop 3.267 6.11 s (100	1 pts)	CF Step 78.350000 MH
N 1 N 1	1	2,483 5 2,560 3		-53.90 dBm -67.98 dBm	FUNCTION	FUNCTION WID TH	FUNCTION VAL	UE	Auto Mar
									Freq Offse 0 H
						STATUS			

ululu cisco

Antenna B

Page No: 370 of 388

Conducted Bandedge Average, 2462 MHz, HT-20, M8 to M15



	req 2.8752	250000 GHz PNO: Far IFGain:Lo	t 🕞 Trig: Free R	Avg	Type: Log-Pwr	05:17:52 AM May 15 TRACE TO TRACE	Frequency
0 dB/div	Ref Offset 1 Ref 10.00	1.28 dB dBm			MI	r2 2.560 3 G -67.98 d	
09 00 10 10							Center Fred 2.875250000 GH:
80 20 20 1							Start Fred 2.483500000 GH:
	\$ ²					-190	Stop Free 3.267000000 GH:
tart 2.48 Res BW	35 GHz 1.0 MHz	#	VBW 100 Hz		Sweep	Stop 3.2670 0	Hz CF Step 78,350000 MH
KR HODE TH	f	2,483 5 GHz 2,560 3 GHz		FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
3 4 5 6 7 8 9 0 1 2							Freq Offse 0 H
10	-	_	-		STATU	8)	

Antenna B

Antenna A

Center Freq 2.875250		Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	05:21:45 AM May 15, 2014 TRACE 1 2 4 TYPE 0 Det P N roteut	Frequency
Ref Offset 112 Ref 10.00 dl			Mk	r2 3.200 4 GHz -68.87 dBm	Auto Tune
-09 00)					Center Free 2.875250000 GH
ສາລັ ພາຈ ຢາຈ					Start Free 2.483500000 GH
end me eng				⊘ ²	Stop Fre 3.267000000 GH
Start 2.4835 GHz #Res BW 1.0 MHz	#VBW	/ 100 Hz	Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Ste 78.350000 MH Auto Ma
1 N 1 f 2 N 1 f 3 4 5 5 6 7 7 8 9 9	2.483 5 GHz 3.200 4 GHz	-54,48 dBm -68,87 dBm			Freq Offse 0 H
11					1

Antenna C

Page No: 371 of 388

Conducted Bandedge Average, 2462 MHz, HT-20, M16 to M23



	PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	TRACE 12 4 4 10 TYPE MULTINE DET P TANATA IN	Frequency
Ref Offset 11.28 Ref 10.00 dB			Mk	r2 2.560 3 GHz -67.98 dBm	Auto Tune
					Center Fred 2.875250000 GH:
					Start Fred 2.483500000 GH:
¢ ²					Stop Free 3.267000000 GH
	#VB	W 100 Hz	Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Step 78,350000 MH
£	2,483 5 GHz 2,560 3 GHz	Y FU -53,90 dBm -67,98 dBm	NCTION FUNCTION WIDTH :	FUNCTION VALUE	Auto Mar Freq Offset
					ŰH.
		6 GHz #VB 0 MHz #VB 50 0 7 2493 5 GHz	0 GHz 0 MHz #VBW 100 Hz 0 MHz ± 2463 5 GHz 5390 dBm		

Antenna A

enter Freq 2.8752		Trig: Free Run	Avg Type: Log-Pwr	05:21:45 AM May 15, 2014 TRACE 2 4 TYPE 0 DOT P 10 10 10 10	Frequency
B/div Ref 10.00			Mk	r2 3.200 4 GHz -68.87 dBm	Auto Tune
9 0 0					Center Fred 2.875250000 GHz
8 0 1					Start Free 2.483500000 GH:
10				²	Stop Fred 3.267000000 GH:
art 2.4835 GHz les BW 1.0 MHz	#VE	3W 100 Hz		Stop 3.2670 GHz 6.11 s (1001 pts)	CF Step 78.350000 MH
	2,483 5 GHz 3,200 4 GHz	-54.48 dBm -68.87 dBm	PUNCTION WIDTH -	RINCTION WALKE	Auto Mar Freq Offsel 0 Ha

Antenna C

Antenna B

Page No: 372 of 388

Conducted Bandedge Average, 2462 MHz, HT-20, M0 to M7







	req 2.875	250000 GHz PNO: Fast IF Gaincley	Trig: Free Ru	Avg T	ype: Log-Pwr	05:21:45 AM May 15, 2014 TRACE 1 2 4 F TYPE 0 1010111	Frequency
0 dB/div	Ref Offset Ref 10.0				Mk	r2 3.200 4 GHz -68.87 dBm	Auto Tune
0g 0 au 10 à							Center Fre 2.875250000 GH
31.5 41.0 51.0							Start Fre 2.483500000 GH
60.0 70.0 80.0						Q ²	Stop Fre 3.267000000 GH
Start 2.48 Res BW	1.0 MHz	#V	BW 100 Hz			Stop 3.2670 GHz 6.11 s (1001 pts)	CF Ste 78.350000 MH Auto Ma
1 N 2 N	111	2.483 5 GHz 3,200 4 GHz	-54.48 dBm -68.87 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	
3 4 5 6 7 8 9 10 11							Freq Offse 0+
90	-				STATUS		

Antenna C



enter F		250000 GHz PNO: Fas IFGain:Lo	Trig: Free Run Marten: 10 dB	Avs	Type: Log-Pwr		Frequency
0 dB/div	Ref Offset Ref 10.0				Mk	12 2.560 3 0 -69.00 d	
0g 0.00 0.00							Center Freq 2.875250000 GHz
100 1						51	Start Freq 2.483500000 GHz
	⊘ ²						Stop Freq 3.267000000 GHz
tart 2.48 Res BW	35 GHz 1.0 MHz	#1	VBW 100 Hz		Sweep	Stop 3.2670 6.11 s (1001	GHZ CE Ston
		∞ 2.483 5 GHz		FUNCTION	FUNCTION WIDTH .	FUNCTION VALUE	Auto Man
3 4 5 6 7 8		2.560 3 GHz	-69.00 dBm				Freq Offsel 0 Hz
1							

Antenna D

Page No: 373 of 388

Conducted Bandedge Average, 2462 MHz, HT-20, M8 to M15







enter F	req 2.8752	Contraction of the local distance of the loc	PNO: Fast C	Trig: Free F	Run		Log-Pwr	TYPE	May 15, 2014	Frequency
) dB/div	Ref Offset	11.28 dB 0 dBm					Mk	r2 3.200 -68.8	4 GHz 7 dBm	Auto Tun
09 (a) (19)										Center Fre 2.875250000 GH
nă ă 0 1									500.00	Start Fre 2.483500000 GH
0.0 0.0									¢ ²	Stop Fre 3.267000000 GH
	1.0 MHz		#VB	N 100 Hz				Stop 3.20 6.11 s (1	001 pts)	CF Ste 78.350000 Mil
	ic, scl. T		3 5 GHz 0 4 GHz	-54.48 dBr -68.87 dBr	n	VETION FUI	CTION WIDTH	FUNCTION	VALUE	FreqOffs
4567789900122										at
0							STATUS		_	

Antenna C



RL		20 Q		SEH6E3		ALICN OF		M May 15; 2014	Frequency
enter F	req 2.875	250000	PNO: Fast C IFGain:Low	Trig: Free Ru		g Type: Log-Pwr	TVE	E PANONA	
dB/div	Ref Offset Ref 10.0	11.28 dB 0 dBm				Mk		0 3 GHz 00 dBm	Auto Tune
									Center Free 2.875250000 GH
								54.27 (1946	Start Free 2.483500000 GH
	²								Stop Free 3.267000000 GH
tart 2.48 Res BW	35 GHz 1.0 MHz		#VB	W 100 Hz		Sweep	Stop 3.2 6.11 s (2670 GHz 1001 pts)	CF Step 78,350000 MH
KRI MODE, TR			83 5 GHz	-54.37 dBm	FUNCTION	FUNCTION WIDTH .	FUNCTION	N VALUE	Auto Mar
2 N 1 3 4 5 6	r	2.5	60 3 GHz	-69.00 dBm					Freq Offse 0 Hz
7 8 9 0 1									

Antenna D

Page No: 374 of 388

Conducted Bandedge Average, 2462 MHz, HT-20, M16 to M23







enter F	req 2.875	250000	GHz PNO: Fast	Trig: Free F	tun		Log-Pwr		May 15, 2014	Frequency
0 dB/div	Ref Offset Ref 10.0	11.28 dB 0 dBm					Mk	r2 3.200 -68.8	4 GHz 7 dBm	Auto Tun
0 (0) (0.0) (0.0)										Center Fre 2.875250000 GH
20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										Start Fre 2.483500000 GH
									2	Stop Fre 3.267000000 GP
	1.0 MHz		#VB	W 100 Hz				Stop 3.26 6.11 s (1)	001 pts)	CF Ste 78.350000 Mi
2 N 1	RC SCL		83 5 GHz 00 4 GHz	-54.48 dBn -68.87 dBn	nl	ICTION FUN	CTION WIDTH:	FUNCTION	VALUE	-
34567										Freq Offs 01
8										
10							STATUS		_	

Antenna C



		250000 GHz PN0: Fast IFGain:Low		Avg Type: Log-Pwr	05:25:39 AM May 15, 2014 TRACE TOPE	Frequency
dB/div	Ref Offset Ref 10.00	11.28 dB 0 dBm		Mk	r2 2.560 3 GHz -69.00 dBm	Auto Tune
						Center Fred 2.875250000 GH:
iq 10 10					31.17 (16)	Start Free 2.483500000 GH
						Stop Free 3.267000000 GH
tart 2.48 Res BW	35 GHz 1.0 MHz	#VB	W 100 Hz	Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Step 78,350000 MH
KR MODE TR	171	2,483 5 GHz	-54,37 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
2 N 1 3 4 5 6		2,560 3 GHz	-69.00 dBm			Freq Offse 0 Ha
7 8 9 0 1						
a				STATUS	5)	-

Antenna D

Page No: 375 of 388

Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M0 to M7



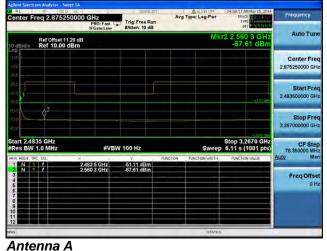
Avg Type: Log-P Frequency a 2.87525 000 GHz Trig: Free Run Auto Tur Ref Offset 11.28 dB Ref 10.00 dBm Center Fre 2.875250000 GI Start Fre 2.483 Stop Fre 3.267000000 GH t 2.4835 GHz s BW 1.0 MH Stop 3.2670 GHz Sweep 6.11 s (1001 pts) CF Ste #VBW 100 Hz 78.3 -53.90 dBn -67.98 dBn 2.483 5 GHz 2.560 3 GHz Freq Offse

Antenna A

Antenna B

Page No: 376 of 388

Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M8 to M15

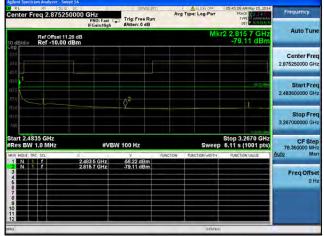


Svertine Allery Col. (1990) Col. 1990 Col. (1990) Col. 1990; Fast. (1991) 1990; Fas Avg Type: Log-Pwr Frequency Auto Tu Ref Offset 11.28 dB Ref 10.00 dBm 2.560 3 0 -67 82 d Center Fre 2.875250000 GH Start Fr 2,4835000 Stop Fre 3.267000000 G Start 2.4835 GHz #Res BW 1.0 MH Stop 3.2670 GHz Sweep 6.11 s (1001 pts) CF Ste #VBW 100 Hz 78.35 M 2.483 5 GHz 2.560 3 GHz -52 26 dBn -67.82 dBn Freq Offse QH

Antenna B

Page No: 377 of 388

Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M0 to M7



enter Freg 2.875	250000 GHz	SEMEE 2NT	Avg Type: Log-Pwr	05:49:00 AM May 15, 2014 TRACE D 2014	Frequency
	PNO: Fast G	Trig: Free Run #Atten: 0 dB		DET P TANKARA	
Ref Offset dB/div Ref -10.0	11.28 dB 00 dBm		Mk	r2 2.560 3 GHz -69.56 dBm	Auto Tune
					Center Fred 2.875250000 GH:
				-55.20 (81)	Start Free 2,483500000 GH
0 0 0					Stop Free 3.267000000 GH
art 2.4835 GHz es BW 1.0 MHz	#VBW	100 Hz	Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Step 78,350000 MH
N 1 C	∞ 2.483 5 GHz	-56.38 dBm	ICTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
	2.560 3 GHz	-69.56 dBm			Freq Offse 0 H
			STATUS		

Antenna B

Antenna A

	req 2.87	5250000 GHz PNO: Fa IFGain:Hi		Trig: Free Ru Atten: 0 dB	Avs	Type: Log-Pwr	TRAC	M May 15, 2014	Frequency
0 dB/div	Ref Offse Ref -10.	11.28 dB 00 dBm				MI) 3 GHz 29 dBm	Auto Tune
200 300 400									Center Free 2.875250000 GH
64.6 1 61.9 73.9	¢ ²							254	Start Fre 2.483500000 GH
91.0 91.0 100								4200	Stop Fre 3.267000000 GH
	1.0 MHz	#	VBW 1	00 Hz			6.11 s (2670 GHz 1001 pts)	CF Ste 78.350000 MH
1 N 2 N 3 4		2,483 5 GH; 2,560 3 GH;		58.25 dBm 71.29 dBm	PUNCTION	PUNCTION WIDTH	FUNCTIO	N VALUE	Auto Ma Freq Offse
6 7 8 9 10									
12			_			STATU			

Antenna C

Page No: 378 of 388

Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M8 to M15



Center Fi	req 2.8752	250000 GHz PNO: Fast	Trig: Free Run	Avg Type: Log-Pwr	05:33:27 AM May 15, 2014 TRACE 24 24 25 TYPE 2014	Frequency
0 dB/div	Ref Offset	11.28 dB		Mk	r2 2.560 3 GHz -67.86 dBm	Auto Tune
09 00 0.0 0.0						Center Freq 2.875250000 GHz
0.0 0.0 0.0						Start Freq 2.483500000 GHz
10:0 76:0 10:0	\$ ²				1000	Stop Freq 3.267000000 GHz
tart 2.48 Res BW	35 GHz 1.0 MHz	#VE	W 100 Hz	Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Step 78,350000 MH
IN 1		2,483 5 GHz 2,560 3 GHz	-55.82 dBm -67.86 dBm	INCTION FUNCTION WIDTH :	FUNCTION VALUE	<u>Auto</u> Man
3 4 5 6 7 8 9 9						Freq Offset 0 Hz
a				STATUS		

Antenna B

Antenna /	4
-----------	---

Center Freq 2.8752	50000 GHz PN0: Fast C IFGain:Low	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	05:37:22 AM May 15, 2014 TRACE 1 2 4 TYPE DUMANAN	Frequency
Ref Offset 1 0 dB/div Ref 10.00	1.28 dB dBm		Mk	r2 2.560 3 GHz -68.87 dBm	Auto Tune
-09 00). 000					Center Fred 2.875250000 GH:
ສາສັ ພາຈ 1					Start Free 2.483500000 GH
					Stop Fre 3.267000000 GH
Start 2.4835 GHz #Res BW 1.0 MHz		V 100 Hz		Stop 3.2670 GHz 6.11 s (1001 pts)	CF Ster 78.350000 MH Auto Mar
MICR MODE TRC SCL.	2,483 5 GHz 2,550 3 GHz	-56.31 dBm -69.97 dBm	PUNCTION WOTH:	PUNCTION WALVE	Freq Offse 0 H
9 10 11					

Antenna C

Page No: 379 of 388

Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M16 to M23



RL	MF 50.2 1	001	35162391	ALICN OFF	05:17:52 AM May 15, 2014	Frequency
enter Fi	req 2.875250	PNO: Fast C	Trig: Free Run	Avg Type: Log-Pwr	TRACE	Frequency
0 dB/div	Ref Offset 11.28 Ref 10.00 dB	dB		Mk	r2 2.560 3 GHz -67.98 dBm	Auto Tune
						Center Fred 2.875250000 GH:
50 1 50						Start Fred 2.483500000 GH:
0.0 0.0	\$ ²				1000	Stop Free 3.267000000 GH:
tart 2.48 Res BW	35 GHz 1.0 MHz	#VBW	/ 100 Hz	Sweep	Stop 3.2670 GHz	CF Step 78.350000 MH
ANDE TR		2.483 5 GHz 2.560 3 GHz	7 PU -53.90 dBm -67 98 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
		2,000 3 GH2	-07 30 UDIN			Freq Offsel 0 Hz
9						

Antenna A

enter Freq 2.87525000		Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	05:21:45 AM May 15, 2014 TRACE 1 2 4 F TYPE 0 DET P N 1010111	Frequency
Ref Offset 11.28 di 0 dB/div Ref 10.00 dBm	3		Mk	r2 3.200 4 GHz -68.87 dBm	Auto Tune
000 (m) (1.10) (1.10)					Center Fre 2.875250000 GH
ສາຍ ແບ່ ແບ່					Start Fre 2.483500000 GH
110 700 117				⊘ ²	Stop Fre 3.267000000 Gi-
tart 2.4835 GHz Res BW 1.0 MHz	#VBW	/ 100 Hz	Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Ste 78.350000 MH
2 N 1 7	2.483 5 GHz 3.200 4 GHz	-54,48 dBm -68,87 dBm	INCTION FUNCTION WEATH	FUNCTION VALUE	Auto Ma
3 4 4 6 6 6 7 7 8 9 9 0 0 1 1 2 2					Freq Offse 0 H

Antenna C

Antenna B

Page No: 380 of 388

eq 2.875250000 GHz PN0: Fast Trig: Free Run Ficulation Atten: 0 dB Avg Type: Lon-Frequency Auto Tun Ref Offset 11.28 dB Ref -10.00 dBm Center Free 2.875250000 G Start Fre 2.483 Stop Fre 3.267000000 GH t 2.4835 GHz s BW 1.0 MH Stop 3.2670 GH: Sweep 6.11 s (1001 pts CF Ste 78,350000 MH #VBW 100 Hz -60.53 dBm -79.20 dBm 2.483 5 GHz 2.816 5 GHz Freq Offsel



Antenna A

enter F	req 2.87525		Trig: Free Run sAtten: 0 dB	Avg Type: Log-Pwr	06:08:23 AM May 15, 2014 TRACE 1 2 4 TVPE 2 MARKAN DET P N 101/111	Frequency
0 dB/div	Ref Offset 11 Ref -10.00			MI	r2 2.560 3 GHz -71.11 dBm	Auto Tune
20.0						Center Free 2.875250000 GH
60 0 70 0	¢ ²				413.5	Start Fre 2.483500000 GH
90.0 1000						Stop Fre 3.267000000 GH
start 2.48 Res BW		#VI	3W 100 Hz	Swee	Stop 3.2670 GHz 5.11 s (1001 pts)	CF Ste 78.350000 MH
1 N		2.483 5 GHz 2.560 3 GHz	-61.36 dBm -71.11 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
		2,560 3 GHZ	-/1.11 dBm			Freq Offse
3 4 5 6 7 8 9						

Antenna C



RL		30 - QC	-	3438	ESWT(ALICN OFF		M May 15, 2014	Frequency
enter F	req 2.875	250000	PNO: Fast C IFGain:High	Trig: Free I		Avg Ty	pe: Log-Pwr	TRAC TV9 E8		
dB/div	Ref Offset Ref -10.0						Mk) 3 GHz 91 dBm	Auto Tune
										Center Fred 2.875250000 GH:
	\$ ²								-0.71.659	Start Free 2.483500000 GH:
10) 10 60										Stop Free 3.267000000 GH
tart 2.48 Res BW	35 GHz 1.0 MHz		#VB	W 100 Hz			Sweep		670 GHz 1001 pts)	CF Step 78,350000 MH
I N		×	83 5 GHz 60 3 GHz	-60.73 dBr -71.91 dBr	m	NCTION	UNCTION WIDTH .	FUNCTIO	N VALUE	Auto Mar
										Freq Offse 0 H
2										

Antenna D

Page No: 381 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M0 to M7

eq 2.875250000 GHz PNO: Fast Trig: Free Run Atten: 0 dB Avg Type: Log-Frequency Auto Tun Ref Offset 11.28 dB Ref -10.00 dBm .815 7 79.11 Center Free 2.875250000 G Start Fre 2.483 Stop Fre 3.267000000 GH t 2.4835 GHz s BW 1.0 MH Stop 3.2670 GH: Sweep 6.11 s (1001 pts CF Ste 78,350000 MH #VBW 100 Hz -56.22 dBm -79.11 dBm 2.483 5 GHz 2.815 7 GHz Freq Offset



Antenna A

Frequency	05:52:54 AM May 15, 2014 TRACE 1 2 4 4 TYPE 1 000000000 DCT P 700000000	ALIGNOM Type: Log-Pwr	A	Trig: Free Run #Atten: 0 dB	SHZ PNO: Fast 😱 IFGain:High	250000 0	eq 2.875	
Auto Tu	r2 2.560 3 GHz -71.29 dBm	Mki				11.28 dB 0 dBm	Ref Offset Ref -10.0	dB/div
Center Fr 2.875250000 G				[
Start Fr 2.483500000 G	(SLI) db1							
Stop Fr 3.267000000 G								10 10
CF Str 78,350000 M Auto M		Sweep		100 Hz	#VBW		.0 MHz	art 2.48 tes BW
FreqOffs	FUNCTION VALUE	FUNCTION WIDTH:	FUNCTION	-58.25 dBm -71.29 dBm	33 5 GHz 50 3 GHz	2.40 2.50	1	N N N
		STATUS						1

Antenna C



enter Freq 2.875	250000 GHz PN0: Fast (IFGain:Nigh	Trig: Free Run #Atten: 0 dB	Avg Type: Log-Pwr	05:56:46 AM May 15, 2014 TRACE 1 2 4 5 0 TYPE 20 4 5 0 Get P 74 North N	Frequency
Ref Offset	11.28 dB 00 dBm		Mk	r2 2.560 3 GHz -71.72 dBm	Auto Tune
					Center Freq 2.875250000 GHz
				57 K2 aller	Start Fred 2.483500000 GH:
					Stop Free 3.267000000 GH
art 2.4835 GHz Res BW 1.0 MHz	#VB	W 100 Hz	Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Step 78,350000 MH
	∞ 2.483 5.GHz 2.560 3.GHz	-57.62 dBm -71,72 dBm	FUNCTION FUNCTION (HOTH)	FUNCTION VALUE	<u>Auto</u> Mar Freq Offse 0 Ha

Antenna D

Page No: 382 of 388

This document is uncontrolled. Please refer to the electronic copy within EDCS for the most up to date version. Cisco Systems, Inc. Company Confidential

Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M8 to M15

Conducted Bandedge Average, 2462 MHz, HT-20 Beam Forming, M16 to M23





Antenna A

enter Freq	2.875250000		Trig: Free Run #Atten: 10 dB	Avg	Type: Log-Pwr	105:37:22 AM May 19, 2014 TRACE 1 2 14 TYPE DOT 9 7101011	Frequency
	ef Offset 11.28 dB ef 10.00 dBm				Mk	r2 2.560 3 GHz -68.87 dBm	Auto Tune
ιαι)							Center Fre 2.875250000 GH
							Start Fre 2.483500000 GH
	2						Stop Fre 3.267000000 Gi-
tart 2.4835 Res BW 1.0	MHz	#VB	W 100 Hz		Sweep		CF Ste 78.350000 MH
KRI MODE TRC SI	2	483 5 GHz 560 3 GHz	-56,31 dBm -68,87 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
34							Freq Offse 0 H
1							

Antenna C



enter Freq 2.8752	250000 GHz PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	05:41:13 AM May 15, 2014 TRACE	Frequency
Ref Offset 1 0 dB/div Ref 10.00			Mk	r2 2.560 3 GHz -68.99 dBm	Auto Tune
09 (10 (10					Center Free 2.875250000 GH
00 00 1				-11 CD 12/19	Start Fre 2.483500000 GH
00 00 00					Stop Fre 3.267000000 GH
tart 2.4835 GHz Res BW 1.0 MHz	#VB\	V 100 Hz	Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Step 78,350000 MH
KRI MODE TRC SCL	2,483 5 GHz 2,560 3 GHz	-56.00 dBm -68.99 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
	2,000 G 112				Freq Offse 0 H
a			STATUS		

Antenna D

Page No: 383 of 388

Conducted Bandedge Average, 2462 MHz, HT-20 STBC, M0 to M7



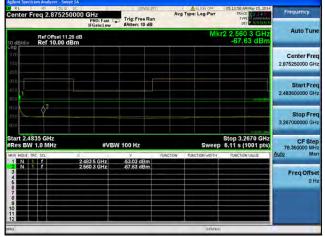
RL	In Analyzer - Swept SA		SSMEE 7	π]	ALICN OFF	05:02:13 AM May 15, 2014	Frequency
enter Fr	req 2.87525000	PNO: Fast C	Trig: Free Run #Atten: 10 dB	Avi	Type: Log-Pwr	TRACE	
0 dB/div	Ref Offset 11.28 di Ref 10.00 dBm	3			Mk	r2 2.560 3 GHz -67.82 dBm	Auto Tun
09 000 000							Center Fre 2.875250000 GH
100 100 100 100						51 i0 🖝	Start Fre 2.483500000 GH
10 0 70 0 10 0	\$ ²						Stop Fre 3.267000000 GH
tart 2.48 Res BW		#VBW	100 Hz		Sweep	Stop 3.2670 GHz 6.11 s (1001 pts)	CF Ste 78,350000 MH
		483 5 GHz	-52.26 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
2 N 1 3 4 5 6		2,560 3 GHz	-67.82 dBm				Freq Offse
7 8 9 10							
sa					STATUS		-

Antenna A

Antenna B

Page No: 384 of 388

Conducted Bandedge Average, 2462 MHz, HT-20 STBC, M0 to M7



	req 2.8752	250000 GHz	Fast 😱	Trig: Free Run	Avg Type: Log-Pwr	05:17:52 AM May 15, 2014 TRACE 12 2 4 EVPE	Frequency
dB/div:	Ref Offset	IFGair 11.28 dB 0 dBm	Low	#Atten: 10 dB	MI	(r2 2.560 3 GHz -67.98 dBm	Auto Tune
							Center Freq 2.875250000 GHz
10 10 10							Start Freq 2.483500000 GHz
10	\$ ²					1004	Stop Freq 3.267000000 GHz
	1.0 MHz		#VBW	100 Hz	Swee	Stop 3.2670 GHz	CF Step 78.350000 MHz
R MODE TH	171	× 2.483 5 G 2.560 3 G	Hz	-53.90 dBm -67.98 dBm	INCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Man
		2.000 3 0		-0/ 35 UDIN			Freq Offset 0 Hz

Antenna B

Antonna A	Antenna	Α
-----------	---------	---

Cent			8752	50000	GHz PNO: Fast		Run dB		aLIGN OFF	TRA	M May 15, 2014 CE 1 2 3 4 5 FE 2 1 4 5 FE 2	Frequency
10 dB	/div	Ref (Ref	offset 11 10.00 c	28 dB dBm					Mk	r2 3.20 -68.	0 4 GHz 87 dBm	Auto Tune
0.00 (0.0) (0.0)												Center Free 2.875250000 GH
90.6 40.0 60.0	1										ика	Start Fre 2.483500000 GH
60.8 70 0 60.8		-									\$ ²	Stop Fre 3.257000000 GH
Res	BW	35 GH 1.0 M			#VB	W 100 Hz			Sweep	6.11 s (2670 GHz 1001 pts)	CF Ste 78.350000 MH
1		RC SCL		× 2.4 3.2	83 5 GHz 00 4 GHz	-54.48 dB -68.87 dB	m	NCTION FUI	NCTION WIDTH	FUNCTIO	IN VALUE	Auto Ma
345678												Freq Offse 0 H
9 10 11 12												
3G									STATUS			

Antenna C

Page No: 385 of 388

Conducted Bandedge Average, 2462 MHz, HT-20 STBC, M0 to M7







	req 2.875	250000 GHz PNO: Fast IF Gaincley	Trig: Free Ru	Avg T	ype: Log-Pwr	05:21:45 AM May 15, 2014 TRACE 1 2 4 F TYPE 0 1010111	Frequency Auto Tune
Ref Offset 11.28 dB Mkr2 3.200 4 GHz 0 dB/div -68.87 dBm							
0g 0 au 10 à							Center Fre 2.875250000 GH
31.5 41.0 51.0							Start Fre 2.483500000 GH
60.0 70.0 80.0						Q ²	Stop Fre 3.267000000 GH
Start 2.48 Res BW	1.0 MHz	#V	BW 100 Hz			Stop 3.2670 GHz 6.11 s (1001 pts)	CF Ste 78.350000 MH Auto Ma
1 N 2 N	111	2.483 5 GHz 3,200 4 GHz	-54.48 dBm -68.87 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	
3 4 5 6 7 8 9 10 11							Freq Offse 0+
90	-				STATUS		

Antenna C

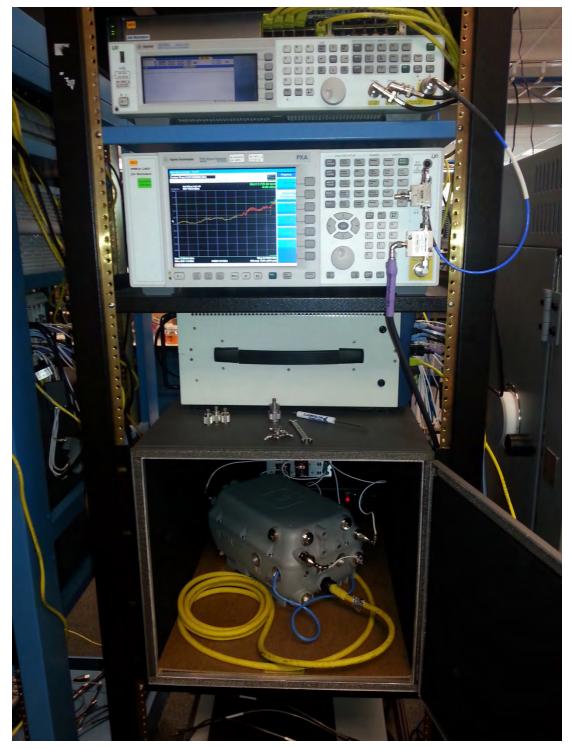


		30 2 - Q C		35162.37		ALICN OFF		M May 15, 2014	Frequency
enter F	req 2.87	5250000	PNO: Fast C IFGain:Low	Trig: Free Run #Atten: 10 dB		Type: Log-Pwr	TV	E PANONA	
Ref Offset 11.28 dB Mkr2 2.560 3 GHz dB/div Ref 10.00 dBm -69.00 dBm								Auto Tune	
									Center Fred 2.875250000 GH:
								54.27 gm	Start Free 2.483500000 GH
10	\$ ²								Stop Free 3.267000000 GH
tart 2.48 Res BW	35 GHz 1.0 MHz		#VB	N 100 Hz		Sweep	Stop 3. 6.11 s (2670 GHz 1001 pts)	CF Step 78.350000 MH
KR MODE TH	1 f 2,483 5 GHz			-54.37 dBm	FUNCTION	FUNCTION WIDTH .	FUNCTION	IN VALUE	Auto Mar
2 N 1 3 4 5 6		2.5	60 3 GHz	-69.00 dBm					Freq Offse 0 Hi
7 8									
9									

Antenna D

Page No: 386 of 388





Conducted Test Setup

Page No: 387 of 388



Appendix B: Test Equipment/Software Used to perform the test

Equip #	Manufacturer	Model	Description	Last Cal	Next Due
CIS-50378	Agilent	N9030A	PXA Spectrum Analyzer	2/27/2014	1/17/2015

Page No: 388 of 388