Conducted Bandedge Average, 5530 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2



enter Freq 5.4150	00000 GHz PNO: Fast - IFGain:Low	Trig: Free Run #Atten: 4 dB	#Avg Type: RMS Avg[Hold: 100/100	10:02:23 PM May 23, 2014 TRACE 2 2 4 5 Type Notice 1	Frequency
Ref Offset 1 aB/div Ref 0.00 c			Mkr	1 5.460 00 GHz -54.078 dBm	Auto Tune
					Center Freq 5.415000000 GHz
				1	Start Freq 5.370000000 GHz
10 10					Stop Freq 5,46000000 GHz
art 5.37000 GHz Res BW 1.0 MHz R MODE TRC SCL	×		Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Step 9.000000 MHz Auto Man
	5.460 00 GHz	-54.078 dBm			Freq Offset 0 Hz

Antenna A

Center F		000000 GHz PNO: IFGair	Fast +++	Trig: Free R #Atten: 4 dE	tun	#Avg Type: Ri Avg Hold: 100	AS	TRA-	M May 23, 2014	Frequency
0 dB/div	Ref Offset 1 Ref 0.00 d	3.8 dB 1Bm					Mkr		00 GHz 98 dBm	Auto Tune
										Center Free 5.415000000 GH
40.) 604 604										Start Fre 5.370000000 GH
πό 400 400										Stop Free 5.46000000 GH
Start 5.37 #Res BW		-tt	#VBW	100 Hz		Si	weep	Stop 5.4 702 ms (6000 GHz 1001 pts)	CF Step 9.000000 MH
MKR MODE T		× 5,460 00 G	Hz	v 64.598 dBm	FUNCTI	ON FUNCTION	WIDTH	FUNCTIO	IN VALUE	Auto Ma
23456										Freq Offse 0 H
7 8 9 10										
12 							STATUS			

Antenna C

Antenna B

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Conducted Bandedge Average, 5530 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3



enter Freq 5.4150000		Trig: Free Run #Atten: 4 dB	#Avg Type: RMS Avg[Hold: 100/100	09100:08 FM May 23, 2014 TRACE 2 2 4 5 TYPE Det P 1/111/1/11	Frequency
Ref Offset 13.8 a	1 5.460 00 GHz -52.099 dBm	Auto Tune			
10 10					Center Freq 5.415000000 GHz
				Saturda	Start Freq 5.370000000 GHz
10 10					Stop Freq 5,46000000 GHz
Res BW 1.0 MHz	×	100 Hz Y FU -52.099 dBm	Sweep NCTION FUNCTION WOTH	Stop 5.46000 GHz 702 ms (1001 pts)	CF Step 9.000000 MHz Auto Man
N F 33 4 6 6 77 8 99 0 1 2	5.460.00 GH2	52.039 BBM			Freq Offset 0 Hz

Antenna A

Center Fr		000000 GHz PNO: Fast IFGain:Low	Trig: Free Ru #Atten: 4 dB	#Av:	Type: RMS Hold: 100/100	09:07:10 PM May 23, 2014 THACE 2 2 4 TYPE MANAGEMENT DET P MININGEMENT	Frequency
0 dB/div	Ref Offset 1 Ref 0.00	13.8 dB dBm			Mk	1 5.460 00 GHz -51.793 dBm	Auto Tune
100							Center Free 5.415000000 GH
80) 1930 1937							Start Fre 5.370000000 GH
πό ού αφ							Stop Fre 6.460000000 GH
tart 5.37 Res BW		#VI	BW 100 Hz		Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Ste 9.000000 MH
MKR MODE TR		× 5,460 00 GHz	-51.793 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Ma
23456							Freq Offse 0 H
7 8 9 10							
12					STATU		

Antenna C

Antenna B

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Conducted Bandedge Average, 5530 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1







	RF 300 req 5.4150		Trig: Free Run #Atten: 4 dB	#Avg Type: RMS Avg[Held: 100/100	12:43:49 AM May 24, 2014 PRACE 12 2 4 TYPE Ministration Det P Ministration	Frequency
0 dB/div	Ref Offset 13 Ref 0.00 d			Mk	1 5.460 00 GHz -60.109 dBm	Auto Tune
1010						Center Fre 5.415000000 GH
40001					1	Start Fre 5.370000000 GH
πιά ευψ ευφ						Stop Fre 5.46000000 GH
Start 5.37 Res BW	000 GHz 1.0 MHz	#VE	W 100 Hz	Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Ste 9.000000 MH
MKR MODE T		× 5,460 00 GHz	-60.109 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
23456						Freq Offse 0 H
7 8 9 10						
12 				STATL		

Antenna C



	64 TX	Q DC	SINCE	1	ALIGN OFF	12:50:47 AM May 24, 2014	the second second
enter F	req 5.415	000000 GHz PNO: Far IFGain:Lo			g Type: RMS Hold: 100/100	TRACE 2 3 4 5 TYPE DET PNUNAN	Frequency
cB/div	Ref Offset Ref 0.00				Mkr	2 5.439 93 GHz -62.116 dBm	Auto Tune
2g 10 10							Center Free 5.415000000 GH
1.0 10 1.0					×		Start Free 5.370000000 GH
							Stop Free 5.46000000 GH
	7000 GHz 1.0 MHz	#	VBW 100 Hz		Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	9.000000 MH
		× 5.460 00 GHz		FUNCTION	FUNCTION WIDTH	FUNCTION WALLIE	Auto Mar
2 N 1 3 4 5 6		5.439 93 GHz	-62.116 dBm				Freq Offse 0 H
							9
7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							

Antenna D

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Conducted Bandedge Average, 5530 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2







Center F	reg 5.415000		Trig: Free Run #Atten: 4 dB	#Avg Type: RMS Avg[Hold: 100/100	11/33/13 PM May 23, 2014 TRACE 2 2 4 P TYPE Mysource Det P ALN 1/10	Frequency
0 dB/div	Ref Offset 13.8 Ref 0.00 dB			Mk	r1 5.460 00 GHz -57.556 dBm	Auto Tun
1000 1000 1000 1000						Center Fre 5.415000000 GH
400)1: 50:2:1 60:2:1					-1 -130.00	Start Fre 5.370000000 GH
70(0) 60(0) 60(0)						Stop Fr 5,46000000 G
Start 5.37 #Res BW	000 GHz 1.0 MHz	#VE	W 100 Hz	Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Ste 9.000000 M
MKR MODE T		× 5.460 00 GHz	-57.556 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto M
23456						Freq Offs 01
7 8 9 10						
12						

Antenna C



		SENSENIT	ALIGN OFF	11:40:12 PM May 23, 2014	
enter Freq 5.41500000	PNO: Fast -	- Trig: Free Run #Atten: 4 dB	#Avg Type: RMS Avg[Hold: 100/100	TRACE 2 2 4 5 1 TYPE MUMMUMUMUMUMUMUMUMUMUMUMUMUMUMUMUMUMUM	Frequency
Ref Offset 13.8 dB dB/div Ref 0.00 dBm			Mki	2 5.439 93 GHz -60.375 dBm	Auto Tune
80 10 10 10					Center Fred 5.415000000 GHz
0.0 mp 0.0			Ŷ	2	Start Free 5.370000000 GH
00 00 					Stop Free 5.46000000 GH
				Stop 5.46000 GHz	CF Ster
tart 5.37000 GHz Res BW 1.0 MHz	#VBV	V 100 Hz	Sweep	702 ms (1001 pts)	9.000000 MH
Res BW 1.0 MHz	460 00 GHz	-57.315 dBm	UNITION FUNCTION WOTH		
Res BW 1.0 MHz		Y F			9.000000 MH

Antenna D

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Conducted Bandedge Average, 5530 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3







Center F	reg 5.415000		Trig: Free Run #Atten: 4 dB	#Avg Type: RMS Avg Hold: 100/100	10:37:23 PM May 23, 2014 TRACE 2274 F TYPE MUNICIPALITY DET P ALIN VIEW	Frequency
0 dB/div	Ref Offset 13.8 Ref 0.00 dBr			Mk	r1 5.460 00 GHz -55.511 dBm	Auto Tun
100						Center Fre 5.415000000 GH
801) (6012) 6012)					1	Start Fre 5.370000000 GH
αύ ωύ 						Stop Fr 6.46000000 G
Start 5.37 Res BW	000 GHz 1.0 MHz	#VB	W 100 Hz	Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Ste 9.000000 M
MKR MODE TR		× 5.460 00 GHz	-55.511 dBm	UNCTION FUNCTION WIDTH	FUNCTION VALUE	Auto M
23456						Freq Offs 0 H
7 8 9 10						
12						-

Antenna C



enter Fre	q 5.415000000	CHZ PNO: Fast - IFGain:Low	Trig: Free Run #Atten: 4 dB	#Av	Type: RMS Hold: 100/100	10:44:21 PM May 23, 201 TRACE 2 2 4 TYPE Det P M M M	Frequency
	Ref Offset 13.8 dB Ref 0.00 dBm				Mkr	2 5.440 02 GH2 -59.003 dBm	
10 10 10							Center Freq 5.415000000 GHz
					Q ²	-15.25 (9)	Start Freq 5.370000000 GHz
10 10 10							Stop Free 5.450000000 GH:
art 5.370 tes BW 1		#VB1	W 100 Hz		Sweep	Stop 5.46000 GH 702 ms (1001 pts	CF Step 9.000000 MHz
R MODE TRO	f 5.4	50 00 GHz	-55.292 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION WALLIE	Auto Man
N 1	f 5.4	40 02 GHz	-59.003 dBm				Freq Offset 0 Hz
1				_	STATUS		

Antenna D

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Conducted Bandedge Average, 5530 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1





Antenna A

Antenna B

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Conducted Bandedge Average, 5530 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1



RL	SS 90 Q		SENSE:IVIT	ALIGN OFF	09:00:08 PM May 23, 2014	Frequency
Center Fr	eq 5.415000	PNO: Fast -	Trig: Free Run	#Avg Type: RMS Avg[Hold: 100/100	TYPE Det P NUMBER	Friequency
0 dB/div	Ref Offset 13.8 Ref 0.00 dB	dB		Mk	1 5.460 00 GHz -52.099 dBm	Auto Tune
00 010 010 010						Center Freq 5.415000000 GHz
81.0 20.0 20.0					1,200 mg	Start Freq 5.370000000 GHz
9					10000.000	Stop Freq 5,46000000 GHz
tart 5.370 Res BW		#VB	W 100 Hz	Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Step 9.000000 MHz
KR MODE TRI		× 5.460 00 GHz	Y R 52.099 dBm	INCTION FUNCTION WOTH	FUNCTION VALUE	Auto Man
34667789						Freq Offset 0 Hz
10 11 12						
sa				STATL	6	

Antenna A

AL I		DC DC	38	REANT	ALION OFF	09:07:10 PM May 23, 2014	Frequency
Center F	req 5.4150	00000 GHz PNO: Fa	st Trig: Free		#Avg Type: RMS Avg Hold: 100/100	TYPE MUSERAN	Frequency
0 dB/div	Ref Offset 1 Ref 0.00 c	3.8 dB IBm			Mkr	1 5.460 00 GHz -51,793 dBm	Auto Tun
00 100 300 30.0							Center Fre 5.415000000 GH
eculo eccilo						1	Start Fre 5.370000000 GH
ກາອ່າ ແມ່ນູ່ ອາຍຸ							Stop Fre 5.460000000 GH
	000 GHz 1.0 MHz	#	VBW 100 Hz		Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Ste 9.000000 MH
NAR MODE T		× 5,460 00 GH;	-51.793 dE	FUNCT	IDN FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
23456							Freq Offse 0 H
7 8 9 10							

Antenna C

Antenna B

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Conducted Bandedge Average, 5530 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1







	req 5.41	5000000 GHz	ast Trig:Fre-	e Run dB	#Avg Type: Avg Hold: 1	RMS 00/100	THAC	4 May 23, 2014	Frequency
Ref Offset 138 dB Mkr1 5.460 00 GHz 10 dB/dl/w Ref 0.00 dBm -53,451 dBm -53,451 dBm								Auto Tune	
1000									Center Fre 5.415000000 GH
40.)) 60.8 60.9									Start Fre 5.370000000 GH
ກວ່າ ມາບູ່ ສາຍຸ									Stop Fre 6.46000000 GH
	000 GHz 1.0 MHz		¥VBW 100 Hz			Sweep	Stop 5.46 702 ms (000 GHz 1001 pts)	CF Ste 9.000000 MH
ALR MODE TRC SOL X			z -53.451 di	Y FUNCTION FUNCTION WIDTH			FUNCTION VALUE		Auto Ma
23456									Freq Offse 0 H
7 8 9 10 11									
50						STATL	-		-

Antenna C



enter Fi	eq 5.4150	00000 GHz PNO: Fast IFGain:Low	Trig: Free Run #Atten: 4 dB		Type: RMS Hold: 100/100	09:48:22 PM May 23, 201 TRACE 2 2 4 TYPE Det P 1 1 1 1 1	Frequency
dB/div	Ref Offset 13 Ref 0.00 d	1.8 dB Brm			Mkr	1 5.460 00 GHa -53.018 dBm	
10 10 10							Center Freq 5.415000000 GHz
						-13/7+01	Start Freq 5.370000000 GHz
10 10 10							Stop Freq 5.46000000 GHz
tart 5.37000 GHz Stop 5.46000 GHz Res BW 1.0 MHz #VBW 100 Hz Sweep 702 ms (1001 pts)						9.000000 MHz	
R MODE TR		× 5.460 00 GHz	-53.018 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Man
							Freq Offset 0 Hz

Antenna D

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

Equip #	Manufacturer	Model	Description	Last Cal	Next Due
CIS-50721	Agilent	N9030A	PXA Spectrum Analyzer	4/7/2014	4/7/2015

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