## riluilu cisco

#### Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2



Center Freq 5.4050000	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	02:12:437M Mar 27, 2013 WACE TURE DET PORTUGAT	Frequency
lo aBlain Ref 0.00 dBm		Mk	r1 5.350 00 GHz -64.08 dBm	Auto Tune
20 100 200 300				Center Freq 5.4050/0000 GHz
				Start Freq 5.3500/0000 GHz
010 010 510				Stop Freq 5,4600/0000 GH2
Start 5,35000 GHz Res BW 1.0 MHz	 / 100 Hz	SWeet	Stop 5,46000 GHz 858 ms (1001 pts) 9 PUNCTION VALUE	CF Step 11 DI0000 MHz Auto Man
23456789				Freq Offset 0 Hz
12		STAT	u .	

Antenna A

Center Freq 5.405000	000 GH2 PNO Fast L	Trig: Free Run #Atten: 10 dB	Avg "ype: Log-Per	02:16:07 PM Har 27, 2013 TRACE A CONTRACT FYRE DET CONTRACT	Frequency
to aBildiv Ref 0.00 dB	m		Mkr	-66.68 dBm	Auto Tun
100 310 310					Center Fre 5.405000000 GH
400					Start Fre 5.35000000 GH
					Stop Fre 5.46000000 G
Start 5,35000 GHz Res BW 1.0 MHz	#\B	W 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Ste 11.000000 Mi
N S C	5 350 00 GHz	-66.68 dBm	INCTION	FUNCTION VALUE	Auto Ma
3 4 5 6 7 9 9 9 10 11					Freq Offs 01
			STATIS		

Antenna C

Antenna B

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## rilinini cisco

### Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3



Center Freq 5.40500000	0 GHz	g Free Run tten: 10 dB	Avg Type: Leg-Pwr	02:12:43:94 Mar 27, 2013 MACE 12:53:4 TYPE 12:54 DET 12:54	Frequency
10 aB/die Ref 0.00 dBm			Mkr	1 5.350 00 GHz -64.08 dBm	Auto Tune
29 (m) 20 20					Center Freq 5.405000000 GHz
100 512 100				-115 pr	Start Freq 5.35000000 GHz
010 930					Stop Freq 5,46000000 GHz
Start 5.35000 GHz Res BW 1.0 MHz		) Hz FUNCTION 1071 dStrij	Sweep	Stop 5.46000 GHz 858 ms (1001 pts) PLINCTION VIEWE	CF Step 11.010000 MHz Auto Man
233456788310					Freq Offset 0 Hz
12 NO-			STATS	0	

Antenna A

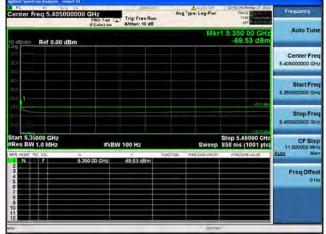
enter Freq 5.405000		Trig: Free Run #Atten: 10 dB	Avg "ype: Log-Per	02:16:07 94 Har 27, 2013 TRADE 1 2013 TYPE 2013	Frequency
D dB/dpr Ref 0.00 dBr	n		Mkr	5.350 00 GHz -66.68 dBm	Auto Tuni
					Center Fre 5.405000000 GH
41.0 510 10 10 1					Start Fre 5:350000000 GH
					Stop Fre 5.46000000 GH
tart 5,35000 GHz Res BW 1.0 MHz	#\BI	V 100 Hz	Sweep	Stop 5,46000 CHz 858 ms (1001 pts)	CF Ste 11.000000 MH
NOCE the seal	5.350 00 GHz	-66.68 dBm	NCTION PLINCTION WIDTH	FUNCTION VALUE	Auto Mar
23456					Freq Offse 0 H
2			ETATLE	6	-

Antenna C

Antenna B

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## Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1







enter Freq 5.405000	000 GH2 PNO Fast IFGaind av	and a second second	Ave	"ype: Log-Per	0257/26 PM Har 27, 2013 TRACE 10 2013 TYPE 2013	Frequency
delider Ref 0.00 dBr	n			Mkr	1 5.350 00 GHz -67.21 dBm	Auto Tun
						Center Fre 5.405000000 GH
200						Start Fre 5.350000000 GH
						Stop Fre 5.45000000 GH
tart 5.35000 GHz Res BW 1.0 MHz	#NE	3W 100 Hz			Stop 5,46000 GHz 858 ms (1001 pts)	CF Ste 11.000000 Mi Auto Mi
A MOE the stall	5.350.00 GHz	-67.21.dBm	TUNCTION	PUNCTON-WDTH	function value	FreqOffs
6 67 9 9 0 1						
			_	STATU	(~	

Antenna C



enter F	req 5.4050	DOOOO GHz PNO: Fail G	Trig: Free Run #Atten: 10 dB	Avg	Type: Log-Pwr	02:00:53:9444a; 27, 2 18:405 1 2 3 4 19:40 1 2 3 4 19:40 1 2 4 19:40 1 2 4	Frequency
0 dB/div	Ref 0.00 d	Bm			Mkr	1 5.350 00 GH -68.33 dB	
99 100 100 100							Center Freq 5.405010000 GHz
							Start Free 5.35000000 GH
							Stop Freq 5.46000000 GHz
	000 GHz 1.0 MHz	#VB	N 100 Hz		Sweep	Stop 5,46000 Gi 858 ms (1001 pt	5) 11.00000 MH
KR HODE TR		× 5 350 00 GHz	-58.33 d5m	PUNCTION	PUNCTION WIDTH	PUNCTION VALUE	Auto Mar
1 N 1							Freg Offse

Antenna D

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## rilinin cisco

## Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2







Frequency	02:29:45 PM Har 27, 2013 TRADE 1 2013 TYPE 2015 1014	Type: Log-Pwr	A		D Fast La	00000 GHz PNO		ter Fr
Auto Tur	1 5.350 00 GHz -66.86 dBm	Mkr				Bm	Ref 0.00 d	Jidiv,
Center Fre 5.405000000 Gi								
Start Fre 5.35000000 Gr								1
Stop Fre 5.46000000 G								V
CF Ste 11.000000 Mi Auto Mi	Stop 5,46000 GHz 858 ms (1001 pts) /Direction value	SWEED	PLANCTION	100 Hz		8		S BW 1
Freq Offs 01				-55,86 dBm	GHz	5,350.00 (	-	N
-	6	ETANIS	_	_				

Antenna C



enter Freq 5.40500000		Trig: Free Run RAtten: 10 dB	Ave	Type: Log-Pwr	02-33-50 PM TRACE TYPE DET		Frequency
o dB/die Ref 0.00 dBm				Mkr	1 5.350 0	0 GHz 1 dBm	Auto Tune
							Center Freq 5.40500000 GHz
875 51.6 100						1	Start Freq 5.35000000 GHz
no no ne							Stop Freq 5.46000000 GHz
tart 5.35000 GHz Res BW 1.0 MHz	#VB	W 100 Hz		Sweep	Stop 5.46 858 ms (1	000 GHz 001 pts)	CF Step 11.010000 MHz
1 N 1 7 5	350 00 GHz	-66,31 d3m	FUNCTION	PUNCTION WESTR	PUNCTION	VALUE	Auto Man
434567							Freq Offset 0 Hz

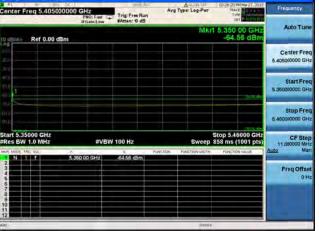
Antenna D

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## rilinin cisco

## Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3







		M	kr1 5.350 00 GHz -66.86 dBm	Auto Tune
				Center Free 5.405000000 GH
				Start Fre 5.350000000 GH
				Stop Fre 5.46000000 GH
#\B				CF Ster 11.000000 MH Auto Ma
5 350 00 GHz	-66,86 dBm			Freq Offse 0 H
	#NB 5.550.00 GHz		8 Y FUNCTION PLINCTION WD1	

Antenna C



enter Freq 5.405000000	GH2 PHO: Fail	Trig: Free Run #Atten: 10 dB		Type: Log-Pwr	02:33:50 PM May 27, 201 1944CE 1 1949 001	Frequency
D dB/die Ref 0.00 dBm				Mkr	1 5.350 00 GHz -66.31 dBm	
99 100 100						Center Freq 5.4050/0000 GHz
						Start Freq 5.35000000 GHz
nuo 11.9 he						Stop Freq 5.46000000 GHz
tart 5.35000 GHz Res BW 1.0 MHz	#VBW	100 Hz		Sweep	Stop 5.46000 GHz 858 ms (1001 pts)	11.010000 MHz
23455	0 00 GHz	-86,31 d3m	FUNCTION	PUNCTION W015	PUNCTION VALUE	Auto Man Freq Offset 0 Hz

Antenna D

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## Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1



Frequency Avg Type: Freq 5 40 Trig: Free Run EAttan: 10 dB Auto Tur -63.44 Ref 0.00 dBm Center Fre 5.40500000 G Start Fre 6.3 Stop Fre 000000 G tart 5.35000 GHz Res BW 1.0 MHz Stop 5.46000 GF Sweep 858 ms (1001 pt CFS #VBW 100 Hz Freq Offse

Antenna A

Antenna B

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#### Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



enter Freq 5.40500	00000 GHz PNO: Fast C IFGaint nw	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	01/45/08/24/44/27, 2013 19442 12:501 19442 12:501 19442 12:501	Frequency
o dB/dia Ref 0.00 dt	Bm		Mk	r1 5.350 00 GHz -63.44 dBm	Auto Tune
29 min mo b o					Center Free 5.4050/0000 GH
					Start Free 5.35000000 GH
11.0 11.9 11.0					Stop Fre 5.4600/0000 GH
tart 5.35000 GHz Res BW 1.0 MHz	#VB	W 100 Hz	Sweep	Stop 5.46000 GHz 858 ms (1001 pts)	CF Step
N 1 F	5 350 00 GHz	-63.44 dBm	UNCTION FUNCTION WIDTH	PUNCTION VALUE	Auto Ma
2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					Freq Offse 0 H
10)			STATS	1	

Antenna B

Antenna A

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## Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna B

Center Freq 5.405000000 (	DBO: Lost Los II	rig: Free Run Atten: 10 dB	Avg Type: Log-Per	0257-24 PM Har 27, 2013 TRACE DECEMBER TYPE DECEMBER DECEMBER	Frequency
to dB/dry Ref 0.00 dBm			Mkr	1 5.350 00 GHz -67.21 dBm	Auto Tune
100 200 300					Center Fred 5.405000000 GH:
400 900 000 1				17.00	Start Free 5.35000000 GH
					Stop Free 5.45000000 GH
Start 5,35000 GHz #Res BW 1.0 MHz	#\BW 10		Sweep	Stop 5,46000 CHz 858 ms (1001 pts)	CF Step 11.000000 MH Auto Mai
2 3 4 5 6 7 9	000 GHz -6	7.21 dBm			Freq Offse 0 H
9 10 11 12					

Antenna C

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## Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



			,		
ellent Spectrum Anialyzor i F	HER M				
enter Freq 5.4050	000000 GHz PND: Fast	Trig: Free Run #Atten: 10 dB	Avg Type: Leg-Pwr	02:12:43:PM Mar 27, 2013 WACE TYPE TYPE DET PL/1011	Frequency
dB/dia Ref 0.00 d	ßm		Mki	1 5.350 00 GHz -64.08 dBm	Auto Turre
					Center Free 5.4050/0000 GH
					Start Free 5.35000000 GH
					Stop Free 5.4600/0000 GH
tart 5.35000 GHz Res BW 1.0 MHz	#VBW	100 Hz	Sweep	Stop 5.46000 GHz 858 ms (1001 pts)	CF Step 11.010000 MH
AR HODE THE BEL	5 350 00 GHz	-54,011 d5m	NCTION PUNCTION WESTH	PUNCTION VALUE	Auto Mar
234567.2					Freq Offse 0 H
			ITATI		

Antenna B

Antenna	Α
/	

enter Freq 5.40	5000000 GHz Ph0 Fail FGaint av	Trig: Free Run #Atten: 10 dB	Avg 'ype: Log-Pwr	02:18:07 94 Har 27, 2013 TRADE 1 2014 TYPE 2015 114	Frequency
dB/dir Ref 0.0	0 dBm		Mkr	1 5.350 00 GHz -66.68 dBm	Auto Tune
50 00 019 00					Center Free 5.405000000 GH:
10 up 1				ine.	Start Free 5.350000000 GH
					Stop Fre 5.460000000 GH
tart 5.35000 GHz Res BW 1.0 MHz		3W 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Ster 11.000000 MH Auto Ma
A MORE the seal	5.350 00 GHz	-66.68 dBm	NCTION	FUNCTION VALUE	Freq Offse
4					OH
0			ETATLE	C-	

Antenna C

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### Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3



Center Freq 5.405000		Trig Free Run #Atten: 10 dB	Avg Type: Leg-Pwr	02:12:43 PM Mar 27, 2013 MACE R 2014 Type Det P 10:10	Frequency
o dB/dia Ref 0.00 dBr	1		Mk	1 5.350 00 GHz -64.08 dBm	Auto Tune
					Center Fred 5.4050/0000 GHb
				-115-101	Start Free 5.35000000 GH
					Stop Free 5.4600/0000 GH
tart 5.35000 GHz Res BW 1.0 MHz	#VBW		Sweep	Stop 5.46000 GHz 858 ms (1001 pts)	CF Step 11.010000 MH
N 1 F	5.360.00 GHz	-64.08 45m			Freq Offse 0 H
N 1 1	5,350 Q0 GH2	-64.08 d5m			

Antenna B

Α	ntenna	Α

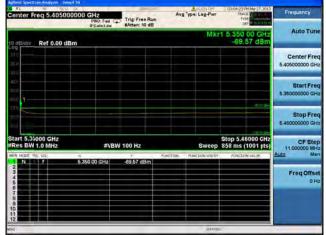
Center Freq 5.40	5000000 GHz PNO: Fast IFGaint m	Trig: Free Run #Atten: 10 dB	Avg "ype: Log Per	02:16:07 94 Har 27, 2013 TRADE 1 2013 TYPE 1 2013	Frequency
D dB/div Ref 0.00	1 5.350 00 GHz -66.68 dBm	Auto Tune			
100 710 100					Center Fred 5.405000000 GHz
atio					Start Free 5.350000000 GH:
					Stop Free 5.46000000 GH
start 5.35000 GHz Res BW 1.0 MHz	#\B	W 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Step 11.000000 MH
AFR MEDE THE SEA	5.350 00 GHz	7 70 -66.68 dBm	NCTION PLINCTION WIDTP	PUNCTION VALUE	Auto Mar
3456					Freq Offse 0 H
7 9 9 10					
12			ZTANIS		-

Antenna C

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## ilinin cisco

## Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1







Center Freq 5.40500		Trig: Free Run #Atten: 10 dB	Avg "ype: Log.Per	DistiniSPM Rev 27, 2013 TRACE DISCUSSION Fore DISCUSSION	Frequency
o dBidiy Ref 0.00 dB	im		Mk	-68.86 dBm	Auto Tuni
100					Center Fre 5.405000000 GH
110 510 010 <b>1</b>					Start Fre 5.36000000 GH
					Stop Fre 5.45000000 GH
Res BW 1.0 MHz	#\B	W 100 Hz		Stop 5,46000 GHz 858 ms (1001 pts)	CF Ste 11.000000 MH Auto Ma
2 N K K	5.350 00 GHz	-69.86 dBm	UNCTION PLINCTION WOTH	PUNCTION WALKE	
3456					Freq Offse

Antenna C

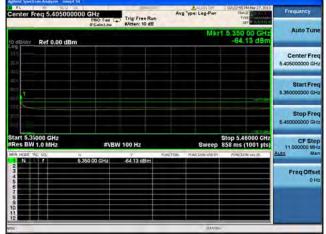


PNO: Fast FGaind Inv	Trig: Free Run BAtten: 10 dB	Avg Type: Log-Pwr	03:14:40 PMMar 27, 2013 1944CE 1 2014	Frequency Auto Tune		
Mkr1 5.350 00 GHz 8 Ref 0.00 dBm -71.60 dBm						
				Center Fred 5.4050/0000 GHz		
				Start Free 5.35000000 GH		
			-710-56	Stop Free 5.46000000 GH		
#VBW	100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Ster 11.010000 MH		
5 350 00 GHz	-71 50 d6m	ection Panction wolfk	PUNCTION VALUE	Auto Mar		
				Freq Offse 0 H		
	Breaks two dBm #VBW	EGANLEN EATEN: 10 dB	EGainci Invo #Arten; 10 dB Mikri CBIM EVBW 100 Hz Sweep TVEWW 100 Hz Sweep	British to dB cm   Mkr15.0550 00 GHz 55550 00 GHz   dBm -71.60 dBm   -71.60 dBm -71.60 dBm   -71.80 dBm -71.60 dBm		

Antenna D

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### Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2







Frequency	02:29:45 PM Har 27, 2013 TRADE 1 2013 TYPE 2015 1014	Type: Log-Pwr	A		D Fast La	00000 GHz PNO		ter Fr
Auto Tur	1 5.350 00 GHz -66.86 dBm	Mkr				Bm	Ref 0.00 d	Jidiv,
Center Fre 5.405000000 Gi								
Start Fre 5.35000000 Gr								1
Stop Fre 5.46000000 G								V
CF Ste 11.000000 Mi Auto Mi	Stop 5,46000 GHz 858 ms (1001 pts) /Direction value	SWEED	PLANCTION	100 Hz		8		S BW 1
Freq Offs 01				-55,86 dBm	GHz	5,350.00 (	-	N
-	6	ETANIS	_	_				

Antenna C

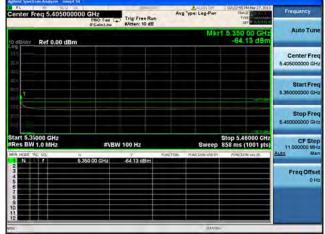


enter Freq 5.4050000		Trig:Free Run #Atten: 10 dB	Avg Type: Log-Pwr	02-33-10 PM Har 27, 2013 TRACE THE DET P	Frequency
o dB/die Ref 0.00 dBm	Auto Tune				
					Center Free 5.4050/0000 GH
					Start Free 5.35000000 GH
110 110 110					Stop Free 5.460090000 GH
tart 5.35000 GHz Res BW 1.0 MHz	#VB	W 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Step 11.010000 MH
N I T	5 350 00 GHz	-66,31 d3m	UNCTION FUNCTION WIDTH	PUNCTION VALUE	Auto Mar
345667.990					Freq Offse 0 H

Antenna D

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### Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3







enter Freq 5.4050		Trig: Free Run #Atten: 10 dB	Avg "ype: Log-F	er 05:29.45 Miller 27, 2013 Ner TRACE DE LA COMPANY Der De La Company Der De La Company	Frequency
o deliday Ref 0.00 d	Bm		1	4kr1 5.350 00 GHz -66.86 dBm	Auto Tun
					Center Fre 5.405000000 GH
					Start Fre 5.350000000 GH
					Stop Fre 5.45000000 GH
tart 5,35000 GHz Res BW 1.0 MHz	#VE	3W 100 Hz	Naction Parcenter	Stop 5,46000 CHz ep 858 ms (1001 pts)	CF Ste 11.000000 MH Auto Ma
2 3 4 5 5 6 6 7 9 9 9 0 0	5,350 00 GHz	-66,86 dBm			Freq Offse 0 H

Antenna C



	105000000 GHz Pilo, I IFGain	at Trig Free	Run	g Type: Log-Pwr	02:33:20744 May 27, 2013 1840E 11 17/9E 067 9	Frequency
o dB/die Ref 0	.00 dBm			Mkr	1 5.350 00 GHz -66.31 dBm	Auto Tune
99 1000 1000						Center Freq 5.4050/0000 GHz
						Start Free 5.35000000 GHz
						Stop Free 5.4600/0000 GH:
tart 5.35000 Gi Res BW 1.0 MH	tz Iz	#VBW 100 Hz		Sweep	Stop 5.46000 GHz 858 ms (1001 pts)	CF Step 11.010000 MH
N 1 F	× 5,350,00,61	4z -66,31 d5	FUNCTION	PUNCTION WESTR	PUNCTION VALUE	Auto Mar
23455						Freq Offse OH

Antenna D

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### Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



Avg Type: Log-Pv Frequency en 5 404 0 GHz Trig: Free Run Auto Tur -63.44 Ref 0.00 dBm Center Fre 5.40500000 G Start Fre 6.3 Stop Fre 000000 G tart 5.35000 GHz Res BW 1.0 MHz Stop 5.46000 GF Sweep 858 ms (1001 pt CFS #VBW 100 Hz Freq Offse

Antenna A

Antenna B

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## rilinin cisco

#### Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



Center Freq 5.4050000	00 GHz	Trig: Free Run #Atten: 10 dB	Avg Type: Leg-Pwr	02:12:43 PM Mar 27, 2013 WACE CONTRACT TIME DET POLITIK	Frequency
o dB/dle Ref 0.00 dBm			Mkr	5.350 00 GHz -64.08 dBm	Auto Tune
**************************************					Center Freq 5.4050/0000 GHz
				-115 60	Start Freq 5.35000000 GHz
					Stop Freq 6.4600x0000 GHz
tart 5.35000 GHz Res BW 1.0 MHz			Sweep Action Planction wight	Stop 5.46000 GHz 858 ms (1001 pts) PUNCTION VALUE	CF Step 11.010000 MHz Auto Man
2234566789910					Freq Offset 0 Hz
NO			STATIS		

Antenna B

Antenna	Α	

Center Freq 5.405000		Trig: Free Run #Atten: 10 dB	Avg 'ype: Log-Pwr	02:16:07 744 Har 27, 2013 19442 112 2013 1946 112 2013 1947 112 2013	Frequency
o dB/dry Ref 0.00 dBr	n		Mkr	1 5.350 00 GHz -66.68 dBm	Auto Tune
100 710 310					Center Fred 5.405000000 GH:
210 200 200					Start Free 5.350000000 GH
					Stop Free 5.45000000 GH
Start 5.35000 GHz Res BW 1.0 MHz	#\BW		SW22P	Stop 5,46000 GHz 858 ms (1001 pts)	CF Step 11.000000 MH Auto Mar
N 5 7	5.350 00 GHz	-66.68 dBm			Freq Offse 0 Ha

Antenna C

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## ilinin cisco

## Conducted Bandedge Average, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1







Center Freq 5.405000		Trig: Free Run	Avg "ype: Log-Per	02:25:45 PM Rev 27, 2013 TRACE II 22:00 Pyre per 2 monthle	Frequency
to dB/div Ref 0.00 dB	n		Mk	1 5.350 00 GHz -66.86 dBm	Auto Tun
100 310 310					Center Fre 5.405000000 GH
410					Start Fre 5.35000000 GH
					Stop Fre 5.46000000 GH
Start 5,35000 GHz Res BW 1.0 MHz	#\B	W 100 Hz	Sweep	Stop 5,46000 CHz 858 ms (1001 pts)	CF Ste 11.000000 Mi Auto Ma
	5,350 00 GHz	-86.86 dBm			Freq Offse 01
			STATI		

Antenna C



D GHZ PNO: Fast C IFGaint nov	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	02:33:50744.44/27,2013 194428 122-24 1749 041 24	Frequency
		Mk	r1 5.350 00 GHz -66.31 dBm	Auto Tune
				Center Freq 5.4050/0000 GHz
				Start Freq 5.35000000 GHz
				Stop Free 5.46000000 GH:
#VB	W 100 Hz	Sweep	Stop 5.46000 GHz 858 ms (1001 pts)	CF Step 11.010000 MH
350 00 GHz	-86.31 d5m	UNCTION FUNCTION WETH	PUNCTION VALUE	Auto Man
				Freq Offset 0 Hz
	#VB	#UGHEL BIOLINE	10 GHz PRO: fair IF Can Law Trig: First Run Metter: 0 dB WR Metter: 0 dB WR Metter: 0 dB WR Metter: 0 dB WR WR WR WR WR WR WR WR WR WR	0 GH2 Brochest Brochester

Antenna D

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#### Conducted Bandedge Average, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps



Antenna A

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## Conducted Bandedge Average, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps



Frequency er Freg 5.40500 Avg Type: Log-Pr n GHz Trig: Free Run sAtten: 10 dB Auto Tun Ref 0.00 cBm Center Fre 5.40 5000000 GH Start Fre Stop Fre 00000 GH CF St 11.00000 Start 5.35000 GH Stop 5.46000 GHz Sweep 858 ms (1001 pts) #VBW 100 Hz Freq Offs 01

Antenna A

Antenna B

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Frequency 0 5 405 0 GHz Trig: Free Run Auto Tur 350 00 75.04 Ref 0.00 dBm Center Fre 5.40 5000000 G Start Fre 80 Stop Fre Start 5.31000 GHz Res BW 1.0 MHz Stop 5,46000 CHz Sweep 858 ms (1001 pts) CF St #VBW 100 Hz 75.04 Freq Offse

#### Conducted Bandedge Average, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps



cisco

Antenna A

Rt 10 00 00		S266 11	E 19.1.	A100% OFF	05/25/07 AM Mar 27, 2013	Harmonia
enter Freq 5.405000000	GHZ	Trig: Free Run #Atten: 10 dB	Aval	ipe: Log-Pwr	TRACE TOPE	Frequency
Bildiv Ref 0.00 dBm				Mkr	1 5.350 00 GHz -74.03 dBm	Auto Tuni
99 00 00						Center Free 5.405000000 GH
00 00 00						Start Fre 5.350000000 GH
()) 2 <sup>2</sup>						Stop Fre 5.46000000 GH
tart 5,35000 GHz Res BW 1.0 MHz	#VBW	100 Hz			Stop 5,46000 CHz 858 ms (1001 pts)	CF Ste 11.000000 MH
Market Inc. Sto	50 00 GHz	74,03 dBm	FUNCTION	RUNCTION WIDTH	FUNCTION WHILE	Auto Ma
434456						Freq Offse

Antenna C

Antenna B

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Conducted Bandedge Average, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps

## ilinin cisco

#### Frequency Ava 'v Fred 5 405 DIGHA Auto Tur Ref 0.00 dBm Center Fre 5.40500000 G Start Fre 5.3 Stop Fre Start 5.35000 GHz Res BW 1.0 MHz Stop 5,46000 CHz Sweep 858 ms (1001 pts) CF Sta 11.000000 M #VBW 100 Hz Freq Offse



Antenna A

Frequency	05:35-15 AM Mar 27, 2013 TRACE TO THE TOT T	g Type: Log-Pwr	un	Trig: Free #Atten: 10	PRO: Fast	5000000 C		nter Fr
Auto Tun	5.350 00 GHz -76.12 dBm	Mkri				dBm	Ref 0.00	Bldiv
Center Fre 5.405000000 GH								
Start Fre 5.350000000 GH								
Stop Fre 5.46000000 GH								1
CF Ste 11.000000 MH Auto Ma	Stop 5,46000 CHz 858 ms (1001 pts) mucromywage	Sweep Puectioswipte	FUNK	100 Hz		×		MILE IN
Freq Offse 0 H				-76 12 dE	0 00 GHz	5.350		N I
		STATIO						

Antenna C



enter Freq 5.4050000		Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	06.04:24 AM Mar 27, 2013 19AC2 1 100 19FE 100 19FE 100 19FE 100 100	Frequency
dB/dy Ref 0.00 cBm			Mkr1	5.350 00 GHz -75.95 dBm	Auto Tune
00 00					Center Fred 5.405000000 GH:
2.0 2.0					Start Free 5.35000000 GH
ng 1				Aller	\$top Free 5.46000000 GH
tart 5.35000 GHz Res BW 1.0 MHz	#VBW		Sweep 8	Stop 5,46000 GHz 358 ms (1001 pts)	CF Step 11.000000 MH
1 N 1 F	5.350.00 GHz	-75.95 cBm	ALTER TONCTON WORK	TORCHER WELL	Auto Mar Freg Offse
4 5 7 9 9					OH.

Antenna D

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### Conducted Bandedge Average, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps



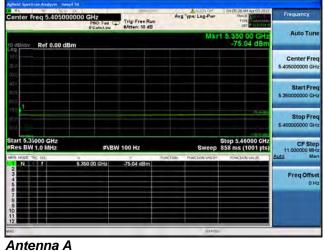
Frequency Avg Type: Log-P r Fred 5 405 0 GHz Trig: Free Run Auto Tur Ref 0.00 cBm Center Fre 5.40 000000 GH Start Fre Stop Fre 00000 GH CF St 11.00000 Start 5.35000 GH Stop 5.46000 GHz Sweep 858 ms (1001 pts) #VBW 100 Hz Freq Offs 01

Antenna A

Antenna B

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#### Conducted Bandedge Average, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps



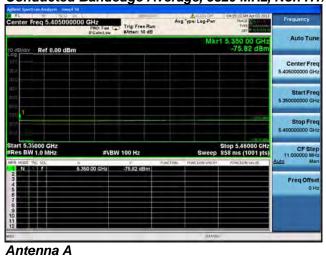
Antenna B

Frequency	05:26:07 AM Har 27, 2013 TRACE 1 Trips DET 2000/000	e: Log-Pwr	Avg	Free Run in: 10 dB	+ Trig	GHZ PRO: Fast	05000000			en
Auto Tun	1 5.350 00 GHz -74.03 dBm	Mkr					00 dBm	Ref 0.0	Vdiv	0 cfE
Center Free 5.405000000 GH										10 (1) 10 (1) 20 (2) 10 (1)
Start Fre 5,35000000 GH										20) 20) 20)
Stop Fre 5.46000000 GH										
CF Step 11.000000 MH	Stop 5,46000 GHz 858 ms (1001 pts)			Hz	W 100	#VBI		000 GH2 1.0 MHz		
Auto Ma	PLINCTION WALK	ectios-wptr	UNCTION	13 dBm	574	50 00 GHz	× 58		and: in	
Freq Offse 0 H										34567
										8901

Antenna C

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#### Conducted Bandedge Average, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps





enter Freq 5.405000000	Figurian Free F	Avg Type: Lo Run	g-Pwr TRACE	Frequency
dBidiv Ref 0.00 dBm			Mkr1 5.350 0 -76.13	0 GHz Auto Tune 2 dBm
00 00 00				Center Free 5.405000000 GH
				Start Fre 5.35000000 GH
n) 				Stop Fre 5.46000000 GH
tart 5,35000 GHz Res BW 1.0 MHz	#VBW 100 Hz		Stop 5.460 Weep 858 ms (1)	001 pts) CF Step 11.000000 MH
	00 GHz .76 12 dB			Freq Offse 0 H
0 8 9 0				
2			STATUS	

Antenna C

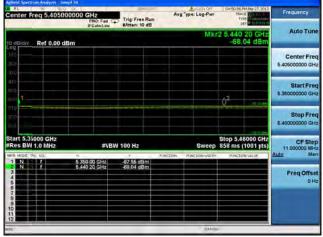
	nun Analyzer Sa	00	100000000	dist. inter	106-04-24 AM Mar	20.2003
	req 5.4050		Sector Sector	Avg Type: Log-P	WY TRACE	Frequency
vib/Bb Ø	Ref 0.00 d	Bm		M	kr1 5.350 00 -75.95	
00 10.0 2011						Center Freq 5,405000000 GHz
40) 5.0						Start Freq 5.350000000 GHz
						Stop Freq 5.46000000 GHz
	000 GHz 1.0 MHz	#VB\	N 100 Hz		Stop 5.4600 ep 858 ms (100	1 pts) CF Step 11 DI00000 MHz
		5.350.00 GHz	-75,95 cBm	UNICTION FUNCTION W	OTH FUNCTION VAL	Freq Offset
5 6 7 8 9 10 11 12					ADA	0 Hz

Antenna D

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#### Conducted Bandedge Average, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



Antenna A

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## rilinin cisco

## Conducted Bandedge Average, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



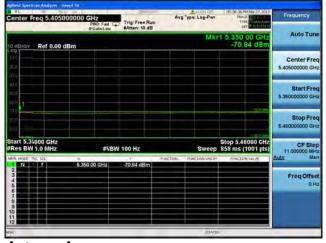


Antenna A

Antenna B

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#### Conducted Bandedge Average, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2

Antenna A

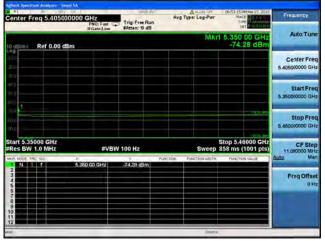


Antenna B

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#### Conducted Bandedge Average, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



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Antenna A

Center	req 5.405000	DOOD GH2 PNO Feel L		Avg "ype: Log-Per	06:55:43 PH Har 27, 2013 19:422 11 22 19:42 12 12 12 12 12 12 12 12 12 12 12 12 12	Frequency
D dB/div	Ref 0.00 dB	m		Mki	1 5.350 00 GHz -74.41 dBm	Auto Tuni
100 200 300						Center Fre 5.405000000 GH
41.0 940 010						Start Fre 5.35000000 GH
					anr.	Stop Fre 5.45000000 GH
	5000 GHz 1.0 MHz	#\B	V 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Ste 11.000000 MH
I N	the seal	5.350 00 GHz	74,41 dBm	NCTION FUNCTION-WDTP	FUNCTION VALUE	Auto Ma
154567						Freq Offse 0 H
8 9 10 11						
10				ETATLE	(-	

Antenna C

Antenna B

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## rilinin cisco

## Conducted Bandedge Average, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



Center Freq 5.4050000	DO GHZ	Trig Free Run	Avg Type: Log-Pwr	06:12:00744 Mar 27, 2013 TRACE 12:00744 Mar 27, 2013	Frequency
0 dB/dle Ref 0.00 dBm	IFGais:1nw	#Atten: 10 dB	Mkr	1 5.350 00 GHz -70.42 dBm	Auto Tune
					Center Freq 5.4050/0000 GHz
no 10 11					Start Free 5.35000000 GH
100 100 100				7346	Stop Freq 5.46000000 GHz
tart 5.35000 GHz Res BW 1.0 MHz		V 100 Hz	Sweep wotion Poinction wighting	Stop 5,46000 GHz 858 ms (1001 pts) PUNCTION VALUE	CF Step 11.010000 MHz Auto Man
2345678900					Freq Offset 0 Hz
12			STATIS		-

Antenna A

Center Fr	eq 5.4050000	PNO: Fest L	Trig: Free Run #Atten: 10 dB	Avg "ype: Log-Per	06-15-36 PM Rar 27, 2013 19:422 11 22 1 19:56 12 12 12 12 12 12 12 12 12 12 12 12 12	Frequency
D dB/dlv	Ref 0.00 dBm			Mki	1 5.350 00 GHz -73.56 dBm	Auto Tuni
100 300 300						Center Free 5.405000000 GH
410 200 010						Start Free 5.350000000 GH
						Stop Fre 5.450000000 GH
Start 5,350 Res BW 1		#\B	V 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Step 11.000000 MH
2		350 00 GHz	-73.56 dBm	UNCTION PLINCEON WOTH	POWCISON VALUE	Auto Ma
3456						Freq Offse 0 H
7 9 9 10						
12				ETATI		-

Antenna C

Antenna B

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## rilinin cisco

#### Conducted Bandedge Average, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3



Center Freq 5.405000000	GHZ PNO: Fest	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	DE12:00 PM Mar 27, 2013 TRACE DE2 C	Frequency
to dB/die Ref 0.00 dBm			Mkr	1 5.350 00 GHz -70.42 dBm	Auto Tune
29 1100 200					Center Freq 5.4050/0000 GHz
() () () () () () () () () () () () () (					Start Free 5.350010000 GHz
000 000 950					Stop Freq 5.46000000 GHz
tart 5.35000 GHz Res BW 1.0 MHz	#VBW	100 Hz	Sweep истон Ранстон-метн	Stop 5.46000 GHz 858 ms (1001 pts) runction value	CF Step 11.010000 MH: Auto Mar
23466	e ur onz	-10 A4 00m			Freq Offset 0 Hz
9 10 11 12			Itāris		

Antenna B

Antenna A

enter Freq 5	405000000 GHz Pio F	HI C+ Trig: Free Run #Atten: 10 dB	Avg 'ype: Log-Pwr	06:12:36 PM Har 27, 2013 TRACE 10 2 11 1998 2017 2015 11 10	Frequency
	0.00 dBm		Mkr	1 5.350 00 GHz -73.56 dBm	Auto Tune
20 30 5.0					Center Fred 5.405000000 GH:
					Start Free 5.35000000 GH:
					Stop Free 5.46000000 GH
tart 5.35000 C Res BW 1.0 N	IHz s		Sweep Notion Punction worth	Stop 5,46000 GHz 858 ms (1001 pts) /Direction value	CF Step 11.000000 MH Auto Mar
	5,350 00 GH	z -73,56 dBm			Freq Offse 0 H
			ETATU	(-	-

Antenna C

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## ilinin cisco

## Conducted Bandedge Average, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1







enter Freq 5.40500	00000 GH2 PNO Fast	Trig: Free Run #Atten: 10 dB	Ave	A Log-Pwr	07:38:33741 Har 27, 2013 Theol 127 Type 201 2013	Frequency
o apliant Ref 0.00 dt	3m			Mki	1 5.350 00 GHz -76.75 dBm	Auto Tuni
100						Center Fre 5.405000000 GH
41.0 510						Start Fre 5.350000000 GH
1						Stop Fre 5.46000000 GH
tart 5,35000 GHz Res BW 1.0 MHz	#VE	3W 100 Hz		Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Ste 11.000000 Mi
A MEDE THE SEA	5.350 00 GHz	-76,75 dB/m	FUNCTION	PUNCTION WOTH	POWCISON WALKE	Auto Ma
						Freq Offs
				ETAIL		

Antenna C



enter Freq 5.40500000	0 GHz PNO: Fast	Trig: Free Run BAtten: 10 dB	Avg Type: Log-Pw		Frequency
aBide Ref 0.00 dBm			M	kr1 5.350 00 GHz -76.66 dBm	Auto Tune
99 100 100					Center Freq 5.405000000 GHz
					Start Free 5.35000000 GHa
				20.00	Stop Frec 5.460010000 GH2
tart 5.35000 GHz Res BW 1.0 MHz		W 100 Hz	Swee	Stop 5,46000 GHz p 858 ms (1001 pts)	CF Step 11.000000 MH
	350 00 GHz	-76 <i>5</i> 6 d3m			Freq Offse 0 Hi

Antenna D

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## rihuhu cisco

## Conducted Bandedge Average, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2







enter Freq 5.40500		Trig: Free Run #Atten: 10 dB	Ave	A Liny or	Dersexagen Rar 27, 2013 Triacil II 22 Type Der Strick Rar 27, 2013	Frequency
o albiday Ref 0.00 dB	im			Mk	1 5.350 00 GHz -74.41 dBm	Auto Tuni
						Center Fre 5.405000000 GH
						Start Fre 5.350000000 GH
					-105	Stop Fre 5.46000000 GH
tart 5,35000 GHz Res BW 1.0 MHz	#VB	3W 100 Hz		Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Ste 11.000000 MH
NR MODE the stall	5.350 00 GHz	-74,41 dBm	PUNCTION	PUNCTION-WD1H	FUNCTION VALUE.	Auto Ma
						Freq Offse
			_	ETATU		

Antenna C

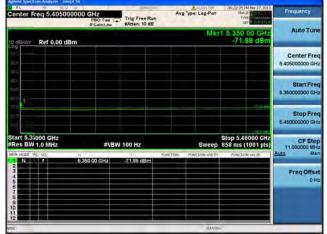


enter Freq 5.4050000		Trig:Free Run #Atten: 10 dB	Avg Type: Log-Pwr	07/00.06 6M Mar 27, 2013 TRACE THINK DET	Frequency
dBidie Ref 0.00 dBm			Mkd	2 5.433 16 GHz -74.62 dBm	Auto Tune
19 10 10					Center Fred 5.4050/0000 GHz
					Start Free 5.350010000 GH
			§ <sup>2</sup>		Stop Free 5.46000000 GH:
art 5.35000 GHz Res BW 1.0 MHz	#VB	W 100 Hz	Sweep	Stop 5.46000 GHz 858 ms (1001 pts)	CF Step 11.DI0000 MH
N 1 1	5 350 00 GHz	74.17 d3m 74.52 d3m	UNCTION PUNCTION WIDTH	PUNCTION VALUE	Auto Mar
					Freq Offse OH

Antenna D

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## Conducted Bandedge Average, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3







			).00 dBm	Ref 0.	D dB/dlv
					eg 100
	W 100 Hz	#VB	Hz 1z	W 1.0 MH	Res Bi
	-74.04 dB	50 00 GHz	5,3		
TUNCTO		W 100 Hz -74 04 dBn	#VBW 100 Hz 50 00 GHz	z #\BW 100 Hz	the seal - N- Y

Antenna C



	00000 GHz PNO: Fail IFGaint inv	Trig: Free Run #Atten: 10 dB		Type: Log-Pwr	06.3250 PM Mar 27, 201 WACE 1 200 THRE DET 2000000	Frequency
ef 0.00 d	Bm			Mkr	1 5.350 00 GH: -72.88 dBn	Auto Tune
						Center Free 5.4050/0000 GHz
						Start Free 5.35000000 GH
					1744	Stop Free 5.48000000 GH
	#VB	W 100 Hz		Sweep	Stop 5.46000 GH 858 ms (1001 pts	11.000000 MH
	5 350 00 GHz	72.03 d5m	FUNCTION	PUNCTION WIDTH	PUNCTION VALUE	Auto Mar
						Freq Offse 0H
	5.4050	1 5.40500000 GHz IRO: 140 IF Gale 180 IF	1 5.405000000 GHz PROFeat Trig Frae Run Recain 1 aw Trig Frae Run Ret 0.00 dBm 0 GHz 0 GHz 2 WBW 100 Hz	1 5.405000000 GHz 100, tent 11 Gale 1 av 11 Gale 1 av	15.405000000 GHz Frig.Free Frig.Free Avg Type: Log-Per   If Gala.1mv Frid.Free Million Million   If Gala.1mv Frid.1mv Sweep Sweep   0 GHz FVBW 100 Hz Sweep Sweep	1 5.405000000 GHz IF Galet Baw Trig Free Run RAtes: 10 dB Avg Type: Leg-Par Mouth Base Trig Free Run 100 mm   IF Galet Baw Trig Free Run RAtes: 10 dB Mkr1 5.350 00 GHz -72.88 dBn   If O .00 dBm -72.88 dBn   0 GHz #VBW 100 Hz Stop 5.46000 GHz Sweep S35 ms (1001 pt)   0 GHz 30 Trig Trig Trig Trig Free Run -72.88 dBn

Antenna D

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#### Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1



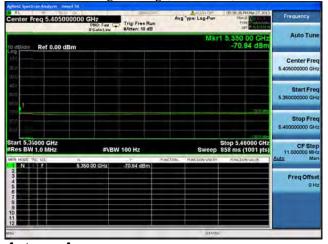
Avg Type: Log-P Frequency Freq 5 40 Trig: Free Run Auto Tur 70.42 Ref 0.00 dBm Center Fre 5.40500000 G Start Fre 6.3 Stop Fre 000000 G tart 5.35000 GHz Res BW 1.0 MHz Stop 5.46000 GH Sweep 858 ms (1001 pt CF St #VBW 100 Hz Freq Offse

Antenna A

Antenna B

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#### Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A

Antenna B

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## rilinin cisco

## Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1



Center Freq 5.40500000	0 GHz	ree Run 10 dB	Avg Type: Log-Pwr	06-53:15 PM Mar 27, 2013 TRACE TYPE DET PLOTATION	Frequency
o dBirdie Ref 0.00 dBm			Mkr	-74.28 dBm	Auto Tune
*g mm mm sm					Center Freq 5.405000000 GHz
					Start Freq 5.35000000 GHz
າເພ ທານ ກາຍ					Stop Freq 5.4600/0000 GHz
Start 5.35000 GHz Res BW 1.0 MHz	#VBW 100 H	PUNCTIO	Sweep	Stop 5,46000 GHz 858 ms (1001 pts) reaction value	CF Step 11.010000 MHz Auto Man
234566/788910					Freq Offset 0 Hz
12			STATIS		

Antenna B

Antenna A
-----------

Frequency	06-56-43 PM Har 27, 2013 TRACE DE CONTRACTOR	Vpe: Log Pwr	un .	Trig: Free #Atten: 10		0 GHz PNO: Fas	4050000		
Auto Tun	10 dB/dly Ref 0.00 dBm -74.41 dBm								
Center Fred 5.405000000 GH:									10.0 10.0
Start Free 5.35000000 GH									#10 6310 6110
Stop Free 5.46000000 GH	-1165								
CF Step 11.000000 MH Auto Ma	Stop 5,46000 GHz 858 ms (1001 pts) /Direction value.	Sweep	PUNCT	100 Hz		#\ 350.00 GHz	Hz		R0
Freq Offse 0 H				-74,41 dB	*	350 00 GH2			23466
									7 9 9 10 11 12
-		STATUS							10

Antenna C

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#### Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2



Center F	000000 GHz PNO: Fail	Trig Free Run	Avg Type: Leg-Pwr	06:12:00 PM Mar 27, 2013 TARE 1 TUPE DET PURCH	Frequency
0 dB/die	Auto Tune				
19 100 100 100					Center Freq 5.40500000 GHz
00 20 100					Start Free 5.35000000 GHz
110 110 15 e					Stop Freq 5.46000000 GHz
	#VB 5 350 00 GHz	W 100 Hz -70 42 d3m	Sweep action Panetion-wepth	Stop 5.46000 GHz 858 ms (1001 pts) runction value	CF Step 11.010000 MH: Auto Mar
2345578901					Freq Offsel 0 Hz
2			TATI		

Antenna A

Center Freq 5.40500	0000 GHA PNO Fest La		Avg "ype: Log-Per	06-15-36-74 Har 27, 2013 TRACE 10 2013 TVRE 2017	Frequency
n dBildiy Ref 0.00 dB	Auto Tur				
100 300 300					Center Fred 5.405000000 GH
40.0 500 000					Start Free 5.35000000 GH
					Stop Fre 5.45000000 GH
Start 5.35000 GHz Res BW 1.0 MHz	#\BV	V 100 Hz	Sweep	Stop 5,46000 CHz 858 ms (1001 pts)	CF Ste 11.000000 MH
AND AND INC.	5.350 00 GHz	7 70 -73,56 dBm	NCTION PLINCTION-WADTP	FUNCTION VALUE	Auto Ma
3 4 5 6 <b>6</b>					Freq Offse 0 H
7 8 9 10					
50			ETATLE		-

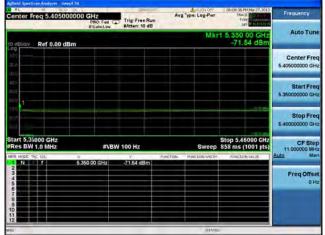
Antenna C

Antenna B

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#### Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3



Center Fr		00000 GHz PNO; Fast IFGaist nw	Trig Free Run	Avg Type: Leg-Pwr	DE:12:00 PM:Mar 27, 2013 THACE R STORE THRE DET P	Frequency
0 dB/div	Ref 0.00 d	Bm		Mki	1 5.350 00 GHz -70.42 dBm	Auto Tune
9 100 100						Center Free 5.4050/0000 GHz
						Start Free 5.35000000 GH
						Stop Free 5.4600/0000 GH
tart 5.35 Res BW	1.0 MHz	#VE 5 350 00 GHz	W 100 Hz -70 42 d3m	Sweep Notion Punction-wepth	Stop 5,46000 GHz 858 ms (1001 pts) PUNCTION VALUE	CF Step 11.010000 MH Auto Mar
234557890		5,00,40,012				Freq Offse 0 Ha
1				ITATO		

Antenna A

Center Freq 5.405000	000 GH2 PRO Fast Trig: Free Run FGaint av	Avg "ype: Log-Per	06:15:36 PM Har 27, 2013 19:428 19:55 19:56 19:55 19:56 19:55 19:56 19:55	Frequency
D dBildiv Ref 0.00 dBn	n	Mki	1 5.350 00 GHz -73.56 dBm	Auto Tune
				Center Fred 5.405000000 GH
40.0 500 000				Start Free 5.350000000 GH:
				Stop Free 5.46000000 GH
Start 5,35000 GHz Res BW 1.0 MHz	#\BW 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Step 11.000000 MH Auto Mar
2 N 5 T 2 3 4 5	5.350 00 GHz -73.56 dBm			Freq Offse 0 H
6 7 9 9 10 11				
12 <b>23 24 24 2</b>		ETATU	6	

Antenna C

Antenna B

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### Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1







enter Freq 5.405000		Trig: Free Run #Atten: 10 dB	Avg "ype: Log-Per	07:38:33 PM Har 27, 2013 The 2 1 2 2 1 Fyre per 2 10 2 1 1	Frequency
o dBiday Ref 0.00 dBn	1		Mk	r1 5.350 00 GHz -76.75 dBm	Auto Tuni
					Center Fre 5.405000000 GH
410 510					Start Fre 5.350000000 GH
					Stop Fre 5.460000000 GH
tart 5.33000 GHz Res BW 1.0 MHz		W 100 Hz		Stop 5,46000 GHz 858 ms (1001 pts)	CF Ste 11.000000 MH
2	5.350 00 GHz	-76.75 dBm	FUNCTION FUNCTION-WIDTH	FUNCTION VALUE	
					Freq Offse

Antenna C



#L = 150% DC		STATE INT	\$40010P	07:41:58 PM Mar 27, 2013	Frequency
enter Freq 5.405000000 G	NO: Fast	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	THACE TO A REAL	
dBidle Ref 0.00 dBm			Mki	1 5.350 00 GHz -76.66 dBm	Auto Tune
49 10 10					Center Freq 5.4050/0000 GHz
					Start Free 5.35000000 GHz
					Stop Free 5.460090000 GH:
art 5.35000 GHz Res BW 1.0 MHz	#VBW			Stop 5,46000 GHz 858 ms (1001 pts)	
30L × 7 5.3501			SWEED	PUNCTION VALUE	11.010000 MHz <u>Auto</u> Man Freq Offset 0 Hz

Antenna D

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# rilinini cisco

#### Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2







PNO: Fast	Trig: Free Run #Atten: 10 dB	Avg "ype: Log-Per	06/56/437M Har 27, 2013 TRACE D 20 TYPE 2017 D 100 D 100	Frequency				
o dBidy: Ref 0.00 dBm -74.41 dBm -74.41 dBm								
				Center Fre 5.405000000 GH				
				Start Fre 5.350000000 GH				
			- Ante	Stop Fre 5.46000000 GH				
#NE				CF Ste 11.000000 MH Auto Ma				
5.350 00 GHz	-74.41 dBm			Freq Offse 0 H				
	PRO-Fail IF Gaint av	PHO Fac C Ing Free Kon PECandow Action to dB Em Em EM 100 Hz EN 100 Hz	Hito Faul → Trig Free Run BrGalos av BrG ■ BrG ■	Hito Faul → Trig Free Run BrG abd uv BrG abd uv Aften: 10 dB Mkr1 5, 350 00 CH2 Brg -74,41 dBm -74,41 dBm				

Antenna C



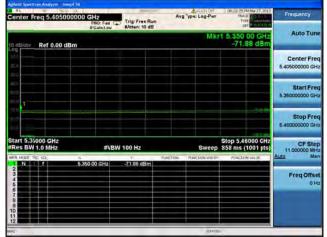
PNO; Fast	Trig:Free Run #Atten: 10 dB	Avg Type: Log-Pwr	07:00:06 FMMar 27, 2013 TRACE DETERMINE TUPE	Frequency
		Mkd	2 5.433 16 GHz -74.62 dBm	Auto Tune
				Center Fred 5.4050/0000 GHz
				Start Free 5.35000000 GH
		\$ <sup>2</sup>		Stop Free 5.46000000 GH:
#VB	W 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Step 11 DI0000 MH
350 00 GHz 433 16 GHz	-74.17 d3m -74.52 d3m	Action Parction work	PUNCTION VALUE	Auto Mar Freq Offse 0 H
	D GH2 PHOF Fail IFGalation	Trigi Pres Ran BOaledaw Trigi Pres Ran BOaledaw Trigi Pres Ran EAtten: 10 dB	PID: See Trig: Fre Run PID: S	0 GHz Trig:Free Run Bit Ante: 19 dB Avg Type: Leg-Pwr Bit Sate: 19 dB Tric: Free Run Bit Sate: 19 dB   Mkr2 5.443 21 B GHz Mkr2 5.443 21 B GHz   Free Run Bit Sate: 19 dB Mkr2 5.443 21 B GHz   Free Run Bit Sate: 19 dB Mkr2 5.443 21 B GHz   Free Run Bit Sate: 19 dB Mkr2 5.443 21 B GHz   Free Run Bit Sate: 19 dB Mkr2 5.443 21 B GHz   Free Run Bit Sate: 19 dB Mkr2 5.443 21 B GHz   Free Run Bit Sate: 19 dB Mkr2 5.443 21 B GHz   Free Run Bit Sate: 19 dB Stop 5.46000 GHz   Free Run Bit Sate: 2417 dBmit Free Run Patchar

Antenna D

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#### Conducted Bandedge Average, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3







enter Freq 5.40500		Trig: Free Run #Atten: 10 dB	Avg "ype: Log-Pwr	OK.29/25 PM Har 27, 2013 TRACE II 22 Part II 20 COMPANY	Frequency
D dBidty Ref 0.00 dE	3m		Mk	-74.04 dBm	Auto Tuni
100 100 100					Center Fre 5.405000000 GH
41.0 510 010					Start Fre 5.350000000 GH
					Stop Fre 5.450000000 GH
tart 5.35000 GHz Res BW 1.0 MHz	#VE	3W 100 Hz		Stop 5,46000 GHz 858 ms (1001 pts)	CF Ste 11.000000 MH Auto Ma
en woe the set	5.350 00 GHz	-74.04 dBm	FUNCTION - FUNCTION WIDTH	FUNCTION VALUE	FreqOffse
					10
			2TAT		

Antenna C

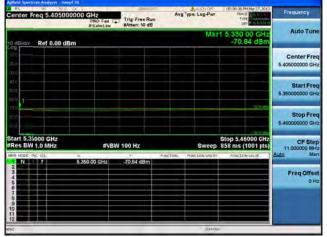


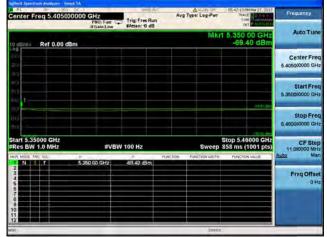
enter Freq 5.40500000		Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	06.32:50 FMM Mar 27, 2013 THREE THREE DET 6	Frequency
dB/die Ref 0.00 dBm			Mki	1 5.350 00 GHz -72.88 dBm	Auto Tune
					Center Fred 5.4050/0000 GHz
					Start Free 5.35000000 GH
				-1300	Stop Free 5.46000000 GH
art 5.35000 GHz tes BW 1.0 MHz	#VBV	V 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Ster
N 1 1 1 15	350 00 GHz	-72.08.d5m	UNCTION PUNCTION WETH	PUNCTION VALUE	Auto Mar
					Freq Offse

Antenna D

Page No: 240 of 321

#### Conducted Bandedge Average, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1



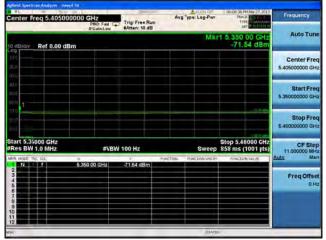


Antenna A

Antenna B

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#### Conducted Bandedge Average, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1



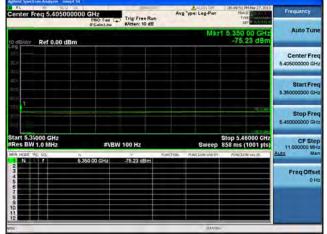
Antenna B

Center Freq 5.405000	000 GHz	rig: Free Run Atten: 10 dB	Avg "ype: Log-Per	06:15:36.74 Har 27, 2013 TRACE DEPARTMENT TYPE DET DESCRIPTION	Frequency
D dB/dry Ref 0.00 dBr	Auto Tune				
100					Center Fred 5.405000000 GH:
41.0 500 600					Start Free 5.35000000 GH
					Stop Free 5.45000000 GH
Start 5,35000 GHz Res BW 1.0 MHz	#\BW 10		Sweep	Stop 5,46000 CHz 858 ms (1001 pts)	CF Step 11.000000 MH Auto Ma
		13.56 dBm	CION CONCERNMENT	PUNCTER WEST	Freq Offse
4 6 7 9 9 10					OH
			ZTĂNIE		-

Antenna C

Page No: 242 of 321

## Conducted Bandedge Average, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1







Frequency	OLDERASTM Har 27, 2013 TRACE A STATE TYPE DET STATE	Type: Log.Pwr		Trig: Free Ru #Atten: 10 dE			5.40500		ent
Auto Tu	1 5.350 00 GHz -74.41 dBm	Mkr				,	ef 0.00 dE	div R	D eB
Center Fr 5.405000000 G									eg 130 200
Start Fr 5.350000000 G									
Stop Fr 5.46000000 G	-185								
CF St 11.000000 M Auto M	Stop 5,46000 CHz 858 ms (1001 pts)	Sweep Function with	PLACTOR	100 Hz	NBW	#M	MHz	5.3500 BW 1.0	Res
Freq Offs 0				-74,41 dBm	2	5.350 00 GHz			23456
									799012
-	0	STATUS	-	-		_			12

Antenna C



enter Freq 5.405000000	GHZ PHO: Fast G	Trig: Free Run #Atten: 10 dB	Avg Type: Log-Pwr	07:00:06 FM Mar 27, 2013 1944CE 11/07 061	Frequency
o dB/die Ref 0.00 dBm			Mk	2 5.433 16 GHz -74.62 dBm	Auto Tune
					Center Fred 5.4050/0000 GHz
					Start Free 5.350010000 GH
					Stop Free 5.46000000 GH:
tart 5.35000 GHz Res BW 1.0 MHz	#VB	W 100 Hz	Sweep	Stop 5,46000 GHz 858 ms (1001 pts)	CF Step 11.010000 MH
	0 00 GHz 3 16 GHz	-74.17 dBm -74.52 dBm	UNCTION PERCENCING WEETH	PUNCTION VALUE	Auto Mar Freg Offse
455070000					OH

Antenna D

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#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, Non HT/VHT80, 6 to 54 Mbps

Antenna A

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#### PHO; Fast Trig: Free Run RAtten: 10 dB Frequency Avg Type: Log-P r Freg 5.40500 Auto Tur Ref 0.00 dBm Center Fre 5.40500000 GH Start Fre Stop Fre 00000 GH ٠ CF St www. Hay no provide the second Freq Offs 01 Stop 5.46000 Sweep 1.00 ms (601 #VBW 1.0 MH: 1.0 M

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### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, Non HT/VHT80, 6 to 54 Mbps







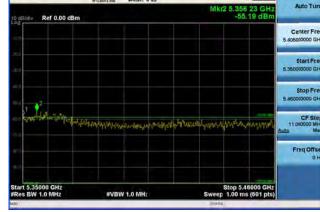
Page No: 245 of 321

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Frequency



#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, Non HT/VHT80, 6 to 54 Mbps

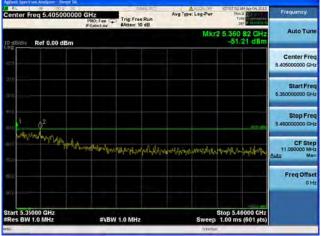


Avg Type: Log-Pw

nter Freq 5.40500000 GHz Pito: Fat Trig: Free Run Pito: Fat A

Antenna B

Antenna A
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Antenna C

Page No: 246 of 321

# rinin cisco

## Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, Non HT/VHT80, 6 to 54 Mbps







Antenna C







Antenna D

Page No: 247 of 321



#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1



Antenna A

Page No: 248 of 321



Frequency

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Center Fre

Start Fre

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Freq Offse

Stop 5.46000 GHz 1.00 ms (601 pts

Avg Type: Log-P

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Trig: Free Run

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#VBW 1.0 MH;

#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1





#Res BW 1.0 MHz teo Antenna B

Freq 5 405

Ref 0.00 dBm

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#### Avg "ype: Log.P Frequency ter Freq 5.405000000 GHz Trig: Free Run Auto Tur -47.57 dB Ref 0.00 dBm Center Fre Start Fr Stop Fre $\phi^2$ CF Ste the physical and the state of the 11.0 10 Freq Offs OF Stop 5.46000 GHz 1.00 ms (601 pts) 000 GH2 #VBW 1.0 MHz Antenna A



Antenna B

Page No: 250 of 321

## Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2

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#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1



Antenna B





Antenna C

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#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2





Antenna A



Antenna C

Antenna B

Page No: 252 of 321



#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3





Antenna B





Antenna C

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# ilinin cisco

## Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1







Antenna C







Antenna D

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#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2



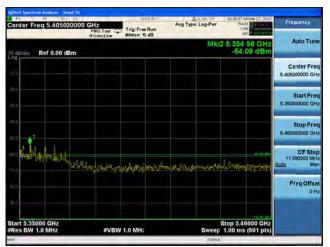




Antenna C







Antenna D

Page No: 255 of 321

# ilinin cisco

## Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3







Antenna C







Antenna D

Page No: 256 of 321

## rilinin cisco

Frequency

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Avg Type:

Trig Free Run RAttan: 10 dB

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#VBW 1.0 MH

0 GHz

#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1

reg 5 405

Ref 0.00 dBm

ACH VINNING MALLA







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# cisco







Antenna B

Antenna A

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## ilinin cisco

#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1





Antenna A



Antenna C

Antenna B

Page No: 259 of 321

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Frequency

#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2

Freq 5 405





Avg Type:

Antenna B





Antenna C

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## iliilii cisco

### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3





Antenna B





Antenna C

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## riluilu cisco

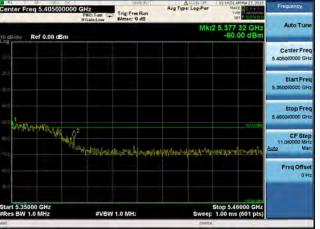
#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1







Antenna C







Antenna D

Page No: 262 of 321

## ilinin cisco

#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2







Antenna C







Antenna D

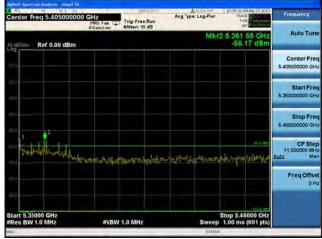
Page No: 263 of 321

## riliilii cisco

#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3







Antenna C







Antenna D

Page No: 264 of 321

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Frequency

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## Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1





Antenna B

reg 5 405

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#VBW 1.0 MH;

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## rilinini cisco

#### Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1





Antenna B





Antenna C

Page No: 266 of 321

# riluilu cisco

## Conducted Bandedge Peak, 5260 / 5280 / 5300 / 5320 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1







Antenna C







Antenna D

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#### Conducted Bandedge Peak, 5300 / 5320 MHz, Non\_HT/VHT40, 6 to 54 Mbps

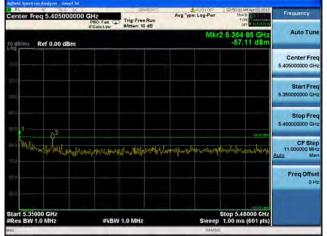




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# cisco

## Conducted Bandedge Peak, 5300 / 5320 MHz, Non HT/VHT40, 6 to 54 Mbps



Antenna A

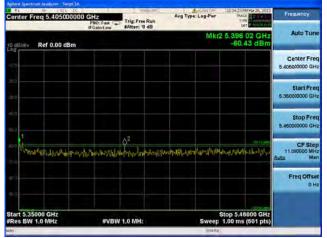


Antenna B

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#### Conducted Bandedge Peak, 5300 / 5320 MHz, Non HT/VHT40, 6 to 54 Mbps



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Antenna B

Antenna /	4
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Antenna C

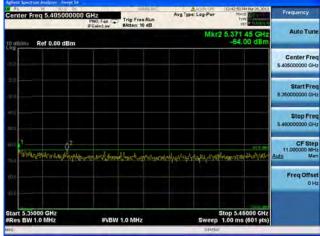
Page No: 270 of 321

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## Conducted Bandedge Peak, 5300 / 5320 MHz, Non HT/VHT40, 6 to 54 Mbps



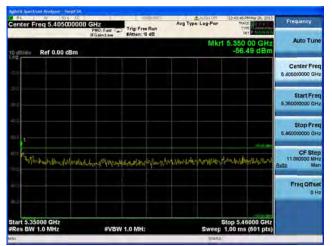




Antenna C





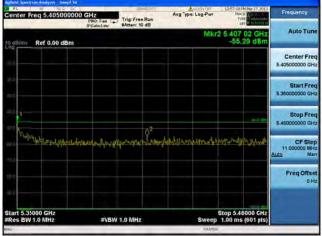


Antenna D

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#### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1



Antenna A

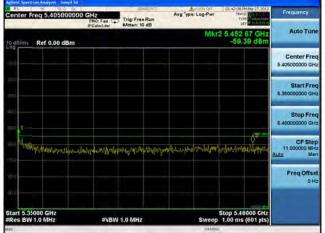
Page No: 272 of 321

Frequency

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Center Fre

### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1







Avg Type: Log-P

Antenna B

r Freg 5.405

Ref 0.00 dBm

0 GHz

Trig: Free Run

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Frequency

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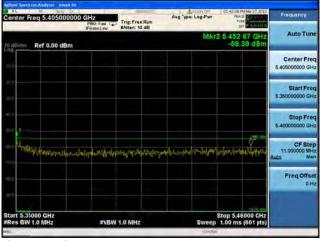
Center Fre

Start Fr

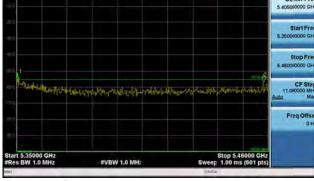
Stop Fre

Freq Offse

M



#### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2



Trig: Free Run

Avg Type: Log-Pw

Antenna B

ter Freq 5.405000000 GHz

Ref 0.00 dBm



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# Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1



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Antenna B

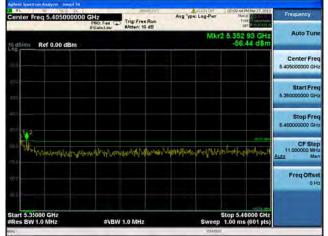




Antenna C

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### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2





Antenna A

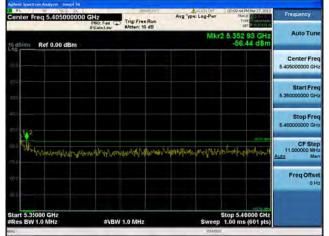


Antenna C

Antenna B

Page No: 276 of 321

### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3









Antenna C

Antenna B

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### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1







Antenna C







Antenna D

Page No: 278 of 321

### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2



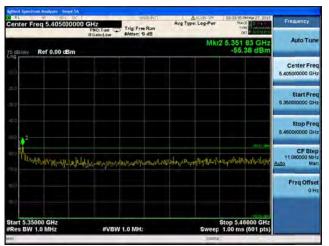




Antenna C







Antenna D

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### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3



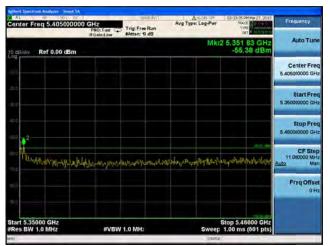




Antenna C





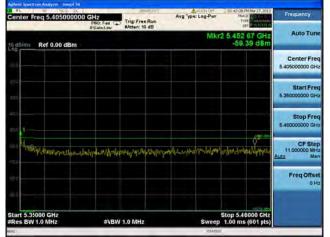


Antenna D

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### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1



Antenna A



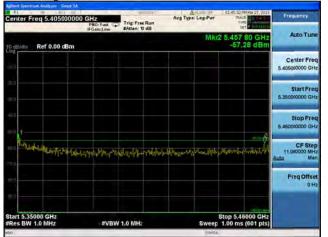
Antenna B

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#### Avg "ype: Log-P Frequency ter Freq 5.405000000 GHz Trig: Free Run Auto Tur 452 67 G -59.39 dB Ref 0.00 dBm Center Fre Start Fr Stop Fre CF Ste 11.00 Freq Offs 01 Stop 5.46000 GHz 1.00 ms (601 pts) =VBW 1.0 MHz

Antenna A



Antenna B

Page No: 282 of 321

#### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2





Antenna B

Antenna .	A
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Center Freq 5.40500000	GH2 PNO: Feel C Trig: Free Run If Gain: Low #Atten: 10 dB	Avg ype: Log-Pwr Third Date of the state	Frequency
o dBiow Ref 0.00 dBm		Mkr2 5.435 80 GH -62.12 dBn	
e) ()			Center Fre 5.405000000 GH
200			Start Fre 5.35000000 GH
0.0 20			Stop Fre 5,46000000 GH
Wuthanthann	elesten will an open had a filler	หร้ามกรี่งระบบครั้งสาวารเล	CF Ste 11.000000 Min
90 U			Freq Offs
Start 5.35000 GHz Res BW 1.0 MHz	#\BW 1.0 MHz	Stop 5.46000 GH Sweep 1.00 ms (601 pts	z

Antenna C

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## Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1

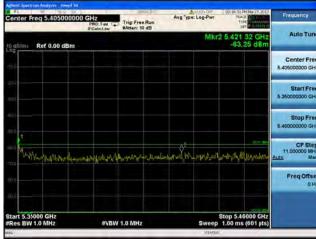


#### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2





Antenna A

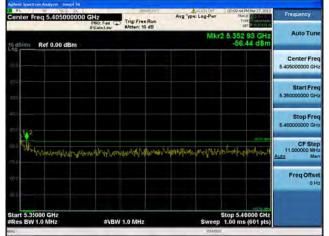


Antenna C

Antenna B

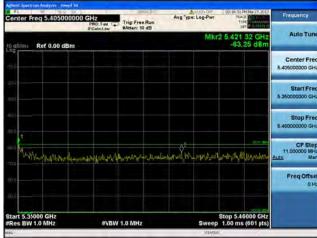
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### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3





Antenna A



Antenna C



Page No: 285 of 321

### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1







Antenna C







Antenna D

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### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



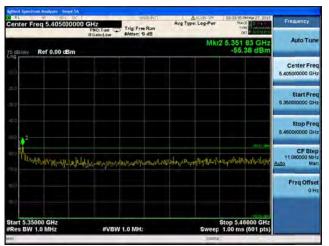




Antenna C







Antenna D

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### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3



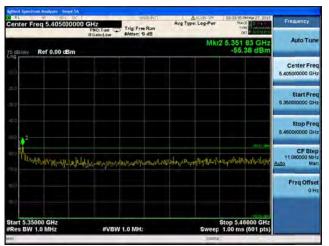




Antenna C







Antenna D

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Ava

O GHZ PNO: Fast - Trig: Free Run EAtten: 10 dB

#VBW 1.0 MHz



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### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1

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Frequency

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Stop Fre

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Start 5.35000 GHz #Res BW 1.0 MHz

Sty Angerral

reg 5 405

Ref 0.00 dBm

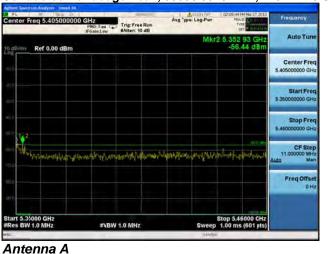


Antenna B

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Frequency



### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



Trig: Free Run

Avg Type: Log-Pw

Antenna B

ter Freq 5.405000000 GHz

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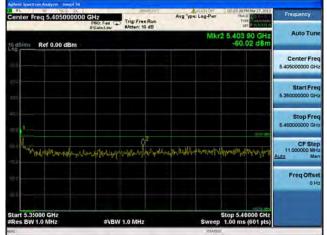
Frequency	10216-31746 Har 27, 2013 1984 2	Avg 'ype: Log-Per	Trig: Free Run #Atten: 10 dB	PNO: Feat La	Center Freq 5.4050000
Auto Tune	5.421 32 GHz -63.25 dBm	Mkr	eAtten: 10 dtj	IFGainter	o dElew Ref 0.00 dBm
Center Freq 5.40500000 GHz					n) ()
Start Freq 5.35000000 GHz					20.0
Stop Freq 5.46000000 GHz					0.0 500
CF Step 11.000000 MHz Auto Mar	ontrythyll Warehore	mal 19 pprobab	wynistrate, Manulin	molynomitrypolypy	and West Harlander
Freq Offset 0 Ha					00.0
	Stop 5.46000 GHz 1.00 ms (601 pts)	Sweep	1.0 MHz		Start 5.35000 GHz Res BW 1.0 MHz
-		BRATUR			nic .

Antenna C

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## riliii cisco

### Conducted Bandedge Peak, 5300 / 5320 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



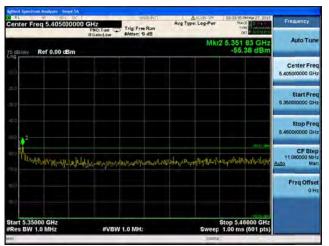




Antenna C





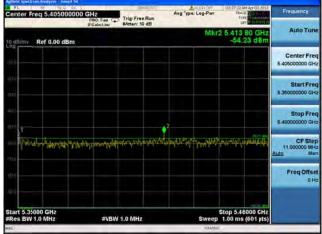


Antenna D

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### Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps



Antenna A

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Frequency

Auto Tur

Center Fre 5.40500000 GH

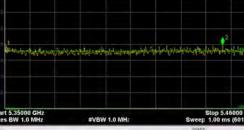
Start Fre

Stop Fre 46000000 GH CF Ste 11.000000 HP

Freq Offs

## Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps





PRO: Fast Trig: Free Run If Gain Law #Atten: 10 dB Avg Type: Log-P

Antenna A

Antenna B

r Freq 5.40500

Ref 0.00 dBm

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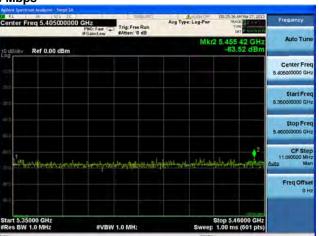
#### Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps



Center Freq 5.40500000	CHE PNO: Feel Trig: Free Run #Gaint av #Atten: 10 dB	Avg Type: Log-Pwr	0528-31 AM Har 27, 2013 TRACE	Frequency
D dB/dly Ref 0.00 dBm		Mkr	2 5.440 93 GHz -63.93 dBm	Auto Tune
				Center Free 5.405000000 GH
210 300				Start Free 5.35000000 GH
400				Stop Free 5.46000000 GH
าม 3 การที่สามาร์ได้ระหัวตะในประเทศ	halpital-scienteral alters	tuster haard mathematic	2 abhreudeabar	CF Step 11.000000 MH Auto Me
900				Freq Offse 0 H
Start 5.35000 GHz #Res BW 1.0 MHz	#\BW 1.0 MHz	Sweep	Stop 5.46000 GHz 1.00 ms (601 pts)	

Antenna C

Antenna A



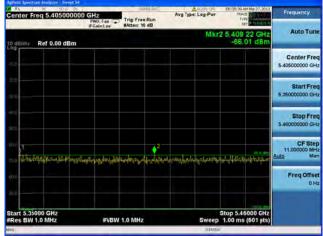
cisco

Antenna B

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#### Frequency PHO: Fast C+ Trig: Free Run RAtten: 10 dB Auto Tur -67,98 Ref 0.00 dBm Center Fre 5 40500000 G Start Fre Stop Fre CF Sta a thread on Freq Offse Stop 5.460 5.33000 GH BW 1.0 MHz #VBW 1.0 MHz Swe





Antenna C



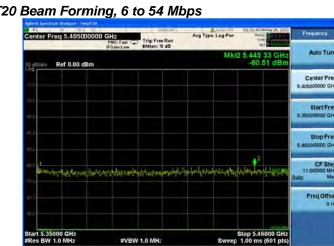




Antenna D

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## Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps



### Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps

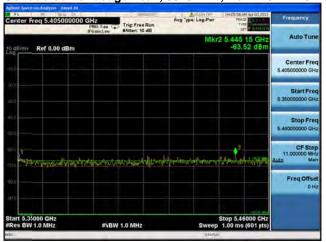


Antenna A

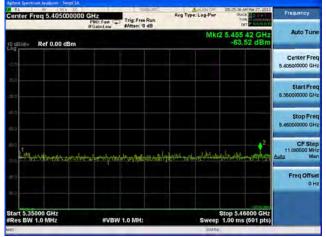
Antenna B

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#### Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps



Antenna B

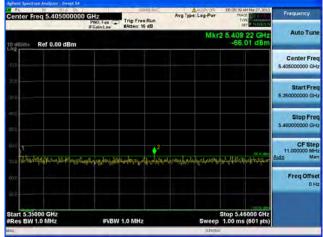
nter Freq 5.40500000 G	HZ 1907 Feel Trig: Free Run Gain Law #Atten: 10 dB	Avg Type: Log-Pwr	052531 AMHar 27, 2013 TRACE Type Det P104/2014	Frequency
dB/dly Ref 0.00 dBm		Mkr	2 5.440 93 GHz -63.93 dBm	Auto Tuni
				Center Free 5.405000000 GH
n				Start Free 5.35000000 GH
0				Stop Fre 5.460000000 GH
า มีสุขส์สารควาศ (สาวห์โครไปประกังสารสะก	tereset in the second	tuction transition to the state of the	2. Admenutional-er	CF Ste 11.000000 MH <u>Auto</u> Ma
0				Freq Offse 0 H
art 5.35000 GHz es BW 1.0 MHz	#VBW 1.0 MHz		Stop 5.46000 GHz 1.00 ms (601 pts)	
	#VBW 1.0 MHz		1.00 ms (601	

Antenna C

Page No: 297 of 321

#### Frequency PHO: Fast C+ Trig: Free Run RAtten: 10 dB Auto Tur -67,98 ( Ref 0.00 dBm Center Fre 5 40500000 G Start Fre Stop Fre CF Sta a thread on Freq Offse Stop 5.460 5.33000 GH BW 1.0 MHz #VBW 1.0 MHz Swe

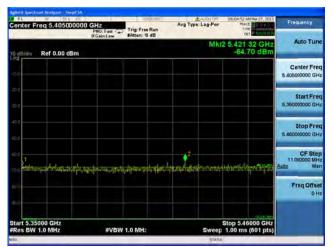




Antenna C







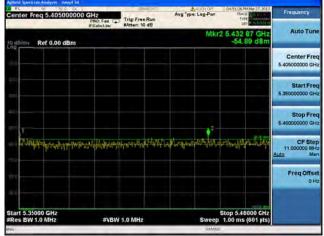
Antenna D

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## Conducted Bandedge Peak, 5320 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps



#### Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1





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## riluilu cisco

Frequency

Auto Tur

Center Fre

Start Fre

Stop Fre

CFSI

Freq Offse

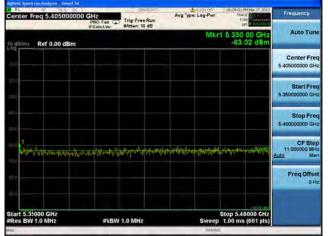
Avg Type:

William Strathanta

Sween

Stop 5.46000 GHz 1.00 ms (601 pts

### Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1







Mr. Carly Charge

r Freg 5.405

Ref 0.00 dBm

0 GHz

Trig: Free Run #Atten: 10 dB

#VBW 1.0 MH:

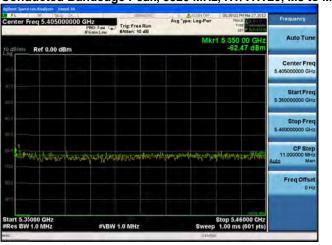
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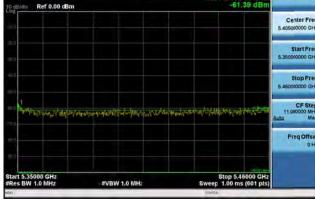
Frequency

Auto Tu

01



#### Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



Avg Type: Log-Pw

350 00 ( -61.39 c

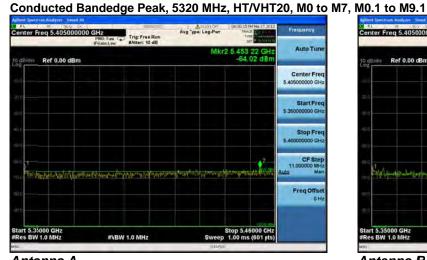
nter Freq 5.405000000 GHz PRO-Test Addam 7 dB

Antenna B



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#### iter Freq 5.40500000 GHz Pito Fac Adda V dB Avg Type: Log-Pw Frequency Auto Tu 445 88 Ref 0.00 dBm Center Fre Start Fr Stop Fr CF Ste ٠ 11.0 Freq Offse 000 GHz Stop 5.46000 GHz 1.00 ms (601 pts #VBW 1.0 MHz

Antenna B

AI	π	eı	Ш	la	А	

Center Freq 5.40500000	GHZ Pho: Feat	Trig: Free Run EAtten: 10 dB	Avg Type: Log-Pwr	0657:07 944 Mar 27, 2013 1992 2 1994 2 1994 2 1994 2 1995 2014	Frequency
o gBiew Ref 0.00 dBm			Mkr	2 5.405 55 GHz -62.97 dBm	Auto Tune
mi ()					Center Free 5.405000000 GH
200					Start Free 5.35000000 GH
-)() 200					Stop Free 5.46000000 GH
and a start property and a start	zijind yn dryf yw	2 mJaftapaan	upprintellanimentra	lipseringed spec	CF Step 11.000000 MH Auto Ma
00.0					Freq Offse 0 H
Start 5.33000 GHz #Res BW 1.0 MHz	#\BW	1.0 MHz	Sweep	Stop 5.46000 GHz 1.00 ms (601 pts)	

Antenna C

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### Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2





Antenna A



Antenna C

Antenna B

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### Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3





Antenna A



Antenna C

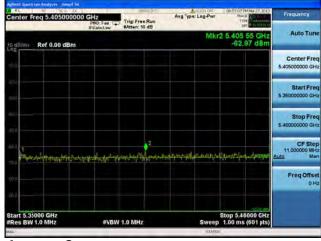
Antenna B

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### Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1







Antenna C







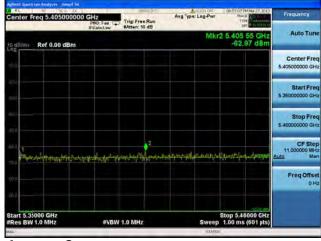
Antenna D

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### Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



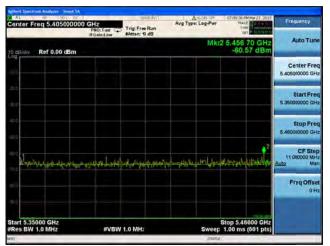




Antenna C







Antenna D

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### Conducted Bandedge Peak, 5320 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3







Antenna C







Antenna D

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### Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1

63 02

Stop 5.46000 GH

Sween

Frequency

Auto Tur

Center Fre

Start Fre

Stop Fr

CF St

Freq Offse

Antenna A

a 5 405

Ref 0.00 dBm

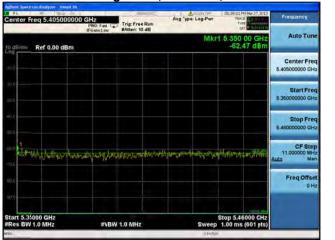
0 GHZ PRO: Fast - Trig: Free Run sAtten: 10 dB

#VBW 1.0 MHz

Antenna B

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#### Avg Type: Log-Pw Frequency er Freg 5.405000000 GHz Trig: Free Run Auto Tu 350 00 -61.39 ( Ref 0.00 dBm Center Fre Start Fr Stop Fre CF Ste warder-ran and the higher a ray of the ra-What we what augurrad Million of Long West Freq Offse OF Stop 5.46000 GHz 1.00 ms (601 pts 000 GHz 1.0 MHz #VBW 1.0 MHz

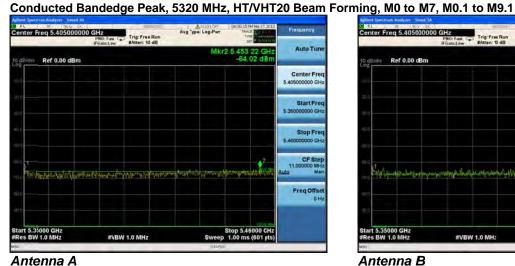
Antenna B

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#### Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2

Antenna A

## որոր cisco





Antenna B





Antenna C

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Frequency

Auto Tur

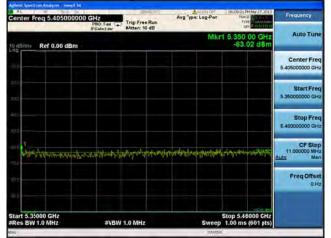
Center Fre

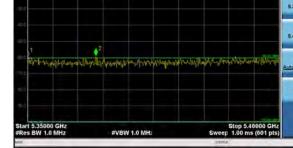
Start Fre

Stop Fre

Freq Offse

#### Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2





Trig: Free Rur

Avg Type: Log-





Antenna C

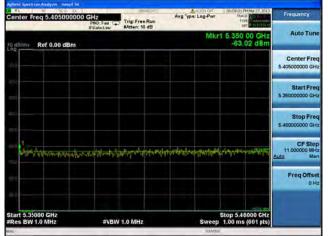
Antenna B

Ref 0.00 dBm

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#### Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3





Antenna A

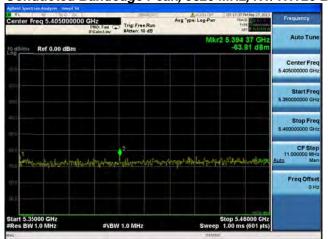


Antenna C

Antenna B

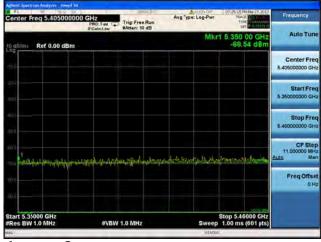
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Antenna C







Antenna D

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#### Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2







Antenna C







Antenna D

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#### Conducted Bandedge Peak, 5320 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3





Antenna C



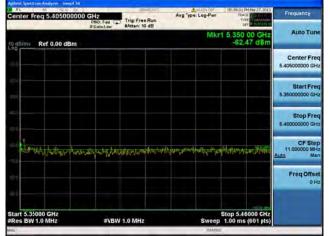




Antenna D

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### Conducted Bandedge Peak, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1

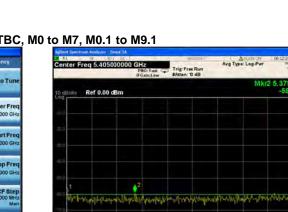


Antenna A



Antenna B

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#VBW 1.0 MHz

cisco

Frequency

Auto Tu

Center Fre

Start Fr

Stop Fre

CF Ste

Freq Offse

Stop 5.46000 GHz 1.00 ms (601 pts

#### Conducted Bandedge Peak, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1





PNO: Feat Trig: Free Rain	Avg 'ype: Log-Pwr	06:16:01 PM Mar 27, 2013 Trans Trans Data	Frequency
	Mkr	2 5.433 97 GHz -62.31 dBm	Auto Tun
			Center Fre 5.405000000 GH
			Start Fre 5.350000000 GH
			Stop Fre 5.46000000 G
ining the state of the second state of the sec	2 patrice philosoful applies	halfertungelen til för	CF Str 11.000000 M Auto M
			Freq Offs 01
#\BW 1.0 MHz	Sweep	Stop 5.46000 GHz 1.00 ms (601 pts)	
	GHZ Prior, Fau Britans and Britans and Attent 19 dB	GHE MOL Care Trie Free Run Broad and the Trie Free Run Broad and the Trie Run Broad and the	GHz Diffo. Fair Ling: Fire Ran Break to 40 Mkr.2.5.433 97 GHz -62.31 dBm -62.31 dBm

Antenna C

Start 5.35000 GHz #Res BW 1.0 MHz Antenna B

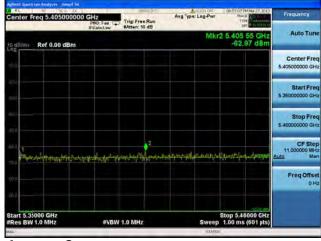
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## rilinin cisco

### Conducted Bandedge Peak, 5320 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1







Antenna C







Antenna D

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## Maximum Permissible Exposure (MPE) Calculations

15.407: U-NII devices are subject to the radio frequency radiation exposure requirements specified in Sec. 1.1307(b), Sec. 2.1091 and Sec. 2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a ``general population/uncontrolled" environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

Given

 $E=\sqrt{(30^{*}P^{*}G)/d}$  and  $S=E^{2}/3770$ 

where

E=Field Strength in Volts/meter P=Power in Watts G=Numeric Antenna Gain d=Distance in meters S=Power Density in mW/cm^2

Combine equations and rearrange the terms to express the distance as a function of the remaining variables:

```
d=√((30*P*G)/(3770*S))
```

Changing to units of power in mW and distance in cm, using:

```
P(mW)=P(W)/1000 d(cm)=100*d(m)
```

yields

d=100\*√((30\*(P/1000)\*G)/(3770\*S)) d=0.282\*√(P\*G/S)

where

d=Distance in cm P=Power in mW G=Numerica Antenna Gain S=Power Density in mW/cm^2

## Substituting the logarithmic form of power and gain using:

 $\begin{array}{c} P(mW)=10^{(P(dBm)/10)} & G(numeric)=10^{(G(dBi)/10)} \\ \\ \mbox{were} & \\ d=0.282^{*}10^{((P+G)/20)/\sqrt{S}} & Equation (1) \\ \\ \mbox{s=((0.282^{*}10^{((P+G)/20))/d})^{2}} & Equation (2) \\ \\ \mbox{where} & \\ d=MPE \mbox{distance in cm} \\ P=Power \mbox{in dBm} \\ G=Antenna \mbox{ Gain in dBi} \\ S=Power \mbox{ Density in mW/cm^{2}} \end{array}$ 

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Equation (1) and the measured peak power are used to calculate the MPE distance. Note that for mobile or fixed location transmitters such as an access point, the minimum separation distance is 20 cm even if the calculations indicate that the MPE distance may be less.

S=1mW/cm<sup>2</sup> maximum. The highest supported antenna gain is 13 dBi. Using the peak power levels recorded in the test report along with Equation 1 above, the MPE distances are calculated as follows.

			Peak				
		Power	Transmit	Antenna	MPE		
Frequency			Power	Gain	Distance	Limit	Margin
(MHz)	(Mbps)	(mW/cm^2)	(dBm)	(dBi)	(cm)	(cm)	(cm)
5260/5280	M8	1	14.3	13	6.54	20	13.46

MPE Calculations

To maintain compliance, installations will assure a separation distance of at least 20cm.

Using Equation 2, the MPE levels (s) at 20 cm are calculated as follows:

				Peak				
			MPE	Transmit	Antenna	Power		
Free	quency	Bit Rate	Distance	Power	Gain	Density	Limit	Margin
(M	/Hz)	(Mbps)	(cm)	(dBm)	(dBi)	(mW/cm^2)	(mW/cm^2)	(mW/cm^2)
526	0/5280	M8	20	14.3	13	0.11	1	0.89

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#### Appendix C: Test Equipment/Software Used to perform the test

Equip #	Manufacturer	Model	Description	Last Cal	Next Due
CIS049381	Agilent	N9030A	Spectrum Analyzer	28-Aug-12	28-Aug-13

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