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



enter Freq 5.4150000		Trig: Free Run #Atten: 4 dB	#Avg Type: RMS Avg[Hold: 100/100	01:04:48 AM May 24, 2014 TRACE 2 2 4 5 TYPE Attouted to Det P 11 11:11.1	Frequency
Ref Offset 13.8 dB dB/div Ref 0.00 dBm	3		Mkr	1 5.460 00 GHz -60.125 dBm	Auto Tune
10					Center Freq 5.415000000 GHz
10				1 	Start Freq 5.370000000 GHz
10					Stop Freq 5,46000000 GHz
art 5.37000 GHz Res BW 1.0 MHz	#VBW	100 Hz		Stop 5.46000 GHz 702 ms (1001 pts)	CF Step 9.000000 MHz
	460 00 GHz	460.125 dBm	INCTION FUNCTION WOTH	FUNCTION VALUE	<u>Auto</u> Man
					Freq Offset 0 Hz
			STATU		

Antenna A

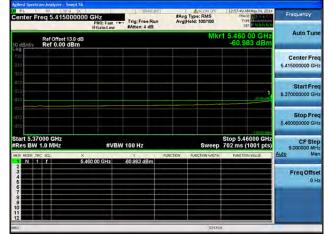
AL I		DC	38/521		ALION OFF	01:11:48 AM May 24, 2014	Frequency
Center F	req 5.41500	D0000 GHz PNO: Fast IFGain:Let	Trig: Free Ru	an Avg	g Type: RMS Hold: 100/100	TYPE MUSERAN	rrequercy
0 dB/div	Ref Offset 13 Ref 0.00 d	.8 dB			Mk	1 5.460 00 GHz -60.757 dBm	Auto Tune
00 100 100 30.0							Center Free 5.415000000 GH
80.) 30.8 30.0						-076-55	Start Fre 5.370000000 GH
πο. ευμ						- Council	Stop Fre 5.46000000 GH
	000 GHz 1.0 MHz	#\	/BW 100 Hz		Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Ste 9.000000 MH
MKR MODE T		× 5.460 00 GHz	-60.757 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
23456							Freq Offse 0 H
7 8 9 10							
2							

Antenna C

Antenna B

Page No: 801 of 810

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



RL 55 50 9 DC		SENSEIVIT	ALIGN OFF	01:04:48 AM May 24, 2014	Frequency
enter Freq 5.4150000	PND: Fast	Trig: Free Run #Atten: 4 dB	#Avg Type: RMS Avg Hold: 100/100	TRACE 2 2 4 5 TYPE MUNICIPAL DET PINNINI	i requercy
Ref Offset 13.8 dE			Mkr	1 5.460 00 GHz -60.125 dBm	Auto Tune
00 00 00					Center Freq 5.415000000 GHz
0.9 0.9 0.9				1 	Start Freq 5.370000000 GHz
0.0 10 10					Stop Freq 5,46000000 GHz
tart 5.37000 GHz Res BW 1.0 MHz	#VBW	100 Hz	Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Step 9.000000 MHz
	: 5.460 00 GHz	V FU -60.125 dBm	NCTION FUNCTION WOTH	FUNCTION VALUE	Auto Man
2 3 4 6 6 6 7 8 9					Freq Offset 0 Hz
					_

Antenna A

AL L	RF 30 D D		38/52.1/		ALION OFF	01:11:48 AM May 24, 2014	Frequency
enter Fre	q 5.4150000	PNO: Fast -	Trig: Free Run	#Avg Avg H	Type: RMS fold: 100/100	TYPE MUSERAN	Frequency
0 dB/div	Ref Offset 13.8 d Ref 0.00 dBm	в			Mki	1 5.460 00 GHz -60,757 dBm	Auto Tune
09 100 100 100							Center Free 5.415000000 GH
80) 200						1	Start Fre 5.370000000 GH
70 ė 40 ų						- Council	Stop Fre 5.46000000 GH
Start 5.3700 Res BW 1.		#VB	W 100 Hz		Sweep	Stop 5.46000 GHz	CF Ste
MKR MODE TRC		× 5,460 00 GHz	460.757 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
23456							Freq Offse 0 H
7 8 9 10							
2							

Antenna C

Antenna B

Page No: 802 of 810

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







enter F		5000000 G	Hz PNO: Fast Gain:High	Trig: Free F #Atten: 0 de	tun	Avg Type: RMS wg Hold: 100/100	12:24:15 AM MO9, 20 DRACE 2:34 TYPE MUSACAL	Frequency
0 dB/div		et 13.8 dB .00 dBm				M	r1 5.460 00 GH -64.978 dBn	Auto Tun
.0g 200 800 100								Center Fre 5.415000000 GH
80.) 30.0 70.0							A Rue	Start Fre 5.370000000 GH
n 0 0 0 0 100								Stop Fre 6.46000000 GP
	000 GHz 1.0 MHz		#VB	W 100 Hz		Swee	Stop 5.46000 GH 702 ms (1001 pts	9.000000 M
KR MODE T		× 5,460	00 GHz	-64.978 dBn	FUNCTIO	N FUNCTION WIDT	H FUNCTION VALUE	Auto Mi
23456								Freq Offse 0 H
7 8 9 10								
2								

Antenna C



RL.		DQ DC		SENSE WIT	-	ALIGN OFF	12:27:10 AM 3.409, 2014	Frequency
enter F	req 5.415	5000000 GH	NO: Fast - Gain:High	Trig: Free Run #Atten: 0 dB		g Type: RMS Hold: 100/100	TYPE NUMBER	
dB/div	Ref Offset Ref -10.	13.8 dB 00 dBm				Mkr	2 5.439 93 GHz -65.967 dBm	Auto Tune
9g 10 10								Center Fred 5.415000000 GHz
0.0 7.0 7.0						Ŷ	Dra so anit	Start Free 5.370000000 GH
n e 100								Stop Free 5.46000000 GH
	000 GHz 1.0 MHz		#VB	W 100 Hz		Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	9.000000 MH
KR MODE TH		× 5.460.0	0 GHz	-64.564 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION WALLIE	Auto Mar
2 N 1 3 4 5 6 7		5.439 9	3 GHZ	-65.967 dBm				Freq Offse 0 H
8								
2								

Antenna D

Page No: 803 of 810

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







Center F		30 0 DC 15000000	GHZ PNO: Fast IFGain:High	Trig: Free F #Atten: 0 di	tun	#Avg Type: RM Avg Hold: 100/	AS	12:12:07 AM 3409, 201 DRACE 2:2:14 TYPE MUNICIPAL	Frequency
0 dB/div		et 13.8 dB 0.00 dBm					Mkr	1 5.460 00 GHz -63,136 dBm	Auto Tur
20.0 30.0 40.0									Center Fre 5.415000000 Ge
80.) 80.9 70.0	_								Start Fr 5.370000000 G
n έ. Ο ύ Παίο									Stop Fr 5.460000000 G
	000 GH		#VE	3W 100 Hz		Sv	veep	Stop 5.46000 GH2 702 ms (1001 pts	9.000000 M
AKR MODE T		5.46	0 00 GHz	-63.136 dBn		TION FUNCTION	WIDTH	FUNCTION VALUE	Auto M
23456									Freq Offs 01
89									
					_				

Antenna C



enter F	req 5.41500000	0 GHz PNO: Fast - IFGain:High	Trig: Free Run #Atten: 0 dB	SAV	Type: RMS Hold: 100/100	12:15:15 AM 3J09, 201 TRACE 2:24 TYPE TYPE AVENUE OUT P 14 IN 14	Frequency
0 dB/div	Ref Offset 13.8 dB Ref -10.00 dBm				Mkr	2 5.439 84 GH -64.742 dBm	
og 110 110							Center Freq 5.415000000 GHz
50.0 FILD 70.0		_			Q ²		Start Freq 5.37000000 GHz
100							Stop Freq 5,46000000 GHz
	000 GHz 1.0 MHz	#VB	W 100 Hz		Sweep	Stop 5.46000 GH 702 ms (1001 pts	9.000000 MHz
KR MODE TR	6.	460 00 GHz	-62.343 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Mar
2 3 4 5 6 7		439 84 GHz	-64.742 dBm				Freq Offse 0 Hz
8 9 10 11 12							
sa				_	STATIS		

Antenna D

Page No: 804 of 810

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







Center F		1150000	DOO GHZ PNO: Fast IF Gain:High	Trig: Free F #Atten: 0 di	tun		Type: RMS old: 100/100	12:12:07 AM		Frequency
0 dB/dív		fset 13.8 d 10.00 dE					Mk	1 5.460 00	dBm	Auto Tune
200										Center Free 5.415000000 GH
90.) 90.9 70.9									1	Start Fre 5.370000000 GH
έπό φυύ (18)										Stop Fre 5.460000000 GH
Start 5.3 #Res BW			#VI	3W 100 Hz		-	Sweep	Stop 5.460	00 GHz 01 pts)	CF Ste 9.000000 MH
	RC SOL		× 5,460 00 GHz	-63.136 dBn		NCTION	FUNCTION WIDTH	FUNCTION W	LUE	Auto Ma
2345678910										Freq Offse 0 H
12								3		1

Antenna C



enter F		000000 GHz PNO: Fast (FGain:High	Trig: Free Run #Atten: 0 dB	#Av	Type: RMS Hold: 100/100	12:15:15 AM 3.409, 2014	Frequency
0 dB/div	Ref Offset 1 Ref -10.00	3.8 dB 0 dBm			Mkr	2 5.439 84 GHz -64.742 dBm	Auto Tune
10 10 10							Center Freq 5.415000000 GHz
					Q.		Start Free 5.370000000 GHa
							Stop Fred 5.46000000 GH:
	000 GHz 1.0 MHz	#VE	3W 100 Hz		Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Step 9.000000 MH
1 N 1		× 5.460 00 GHz 5.439 84 GHz	-62.343 dBm -64.742 dBm	FUNCTION	FUNCTION WOTH	FUNCTION VALUE	Auto Mar
345678							Freq Offse 0 H
9							
ia					STATL	r	

Antenna D

Page No: 805 of 810

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





Antenna A

Antenna B

Page No: 806 of 810

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





Antenna A

	RF 30 D		39/62.4		ALION OFF	01:11:48 AM May 24, 2014	Frequency
enter F	req 5.415000	PNO: Fast • IFGain:Low	Trig: Free Run #Atten: 4 dB	a Avg	g Type: RMS Hold: 100/100	TYPE MUMOUMUM DET PANNVIAW	
0 dB/div	Ref Offset 13.8 Ref 0.00 dB	rdB m			Mk	1 5.460 00 GHz -60.757 dBm	Auto Tune
000 1000 30.00							Center Free 5.415000000 GH
40.) : 50.i : 60.i :						1 -076-55	Start Fre 5.370000000 GH
πέ ωί αλ						timmin	Stop Fre 5.460000000 GH
	7000 GHz 1.0 MHz	#VB	W 100 Hz		Sweep	Stop 5.46000 GHz 702 ms (1001 pts)	CF Step 9.000000 MH
MKR MODE T		× 5,460 00 GHz	-60.767 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
23							Freq Offse 0 H
4 5 6							
4							

Antenna C

Antenna B

Page No: 807 of 810

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







Center F		30 0 DC 15000000	GHZ PNO: Fast IFGain:High	Trig: Free F #Atten: 0 di	tun	#Avg Type: RM Avg Hold: 100/	AS	12:12:07 AM 3409, 201 DRACE 2:2:14 TYPE MUNICIPAL	Frequency
0 dB/div		et 13.8 dB 0.00 dBm					Mkr	1 5.460 00 GHz -63,136 dBm	Auto Tur
20.0 30.0 40.0									Center Fre 5.415000000 Ge
80.) 80.9 70.0	_								Start Fr 5.370000000 G
n έ. ο ύ Παίο									Stop Fr 5.460000000 G
	000 GH		#VE	3W 100 Hz		Sv	veep	Stop 5.46000 GH2 702 ms (1001 pts	9.000000 M
AKR MODE T		5.46	0 00 GHz	-63.136 dBn		TION FUNCTION	WIDTH	FUNCTION VALUE	Auto M
23456									Freq Offs 01
89									
					_				

Antenna C



RL		00000 GHz	Several 1		ALION OFF	12:15:15 AM 3.J09, 2014	Frequency
enter F	req 5.4150	PNO: Fast - IFGain:High	Trig: Free Run #Atten: 0 dB		Hold: 100/100	TYPE Mentored	
0 dB/div	Auto Tune						
0g = 0 = 0							Center Free 5.415000000 GH
2.0 7.0 7.0					Q:		Start Free 5.370000000 GH
10						353 07 200	Stop Free 5,46000000 GH
Start 5.37000 GHz Stop 5.46 #Res BW 1.0 MHz #VBW 100 Hz Sweep 702 ms (1						Stop 5.46000 GHz 702 ms (1001 pts)	9.000000 MHz
A NODE TR		× 5.460.00 GHz	-62.343 dBm	-62.343 dBm		FUNCTION WALLE	Auto Mar
2 N 1 3 4 5 6		5.439 84 GHz	-64.742 dBm				Freq Offse 0 H
7 8 9 10							
12 12 1					STATU		

Antenna D

Page No: 808 of 810





Page No: 809 of 810



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

Page No: 810 of 810