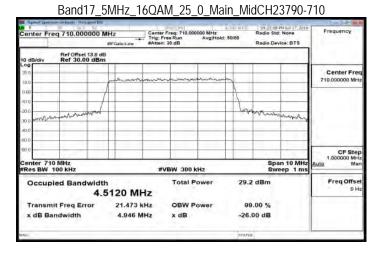


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## Band17\_5MHz\_16QAM\_25\_0\_Main\_LowCH23755-706.5

R. R.	Su S				Main 17, 2019	10 4 11
Center Fre	eq 706,500000	Trig:	ar Freq. 706.500000 MHz Free Run Avg Hold m: 30 dB	1: 50/50 Radio Devi	200 3 4	Frequency
10 dB/div	Ref Offset 13.8 Ref 30.00 dB				1.1	
20.0 10.0		pormany	-ver-vinant-learnshar-ris	ing		Center Fre 705.500000 MH
40.0		A		An		
40.0	www.ward			homen	~~n <sub>n</sub> nn	
80.0 60.0						CF Ste 1.000000 MH
Center 70 #Res BW			VBW 300 kHz		ep 1 ms	<u>ito</u> Ma
Occup	ied Bandwid 4	th .5025 MHz	Total Power	29.2 dBm		Freq Offse 0 H
	it Freq Error Indwidth	17.568 kHz 4.951 MHz	OBW Power x dB	99.00 % -26.00 dB		
letic.				statue		

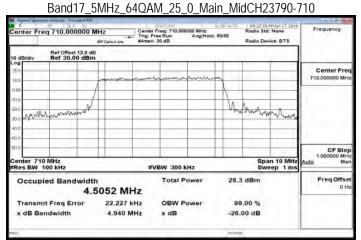


#### Band17\_5MHz\_16QAM\_25\_0\_Main\_HighCH23825-713.5

all and they	Annyat Ortagent Bit	-			Contraction of the local sectors of the	10 4 63
Center Fr	eq 713.500000 M	+-	Center Freq: 713.500000 Frig: Free Run A Atten: 30 dB	MHz vg[Hold: 50/50	Radio Std: None Radio Device: BT5	Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm					
2ft n 10.0		manan		munn		Center Freq 713.500000 MHz
0.00 -10 Q -20 0						-
-30.0 -40.0	And the second second				to warman and an an	
-90.0 						CF Step
Center 71 #Res BW		1.1	#VBW 300 kHz	-19	Span 10 MH Sweep 1 m	
Occup	ied Bandwidt 4.	h 5029 MHz	Total Pow	er 29.2	dBm	Freq Offset 0 Hz
	iit Freq Error andwidth	7.800 kH 5.010 MH		72	00 % 00 dB	
Antic				57ATVI		

#### Band17\_5MHz\_64QAM\_25\_0\_Main\_LowCH23755-706.5

eq 706.5000		++	Center F Trig: Fre	req: 706.500 e Run	000 MHz		Radio Std	I None	Frequency
Ref Offset 13.8 dB 0 dB/div Ref 30.00 dBm							1.1		
	_	mmun	adata	man	mulume	2			Center Free 705.500000 MHz
run admirent	AN					1	Anna	A	
						-		"YLYNA	
6.5 MHz			#1/1	300 k					CF Step 1.000000 MH Auto Mar
			1.1			28		cep 1 ms	Freq Offse 0 H
nit Freq Erro andwidth	or			OBW P	ower				
	Ref 00fset Ref 30.00 Pr/pv/m-3v-m 6.5 MHz 100 kHz 100 kHz ieid Bandw	Ref Office 13.8 dB Ref 30.00 dBm Provide And 6.5 MHz 100 kHz 100 kHz 1	Ref Office 13.8 dB Ref 30.00 dBm	eq 706,500000 MHz BrCaleLow Ref 30.00 dBm Ref 30.00 dBm Conter F3 Ref 30.00 dBm Conter F3	Ref 30.00 dBm Ref 30.00 dBm ref yet 30 dB Ref 30.00 dBm ref yet 30 dB ref ye	eq 706,500000 MHz ar Calinet are 706,700,0000 MHz Tig. Free Rol Avgitted Ref 30.00 dBm Ref 30.00 dBm	eq 706.500000 MHz arcanee arcanee Ref 30.00 dBm Ref 30.00 dBm	eq 706.500000 MHz         Carmer Freq. 706.00000 MHz         Radio Sta           Arr Freq. 706.00000 MHz         Trig. Free Run         AvgiHold: 50800           Ref 075et 138 dB         Ref 30.00 dBm         Ref 30.00 dBm           Image: State State State         Ref 30.00 dBm         Ref 30.00 dBm           Image: State State State State         Ref 30.00 dBm         Ref 30.00 dBm           Image: State S	eq 706.500000 MHz Article Trig: Free Run Argiteld: 50150 Ref 0764: 132 dB Ref 30.00 dBm Ref 0764: 132 dB Ref 30.00 dBm



#### Band17\_5MHz\_64QAM\_25\_0\_Main\_HighCH23825-713.5

Center Fr	eq 713.500000 N	Tria	er Freq: 713.600000 MHz Free Run Avgittol en: 30 dB	Radio S	d: Main 17, 2013 td: None Frequ evice: BTS	iency
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm		1.1			
2ft n 10.0		annon	mannen			iter Fred 0000 MHa
10.0	monomo			Mindentioner	Numerica	
40.0 50.0						
Center 71 Res BW			#VBW 300 kHz	SI Si		CF Step 0000 MH Mar
Occup	ied Bandwidth 4.5	5066 MHz	Total Power	28.1 dBm	Fre	o Mise
	iit Freq Error andwidth	9.772 kHz 4.965 MHz	OBW Power x dB	99.00 % -26.00 dB	111	
ueșici				STATUS		

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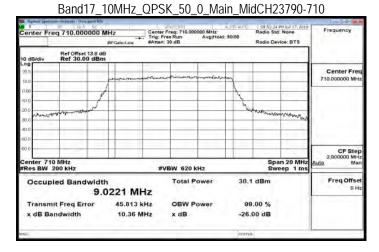
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#### Band17\_10MHz\_QPSK\_50\_0\_Main\_LowCH23780-709

Citano Manual	-Annyat   Ortuge Bi		stass and	ALTOT MITC DB048(24 PM b)/ 17	10 4 11
Center Fre	g 709.000000	Trig:	r Freq. 709.000000 MHz Free Run Avg Hold n: 30 dB	Radio Std: None	Frequency
10 dB/div					
20 n 10.0		pormitenterior	. some second and the second	tra	Center Free 709.000000 MH
0.00 -10 0	1	x1			-
30.0	montest			Unanothin Marine	-12-h
-40.0					-
Center 709 #Res BW 2			VBW 620 kHz	Span 20 I Sweep 1	
Occupi	ed Bandwid 9.	<sup>th</sup> 0493 MHz	Total Power	30.0 dBm	Freq Offse 0 H
	t Freq Error	36.478 kHz	OBW Power	99.00 %	
x dB Bar	ndwidth	10.45 MHz	x dB	-26.00 dB	
and a				STATUS	



## Band17\_10MHz\_QPSK\_50\_0\_Main\_HighCH23800-711

🕷 gittern Aberra	Annyati Ora	agend Billy			-		NEW WITCH		-	10 4 63
Center Fre	Center Freq 711.00000 MHz Center Freq 711.00000 MHz arroans arrow of the section of the sectio									Frequency
10 dB/div	Ref Offset				_	_			1.1	
20.0			puter sugar the man	r son fries	Tagalo and Print Articles	-m-Aler-vi	-			Center Freq 711.000000 MHz
0.00 -10 Q		1					1			
-20.0 -30.0	wowner	Al .						here was a second	New Williams	
-40.0										
Center 71									an 20 MHz	CF Step 2.000000 MH; Auto Mar
#Res BW 3	200 kHz	_		#VE	SW 620 K	Hz		Sw	reep 1 ms	
Occup	ied Band		027 M	łz	Total Power			2 dBm		Freq Offset 0 Hz
Transm	it Freq Err	or	31.788	Hz	OBW P	ower	9	9.00 %		
x dB Ba	ndwidth		10.39 N	Hz	x dB		-26	Bb 00.		
Aesic-					-		57AT	18-		

#### Band17\_10MHz\_16QAM\_50\_0\_Main\_LowCH23780-709

9 709.000000	MHz MFGain:Low	Center I	Freq: 709.00000	0 MHz		Radio Std	I: None	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm								
	pansone	mariti	an water and	anting				Center Freq 709.000000 MHz
1 del	1	-			1			
however					~	Aren alla fear and	harman har	
		-					-	CF Step
9 MHz 200 kHz	1.1	#V	BW 620 kH	z				2,000000 MH Auto Mar
		Hz	Total Pov	ver	29.3	dBm		Freq Offse 0 H
It Freq Error			1.111.111	ver				
	Ref 0000000 Ref 000000 dB mer 30.00 dB	Ref Offset 13.8 dB Ref 30.00 dBm ////////////////////////////////////	rg 709.00000 MHz BrGaleLaw Ref 30.00 d Bm Ref 30.00 d Bm NHz 200 kHz 80550 MHz 14.459 kHz	rg 709.000000 MHz BrCaleLlaw Ref 30.00 dBm Ref 30.00 dBm Mitz 200 kHz 200 kHz Bandwidth 9.0550 MHz 10 Jack Star 10 Jack St	AND	Provide a construction of the construction of	Ref 30.00 GMHZ WFGalacter Ref 30.00 dBm Ref 30.0	rig 709.000000 MHz BrCaleLaw Br

## Band17 10MHz 16QAM 50 0 Main MidCH23790-710



#### Band17\_10MHz\_16QAM\_50\_0\_Main\_HighCH23800-711

allan Ann	-Annyati Ornand Bile		-	ALIST MITC I BRIDDLY PM AM	
Center Fre	q 711.000000 M	Trig:	r Freq: 711.000000 MHz Free Run Avgittoid 1: 30 dB	Radio Std: Non	Frequency
10 dB/div					
20.0		performation the second		~	Center Fre 711.000000 MH
40.0	1	4		N	
29C	monormat			Mannanan	
40.0					~
9010 0010					CF Ste 2,000000 MH
Center 711 Res BW 2			VBW 620 kHz	Span 20 Sweep	MHZ Auto Ma
Occupi	ied Bandwidt 9.(	n D162 MHz	Total Power	30.0 dBm	Freq Offse 0 H
Transmi x dB Ba	it Freq Error ndwidth	37.589 kHz 10.47 MHz	OBW Power x dB	99,00 % -26.00 dB	
etja:				STATUS	

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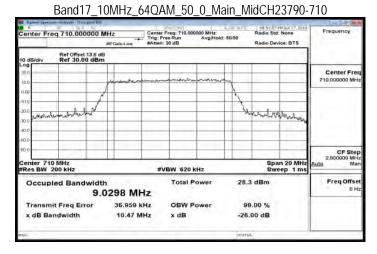
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### Band17\_10MHz\_64QAM\_50\_0\_Main\_LowCH23780-709

allow floored	-Annyati Ortuged	iyy			ALWART		-	10.4 63
Center Fre	q 709.00000	MFGaintow		09.000000 MHz		Radio St	Wibe: BTS	Frequency
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm								
20 n 10.0		ponendana		waterman	mag			Center Fre 709.000000 MH
0.60 		A		-	1			
300 minute	and an address					an lering	ulrenhum	
							1	
Center 709 #Res BW 2			#VBW	620 kHz			an 20 MHz reep 1 ms	CF Step 2,000000 MH Auto Mar
Occupi	ed Bandwid 9	oth 0.0529 MH		tal Power	28	.3 dBm		Freq Offse 0 H
	t Freq Error	31.996 k		W Power	1.	9.00 %		
x dB Ba	ndwidth	10.47 M	Hz x d	В	-26	5.00 dB		
ALC:					57A1	1/5		



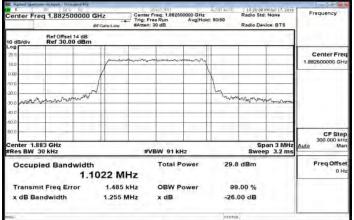
#### Band17\_10MHz\_64QAM\_50\_0\_Main\_HighCH23800-711

all and there	- Annyat   Orstand Bile		ansem.		ALLOY MITC		PM bin 17.2019	10 4 63	
Center Fre	enter Freq 711.000000 MHz Center Freq 711.00000 MHz Radio Std: None AfrGaincLew Attien: 30 dB Radio Std: None Radio Davide: B15								
10 dB/div	Ref Offset 13.8 d Ref 30.00 dBr						1.11		
20 n 10.0		indiation	alanter making to	man	ria.			Center Freq 711.000000 MHz	
40.0	1	1			X	_			
-20.0 -30.0 - MM/h-4	moundthat			-	Jul -	unnun	mbridde		
-40.0									
Center 71	4 6414-					0	an 20 MHz	CF Step 2.000000 MHz Auto Man	
#Res BW		_	#VBW 620	kHz			eep 1 ms	Auto Man	
Occup	ied Bandwidt 9.	<sup>th</sup> 0236 MH	1	Power	28.7	dBm		Freq Offset 0 Hz	
1	it Freq Error Indwidth	32.137 k 10.38 M		Power		0.00 % 00 dB			
Ausic-					STATU				

#### Band25\_1\_4MHz\_QPSK\_6\_0\_Main\_LowCH26047-1850.7

allant flatte	Annyat I Octopred Bill		and the second		17.31 PM 505 17, 2019	1014
Center Fre	eq 1.850700000 e	Trig:	r Freq. 1.850700000 GHz Free Run Avg Hol n: 30 dB	d: 50/50	o Std: None o Device: BTS	Frequency
10 dB/div						
20.0		, marine	and a contract of the second o			Center Free 1.850700000 GH
0.00		1				
	mannenter	J		Formand	an and a star	
40.0						
00.0					-	CF Step 300.000 kH
Center 1.8 #Res BW 3		*	VBW 91 kHz	S	Span 3 MHz weep 3.2 ms	Auto Mar
Occup	ied Bandwidth 1.1	017 MHz	Total Power	30.0 dBr	n	Freq Offse 0 H
Transm	It Freq Error	-368 Hz	OBW Power	99.00		
x dB Ba	ndwidth	1.256 MHz	x dB	-26.00 di	в	

#### Band25 1 4MHz QPSK 6 0 Main MidCH26365-1882.5



#### Band25\_1\_4MHz\_QPSK\_6\_0\_Main\_HighCH26683-1914.3

allow Sherrin	-Annyati Ortugent Bill			ase mut		ALCO WITE		M bio 17, 2019	10 4 63
Center Fre	q 1.914300000	GHz MFGain:Low	Center F	e Run			Radio Std: Radio Dev	None	Frequency
Ref Offset 14 dB 10 dB/div Ref 30.00 dBm								3.41	
20 n 10.0		James		an a	many				Center Free 1.914300000 GH
	and a superior of the second	1				hur	man	Mary to a Street	
-30.0 -40.0 -50.0									
Center 1.91 #Res BW 3			#VE	W 91 kH	z			an 3 MHz p 3.2 ms	CF Step 300.000 kH Auto Mar
Occupi	ed Bandwidti 1.1	1059 MH	łz	Total P	ower	31.3	dBm		Freq Offse 0 H
Transmi x dB Bar	t Freq Error ndwidth	-1.226 k 1.251 M		OBW P	ower		0,00 % 00 dB		
ursic.				-		STATU			

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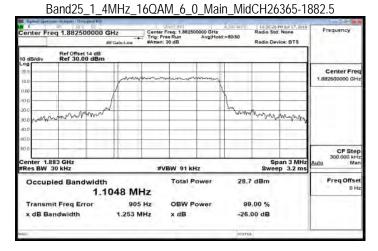
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## Report No.: T190611W02-RP Page 157 of 480

## Band25\_1\_4MHz\_16QAM\_6\_0\_Main\_LowCH26047-1850.7

allann Aberr	An argent   Ornapped Bill			AUDIT NUT	18124 PM Jun 17, 2019	10.4
Center Fre	Frequency					
10 dB/div	1	10.00				
20.0 10.0		francis				Center Fre 1.850700000 GH
0.00 10.0 20.0	in an or when	1		human	Maria	
40.0	when we are and				an and a share a share a	
90.0 90.0						CF Ste 300.000 kH
Res BW		#	VBW 91 kHz	5	Span 3 MHz weep 3.2 ms	Auto Ma
Occup	ied Bandwidth 1.0	998 MHz	Total Power	29.4 dBr	0	Freq Offse 0 H
	it Freq Error Indwidth	704 Hz 1.258 MHz	OBW Power x dB	99.00 9 -26.00 d	-	
				ana a		



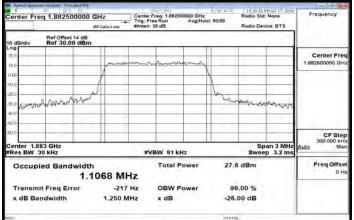
#### Band25\_1\_4MHz\_16QAM\_6\_0\_Main\_HighCH26683-1914.3

agamer Theres	An Annual I Ornand B	14			_	ALLWOWITE	- Abadaa		10 4 23	
Center Fr	Center Freq 1.91430000 GHz Center Freq 1.94430000 GHz Center Freq 1.91430000 GHz Trig. Free Run Avg/Nold. 5050 Radio Seti. None Radio Device: BT5									
10 dB/div	Ref Offset 14 d Ref 30.00 dE						_	1.41		
20.0		F	with window	unininin	m				Center Freq 1.914300000 GHz	
0.00 -000	www.wijhowww	and -				how	Werkerun	Minin		
-40.0 -40.0 -40.0				_		_				
Center 1.9			1	#VBW 91 kl	47		Sp	an 3 MHz p 3.2 ms	CF Step 300.000 kHz Auto Man	
	ied Bandwid		MHz	Total P		28.5	dBm		Freq Offset 0 Hz	
1.	nit Freq Error andwidth		709 Hz 248 MHz	OBW P	ower		.00 % 00 dB			
Aeric-						STATUS	-			

#### Band25\_1\_4MHz\_64QAM\_6\_0\_Main\_LowCH26047-1850.7

Frequency	PM 841 17, 2019 1: None	Radio Std	ALDIVI NUTC	reg. 1.850700000 GHz		GHz	.850700000			
	vice: BTS	Radio De	friditation of the		#Atten:	#FGain:Low				
	1.1	Ref Offset 14 dB 10 dB/div Ref 30.00 dBm								
Center Fre			m	monter	maria	minin				
			X			1				
		marshin	barney		-	w.	in and	-		
	um have				-		manne	N MARAN		
-					-					
CF Step 300.000 kH	1	-						1		
Auto Ma	oan 3 MHz ep 3.2 ms	Swee		SW 91 kHz	#V			s BW 30		
Freq Offse 0 H		8.0 dBm	28	Total Power	Hz	, 983 M	Bandwidth 1.0	occupie		
		99.00 %		OBW Power	kHz	2.485	req Error	ransmit		
		26.00 dB		x dB	MHZ	1.250	al al al al a	dB Ban		

#### Band25 1 4MHz 64QAM 6 0 Main MidCH26365-1882.5



#### Band25\_1\_4MHz\_64QAM\_6\_0\_Main\_HighCH26683-1914.3

R	eq 1.914300000		STIGE MI	Radio 5	12 PM 846 17, 2019	Frequency
			Free Run Avg Hol m: 30 dB	d: 50/50 Radio I	Device: BT5	
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm					
z0.n		-una frina	mmmmmmm			Center Free 1.914300000 GH
0.00		1			-	
	mmmmm	d		Mariana	mann	
40.0						
00.0						CF Step
Center 1.9 #Res BW		à	VBW 91 kHz	Sw	Span 3 MHz eep 3.2 ms	Auto Ma
Occup	ied Bandwidth 1.(	, )998 MHz	Total Power	28.1 dBm		Freq Offse 0 H
	it Freq Error Indwidth	866 Hz	OBW Power	99.00 %	3011	
unc.	107 MAR 20			STATUS		1.000

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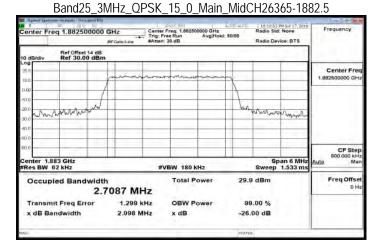
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#### Band25\_3MHz\_QPSK\_15\_0\_Main\_LowCH26055-1851.5

Adams. Marrie	Annyat Ora	Astrony Birld		-2005-000	AUTOWIT	10.00.5	PM 500 17, 2019	10.4
Center Fr	eq 1.85150		Trig	er Freq. 1.851500000 GHz Free Run Avg Hol en: 30 dB		Radio Std	I: None	Frequency
Ref Offset 14 dB 10 dB/div Ref 30.00 dBm								10.00
2ft n 10.0			Amanna	mann	m			Center Fre 1.851500000 GH
40.00 -10.0		N			hu		an when	
30.0 WWWW	mp.mm.M						an martin	
80.0 80.0								CF Ste
Center 1.8 #Res BW				#VBW 180 kHz	-	Sweep	oan 6 MHz 1.533 ms	Auto Ma
Occup	ied Band		175 MHz	Total Power	30.	3 dBm		Freq Offse 0 H
	it Freq En andwidth	or	4.849 kHz 2.997 MHz	OBW Power x dB		9.00 % .00 dB		
etic.	_				STAT	15		



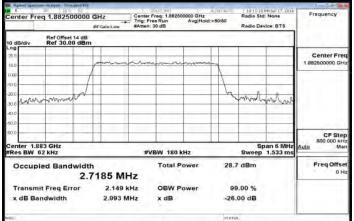
## Band25\_3MHz\_QPSK\_15\_0\_Main\_HighCH26675-1913.5

agaan ipan	An any at 1 Oct.	and Bill			-		ALI OT ANTE		-	10 4 63
S 10 Conter Freq 1.913500000 GHz Center Freq 1.913500000 GHz Center Freq 1.913500000 GHz Trig: Free Run Avg/Itole: 5000 Radio Stel: None Radio Device: BTS								None	Frequency	
10 dB/div	Ref Offset Ref 30.00			_		_			3.41	
20.0			por	mon	mini	normalina	~			Center Freq 1.913600000 GHz
40.0		M					L	hann		
-40.0	/www.www.ww							1.14.64	Mran Min.y	
-90.0 -90.0	-									CF Step
Center 1.9 #Res BW				#VE	BW 180 H	Hz		Sp Sweep	an 6 MHz 1.533 ms	Auto Man
Occup	ied Band		108 M	Hz	Total P	ower	29.	9 dBm		Freq Offset 0 Hz
	it Freq Err ndwidth	or	2.712 3.006 M		OBW P	ower		9.00 % 5.00 dB		
Arris-							STAT	us-		

#### Band25\_3MHz\_16QAM\_15\_0\_Main\_LowCH26055-1851.5

R	eq 1.85150000	and a second sec	Freq: 1.851600000 GHz		Vice PM Jun 17, 2019	Frequency			
Center Pro	Trig: Free Run Avg Hold: 50/50 #FGain:Low #Atten: 30 dB Radio Device: BT5								
10 dB/div	1	10.0							
20.1						Center Free			
10.0		1 million and the second	and the second sec	1		1.851500000 GH			
100					-				
30.0 mm Auto	Norman was			Marin	www.howman				
40.0	-				-				
500 800					-	-			
						CF Ster 600.000 kH			
Center 1.8 #Res BW			VBW 180 kHz	Swe	Span 6 MHz ep 1.533 ms	Auto Ma			
Occup	ied Bandwid 2.	<sup>th</sup> 7142 MHz	Total Power	29.2 dBm	1	Freq Offse 0 H			
Transm	it Freq Error	8.623 kHz	OBW Power	99.00 %					
x dB Ba	ndwidth	3.008 MHz	x dB	-26.00 dE	3				
1									

#### Band25 3MHz 16QAM 15 0 Main MidCH26365-1882.5



#### Band25\_3MHz\_16QAM\_15\_0\_Main\_HighCH26675-1913.5

agant (perce	- Annyan I Orn	And Bill	_		Sus- mil		AL SOLD MAY		PM Aug 17, 2019	10.44
Center Freq 1.913500000 GHz AFGalicLaw AFGalicLaw AFGalicLaw AFGalicLaw AFGalicLaw AFGalicLaw AFGalicLaw AFGalicLaw AFGALICLAW A									3: None	Frequency
10 dB/div	Ref Offset Ref 30.00								1.1	
200 10.00			min	mm	~~~~~		~			Center Free 1.913600000 GH
40.0	12-1	1					A			
30.0	verne menter	and w			_	-		Sun Marting	Annone	
40.0										
Center 1.91	14 CH+				1				pan 6 MHz	CF Step 500.000 kH Auto Ma
#Res BW 6					VBW 180	kHz		Sweep	1.533 ms	AULO
Occupi	ed Band		152 N	IHz	Total F	Power	2	9.2 dBm		Freq Offse 0 H
Transmi x dB Bar	t Freq Err ndwidth	or	6.199 2.997		OBW F	Power		99.00 % 26.00 dB		
uerșa:					-		571	ATUS		

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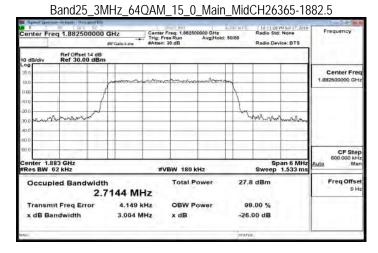
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## Report No.: T190611W02-RP Page 159 of 480

## Band25\_3MHz\_64QAM\_15\_0\_Main\_LowCH26055-1851.5

allow Marrie	Annyat I Orta	Internal Billio	_	1.2	use mil	-	N LOVE N	1.10.09.2	3 PM No 17, 2019	10.4
Center Fre	eq 1.85150		3Hz #FGain:Low	Center F	req: 1.85160 e Run			Radio St		Frequency
Ref Offset 14 dB 10 dB/div Ref 30.00 dBm								10.00		
20 n 10.0			manun	in m		-	7			Center Fre 1.851500000 GH
-20.0	nonn	a					1	ner war an	vomme r	
-30.0 0 10 10 10 10 10 10 10 10 10 10 10 10										
Center 1.8				#1	3W 180 K			S	pan 6 MHz	CF Ste 600.000 kH Auto Ma
	ied Bandy		145 MH	3	Total P		2	8.4 dBm	1,333 115	Freq Offse 0 H
	it Freq Erro Indwidth	or	8.522 k 3.004 M		OBW P	ower		99.00 % 6.00 dB		
etic.	_			_	-		57	ATUS		



#### Band25\_3MHz\_64QAM\_15\_0\_Main\_HighCH26675-1913.5

allow March	Annyati Ortan	ned Billy			NSEIMI	_	LINTAILE			10.4.61
Center Freq 1.913500000 GH2 Center Freq. 191300000 GH2 Radio Stat. None Trig: Free Tur State Center Avg(Hold: 50:50 Radio Device: BT5										Frequency
10 dB/div	Ref Offset 14 Ref 30.00		_						1.1	
20 n 10.0		1	- marine	mm	m	min	~			Center Freq 1.913600000 GHz
0.00 -10.0		A		_			A			
000	non man	,N					- w	multuren	nymender	
-50.0		_					-			1.00
Center 1.9				#VE	W 180 k	Hz	1	Sweep	pan 6 MHz 1.533 ms	CF Step 600.000 kHz Auto Man
	ied Bandw		31 MH	z	Total P	ower	28.	6 dBm		Freq Offset 0 Hz
	it Freq Erro indwidth	r	2.904 ki 3.002 Mi		OBW P	ower		9.00 % .00 dB		
Aesic:							STAT	us-		

#### Band25\_5MHz\_QPSK\_25\_0\_Main\_LowCH26065-1852.5

R	Star Contract Bill	and a started	Freq: 1.852500000 GHz		PM ALO 17, 2019	Frequency
Center Fre	None	Frequency				
10 dB/div	1.1	1.1				
20 ŋ 10.0		mannen	-	~		Center Free 1.852500000 GH
0.00				1		
30.0 30.0	mannam			Margannen	a falan	
-40.0						
00.0					-	CF Ster 1.000000 MH
Center 1.8 #Res BW		*	VBW 300 kHz		eep 1 ms	Auto Ma
Occup	ied Bandwidt 4.	<sup>h</sup> 5145 MHz	Total Power	30.2 dBm		Freq Offse 0 H
Transm	it Freq Error	13.037 kHz	OBW Power	99.00 %		
x dB Ba	ndwidth	4.957 MHz	x dB	-26.00 dB		
				Laura I		

#### Band25 5MHz QPSK 25 0 Main MidCH26365-1882.5



#### Band25\_5MHz\_QPSK\_25\_0\_Main\_HighCH26665-1912.5

R Center Fre	Willin 17, 2019 Il None vice: BTS	Frequency				
10 dB/div	1.1					
20:11 10:0		minimum	maren anna anna	2		Center Free 1.912500000 GH
-20.0	narman				Mus	
-30.0 -40.0					1. Part - Jacks	
000 Center 1.9	13 GHz			Sn	an 10 MHz	CF Step 1.000000 MH Auto Ma
#Res BW 1			VBW 300 kHz		eep 1 ms	nuto man
Occupi	ed Bandwidt	h 5110 MHz	Total Power	30.5 dBm		Freq Offse 0 H
Transmi x dB Ba	it Freq Error ndwidth	10.837 kHz 4.963 MHz	OBW Power x dB	99.00 % -26.00 dB		
uerșa:				STATUS		

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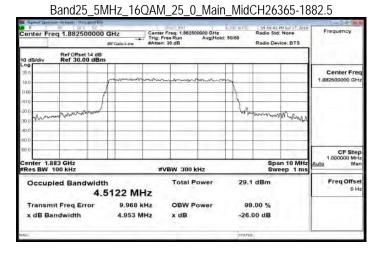
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#### Band25\_5MHz\_16QAM\_25\_0\_Main\_LowCH26065-1852.5

allante Allant	Annyat Ortage By					10 4 61
Center Fr	eq 1.85250000	-P- Trig	er Freq. 1.852500000 GHz Free Run Avgitto m: 30 dB	Ra Id: 50/50	dio Std: None dio Device: BTS	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBr					
200 Volver		free commencer			water	Center Frec 1.852500000 GH;
Center 1.1			#VBW 300 kHz		Span 10 MHz Sweep 1 ms	CF Step 1.000000 MH Auto Mar
Occup	ied Bandwid 4.	<sup>th</sup> 5138 MHz	Total Power	29.4 dE	Bm	Freq Offse 0 H
10.000	hit Freq Error andwidth	10.277 kHz 4.905 MHz	OBW Power x dB	99.00 -26.00		
tesc.				STATUS		



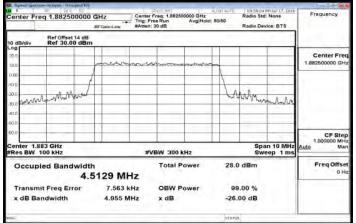
#### Band25\_5MHz\_16QAM\_25\_0\_Main\_HighCH26665-1912.5

allow Marin	10.4.63				
Center Fre	Frequency				
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm	0			
20 n 10.0		mounan	monan	~	Center Fred 1.912500000 GH;
0.00 					
30.0	Marmonan			grand reason and particular	n.,
-50.0					-
Center 1.9 #Res BW			#VBW 300 kHz	Span 10 MH Sweep 1 m	
Occup	ied Bandwidth 4.5	5099 MHz	Total Power	29.4 dBm	Freq Offse 0 Ha
	it Freq Error Indwidth	12.989 kHz 4.925 MHz	OBW Power x dB	99.00 % -26.00 dB	
Artico .				57ATUS	

#### Band25\_5MHz\_64QAM\_25\_0\_Main\_LowCH26065-1852.5

R	eq 1.85250	14.1	GHz AFGain:Low	Center F Trig: Fre	Center Freq: 1.852500000 GHz Trig: Freq Run Avg Hold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BT5		Frequency
10 dB/div	Ref Offset Ref 30.0								1.1	
20 n 10.0			mun	h	mone	t	2			Center Fred 1.852500000 GHz
0.00 -10 Q -20 0	hunder	nort					Vira	Maria	-Munn	
30.0 yr C'hyd 40.0	(Means you)	-					-		and a Const	-
000										CF Step 1.000000 MH
Center 1.8 #Res BW				#VI	300 W	Hz			an 10 MHz reep 1 ms	Auto Mar
Occup	ied Band		5154 MH	Iz	Total P	ower	28.3	dBm		Freq Offse 0 H
	it Freq Err	or	6.930 k 4.936 M		OBW P	ower		0.00 %		

#### Band25 5MHz 64QAM 25 0 Main MidCH26365-1882.5



#### Band25\_5MHz\_64QAM\_25\_0\_Main\_HighCH26665-1912.5

allann Aberra	- An appart I Orac pred Bay			ALINE MILE AND DEPENDENT	10 4 11
Center Fre	eq 1.912500000	Trig:	r Freq. 1.912500000 GHz Free Run Avgittoid 1: 30 dB	Radio Std: None	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm				
20.0		monorman	manunan	***	Center Free 1.912500000 GH
0.00					
	mahandar			Martinhan	ha
40.0					
00.0					CF Ster 1.000000 MH
Center 1.9 #Res BW			VBW 300 kHz	Span 10 P Sweep 1	
Occup	ied Bandwidt 4.	n 5003 MHz	Total Power	28.3 dBm	Freq Offse 0 H
	it Freq Error Indwidth	15.629 kHz 4.905 MHz	OBW Power x dB	99.00 % -26.00 dB	
atja-				STATUS	

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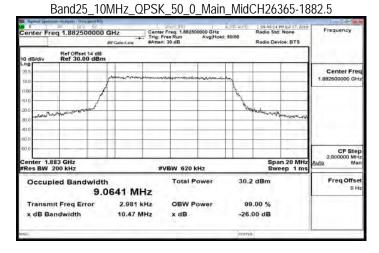
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## Band25\_10MHz\_QPSK\_50\_0\_Main\_LowCH26090-1855

alama Mara	Annyan Ortan	and Bill			FILSE MAL		LIGTINUTE	1.00.46.4	1941 100 1.7. 2019	10.4.63
Center Freq 1.855000000 GHz Canter Freq. 1.85000000 GHz Radio Std: None MF CalmLow SAtten: 30 dB Radio Device: BT5								Frequency		
10 dB/div	Ref Offset 1 Ref 30.00								1.1	10.00
20 n 10.0		7	and the second s			anna Anna	7			Center Free 1.855000000 GH
10.0	www.manana	w					2	and the second	-rithin me	
40.0			-							
Center 1.8 #Res BW				#V	BW 6201	(Hz	-		an 20 MHz veep 1 ms	CF Step 2,000000 MH Auto Mar
Occup	ied Bandv		819 MI	Ηz	Total P	ower	30.7	dBm		Freq Offse 0 H
	nit Freq Erro andwidth	or	26.554 H 10.48 N		OBW P	ower		.00 % 00 dB		
latic.			_		_		STATU			



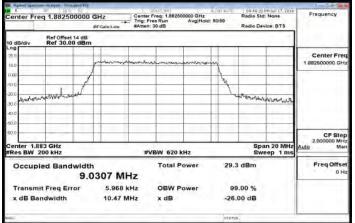
#### Band25\_10MHz\_QPSK\_50\_0\_Main\_HighCH26640-1910

Agamen Types of	An Annual I Orta	And Bills			us-mail		OT MALE	- Andrew	-	10.4 63
Center Freq 1.910000000 GHz         Center Freq 1.910000000 GHz         Radio Std: None           ar CaincLow         Trig: Free Nun         Avg Hold: 50/80         Radio Davice: BT5           10 dB/div/ Col 0         Ref Offset 14 dB Ref 30.00 dBm         B         Radio Davice: BT5									Frequency	
									1.1	
20.0			minim		-another	and the of the says		-		Center Freq 1.91000000 GHz
0.00 		J.					12		-	
-30.0	and a grand the second s	-						Watshire	melenousny	
-40.0							_	-		
Center 1.9				#VE	3W 620 k	Hz	<u> </u>		an 20 MHz eep 1 ms	CF Step 2,000000 MHz Auto Man
Occup	ied Band		698 MI		Total P		30.2	2 dBm		Freq Offset 0 Hz
	it Freq Err ndwidth	or	-1.419 10.46 M		OBW P	ower		9.00 % 00 dB		
Nesja:							STATU	s]		

#### Band25\_10MHz\_16QAM\_50\_0\_Main\_LowCH26090-1855

Center Fre	eq 1.855000000 GHz Genter Freg. 1.85500000 GHz Alf GalecLaw Af GalecLaw								Frequency
Ref Offset 14 dB 10 dB/div Ref 30.00 dBm									
20 n 10.0			mound	keneinumennes	at a second and	m.			Center Free 1.855000000 GH
40.0		1			-	1			
20.0 20.0 ArwyAlly	multurere	pod			_		Antortwork	nally hereine here	
40.0	-			_	_		-		
Center 1.8	66 CH1+						0	an 20 MHz	CF Step 2.000000 MH
#Res BW 2			_	#VBW 62	0 kHz			eep 1 ms	Auto Mai
Occupi	ed Band		279 MH		Power	29	9.6 dBm		Freq Offse 0 H
Transmi	t Freq En	ror	18.945 kH	Z OBW	Power	1.0	99.00 %		
x dB Ba	ndwidth		10.36 MH	z x dB		-2	6.00 dB		
						-			

#### Band25 10MHz 16QAM 50 0 Main MidCH26365-1882.5



#### Band25\_10MHz\_16QAM\_50\_0\_Main\_HighCH26640-1910

RT	q 1.910000000	Trig:	r Freq. 1.910000000 GHz Free Run Avg/Hok n: 30 dB	ALINE MUTE	Radio Sto		Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm					1.1	
20 n 10.0		manina					Center Fred 1.91000000 GHz
000 -100 -200 6	. /	1		N			-
-20.0	Andrew Contraction				of the contract	the state of the s	
-90.0 							CF Step
Center 1.91 #Res BW 20			VBW 620 kHz	1.1		an 20 MHz eep 1 ms	2,000000 MH Auto Mar
Occupie	ed Bandwidt 9.(	n D684 MHz	Total Power	29.1	8 dBm		Freq Offse 0 Ha
Transmit x dB Ban	Freq Error Idwidth	23.277 kHz 10.41 MHz	OBW Power x dB		9.00 % .00 dB		
Netici				STATU	6		

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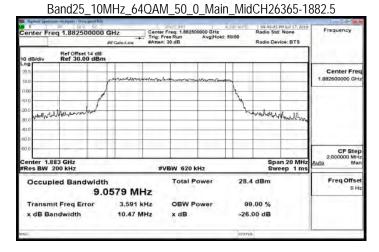
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## Report No.: T190611W02-RP Page 162 of 480

## Band25\_10MHz\_64QAM\_50\_0\_Main\_LowCH26090-1855

Against Sheers	An averal Ora	Association in the	_	1.5	ise mil			100.015	PM 510 17, 2019	10.4
Center Fre	eq 1.85500		GHz MFGaintow	Center Fr	eq: 1.85500 Run			Radio St		Frequency
10 dB/div	Ref Offset Ref 30.00								1.1	10 1 10
20 11 10.0			mum	Junghorn	~~~~~	and the second second	7			Center Fre 1.855000000 GH
0.00		1			-		1			
300 Urland	production national	*/					.40	-acay in	manany	
90.0 00.0										CF Ste
Center 1.8 #Res BW				#VB	W 620 k	Hz			an 20 MHz eep 1 ms	2.000000 MH Auto Ma
Occup	ied Band		601 MH		Total P	ower	28.0	3 dBm		Freq Offse 0 H
	nit Freq Err	or	15.685 ki 10.55 Mi		OBW P	ower		0.00 %		
utic.							STATU			



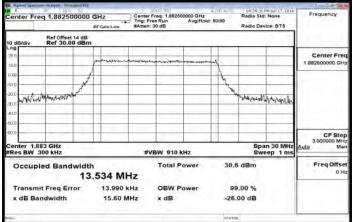
#### Band25\_10MHz\_64QAM\_50\_0\_Main\_HighCH26640-1910

RT	g 1.910000000	GHz AFGain:Low	Center Freq: 1.910000000 GHz Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBn						1.41	
20 n 10.0		manne	monorman					Center Freq 1.91000000 GHz
400	. 1		-		1			
-20.0 -30.0 (BM)-hul -40.0	Whithermone					medicana	In-Amer	
900 900								CF Step
Center 1.91 #Res BW 20			#VBW 620 1	Hz			n 20 MHz ep 1 ms	<u>Auto</u> Mar
Occupie	ed Bandwidt 9.	<sup>ь</sup> 0683 МН	Total P	ower	28.7	dBm		Freq Offse 0 Ha
Transmit x dB Ban	t Freq Error Idwidth	15.931 kH 10.52 MH		ower		00 % 0 dB		
Netic:					STATUS			

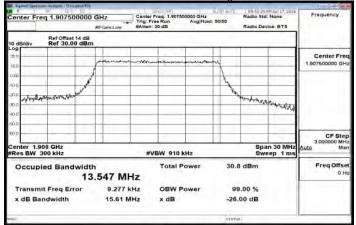
## Band25\_15MHz\_QPSK\_75\_0\_Main\_LowCH26115-1857.5

R	Su C	and a second	sense IMI er Freg. 1.857500000 GHz	ALIGH AUTE BALS	7 26 PM 847 17, 2019	Frequency			
Center Fred	1.857500000	Std: None Device: BT5	Traduticy						
10 dB/div	1								
20.0	man more any south on the state of the south								
0.00				X		1.857500000 GH			
40 Q	1	e.		A.	-				
30.0 WTW/ 4.	havymith			Berner	Anthermonation				
40.0					-				
-50.0 									
						CF Step 3.000000 MHz			
Center 1.85 #Res BW 30			#VBW 910 kHz		Span 30 MHz Sweep 1 ms	Auto Mar			
Occupie	ed Bandwidt 13	h 3.549 MHz	Total Power	30.8 dBm	1	Freq Offse 0 H			
Transmit	Freq Error	59.349 kHz	OBW Power	99.00 %					
x dB Ban	dwidth	15.70 MHz	x dB	-26.00 dE	3				
				Laure I					

#### Band25 15MHz QPSK 75 0 Main MidCH26365-1882.5



#### Band25\_15MHz\_QPSK\_75\_0\_Main\_HighCH26615-1907.5



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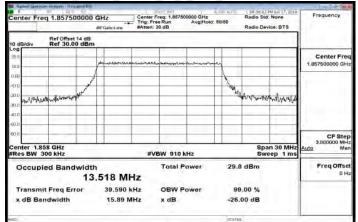
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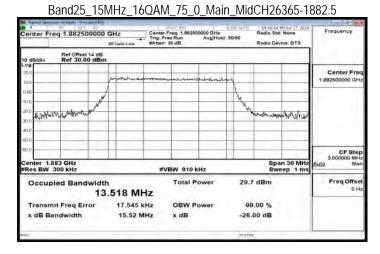
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#### Band25\_15MHz\_16QAM\_75\_0\_Main\_LowCH26115-1857.5





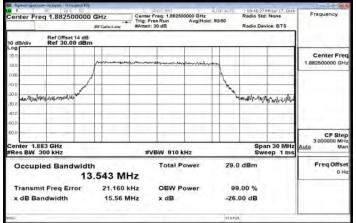
#### Band25\_15MHz\_16QAM\_75\_0\_Main\_HighCH26615-1907.5

alam Bern	- Annyan I Orac	taking <u>B</u> (A	_		aus- uni		AUTORNAL			10.4.63
Center Fre	q 1.90750		SHz #FGain:Low	Center Trig: Fi	Center Freq. 1.907500000 GHz Radii Trig: Free Run Avgittold: 50/50				Wibe: BTS	Frequency
10 dB/div	Ref Offset								1.1	1.1
200				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	in maninima	minis	-			Center Freq 1.907600000 GHz
40.0		1			-		1	-		
ano www.	polarinterend	e la compañía de la compa					, ,	Shares when	Margherry	
40.0										
Center 1.9		_	1						an 30 MHz	CF Step 3.000000 MH Auto Mar
Cccupi	ied Band		538 MI	1	Total P		21	3.8 dBm	reep 1ms	Freq Offse 0 H
Transm x dB Ba	it Freq Erro ndwidth	or	26.738 k 15.89 N		OBW P	ower		99.00 % 6.00 dB		
ursic:							517	TUS-	-	

#### Band25\_15MHz\_64QAM\_75\_0\_Main\_LowCH26115-1857.5

R	eq 1.85750000	GHz	Center Freq: 1.867	500000 GHz	ALINY AUTO	Radio Sto	PM 347 17, 2019	Frequency		
		MFGain:Low	Trig: Free Run #Atten: 30 dB	Avgittoid	: 50/50	Radio De	vice: BTS	1.1		
10 dB/div	Ref Offset 14 dB Ref 30.00 dB						3.41	1.1		
20 m	-									
10.0		rementer	a and the second second second		-wy	-	-	1.857500000 G		
0.60		A		-		-	-			
40.0	5				X					
ma Monthing	al pulser of a mainte					and the second second	NUMBER			
40.0	1.1.1.1			_		1	12			
-90.0				_		-		1		
000						-	-	CF Ste		
Center 1.8 #Res BW		11	#VBW 910	kHz			an 30 MHz eep 1 ms	3,000000 MH Auto Ma		
Occup	ied Bandwid 1	<sup>th</sup> 3.511 MH	0 m mm	Power	28.6 dBm			Freq Offse		
Transm	it Freq Error	z OBW	OBW Power 99.00 %							
x dB Ba	andwidth	15.78 MH	tz x dB		-26	Bb 00.				
1.1.1.1.1.1.1					_					

#### Band25 15MHz 64QAM 75 0 Main MidCH26365-1882.5



#### Band25\_15MHz\_64QAM\_75\_0\_Main\_HighCH26615-1907.5

allan Barro	-Annyati Ortuged	B W		ans mi		A DUT NUC		198 846 17 2019	10.4.63
Center Freq 1.907500000 GHz Center Freq 1.95700000 GHz Radio Stati None #FGainsLow Atten: 30 dB Radio Device BTS									Frequency
10 dB/div	Ref Offset 14 c Ref 30.00 di							1.1	1.1
200 10.00		minimum	- Antone .		-ne Min	~			Center Free 1.907600000 GH
40.0		A				A.	-		
30.0	n han the ange of the second		-	-	-		"White white	manut	
40.0			-			-	-		
Center 1.90		11	#\	/BW 910 P	Hz			an 30 MHz reep 1 ms	CF Ste 3.000000 MH Auto Ma
Occupied Bandwidth Total Power 29.1 dBm 13.531 MHz									Freq Offse 0 H
	Transmit Freq Error 7.249 kHz x dB Bandwidth 15.57 MHz						9.00 % 5.00 dB		
ALC:						STAT	ut-		

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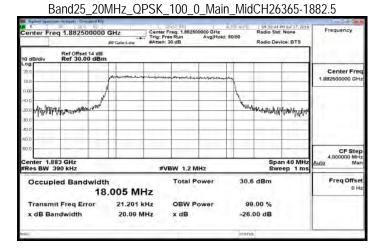
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## Report No.: T190611W02-RP Page 164 of 480

#### Band25\_20MHz\_QPSK\_100\_0\_Main\_LowCH26140-1860

agent Sector	Annyati Orta	Interest Bilds	_		ans mi		UND WATE		PM bin 17, 2019	10.4
Center Fred	Center Freq 1.86000000 GH2 Alf Cent.ew Afrights 20 dB Afrights 20 dB Afrig									Frequency
10 dB/div	Ref Offset 14 dB 10 dB/div Ref 30.00 dBm								10.00	
20 n 10.0			rain	an same	Anna	-	7			Center Fre 1.850000000 GH
0.00 -100 -200 -300	Manufactured	- and					In	him halfafta	halton	
40.0 										CF Ster
Center 1.86 #Res BW 39			1.1.	#\	/BW 1.2	VIHz	-		an 40 MHz eep 1 ms	4.000000 MH
Occupied Bandwidth Total Power 30.8 dBm 18.027 MHz									Freq Offse 0 H	
Transmit x dB Ban		or	73.630 20.11		OBW Power 99.00 % x dB -26.00 dB					
uric.			_				STAT	15-		



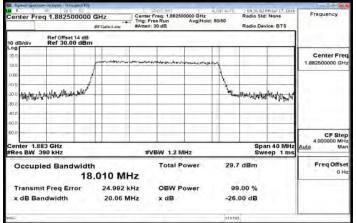
#### Band25\_20MHz\_QPSK\_100\_0\_Main\_HighCH26590-1905

allann Sherri	- Annyat   Ornand By	_		use mil		AUTOWIT		PM 500 17, 2019	10.4.63
Center Fre	Center Freq 1.905000000 GHz Center Freq 1.90500000 GHz Radio Stat: None All Calinst.ew Alguint and Augilitadi: 50/50 Radio Device: BTS								
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm							1.11	1.1
20 n 10.0	n								Center Free 1.905000000 GH:
40.0	1					X			
-200 14 4 14	White the second s						Martin and mereliant things		
-50.0								Sec.	-
Center 1.9 #Res BW 3			#VE	W 1.2 M	Hz			an 40 MHz eep 1 ms	CF Step 4.000000 MH Auto Mar
Occupied Bandwidth Total Power 30.8 dBm 18.003 MHz									Freq Offse 0 H
Transm x dB Ba	it Freq Error ndwidth	29.634 k 20.06 M		OBW P	ower		9.00 % .00 dB		
Netsici		_		-		STATU	6		

#### Band25\_20MHz\_16QAM\_100\_0\_Main\_LowCH26140-1860

Againer (genninge Annyert   Orr	v folger og til følge		Sust mil	ALIOT NO		PM 846 17, 2019	10.4.4
Center Freq 1.8600	vice: BT5	Frequency					
Ref Offsel 10 dB/div Ref 30.0						3.41	1.0
20 n	man	Krist gauge of proving	advintana an	unin			Center Free 1.85000000 GH
40.0				A			
200 Magatrahattan	Alle	-			Mulqueantry	administration of the	
40.0		_					
60.0					-	1.1	CF Ster 4.000000 MH
Center 1.86 GHz #Res BW 390 kHz			VBW 1.2 MHz			an 40 MHz eep 1 ms	Auto Ma
Occupied Banc		Freq Offse 0 H					
Transmit Freq Er	Transmit Freq Error 11.533 kH			r	99.00 %		
x dB Bandwidth	20	.34 MHz	x dB	-	26.00 dB		
					1.000		

#### Band25 20MHz 16QAM 100 0 Main MidCH26365-1882.5



#### Band25\_20MHz\_16QAM\_100\_0\_Main\_HighCH26590-1905

Center Free	54.0	14.1	GHz AFGaincLow	Center	Freq: 1.905000 ree Run		Big Auro Big Main 17, 2019 Radio Std: None 50/50 Radio Device: BT5			Frequency
10 dB/div	Ref Offset		An clancicow					1000 001		
	Rei JU.U		mormon	-low	manna	ministration	~			Center Free 1.905000000 GH
000 400		and I					1			
40.0	urthereicht isters	paper -						and might	han	-
60.0 60.0 Center 1.90									n 40 MHz	CF Ste 4.000000 MH Auto Ma
#Res BW 39	90 kHz			#\	VBW 1.2 M				ep 1 ms	
Occupied Bandwidth 18.010 MHz					Total Po	ower	29.9	dBm		Freq Offse 0 H
	Transmit Freq Error 38.311 kH x dB Bandwidth 19.90 MH							99.00 % -26.00 dB		
Netici							STATU	•		

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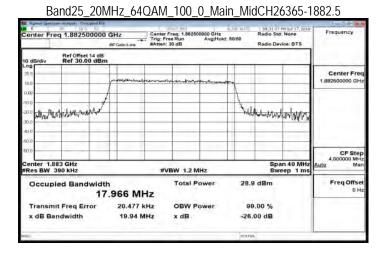
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## Band25\_20MHz\_64QAM\_100\_0\_Main\_LowCH26140-1860

allen Berner yi	Myper I Orecomed Byp		ans mi	AUR/ MUE 1 09.2	VILL PM 516 17, 2019	10 4 63
Center Freq 1	Frequency					
10 dB/div R		10.00				
20 1 10.0		per manulant and a	mound			Center Fred 1.85000000 GH;
40 Q	1 of			1 en		
200 With Ma	www.			-Partil/spic	hilder hand the state	
-00						
Center 1.86 Gi #Res BW 390			VBW 1.2 MHz		Span 40 MHz Sweep 1 ms	CF Step 4.000000 MH; Auto Mar
Occupied	Freq Offse 0 Ha					
Transmit Fi		51.443 kHz	OBW Power 99.00 %			
x dB Bandv	vidth	19.99 MHz	x dB	-26.00 dE	1	
uesic.				STATUS		



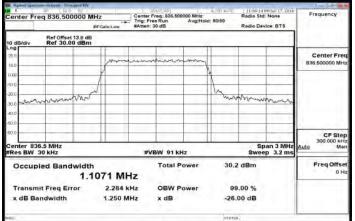
#### Band25\_20MHz\_64QAM\_100\_0\_Main\_HighCH26590-1905

allante Marrie	Annyat Ort.	tabung Bilds			-	-		- Contraction of		10.4 13
Center Fr	So									
10 dB/div	Ref Offset Ref 30.00								3.41	10 10 10
20 n 10.0		_		danten	where		4			Center Freq 1.905000000 GHz
0.00 400	). D. A.a	and the		-			X		-	
-40.0 -40.0 -40.0	phterstructure	ALV.						innertation (1)	and the second	
center 1.								Spa	n 40 MHz	CF Step 4.000000 MHz Auto Man
#Res BW	390 kHz	_		#VI	BW 1.2 M	IHZ		Swe	ep 1 ms	
Occupied Bandwidth Total Power 29.0 dBm 17.978 MHz								) dBm		Freq Offset 0 Hz
Transmit Freq Error 33.397 kHz x dB Bandwidth 19.92 MHz								00 %		
Aeric-							STATU	•		

## Band26\_1\_4MHz\_QPSK\_6\_0\_Main\_LowCH26797-824.7

Center Fr	Frequency								
10 dB/div	Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm								
2ft n 10.0		man	mining		Center Free 824.700000 MHz				
-20.0	munmut	m		humming					
-40.0 -40.0 -40.0									
Center 82 #Res BW			VBW 91 kHz	Span 3 M Sweep 3.2	AHz Auto Mar				
Occup	ied Bandwidth 1.1	066 MHz	Total Power	Freq Offse 0 H					
Transmit Freq Error x dB Bandwidth		157 Hz 1.252 MHz	OBW Power x dB	99.00 % -26.00 dB					

#### Band26 1 4MHz QPSK 6 0 Main MidCH26915-836.5



#### Band26\_1\_4MHz\_QPSK\_6\_0\_Main\_HighCH27033-848.3

allan Sheen	-Annyati Ornand Elle		205-001	ALI// MUTC 11/06/46 PM Auf 1	10 4 11				
Center Fre	Center Freq B48.300000 MHz Center Free B43.00000 MHz Radio Stid: None BFGain:Low Atten: 30 dB Radio Stid: Device: BT5								
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm	1							
10.0		minim	mannen	×	Center Free 848.300000 MH				
20.0 -20.0 -30.0	mus assured			Januar and and a second	inne				
-40.0 -50.0 -80.0									
Center 848 #Res BW 3			VBW 91 kHz	Span 3 Sweep 3.3	MHz Auto Mar				
Occupi	Freq Offse 0 H								
	it Freq Error ndwidth	2.820 kHz 1.250 MHz	OBW Power x dB						
Nerși-				STATUS					

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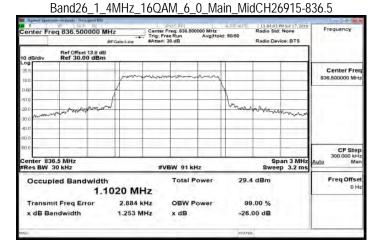
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## Band26\_1\_4MHz\_16QAM\_6\_0\_Main\_LowCH26797-824.7

allow Merce	Δαρικό τροτοιαικά παρχοτί Ογτοροιί Είν     30 50 2010 2010 2010 11 02 51 PM αμα 17 2019									
Center Fre	eq 824.700000 M	Trig:	r Freq: 824.700000 MHz	Radio Std: /	None Frequenc	Y				
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm				1					
2001		Junior	man mar my	\	Center 824.700000					
-20.0 -20.0 -30.0	mmmmmm			fundante	n man					
40.0 90.0										
Center 824 Res BW			VBW 91 kHz	Spa Sweep	n 3 MHz 3.2 ms					
Occup	ied Bandwidth 1.1	033 MHz	Total Power	29.3 dBm	FreqO	0 H				
Transmit Freq Error x dB Bandwidth		742 Hz 1.256 MHz	OBW Power x dB	99.00 % -26.00 dB						
arie .				erana l		_				



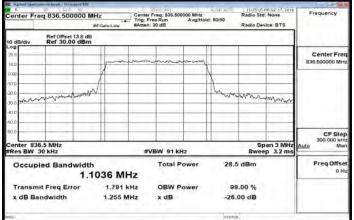
#### Band26\_1\_4MHz\_16QAM\_6\_0\_Main\_HighCH27033-848.3

allow Marrie	Annyat   Ortagent Bi	۷			-	_	*		-	10 4 68
Center Fre	eq 848.300000	MHZ			eg. 848.300 e Run 0 dB		ALIG/ NUTC	Radio Std		Frequency
10 dB/div	Ref Offset 13.8 c Ref 30.00 dB								3.41	
20.0			provense	e martin and the same	antonio antone	m				Center Freq 848.300000 MHz
40.0 	www.mr.h	M					han	-	anon	
-30.0										
40.0 40.0 Center 841										CF Step 300.000 kHz
#Res BW				#VE	W 91 kH	z		Swee	an 3 MHz p 3.2 ms	<u>Auto</u> Man
Occupied Bandwidth Total Power 29.5 dBm 1.1102 MHz								Freq Offset 0 Hz		
		5.146 H		OBW P	ower		.00 % 00 dB			
Aesic-							STATUS	1	-	-

#### Band26\_1\_4MHz\_64QAM\_6\_0\_Main\_LowCH26797-824.7

allen Seco	An Angent   Ornand By	-	1 Sustant	A DEF MITS		1.00 17 2019 F	10.4.63
Center Fre	eq 824.700000 M	7	enter Freg: 824.700000		Radio Std: Radio Devi	None	Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm			-		1.1	
20 11 10.0		provenue	man	m			Center Free 824.700000 MH
10.0		A		A		-	
30.0 KAMAA	and a subscription of the			and the second	Annor	North C	
-90.0 						_	CF Step 300.000 kH
Center 824 #Res BW 3			#VBW 91 kHz		Spa Sweep	n 3 MHz 3.2 ms	Auto Mar
Occup	ied Bandwidt 1.	h 1022 MHz		Total Power 28			Freq Offse 0 H
	it Freq Error indwidth	-128 Hz			9.00 % .00 dB		

## Band26 1 4MHz 64QAM 6 0 Main MidCH26915-836.5



#### Band26\_1\_4MHz\_64QAM\_6\_0\_Main\_HighCH27033-848.3

allan	Annyat   Ortugent Bill		205-001	ALIST MUTC 11107 45 PM 800	10 2 21
Center Fre	eq 848.300000 M	Trig:	r Freg. 848.300000 MHz	Radio Std: Non	Frequency
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm				
20 n 10.0		former	mun		Center Free 848.300000 MH
0.00 		A			
-200 -300	montessarihan	al		manan	w-nw-
400					
-90 0					CF Ster 300.000 kH
Center 841 #Res BW			VBW 91 kHz	Span Sweep 3	3 MHz Auto Ma .2 ms
Occup	ied Bandwidth 1.1	088 MHz	Total Power	29.5 dBm	Freq Offse 0 H
	it Freq Error Indwidth	3.534 kHz 1.258 MHz	OBW Power x dB	99.00 % -26.00 dB	
Netija				STATUS	1

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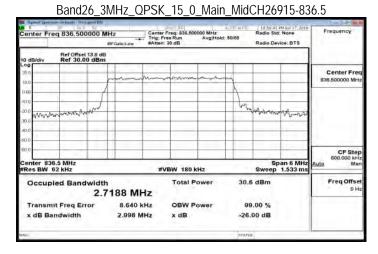
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#### Band26\_3MHz\_QPSK\_15\_0\_Main\_LowCH26805-825.5

again Sheer	- An myrat I Orta	And Bid		sinse mil	ALM/AUX 13054	54 PM No 17, 2019	10 4 2
Center Fr	eq 825.500		Trig:	r Freq. 825.500000 MHz Free Run Avg Hol n: 30 dB	Radio 5 d: 50/50	itd: None Nevice: BT5	Frequency
10 dB/div	Ref Offset Ref 30.0		5			1	
20 11			mannum	morin	~		Center Fre 825.500000 MH
0.00		1			A		
Amon 0.00	munm	W			puran	Manar Ar	
40.0	-						
00.0							CF Ste
Center 82 #Res BW			1	VBW 180 kHz		Span 6 MHz p 1.533 ms	Auto Ma
Occup	ied Band		131 MHz	Total Power	29.7 dBm		Freq Offs 01
Transmit Freq Error -919 Hz x dB Bandwidth 2.991 MHz				OBW Power x dB	99.00 % -26.00 dB	3 - 11	
	00 100 20		-200 - 04400	1. M.	status		



#### Band26\_3MHz\_QPSK\_15\_0\_Main\_HighCH27025-847.5

allow Marin	- Annyati Ornand Bile			-		-		-	10.4.68
Center Fre	q 847.500000 M	MFGaintow	Center Fr Trig: Fre	Center Freq. 847.500000 MHz Trig: Freq. Run Avg Hold: 50/50 #Atten: 30 dB			Radio St	d: None avice: BTS	Frequency
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm							1.1	
20.0		manner	mature	m		7			Center Freq 847.500000 MHz
000 						L			
30.0	Warmen Pr						and man	minner	
-40.0						-			
Center 847	6 Mills							pan 6 MHz	CF Step 500.000 kH
#Res BW 6			#VE	W 180 ki	Hz		Sweep	1.533 ms	Auto Mar
Occupi	ied Bandwidti 2.7				2 dBm		Freq Offset 0 Hz		
Transmi x dB Ba	it Freq Error ndwidth	10.648 k 3.019 M		OBW Po x dB	wer		9.00 % .00 dB		
Nerșa:						57A13	15		L

#### Band26\_3MHz\_16QAM\_15\_0\_Main\_LowCH26805-825.5

R	q 825.500000 I	MHz Cent	Freq. 825.500000 MHz Freq. 825.500000 MHz Free Run AvgiHole n: 30 dB	ALINI MUYE d: 50/50	Radio Std Radio Dev		Frequency
10 dB/div	Ref Offset 13.8 dl Ref 30.00 dBn					1	
200 n 10.0		pannin	man	2			Center Free 825.500000 MH
000-001-001-		1		A	-		
-200 -300 -400	www.compand			14	mululum	are all and the	
400 400							CF Stej 500.000 kH
Center 825 #Res BW 6			VBW 180 kHz		Sp Sweep	an 6 MHz 1.533 ms	
Occupi	ed Bandwidt 2.	<sub>h</sub> 7128 MHz	Total Power 29.		5 dBm		Freq Offse 0 H
the second se		1.063 kHz 3.007 MHz	OBW Power x dB		99.00 % -26.00 dB		

#### Band26 3MHz 16QAM 15 0 Main MidCH26915-836.5



#### Band26\_3MHz\_16QAM\_15\_0\_Main\_HighCH27025-847.5

alam Stern	an Annyan I Ornand Bill		100 million 100	2.000	10.4
Center Fre	q 847.500000 I	Trig:	Freq. 847.500000 MHz Free Run Avg Hold n: 30 dB	ALISI AUTO 10.5444 (Maur 17 Radio Std: None : 50/50 Radio Device: BT	Frequency
10 dB/div	Ref Offset 13.8 dl Ref 30.00 dBn				1.1
zhn inp		mon	man man		Center Free 847.500000 MH
0.0	1	4			
	monnor			Lannannan	N <sup>a</sup> tru
40.0					
000					CF Ste
Center 847 Res BW 6			VBW 180 kHz	Span 6 I Sweep 1.533	MHz Auto Ma
Occupi	ied Bandwidt 2.	<sup>h</sup> 7181 MHz	Total Power	29.3 dBm	Freq Offse 0 H
Transmi x dB Ba	it Freq Error ndwidth	9.219 kHz 2.998 MHz	OBW Power x dB	99.00 % -26.00 dB	
etji:-				STATUS	

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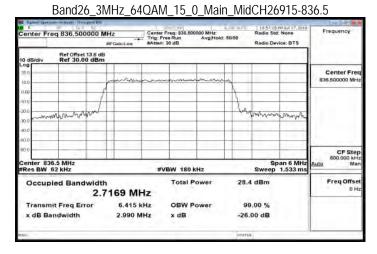
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## Band26\_3MHz\_64QAM\_15\_0\_Main\_LowCH26805-825.5

allante Marris	Annyan Orangen Bi	*	-305-001	ALIM AND 105526PM an 17	10.4
Center Fr	eq 825.500000	Trig:	er Freg. 825.500000 MHz Free Run Avgittok m: 30 dB	Radio Std: None	Frequency
10 dB/div	Ref Offset 13.8 o Ref 30.00 dB				
20 n 10.0		mannam		~	Center Free 825.500000 MH
0.00 -100		A			-
-20.0 -30.0 -40.0	arman manage and			male mar and	drew.
90.0 90.0					CF Ste
Center 82 Res BW			#VBW 180 kHz	Span 6 P Sweep 1.533	MHz Auto Ma ms
Occup	ied Bandwid 2	<sup>th</sup> .7223 MHz	Total Power	28.6 dBm	Freq Offse 0 H
	nit Freq Error andwidth	-624 Hz 3.004 MHz	OBW Power x dB	99.00 % -26.00 dB	
ASC.				STATUS	



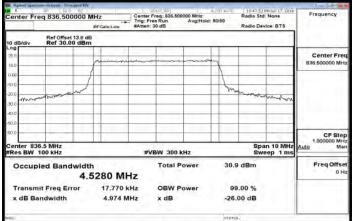
## Band26\_3MHz\_64QAM\_15\_0\_Main\_HighCH27025-847.5

all all some literation	-Annyan Ornapped Bill		1	-	-	10.4 68
Center Fre	eq 847.500000 N		sing: Free Run Avg Hi Itten: 30 dB	ALTON MUTC	Radio Std: Non Radio Device: E	Frequency
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm					- 1
20.0		monom	mannen			Center Freq 847.500000 MHz
0.00 				La		
30.0	warmon March				- manyacarage	min
-50.0						CF Step
Center 84 #Res BW			#VBW 180 kHz		Span ( Sweep 1.5	6 MHz Auto Man
Occup	ied Bandwidth 2.7	, 179 MHz			dBm	Freq Offset 0 Hz
	it Freq Error Indwidth	15.452 kHz 3.001 MHz	OBW Power x dB		.00 % Bb 00	
Aesici				STATUS	1	1.

#### Band26\_5MHz\_QPSK\_25\_0\_Main\_LowCH26815-826.5

	Analysis   Original Bill		ans mil	ALUD MUT: 130:45	02 PM 000 17: 2019	1.0.4.6
Center Fre	eq 826.500000 l	Trig:	r Freq. 826.500000 MHz Free Run Avgittolo n: 30 dB	Radio 1: 50/50	Std: None Device: BT5	Frequency
10 dB/div	Ref Offset 13.8 dl Ref 30.00 dBn					
20 n 10.0		formania	man march	-		Center Free 825.500000 MH
0.00 40.0	- and			1		
30.0 30.0 40.0	where where where the second			. A adverter	ะการงารงารการการ	
-500						
Center 826 #Res BW 1	pan 10 MHz Sweep 1 ms	CF Stej 1.000000 MH Auto Ma				
Occupi	ied Bandwidt 4.	<sup>h</sup> 5139 MHz	Total Power	30.4 dBm		Freq Offse 0 H
		3.618 kHz 4.978 MHz	OBW Power x dB	99.00 % -26.00 dB		

#### Band26 5MHz QPSK 25 0 Main MidCH26915-836.5



#### Band26\_5MHz\_QPSK\_25\_0\_Main\_HighCH27015-846.5

R.	sq 846,500000 M	Trig	ter Freq. 846.500000 MHz Free Run AvgiHolo en: 30 dB	ALIST MUTC	Radio Dev		Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm					3.41	
20 n 10.0		Jumenter	manner	un			Center Free 846.500000 MHz
40 Q	. A month			Im	Print.	_	
30.0	arman harman				anapar.	to some all a	
-900 -900							CF Ster
Center 846 #Res BW 1		11-1-	#VBW 300 kHz		Spa Swe	n 10 MHz ep 1 ms	1.000000 MH Auto Mar
Occupi	ed Bandwidt 4.	5340 MHz	Total Power	30.5	i dBm		Freq Offse 0 H
Transmit Freq Error20.077x dB Bandwidth4.940 M					00 dB		
Netic:				STATU	1		

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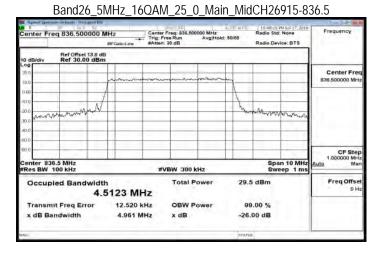
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## Band26\_5MHz\_16QAM\_25\_0\_Main\_LowCH26815-826.5

allante filerer	An appent   Orac pred Bill	(		ALTON MUTC 1 10/45/34 PM	10 4 11
Center Fre	eq 826.500000	Trig:	Freq. 826.500000 MHz Free Run Avg Hold n: 30 dB	Radio Std: N	Frequency
10 dB/div	Ref Offset 13.8 d Ref 30.00 dBr				
20 n 10.0		mumman	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~	Center Free 825.500000 MH
0.00 	the second				
30.0 40.0	www.shanna			benerblesenthe	munh
80.0 80.0					CF Ste
Center 82 #Res BW			VBW 300 kHz		10 MHz Auto Ma
Occup	ied Bandwid 4.	th 5065 MHz	Total Power	29.6 dBm	Freq Offse 0 H
	iit Freq Error andwidth	10.094 kHz 4.941 MHz	OBW Power x dB	99.00 % -26.00 dB	



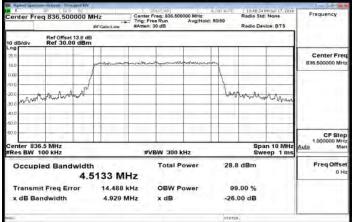
#### Band26\_5MHz\_16QAM\_25\_0\_Main\_HighCH27015-846.5

all and there	Annyat Ort	Langered Billy	-		-	_				10 4 68
Center Fre	eq 846.500		Hz MFGain:Low	Center F Trig: Fre #Atten: 1		Avg Hold:	107 AUTO	Radio St	William 17, 2015 d: None wice: BTS	Frequency
10 dB/div	Ref Offset Ref 30.0			_					1.1	
20 m 10.0			man	mm	mini	mmmm	2			Center Freq 846.500000 MHz
0.00 	-	1		-			A			
-20.0 WWW -30.0 -40.0	was all a second	yur.						en interenter	mounture	
-50.0										CF Step
Center 840 #Res BW				#VI	BW 300 H	(Hz	-		an 10 MHz reep 1 ms	1.000000 MHz
Occupied Bandwidth 4.5189 MHz				Hz	Total P	ower	29.	7 dBm		Freq Offset 0 Hz
Transmit Freq Error 23.098 k x dB Bandwidth 4.955 M						99.00 % -26.00 dB				
Nesico	_						5781	us		-

#### Band26\_5MHz\_64QAM\_25\_0\_Main\_LowCH26815-826.5

Center Fred	Ref Offset 13. Ref 30.00 d	#	++	Center F	req. 826.600	000 MHz				Frequency				
				Center Freg 826.500000 MHz Center Freg 826.50000 MHz ArGainLaw ArGainLaw ArGainLaw ArGit Freg Run ArgiNod.>6000 Radio Davios: BT5 Radio Davios: BT5										
10 dB/div	3.47													
20.0		1	manet to Norm	m	-		~			Center Free 825.500000 MH				
40.0		1		-	-		1							
30.0 WVM	-n-Monarathanh	1.24					tino	Www.Mark	mmm					
-50.0 		-					-			CF Ste				
	Center 826.5 MHz Span 10 MHz Span 10 MHz Res BW 100 kHz Sweep 1 ms									1.000000 MH Auto Mar				
Occupied Bandwidth 4.4979 MHz					Total P	ower	28.7	7 dBm		Freq Offse 0 H				
		3.255 H	10,100	OBW Power				99.00 %						
	- mede		10000											

## Band26 5MHz 64QAM 25 0 Main MidCH26915-836.5



#### Band26\_5MHz\_64QAM\_25\_0\_Main\_HighCH27015-846.5

allant Mercele	Annyan   Orespeed By		205-00	N THE MILE	10.51 17 PM No. 17.2	10.4
Center Free	Frequency					
10 dB/div						
200 10.0		por manan	and the second	-		Center Free 846.500000 MH
40.0 	-			hum	- And Marine	
40.0	Canal and a canal of				Manufa	~~~
90.0 90.0						CF Ste 1.000000 MH
Center 846. ≇Res BW 1		4	VBW 300 kHz		Span 10 M Sweep 1 r	
Occupie	ed Bandwidti 4.5	5277 MHz	Total Power 28		dBm	Freq Offse 0 H
Transmit x dB Ban	t Freq Error Idwidth	21.679 kHz 4.949 MHz	OBW Power x dB		.00 % 00 dB	
ALSE-				STATUS		

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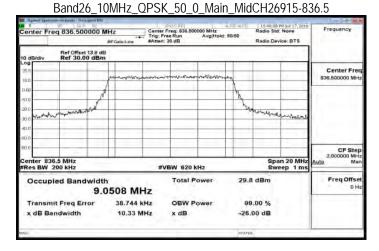
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## Report No.: T190611W02-RP Page 170 of 480

#### Band26\_10MHz\_QPSK\_50\_0\_Main\_LowCH26840-829

R	- Annyani Ornani Su		anter Freq. 829.000000 MHz		Maun 17, 2019	Tequency				
Center Fre	None P	Indreuck								
10 dB/div	1.1									
20 1	1 marine and an									
0.00 		M		X						
300	- American and a			high margaret						
40.0										
Center 829						CF Step 2,000000 MH				
#Res BW 2			#VBW 620 kHz		ep 1 ms	Ma				
Occup	Occupied Bandwidth Total Power 30.7 dBm 9.0709 MHz									
Transm	It Freq Error	12.783 kHz	OBW Power	99.00 %						
x dB Ba	ndwidth	10.56 MHz	x dB	-26.00 dB						
unic.				status						

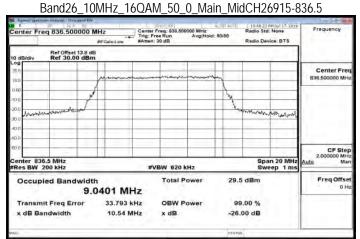


#### Band26\_10MHz\_QPSK\_50\_0\_Main\_HighCH26990-844

844.000000 M	Hz		reg. 844.000	AL	DIVER NO		Million 17, 2019	Provide and a second	
	AIF CRINCLOW	#Atten: 3		AvgiHold: 5	Radio Std Radio Dev		Frequency		
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm Log r									
	-	bringenien	Annon	umaa		-		Center Freq 844.000000 MHz	
1		-			Jun .				
mannent					54		m.		
						-	1		
								CF Step	
VIHz 0 kHz		#VE	5W 620 k	Hz					
	Total Power			30.2	dBm		Freq Offset 0 Hz		
Freq Error					99.00 %				
	Ref 30.00 dBm	Ref 30.00 dBm           Antz           Antz           9 kHz           #VBW 620 kHz           d Bandwidth           9.0981 MHz           Freq Error           23.099 kHz         OBW Power           9 width         10.62 MHz	Ref 30.00 dBm           Image: Second	Ref 30.00 dBm					

#### Band26\_10MHz\_16QAM\_50\_0\_Main\_LowCH26840-829

Center Freq	829.000	INGRE 17, 2015 d: None wice: BTS	Frequency							
10 dB/div										
20 1 10.0			min	aneria	en and the second	and the second	~			Center Freq 829.000000 MHz
0.00 -100		1		-	-		X			
-20.0 -30.0 -40.0	and fither	rd <sup>14</sup>						-	Murmerletter	
				-					-	
Center 829   #Res BW 20				#	VBW 620 k	Hz	1		an 20 MHz reep 1 ms	CF Step 2.000000 MHz Auto Man
Occupie	d Band	551 M	Hz	Total Po	ower	ver 29.6 dBm		Bm Fr		
	Transmit Freq Error 24.839 k x dB Bandwidth 10.50 M				OBW Power x dB			9.00 % 5.00 dB	11	



#### Band26\_10MHz\_16QAM\_50\_0\_Main\_HighCH26990-844

R R	PM 346 17, 2019	Frequency								
Center Pro	eq 844.00000	MFGaincLow	Center I Trig: Fr #Atten:	Trig: Free Run Avg Hold: 50/50 #Atten: 30 dB				vice: BT5	and the second	
10 dB/div	1.1									
20 ŋ										
0.00		A	-			1			844.00000 MH;	
-10.0	mounementerst	4				1	million			
30.0	Aldine					-	muthawarange	with		
40.0							-	J.		
000						-	-		CF Step	
Center 84 Res BW			#V	BW 620 kH	łz	-		an 20 MHz eep 1 ms		
Occup	ied Bandwid 9	Ith .0987 Mi	Ηz	łz			6 dBm		Freq Offse 0 Ha	
Transm	it Freq Error	16.403	Hz				9.00 %			
x dB Ba	andwidth	10.55 N	Hz	x dB		-26	Bb 00.			
etja:				-		STAR	us-			

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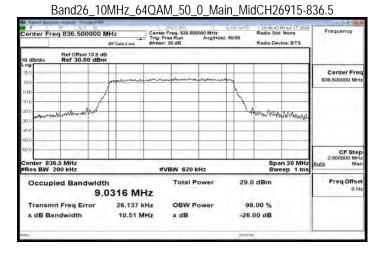
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## Report No.: T190611W02-RP Page 171 of 480

### Band26\_10MHz\_64QAM\_50\_0\_Main\_LowCH26840-829

allann Jhern	Annyat Ortag	agend Billio		1.5	ise mil		LINI NITE	-	5 PM Jun 17, 2019	10.4
Center Fr	Frequency									
Ref Offset 13.8 dB 10 dB/div Ref 30.00 dBm										
20.0			manna	man	planumter	مردل سيردعانه	2			Center Free 829.000000 MH
0.00 		1					1	-	-	
000	Manmaham	<u>uv</u>						- Altraiter	ntronand,	
-40.0				_			-			
Center 82 #Res BW				#VE	W 620 H	Hz	1		an 20 MHz veep 1 ms	CF Step 2,000000 MH Auto Mar
Occup	Occupied Bandwidth Total Power 28.8 dBm 9.0762 MHz									Freq Offse 0 H
	nit Freq Erro andwidth	or	13.597 kH 10.50 MH		OBW P	ower		9.00 % .00 dB		
665	and and die						STAT	<i>R</i> .		



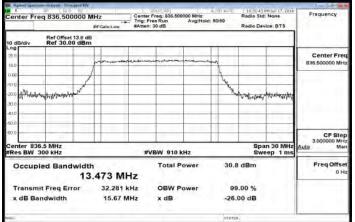
#### Band26\_10MHz\_64QAM\_50\_0\_Main\_HighCH26990-844

all all some literation	Annyati Ortagent	θŴ		2055.00		A DOT WITE			10 4 68
Center Fre	Vice: BTS	Frequency							
10 dB/div	1.1								
20.0		menes	Mannen		-	wy			Center Freq 844.000000 MHz
0.00 -10 Q		1		-		A		-	
-20.0 -20.0 -40.0	and a superior						watter	Wheel	
-50.0								1	CF Step
Center 84 #Res BW		1	#	VBW 620 1	KHZ			an 20 MHz reep 1 ms	2.000000 MHz
Occup	ied Bandwie S	dth 9.1626 N	/Hz	Total P	ower	28.	7 dBm		Freq Offset 0 Hz
	it Freq Error indwidth	21.82 10.56		OBW P	ower		9.00 % .00 dB	11	
Aerija						57AD	us-		

#### Band26\_15MHz\_QPSK\_75\_0\_Main\_LowCH26865-831.5

Center Free	None	Frequency					
10 dB/div							
20 1 10.0		Jos manune and the second	an der an son die son die son anderen a	-			Center Free 831.500000 MHz
0.0 0 0 0	1	1		10 May			-
30.0	n an			N	Aunahauna	Marsan A	
-40.0							-
Center 831. #Res BW 3			#VBW 910 kHz	11		n 30 MHz eep 1 ms	CF Step 3.000000 MH; Auto Mar
Occupie	ed Bandwid 1:	<sup>th</sup> 3.577 MHz	Total Power	30.9	) dBm		Freq Offse 0 H
Transmit	Freq Error	45.594 kHz	OBW Power	99	9.00 %		
x dB Bar	dwidth	15.73 MHz	x dB	-26.	00 dB		
							-

#### Band26 15MHz QPSK 75 0 Main MidCH26915-836.5



## Band26\_15MHz\_QPSK\_75\_0\_Main\_HighCH26965-841.5

alam throws	-Annyan I Ornan	and Bills			ins- mi		AUDAU	- citabar	PM No. 17, 2019	10 4 11
Center Free	Vice: BTS	Frequency								
10 dB/div										
200 10.0	Center Free 841.50000 MH									
0.00 400		1					X			
-200 miles	Webnyghunner	r					,	the monthly		
400 -900			_						Allagamore	
000 Center 841.			1							CF Ster 3.000000 MH
#Res BW 3				#V	BW 910 P	Hz		Sw	eep 1 ms	Auto Ma
Occupied Bandwidth Total Power 30.7 dBm 13.551 MHz										Freq Offse 0 H
Transmit x dB Ban	t Freq Erro Idwidth	or	41.737 15.75 I		OBW P	ower		99.00 % 5.00 dB		
atga-							STA	rus-		

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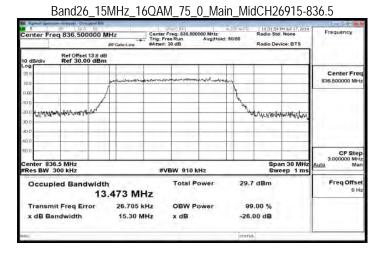
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## Band26\_15MHz\_16QAM\_75\_0\_Main\_LowCH26865-831.5

R	аналаран Оттаран 50			STISTER	ALLUT ALL		PM 546 17, 2019	1,0,14,01	
Center Fre	1: None vice: BT5	Frequency							
10 dB/div	1.1								
20.0	phone and a stranger and a stranger that a stranger								
40.0		1			1				
-200 Worthad	por set a server					Www.anting	and manufactor		
40.0						-			
60.0							-	CF Ste 3.000000 MH	
Center 831 #Res BW 3				VBW 910 kHz			an 30 MHz eep 1 ms	Auto Ma	
Occupi	Occupied Bandwidth Total Power 29.9 dBm 13.574 MHz								
Transmi	t Freq Error	4	8.241 kHz	OBW Power	0.0	99.00 %			
x dB Ba	ndwidth	1	5.79 MHz	x dB	-2	6.00 dB			
***					578	THE			

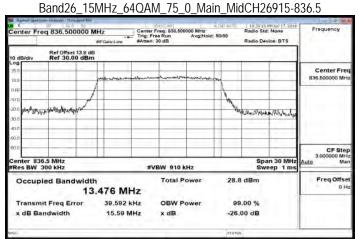


#### Band26\_15MHz\_16QAM\_75\_0\_Main\_HighCH26965-841.5

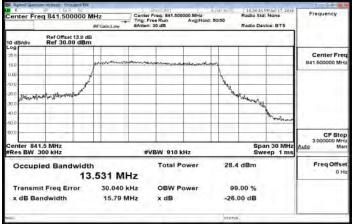
all all some literation	Annyan   Ornand B	W		austuni		NUMBER		-	10 4 68
Center Fre	Vice: BTS	Frequency							
10 dB/div	1.1								
20.0		Jermann	how they are	aminina.	-	m			Center Freq 841.500000 MHz
0.00 -10 0 -20 0	al amageman and	x#	-			And a			
-30.0 -40.0	A.Chendelle		_				the second	5	
-90.0								Minui	
Center 84 #Res BW			#\	BW 9101	KHZ			an 30 MHz eep 1 ms	CF Step 3.000000 MHz Auto Man
Occup	ied Bandwid 1	<sup>ith</sup> 3.537 M	Hz	Total P	Total Power 29.8 dBm				Freq Offset 0 Hz
	it Freq Error	31.886					.00 %		
x dB Ba	andwidth	15.51	MHz	x dB		-26.	00 dB		
Augo:						STATU	-		-

#### Band26\_15MHz\_64QAM\_75\_0\_Main\_LowCH26865-831.5

adama Mananay	anyoni Orna	end Bill	_		inse mil		L. / Alles		-PM 846 17 2019	10 4 6
Center Freq	831.5000		Hz MFGaincLow	Center F	req. 831.600 e Run			Radio St	d: None vice: BT5	Frequency
	Ref Offset 1 Ref 30.00		5		_				1.1	
20 n 10.0			mond	And the second	pagement	-running	-			Center Free 831.500000 MHz
40.0		1					N			
300 200 WYANNAM	William and and	ar.		_			- `	aparately.	nyannahaha	
40.0							1	-		
000										CF Step 3.000000 MH
	enter 831.5 MHz Span 30 MHz Span 30 MHz Res BW 300 kHz #VBW 910 kHz Sweep 1 ms									Auto Ma
Occupied	d Bandv		574 MI	Hz	Total P	ower	28.	9 dBm		Freq Offse 0 H
Transmit P	req Erro	r	45.825	KHZ	OBW P	ower	9	9.00 %		
x dB Band	width		15.90 N	Hz	x dB		-26	8b 00.		
							-			



#### Band26\_15MHz\_64QAM\_75\_0\_Main\_HighCH26965-841.5



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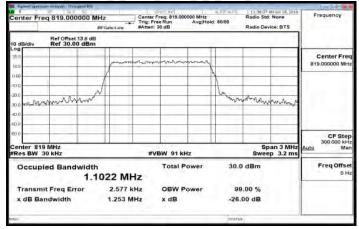


## Report No.: T190611W02-RP Page 173 of 480

## Band26\_Part90s\_1\_4MHz\_QPSK\_6\_0\_Main\_LowCH26697-814.7

allante Martin	Annyan   Ornand Bile		305 101		NUM WITE	100000		10 4 11
Center Fre	eq 814.700000	MHz	Center Freq. 814.7 Trig: Free Run #Atten: 30 dB			Radio Std		Frequency
10 dB/div	Ref Offset 13.8 d Ref 30.00 dBr						1.11	
20 n 10.0		from		m				Center Free 814.700000 MH
0.00		A	_	4				
-30.0 -30.0 - AwAw 40.0	massimula	/			- Antone	where a	and the second s	
-90 0 -90 0		-						CF Ste
Center 814 #Res BW 3	300.000 kH Auto Ma							
Occup	ied Bandwidt 1.	h 1007 MH		Power	30.3	dBm		Freq Offse
	it Freq Error ndwidth	2.481 ki 1.252 Mi		Power		00 % 0 dB		
etic.					STATUS	-		

#### Band26 Part90s 1 4MHz QPSK 6 0 Main MidCH26740-819



#### Band26\_Part90s\_1\_4MHz\_QPSK\_6\_0\_Main\_HighCH26783-823.3

all all some littles of	An Angent   Orthogram Bits						10 4 63
Center Fre	eq 823.300000 M		enter Freq. 823.30 rig: Free Run Atten: 30 dB		Radio Std:		Frequency
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm					1.1	223.300000 Mi- CF Ste 300.000 ki- Auto Ma
20 n 10.0		mann	miningen	m			Center Freq 823.300000 MHz
400 		/		h			
30.0 <b>2000</b> 40.0	munaumunut				private a construction	Mananya	
Center 82:			#VBW 91 k		Spa	an 3 MHz A	CF Step 300.000 kHz uto Man
	ied Bandwidth	041 MHz	Total F		30.2 dBm	5 3.2 ms	Freq Offse
	it Freq Error Indwidth	1.752 kHz 1.252 MHz	OBWF	ower	99.00 % -26.00 dB		
Auso					STATUS		

#### Band26\_Part90s\_1\_4MHz\_16QAM\_6\_0\_Main\_LowCH26697-814.7

allant flatter	-Annyat   Ornand Bill		stast mil	ALIO/ AUTC 1106257	wigen 18, 2019	10 4 11			
Center Free	g 814.700000 M	Trig:	Freq: 814.700000 MHz Free Run Avg Hol h: 30 dB	Radio Std:	None	Frequency			
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm				1.1	1.5			
20.1		Anna lan	Minutin			Center Free 814,700000 MH			
0.00		1		4	-	a 14.700000 MP4			
40.0		A		A.					
-30.0	monimum			mannan	-	CF Ste 300.000 kH			
400					-				
490.0									
Center 814. #Res BW 30			\$Pan 3 MHz #VBW 91 kHz Sweep 3.2 ms						
Occupie	ed Bandwidth 1.1	020 MHz	Total Power	30.2 dBm		Freq Offse 0 H			
Transmit	Freq Error	690 Hz	OBW Power	99.00 %					
x dB Ban	dwidth	1.257 MHz	x dB	-26.00 dB					

#### Band26 Part90s 1 4MHz 16QAM 6 0 Main MidCH26740-819



#### Band26\_Part90s\_1\_4MHz\_16QAM\_6\_0\_Main\_HighCH26783-823.3

a games - passes	-An averal Orea pred Bill				ale and a	10 4 61			
Center Fre	eq 823.300000 N	-P- Trig:	er Freg. 823,300000 MHz	Radio Std		Frequency			
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm				1.1				
2ft ft 10.0		monars	mannen			Center Free 823.300000 MH			
400		1		N.					
30.0	- manufaction	w		- manual	mound	CF St( 300.000 k			
-40.0									
center 82	2.2 Mile					CF Ster 300.000 kH			
#Res BW		- 4	VBW 91 kHz	Span 3 MHz Sweep 3.2 ms					
Occup	ied Bandwidth 1.1	081 MHz	Total Power	30.0 dBm		Freq Offse 0 H			
	it Freq Error Indwidth	881 Hz 1.257 MHz	OBW Power x dB	99,00 % -26.00 dB					
wijiCi			_	STATUS					

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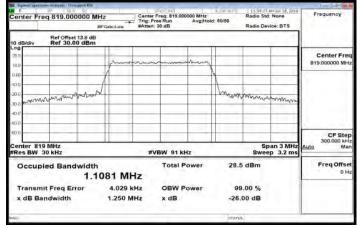


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#### Band26\_Part90s\_1\_4MHz\_64QAM\_6\_0\_Main\_LowCH26697-814.7

all and there	Annyat   Orthand By					10 4 61
Center Fre	eq 814.700000 M	Trig:	Freq: 814.700000 MHz Free Run Avg(Hok m: 30 dB	Radio Sta		Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm				1.1	814.700000 Mi
20 n 10.0		man	mannan			Center Free 814.700000 MH
0.00 -10.0		A		1	-	
-30.0 -30.0 Www.M -40.0	Manan			parter and and a series of the	ntrativenently.	
-50.0 						CF Ster
Center 81 #Res BW	pan 3 MHz ep 3.2 ms	300.000 kH Auto Mar				
Occup	ied Bandwidt 1.	h 1056 MHz	Total Power	28.4 dBm		Freq Offs 0)
	it Freq Error Indwidth	-281 Hz 1.254 MHz	OBW Power x dB	99.00 % -26.00 dB		
ure:				ana a		

#### Band26 Part90s 1 4MHz 64QAM 6 0 Main MidCH26740-819



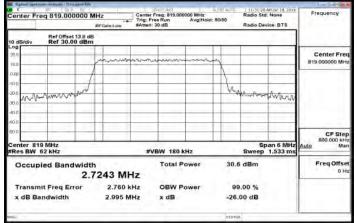
#### Band26\_Part90s\_1\_4MHz\_64QAM\_6\_0\_Main\_HighCH26783-823.3

all and there	An averal Occupied Bys						100.4	
Center Fr	eq 823.300000 N		Center Freq. 823.3 Trig: Free Run #Atten: 30 dB		Radio Std: N Radio Std: N Radio Devic	ione Fr	equency	
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm	8				1	5 H.	
20.0		min	nimmonia	presenta			Center Freq .300000 MHz	
0.00 		A	-					
-30.0 Assert	Marianapart	×			munturenetter	Minape		
-500							CF Step	
Center 82 #Res BW		#VBW 91 kHz Span 3 MHz #VBW 91 kHz Sweep 3.2 ms						
Occup	ied Bandwidth 1.1	, 1000 мн		Power	28.4 dBm		Freq Offset 0 Hz	
	it Freq Error Indwidth	701 H 1.257 MH		Power	99.00 % -26.00 dB			
Nergici					STATUS		-	

#### Band26\_Part90s\_3MHz\_QPSK\_15\_0\_Main\_LowCH26705-815.5

Center Fre	eq 815.500000 M	Trig:	Freq: 815.500000 MHz Free Run Avgittok n: 30 dB	1: 50/50	11(29(36 Antain 18) Radio Std: None Radio Device: BTS	Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm					1.000
20 n 10.0		munim		-		Center Free 815.500000 MHz
400	1			1		
-200 -300 mmM	remained			Man	www.	1.
40.0						-
00.0						CF Step 500.000 kH
Center 815 #Res BW 6			VBW 180 kHz	1.4	Span 6 N Sweep 1.533	1Hz <u>Auto</u> Mar ms
Occup	ied Bandwidt 2.	<sup>h</sup> 7195 MHz	Total Power	30.3 0	1Bm	Freq Offse 0 H
Transm	It Freq Error	10.776 kHz	OBW Power	99.0	0 %	
x dB Ba	ndwidth	3.008 MHz	x dB	-26.00	dB	

## Band26 Part90s 3MHz QPSK 15 0 Main MidCH26740-819



#### Band26\_Part90s\_3MHz\_QPSK\_15\_0\_Main\_HighCH26775-822.5

allant Marrie	- Annyati Ortug	agend Billy			-		ALCO AUG			10.4.63
Center Fre	eq 822.5000		Hz #FGain:Low	Center F Trig: Fre #Atten:	Freq: 822.50 Preq: 822.50 Pe Run 30 dB	AvgiHold		Radio Sta	Willia 18,2019 5: None vice: BTS	Frequency
10 dB/div	Ref Offset 1 Ref 30.00		2						1.1	822.500000 MH
zhn inp			manasa		min		~			Center Free 822,500000 MH
0.00		1					1			
	เพษตรรฐการจาก	N					5m	Mun m	n Manasar	1.5
40.0		-	-							
80.0									1	CF Ster 500.000 kH
Center 822 #Res BW 6				#V	pan 6 MHz 1.533 ms	Auto Mi				
Occupi	ied Bandv		217 MI	Hz	Total P	ower	30.	2 dBm		Freq Offse D H
Transmi x dB Ba	it Freq Erro ndwidth	or	5.467 I 3.007 N		OBW P	ower		9.00 % 6.00 dB		
uerici							STAT	us-		

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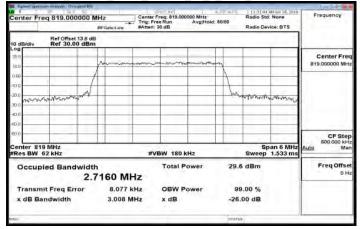


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#### Band26\_Part90s\_3MHz\_16QAM\_15\_0\_Main\_LowCH26705-815.5

again fann	Annyat I Orthon	HEM.		and mil	1 7.00	W115 24 44040 0	AM JUD 18, 2019	10.4.4	
Center Fre	eq 815.50000	MFGaintu	-+- Trig:	r Freq: 815.500000		Radio St		Frequency	
10 dB/div	Ref Offset 13. Ref 30.00 d						1.1		
200 n 10.0		han	unmun Munika	menne	mining			Center Fra 815.500000 MH	
0.00		A							
200 vywhy	manna	~				Provinsion	monor		
40.0			-			_			
00.0	-							CF Ste 500.000 kH Auto Ma	
	enter 815.5 MHz Span 6 MHz Res BW 62 kHz Sweep 1.533 ms								
Occup	ied Bandw	idth 2.7151	MHz	Total Pov	ver	29.6 dBm		Freq Offse	
	it Freq Error indwidth		39 kHz 03 MHz	OBW Pow x dB	ver	99.00 % -26.00 dB			
NGC .	_	_		_	_	STATUS			

#### Band26 Part90s 3MHz 16QAM 15 0 Main MidCH26740-819



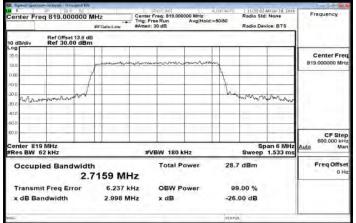
#### Band26\_Part90s\_3MHz\_16QAM\_15\_0\_Main\_HighCH26775-822.5

all and they	An any at 1 October	and Eth			-	_			and the second	10 4 63
Center Fr	eq 822.500	000 N	HZ MFGaincLow				50/50	Radio St	4 Million 18, 2015 d: None avicé: BTS	Frequency
10 dB/div	Ref Offset		2						3.41	
20.0			minum	-		- moneta	m			Center Freq 822.500000 MHa
0.00 -10 Q		1		-	-		1	-		
-20.0 -30.0 -40.0	walk was the							Manun	and	
Center 82 #Res BW		-	1	#VE	3W 180 k	Hz		Sweep	pan 6 MHz 1.533 ms	CF Step 600.000 kHz Auto Man
Occup	ied Bandy		118 M	Hz	Total P	ower	29.	4 dBm		Freq Offse D H
	nit Freq Erro andwidth	or	3.499 3.012		OBW P	ower		9.00 % .00 dB		
Aeric:							STAT	8		

#### Band26\_Part90s\_3MHz\_64QAM\_15\_0\_Main\_LowCH26705-815.5

Frequency		Radio Std	97 NUTE			Center Fr	IZ IFGaincLow		q 815.50	enter Fre
	1.1								Ref Offset Ref 30.0	0 dB/div
Center Fre 815.50000 MH				man man	him		man-m-			.09 20 n 10.0
		-	1					1	-	0.00 
	monan	them have	pd.					M	Anwar	20.0 20.0 20.0
										900
CF Ster 500.000 kH Auto Ma Freq Offse 0 H	enter 815.5 MHz Span 6 MHz Res BW 62 KHz #VBW 180 kHz Sweep 1.533 ms									
		6 dBm	28.6	ower	Total P	łz	096 MI		ied Band	Occup
		9.00 %	99	wer	OBW P	Hz	7.635	ror	t Freq En	Transm

#### Band26 Part90s 3MHz 64QAM 15 0 Main MidCH26740-819



#### Band26\_Part90s\_3MHz\_64QAM\_15\_0\_Main\_HighCH26775-822.5

allant	Annual   Ornand Big		Sec. Inc.	A DAY AND ST TATINATE MANAGER 20	10 4 63
Center Fre	eq 822.500000 N	Trig:	Freq: 822.500000 MHz Free Run Avg Hold h: 30 dB	Radio Std: None	Frequency
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm				
z0.n		monomen	monthermore		Center Free 822,500000 MH
0.00	1				-
100	monormound			Lauranana	4
40.0					
000					CF Ster
Center 822 #Res BW			VBW 180 kHz	Span 6 MH Sweep 1.533 m	IZ <u>Auto</u> Mar
Occup	ied Bandwidth 2.7	7 184 MHz	Total Power	28.3 dBm	Freq Offse 0 H
	it Freq Error indwidth	-290 Hz 3.000 MHz	OBW Power x dB	99.00 % -26.00 dB	
uesic.				STATUS	

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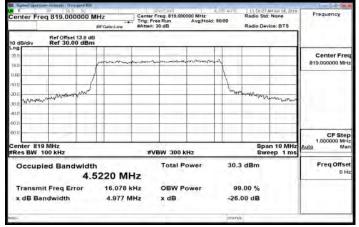


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#### Band26\_Part90s\_5MHz\_QPSK\_25\_0\_Main\_LowCH26715-816.5

adams. Sheen	Annual October Bill		ans mil	ALIGN NUTC 1 3140-19 M	0.0018.2019	10 4 11
Center Fr	eq 816,500000 I	Trig:	r Freq. 816.500000 MHz Free Run Avg Hold n: 30 dB	Radio Std:	None	Frequency
10 dB/div	Ref Offset 13.8 dl Ref 30.00 dBn				1.1	
20 1 10.0		-			8	Center Fre
0.00 40.0	, i i			h		
20.0 Marine 0.00	Amothenen			Mannanana	vnnym	
40.0 50.0						
Center 81	C.C. MILLS				10 MHz Auto	CF Ste 1.000000 MH
Res BW			VBW 300 kHz		ep 1 ms	Ma
Occup	ied Bandwidt 4.	<sup>h</sup> 5214 MHz	Total Power	30.7 dBm		Freq Offse 0 H
	nit Freq Error	19.888 kHz	OBW Power	99.00 %		
x dB Ba	andwidth	4.961 MHz	x dB	-26.00 dB		
				ana		

#### Band26 Part90s 5MHz QPSK 25 0 Main MidCH26740-819



#### Band26\_Part90s\_5MHz\_QPSK\_25\_0\_Main\_HighCH26765-821.5

allan	An Annual Occupied Bill					1,0,4,83
Center Fre	eq 821.500000 M		serio Enni Iter Freq. 821.500000 MH I: Free Run Avg ten: 30 dB	ALTON MUTC 12 Noid: 50/50	Radio Device: BTS	Frequency
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm					
20.0		Junion	un manager and	mm		Center Freq 821.500000 MHz
400 -100 -200	vin man			for	mart and	
-40.0 -40.0 -50.0						
Center 821			#VBW 300 kHz		Span 10 Mi Sweep 1 n	
	ied Bandwidtl	5279 MHz	Total Power	30.	5 dBm	Freq Offset 0 Hz
	it Freq Error Indwidth	15.273 kHz 4.944 MHz	OBW Power x dB		9.00 % .00 dB	
Ausic-				STAT	18-	1.

#### Band26\_Part90s\_5MHz\_16QAM\_25\_0\_Main\_LowCH26715-816.5

Center Fr	eq 816.500000 M	Trig:	Free Run Avgittoid	Radio S		Frequency
		an shinesow	4: 30 dB	Radio D	evice: BTS	
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm				-	
20.0					-	Center Free
10.0		paramenta	and the second	1		816.500000 MH
0.00		Al I			-	
40.0	1					
20.0	monordonal			manner	hanna	
40.0					1.77.1	1.000
-00						1
000						CF Ster
Center 81						1.000000 MH
#Res BW			VBW 300 kHz		oan 10 MHz veep 1 ms	Auto Mar
Occup	ied Bandwidt	h	Total Power	29.6 dBm		Freq Offse
	4.	5081 MHz				OH
Transm	it Freq Error	19.761 kHz	OBW Power	99.00 %	2	
x dB Ba	andwidth	4.965 MHz	x dB	-26.00 dB		

#### Band26 Part90s 5MHz 16QAM 25 0 Main MidCH26740-819



#### Band26\_Part90s\_5MHz\_16QAM\_25\_0\_Main\_HighCH26765-821.5

all all some all some	An any at 1 Octo	and Eds	-							and the second	10 4 61
Center Fr	eq 821.500	0000 N		inclow ++		eq. 821.500 e Run 0 dB		0/50	Radio St	Willia 18, 2019 d: None vice: BTS	Frequency
10 dB/div	Ref Offset Ref 30.0									1.1	
20.0 10.0			mer	man	man	monini	minin	2			Center Freq 821.500000 MHz
0.00		1						A.			
-20.0 June 10	wenner	heren		_				ha	wareta	and the second s	
-40.0				_					_		
center 82	1.5 MHz				_				Sn	an 10 MHz	CF Step 1.000000 MH: Auto Mar
#Res BW		_	_		#VE	300 k	Hz			reep 1 ms	Haro man
Occup	ied Band			7 M	Hz	Total P	ower	29.8	dBm		Freq Offse 0 Ha
	it Freq Err indwidth	or		3.260 I 1.947 N		OBW P	ower		.00 % 00 dB		
Nesico	_		_					STATUS	1		

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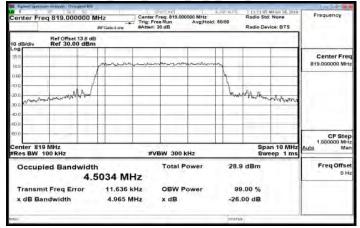


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#### Band26\_Part90s\_5MHz\_64QAM\_25\_0\_Main\_LowCH26715-816.5

all and they	Annyati Ortani Biy					10 4 63
Center Fr	eq 816.500000 I	-P- Trig	ter Freq. 816.600000 MHz Free Run Avgittok ten: 30 dB	d: 50/50	11:06:18 Anoun 18, 201 Radio Std: None Radio Device: BT5	Frequency
10 dB/div	Ref Offset 13.8 dt Ref 30.00 dBn					
20 n 10.0		panana	mantheman			Center Freq 816.500000 MHz
0.00 					*	-
30.0	www.www.www			hartid	ANDONNAN	-
-40.0			_		-	
Center 81 #Res BW		11 1	#VBW 300 kHz		Span 10 MH Sweep 1 m	
Occupied Bandwidth 4.5178 MHz			Total Power	28.8		Freq Offset 0 Hz
	nit Freq Error andwidth	19.158 kHz 4.959 MHz	OBW Power x dB	99. -26.0	00 % 0 dB	
tetic.				statie		

#### Band26 Part90s 5MHz 64QAM 25 0 Main MidCH26740-819



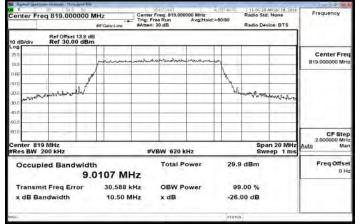
#### Band26\_Part90s\_5MHz\_64QAM\_25\_0\_Main\_HighCH26765-821.5

all all some littles and	-An equal   Or support By							-	10 4 63
Center Fre	q 821.500000 M	MFGainsLow	Center Fi			50/50	Radio Std: Radio Dev	Sec. 3	Frequency
10 dB/div	Ref Offset 13.8 dB Ref 30.00 dBm							1.1	
20.0		punn	,	man		-			Center Freq 821.500000 MHz
0.00 -10 0 -20 0	monorman /	l l				h	A. 6 . 0	mMrn	
30.0	nwer er							MANN LILAL	
-50.0 								-	CF Step
Center 821 #Res BW 1			#VE	300 k	Hz			n 10 MHz ep 1 ms	Auto Man
Occupi	ied Bandwidti 4.	5045 MH	Iz	Total P	ower	29.0	dBm		Freq Offset 0 Hz
Transm x dB Ba	it Freq Error ndwidth	7.971 k 4.967 M		OBW P	ower		.00 % 00 dB	11	
Aeriji.						STATU	1		

#### Band26\_Part90s\_10MHz\_QPSK\_50\_0\_Main\_MidCH26740-819

Center Fr	eq 819.00000	0 MHz	Center Freq:	819.000000 MHz	ALIGH AUTE	Radio Std	Millio 18, 2019	Frequency
		#FGain:Low	#Atten: 30 dB		ld: 50/50	Radio De	vice: BT5	
10 dB/div	Ref Offset 13.8 Ref 30.00 di			-			1.1	
20 m		diamber and	man	-	www	-		Center Free 819.000000 MH
10.0		1			1			012.00000 mm
10.0		1			3	-	1.00	
20.0	Mar manual and				7	mar and	muchul	
40.0		_				_	1	
-50.0								-
00.0								CF Ster 2.000000 MH
Center 81 #Res BW			#VBW	620 kHz		Spa Sw	eep 1 ms	
Occup	ied Bandwi	dth 9.0412 MI		otal Power	30.	8 dBm		Freq Offse
Transm	it Freq Error	43.735		BW Power		9.00 %		
	andwidth	10.44 N		dB		.00 dB		

#### Band26 Part90s 10MHz 16QAM 50 0 Main MidCH26740-819



#### Band26\_Part90s\_10MHz\_64QAM\_50\_0\_Main\_MidCH26740-819

allant. Marrie	Construction Operations Bill		SURFERING LINE	ALIOT MULC 11/02/56 MI 00/18/2	
Center Fre	eq 819.000000 M	Trig:	r Freq: 819.000000 MHz	Radio Std: None	Frequency
10 dB/div	Ref Offset 13.8 dE Ref 30.00 dBm				
20 1		permanen		~	Center Free 819.000000 MH
0.00 	1				
-20.0 -30.0	where we and the second of the			Marianterwork	hu
40.0					-
00.0					2.000000 MH
Center 819 #Res BW		3	VBW 620 kHz	Span 20 M Sweep 1 r	
Occup	ied Bandwidt 9.(	h 0723 MHz	Total Power	30.0 dBm	Freq Offse 0 H
	It Freq Error	37.945 kHz	OBW Power	99.00 %	
x dB Ba	ndwidth	10.50 MHz	x dB	-26.00 dB	
anje-				STATUS	1.

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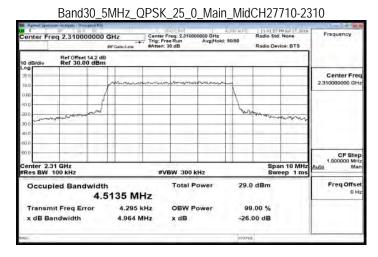
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#### Band30\_5MHz\_QPSK\_25\_0\_Main\_LowCH27685-2307.5

allann Ann	Annual   Ornand Bill		stass and	AUD/ AUX- 1 31/46	46.000.00.17.2019	10.4.0
Center Fr	eq 2.307500000	Trig:	r Freq. 2.307500000 GHz Free Run Avg Hold n: 30 dB	Radio 1 1:>60/50	Std: None Device: BT5	Frequency
10 dB/div	Ref Offset 14.2 dl Ref 30.00 dBn				1	1000
20 ŋ 10.0		mon	warmen n.m.	-		Center Free 2.307500000 GH
0.00 -100		4				
-30.0 -30.0	monantal			"in all of	montanin	
-900					-	-
Center 2.3 #Res BW			VBW 300 kHz	S	pan 10 MHz weep 1 ms	CF Stej 1.000000 MH <u>Auto</u> Ma
Occup	ied Bandwidt 4.	<sup>h</sup> 5158 MHz	Total Power	29.1 dBm		Freq Offse D H
	nit Freq Error andwidth	10.878 kHz 4.919 MHz	OBW Power x dB	99.00 % -26.00 dB	371	
weir-				status		



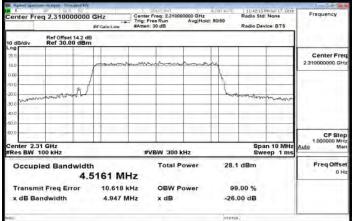
#### Band30\_5MHz\_QPSK\_25\_0\_Main\_HighCH27735-2312.5

agaan iyaan	Annyat I Oraqued BW		1 Just mil				10 4 63
Center Fre	eq 2.312500000		Center Freq. 2.3120 Trig: Free Run #Atten: 30 dB	Avg Hold: 5	Radio St	3 IW Aut 17, 2019 d: None avice: BTS	Frequency
10 dB/div	Ref Offset 14.2 dE Ref 30.00 dBm						
20.0		mm	eter-run the have	mannan .			Center Freq 2.312500000 GHz
000 							
30.0	www.				Harrison and the second	verno-n	
-50.0							1
Center 2.3 #Res BW			#VBW 300	kHz		an 10 MHz veep 1 ms	CF Step 1.000000 MHz Auto Man
Occup	ied Bandwidt 4.	<sup>ь</sup> 5153 MH	Total I	Power	29.2 dBm		Freq Offset 0 Hz
	it Freq Error Indwidth	7.092 kH 4.967 MH		Power	99.00 % -26.00 dB		
Antica .					STATUS		

## Band30\_5MHz\_16QAM\_25\_0\_Main\_LowCH27685-2307.5

2.307500000	Tri	singenmin nter Freq. 2.307500000 GHz g: Free Run Avgitto tten: 30 dB	ALIN/ MUYE	Radio Std: None	Frequency
		mondas seminar constructions	-		Center Free 2.307500000 GH
			A		
a contraction of the second					include
				-	CF Ste
8 GHz 00 kHz		#VBW 300 kHz			MHz Auto Mar 1 ms
		Total Power	28.4	dBm	Freq Offse 0 H
Freq Error	18.462 kHz 4.943 MHz	OBW Power x dB			
	Ref Offset 14.2 dB Ref 30.00 dBm Andread 8 GHz 200 kHz ed Bandwidtt 4.4 Freq Error	Ref 00.00 dBm Ref 30.00 dBm Ref 30	Arighto Aright	Projection         Projection         Projection         Avgittal:::::::::::::::::::::::::::::::::::	Ber Offset 14.2 dB         Trige Free Run Arten to dB         Avg/Hold: 50:50         Radio Davice: B1           Ref 30.00 dBm         B<

## Band30 5MHz 16QAM 25 0 Main MidCH27710-2310



#### Band30\_5MHz\_16QAM\_25\_0\_Main\_HighCH27735-2312.5

allow Sheen	-Annyat   Ornand Bill		-			0 4 63
Center Fre	q 2.312500000	Trig:1	r Freq: 2.312500000 GHz Free Run Avg Hold 1: 30 dB	Radio Std	None	quency
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm				1	
20 1		man	www.committee	way		enter Fred 500000 GH;
100 -200 -200	mannand			hours	monum	
30.0 40.0 50.0						
center 2.3					n 10 MHz Auto	CF Step 000000 MH Mar
#Res BW	ied Bandwidth		VBW 300 kHz Total Power	28.2 dBm	rep 1 ms	req Offse 0 H
	it Freq Error ndwidth	15.086 kHz 4.927 MHz	OBW Power x dB	99.00 % -26.00 dB		
Neric-				STATUS		_

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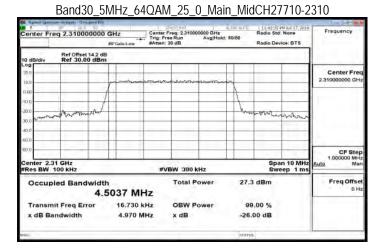
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## Band30\_5MHz\_64QAM\_25\_0\_Main\_LowCH27685-2307.5

Against Sheers	Analysis October BW		stass mil	ALIM MUC 1114128 PM BIA	12,203
Center Fre	eq 2.307500000	-P. Trig:	r Freq. 2.307500000 GHz Free Run Avgittok n: 30 dB	Radio Std: None	Frequency
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm				
20.0		mannina	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-	Center Free 2.307500000 GH
40.0				highbykawayhan	
30.0 w/w~~~M 40.0	manhand				New Mr.
-50.0 -00.0					CF Ste
Center 2.3 #Res BW		4	VBW 300 kHz	Span 10 Sweep	MHz Auto Ma
Occupied Bandwidth 4.5066 MHz			Total Power	27.1 dBm	Freq Offse 0 H
	it Freq Error indwidth	16.149 kHz 4.938 MHz	OBW Power x dB	99.00 % -26.00 dB	
	or mostly	100 AS 100 AS		stane	



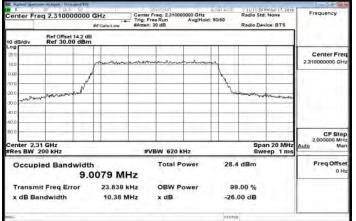
#### Band30\_5MHz\_64QAM\_25\_0\_Main\_HighCH27735-2312.5

allow Marrie	An averal Orange Bill				10.4.43
Center Fre	eq 2.312500000	Trig:	Freq: 2.312500000 GHz Free Run Avgittoid n: 30 dB	ALIAN MUTC 11/44/22 PM aur 17, Redio Std: None 1: 50/50 Radio Device: BTS	Frequency
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm	).			1
20.0		mannam	ant-		Center Freq 2.312600000 GHz
0.00 					-
30.0	mathermore			Martinana	~
-50.0					
Center 2.3 #Res BW			*VBW 300 kHz	Span 10 M Sweep 1	
Occup	ied Bandwidth 4.5	077 MHz	Total Power	27.1 dBm	Freq Offset 0 Hz
	it Freq Error Indwidth	3.769 kHz 4.941 MHz	OBW Power x dB	99.00 % -26.00 dB	
Augici				STATUS	

#### Band30\_10MHz\_QPSK\_50\_0\_Main\_MidCH27710-2310

R.	eq 2.310000000		ter Freq. 2.310000000 GHz	ALIGT ALTE	Radio Std	PM bin 17, 2019 I: None	Frequency
			en: 30 dE	d. 00100	Radio De	lice: BT5	
10 dB/div	Ref Offset 14.2 dl Ref 30.00 dBn					1.1	
20.11						-	Center Fre
10.0		manner	manne	5	-	-	2.310000000 GH
0.00		1	_	N	-	-	
40.0	1			15	-		
30.0 Advatum	mound				- and and a second	-	
40.0	1						1000
-50.0							h
00.0							CF Ste
Center 2.3 #Res BW 3			#VBW 620 kHz			eep 1 ms	2,000000 MH Auto Ma
Occup	ied Bandwidt 9.1	հ 0455 MHz	Total Power	29.5	dBm		Freq Offse 0 H
Transm	It Freq Error	18.131 kHz	OBW Power	99	.00 %		
x dB Ba	ndwidth	10.52 MHz	x dB	-26.	Bb 00		
x dB Ba	ndwidth	10.52 MHz	x dB	-26.	00 dB		

#### Band30 10MHz 16QAM 50 0 Main MidCH27710-2310



#### Band30\_10MHz\_64QAM\_50\_0\_Main\_MidCH27710-2310

allann Marri	- An averal Overaged Bill					19.4.4
Center Fre	eq 2.310000000	Trig:	Freq: 2.310000000 GHz Free Run AvgiHolo n: 30 dB	Radio 1	14 Main 17, 2019 Std: None Device: BTS	Frequency
10 dB/div	Ref Offset 14.2 dE Ref 30.00 dBm				1	
20 n 10.0		personan	-	~		Center Free 2.310000000 GH
40.0	1			A		
	manufurness			manner	and marked	
-40.0						
Center 2.3			VBW 620 kHz		pan 20 MHz weep 1 ms	CF Step 2.000000 MH Auto Mar
	ied Bandwidt		Total Power	27.5 dBm		Freq Offse 0 H
	it Freq Error Indwidth	35.903 kHz 10.50 MHz	OBW Power x dB	99.00 % -26.00 dB	3 < 11	
etja				STATUS		

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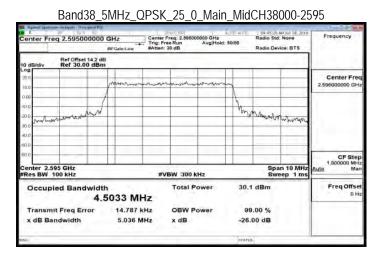
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#### Band38\_5MHz\_QPSK\_25\_0\_Main\_LowCH37775-2572.5

C. G. Marriero and C. Marriero	- Annyan Orospin	H B W			1001	AL AL	MAND	0.04-40.05	AM JUN 18, 2019	10.4
Center Fre	g 2.5725000	-		Center Free Trig: Free R #Atten: 30 c	tun .	Avg Hold: 5	0/50	Radio Sto Radio De		Frequency
Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm							1.11	100		
20.0		1	montan		nim	honomine	1			Center Fre 2.572500000 GH
0.00 40 0		A					hinto			-
	Mathanal	v					- Ack	Province of	Amalia	
40.0 -50.0 -80.0		-		_						
Center 2.57		-		#VBW	/ 300 k	Hz			an 10 MHz eep 1 ms	CF Ste 1.000000 MH Auto Ma
Occupie	ed Bandw		141 MH		otal P	ower	30.2	dBm		Freq Offse 0 H
	t Freq Error	r	15.387 kH	5	BW P	ower		.00 %		
x dB Bar	ndwidth		4.945 MH	z x	dB		-26.	00 dB		
esic.							STATUS	1		



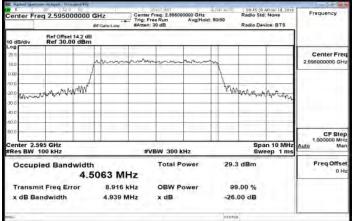
#### Band38\_5MHz\_QPSK\_25\_0\_Main\_HighCH38225-2617.5

agaan iyaan	Annyan I Ornand Bill		1		LIGT WITE	07.5070	-	10 4 E
Center Fre	eq 2.617500000	GHz MFGaincLow	Center Freq. 2,5175 Trig: Free Run #Atten: 30 dB	Avg Hold:		Radio Std		Frequency
10 dB/div	Ref Offset 14.2 dE Ref 30.00 dBm					_	3.41	1.1
20.0		mountano	and the man and the gas	minim	~			Center Freq 2.617500000 GHz
0.00 -10.0	n with				Van	10		
-20.0 -30.0 -40.0	montalement					www.Annov	intuninal	
								-
Center 2.6 #Res BW			#VBW 300	kHz			an 10 MHz eep 1 ms	CF Step 1.000000 MHz Auto Man
Occup	ied Bandwidt 4.	<sup>ь</sup> 5066 МН	Total F	Power	30.1	dBm		Freq Offset 0 Hz
	it Freq Error Indwidth	12.200 kH 4.936 MH		ower		.00 % 00 dB		
Augici					STATUS	-		

#### Band38\_5MHz\_16QAM\_25\_0\_Main\_LowCH37775-2572.5

R	2.572500000	-	Sense Mil Center Freq. 2,872 Trig: Free Run Atten: 30 dB		ALIIII ALIIC 50/50	Radio Std		Frequency	
	Ref Offset 14.2 dB								
20 0	Ref 30.00 dBm		minina	Monner	~			Center Free 2.572500000 GH	
000 100 200 MM MM	mond				1 m	history	Munna		
-30.0 -40.0 -40.0									
©00 Center 2.573 #Res BW 10			#VBW 300	kHz			an 10 MHz eep 1 ms	CF Step 1.000000 MH Auto Mar	
Occupie	d Bandwidti 4.5	5022 MHz		Power	29.3	2 dBm		Freq Offse 0 H	
Transmit x dB Ban	Freq Error dwidth	10.859 kH 4.904 MH		Power		9.00 % .00 dB			

## Band38 5MHz 16QAM 25 0 Main MidCH38000-2595



#### Band38\_5MHz\_16QAM\_25\_0\_Main\_HighCH38225-2617.5

allow Showing	-Annyat   Ornand Bile		100 C	A DAY MITS 1 DRIAD AT M	Lan 14 2019 1	
Center Fred	2.617500000	Trig:	r Freq. 2,617500000 GHz Free Run Avg Hold 1: 30 dB	Radio Std: I	None Frequency	
Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm						
20.0		mann	mannanananan	~~~	Center Fre 2.617500000 GH	
40.0						
-20.0 WWWWW	mann			Whatherhowy	Acatophing	
-40.0						
000					CF Ste 1.000000 MH	
Center 2.61 #Res BW 10			VBW 300 kHz		10 MHz <u>Auto</u> Ma	
Occupie	ed Bandwidt 4.	n 5053 MHz	Total Power	29.3 dBm	Freq Offse 0 F	
Transmit x dB Ban	Freq Error dwidth	9,562 kHz 5.020 MHz	OBW Power x dB	99,00 % -26.00 dB		
Aetyc.				STATUS		

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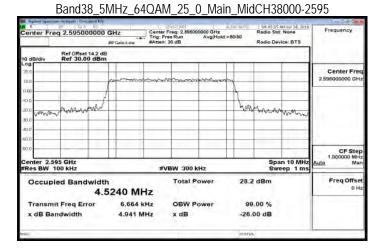
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## Band38\_5MHz\_64QAM\_25\_0\_Main\_LowCH37775-2572.5

allann Bern	- An Ingent   Overage of Bills		205-00	ALUTAUX 109A126AM2	10.3.41
Center Fre	q 2.572500000	Trig:	Freq: 2.572500000 GHz Free Run Avg Hole n: 30 dB	Radio Std: N	one Frequency
10 dB/div	Ref Offset 14.2 dl Ref 30.00 dBn				1.1
20 11 10.0		monorio	mannen	ing	Center Free 2.572500000 GH
0.00 -10 0 -20 0	montohall			manner	-
30.0	APPENDAL ALL CL			- tradiante	
40.0 60.0					CF Step
Center 2.5 #Res BW		1	VBW 300 kHz		10 MHz Auto Mar D 1 ms
Occup	ied Bandwidt 4.	<sub>h</sub> 5047 MHz	Total Power	28.5 dBm	Freq Offse 0 Ha
	it Freq Error ndwidth	12.060 kHz 5.138 MHz	OBW Power x dB	99.00 % -26.00 dB	
Letic.				STATUS	



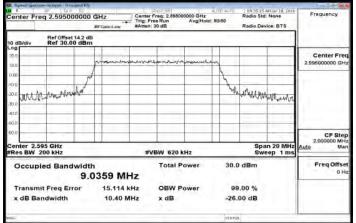
#### Band38\_5MHz\_64QAM\_25\_0\_Main\_HighCH38225-2617.5

agaan iyaan	Annyas Ortagen	θψ.		A 100	_				10.4 63
Center Fre	eq 2.6175000	MFGain:	+++ Trig:	Freq: 2,6175 Tree Run 1: 30 dB	Avg Hold:	ALIG/ MITE	Radio Ste Radio De		Frequency
10 dB/div	Ref Offset 14. Ref 30.00 d							1.11	
20 n 10.0		mon	man	nom	char the mass	~			Center Freq 2.617500000 GHz
0.00 -10 Q		A		-			DA A		
-20.0 Minuthearts -30.0	throwned						Paran	mmm	
									CF Step
Center 2.6 #Res BW			#	VBW 3001	kHz			an 10 MHz reep 1 ms	1.000000 MHz
Occup	ied Bandwi	dth 4.5042	MHz	Total F	Power	28.	4 dBm		Freq Offset 0 Hz
	it Freq Error ndwidth		899 kHz 12 MHz	OBW P x dB	ower		9.00 % .00 dB		
Aeric:						STAT	us.		

#### Band38\_10MHz\_QPSK\_50\_0\_Main\_LowCH37800-2575

Citizen Statute	- Anaryses   Occupied Bill			ALIOT MUTC   BRIDE SKAMDIN 3	a 7015 l
Center Free	g 2.575000000	Trig:	r Freq: 2.575000000 GHz Free Run Avg Hold n: 30 dB	Radio Std: None	Frequency
10 dB/div	Ref Offset 14.2 dE Ref 30.00 dBm				
20.0		manne	we reason and grave por	ma l	Center Free 2.575000000 GH
400	1			A.	
NWW and	Numlann			"Manager Maria	Non
40.0					
000					CF Step
Center 2.57 #Res BW 20			VBW 620 kHz	Span 20 Sweep	MHz <u>Auto</u> Ma 1 ms
Occupie	ed Bandwidt 9.(	n 0741 MHz	Total Power	30.5 dBm	Freq Offse 0 H
Transmit	Freq Error	26.565 kHz	OBW Power	99.00 %	
x dB Ban	dwidth	10.49 MHz	x dB	-26.00 dB	1.000
				internal la	-

#### Band38 10MHz QPSK 50 0 Main MidCH38000-2595



## Band38\_10MHz\_QPSK\_50\_0\_Main\_HighCH38200-2615

allow Merry	Annual   Original Bill		stass and	AL 107 MINE 1 109/37 38	MIND 18 2019	10.4
Center Fre	d: None vice: BTS	Frequency				
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm				1.1	
20 1		portane		*~~		Center Free 2.615000000 GH
40.0	1	6		1		
30.0 MMM	Warner Marken			thenware	Anthenium and	
40.0						
60.0						CF Ster 2.000000 MH
Center 2.6 Res BW 2		-	#VBW 620 kHz		an 20 MHz eep 1 ms	<u>Auto</u> Ma
Occupi	ied Bandwidt 9.(	, 0547 MHz	Total Power	30.8 dBm		Freq Offse 0 H
Transmi x dB Ba	it Freq Error ndwidth	13.966 kHz 10.48 MHz	OBW Power x dB	99.00 % -26.00 dB		
ALSC-				STATUS		

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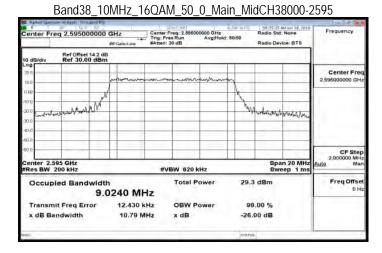
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### Band38\_10MHz\_16QAM\_50\_0\_Main\_LowCH37800-2575

R.	- An myon I Ornam 50	10.0		er Freg. 2.575000000 GHz	ALC/ ALC		AM JUD 18, 2019	Frequency
Center Fre	l: None vice: BTS	Frequency						
10 dB/div	Ref Offset 14 Ref 30.00 (						3.47	
20.1			no Northernau	manina	un			Center Fre 2.575000000 GH
400		1			X	1		
to Marth 0.00	when and man	₽ <sup>2</sup>			1	and the short	at March	
40.0						-		
000								CF Ste 2.000000 MH
Center 2.57 #Res BW 2				#VBW 620 kHz			eep 1 ms	<u>Auto</u> Ma
Occupi	ed Bandw		431 MHz	Total Power	29	9.4 dBm		Freq Offse 0 H
Transmi	t Freq Error	r	19.371 kHz	OBW Power		99.00 %		
x dB Bar	ndwidth		10.43 MHz	x dB	-2	6.00 dB		
atic.	_	_			578	TUE		



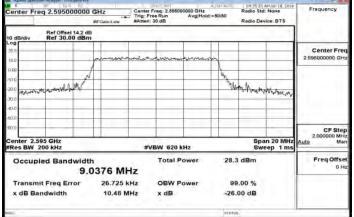
#### Band38\_10MHz\_16QAM\_50\_0\_Main\_HighCH38200-2615

all and there	An appent i Orangement B	h	205-10	ADD/ ADD DODELS MIDE	10.4.63
Center Fre	Frequency BTS				
10 dB/div	Ref Offset 14.2 Ref 30.00 dB				1.1
20.0 10.0		mon	multipus of the opening of the openi	~~	Center Freq 2.615000000 GHz
0.00 -10 Q -20 0	monument	n l		Manuel	
30.0	destroot a sure t			Manauman	MJU
-50.0 					CF Step
Center 2.6 #Res BW			#VBW 620 kHz	Span 2 Sweep	0 MHz Auto Mar 1 ms
Occup	ied Bandwid 9	<sup>th</sup> .0547 MHz	Total Power	29.6 dBm	Freq Offse 0 Ha
	it Freq Error Indwidth	10.795 kHz 10.39 MHz	OBW Power x dB	99.00 % -26.00 dB	
Netja:				STATUS	1

#### Band38\_10MHz\_64QAM\_50\_0\_Main\_LowCH37800-2575

R Center Free	a 2.57500	14.5	GHz	Center F	reg. 2.57500	0000 GHz		ure:	Radio Std	Amoun 18, 2019	Frequency
			AFGain:Low	#Atten: 3		Avg Hold:	50/50		Radio De	vice: BTS	
10 dB/div	Ref Offset 1 Ref 30.00		).	_						1.41	
2ft n 10.0			manan	maria	morrillo	e-in-tota	~				Center Free 2.575000000 GH
0.00 40.0		1					3		_		
30.0	in Supposed	/hv:/					+	hyel	harrowing	annorm	
40.0 50.0							-				
00.0										1.1	CF Step 2.000000 MH
Center 2.57 #Res BW 20				#VI	3W 620 k	Hz				an 20 MHz eep 1 ms	
Occupie	ed Bandy		325 MI	Hz	Total P	ower	2	28.4	dBm		Freq Offse 0 H
Transmit	Freq Erro	or	26.394	Hz	OBW P	ower		99	.00 %		
x dB Ban	dwidth		10.27 N	Hz	x dB		- 5	26.0	Bb 00		
					-		1	_			

# Band38 10MHz 64QAM 50 0 Main MidCH38000-2595



#### Band38\_10MHz\_64QAM\_50\_0\_Main\_HighCH38200-2615

R.	An anyona i Orangan di Bile 50 C		SERVELINI	ALTER ALTC   DUDBLES MUS	
Center Free	g 2.615000000	Trig:	Free Run Avg Holo n: 30 dB	8: 50/50 Radio Device	
10 dB/div	Ref Offset 14.2 dE Ref 30.00 dBm				
20.0		-	-	~	Center Free 2.615000000 GH
0.00 40 0	1	4			
30.0	muchant			Telephyne withou	unati
-40.0					
Center 2.61 #Res BW 20			≠VBW 620 kHz		2,000000 MH 20 MHz Auto Ma
Occupie	ed Bandwidt 9.0	<sup>h</sup> 0357 MHz	Total Power	28.5 dBm	Freq Offse 0 H
Transmit x dB Ban	t Freq Error Idwidth	16.813 kHz 10.44 MHz	OBW Power x dB	99.00 % -26.00 dB	
uerșe.				STATUS	

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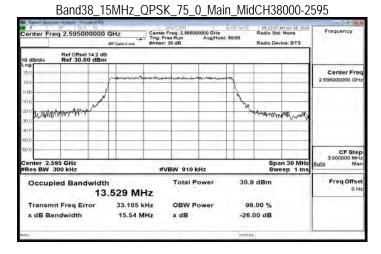
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### Band38\_15MHz\_QPSK\_75\_0\_Main\_LowCH37825-2577.5

allow Meridian	AN INVESTIGATION	and Bill			-				-	10.4.63
Center Freq	2.57750	0000	GHz AFGain:Low	Center F Trig: Fre #Atten: 3		Avg)Hold: 5	0/1401C	Radio St	AMUN 18,2019 d: None vice: BTS	Frequency
10 dB/div	Ref Offset Ref 30.00		0						1.11	
20 1 10.0			Jammasan	an in	l- water and a		1			Center Fred 2.577600000 GH
40.0		1		-			they.			
30.0 30.0 40.0	ar way and	n.					- 1	are why	mahina	
000-000							-			CF Step
Center 2.578 #Res BW 30				#VI	3W 910 k	Hz		Sp Sw	an 30 MHz reep 1 ms	
Occupie	d Band		.530 M	Hz	Total P	ower	30.4	dBm		Freq Offsel 0 Hz
Transmit	Freq Err	or	40.319	kHz	OBW P	ower	99	.00 %		
x dB Band	lwidth		15.69	MHz	x dB		-26.	00 dB		
uesic.				-	-		STATUS			



## Band38\_15MHz\_QPSK\_75\_0\_Main\_HighCH38175-2612.5

allow Show	-Annyan Orna	name Erik			Files Mail	_	ALC:240			10.4.68
Center Freq 2.612500000 GHz arGaickawy Attain 50 State Stat									d: None	Frequency
10 dB/div	Ref Offset 1 Ref 30.00								1.1	10.1
20 m 10.0			provenciation	man	-	human	m			Center Freq 2.612600000 GHz
0.00 		with					1 Lu			·
200 what the	han ithe	r <sup>M</sup>					1	The many has	Munnela	
-40.0 -50.0					-					
Center 2.6	13 GH7				1			Sn	an 30 MHz	CF Step 3.000000 MH; Auto Mar
#Res BW 3				#V	BW 910 H	Hz	_	Sw	eep 1 ms	Caro man
Occupi	ied Bandy		485 MH	Iz	Total P	ower	30	.0 dBm		Freq Offse 0 Ha
Transmi	t Freq Erro	or	38.457 k	Hz	OBW P	ower	1.0	99.00 %		
x dB Ba	ndwidth		15.73 M	Hz	x dB		-2	6.00 dB		
Ansic-							578	TUS-		

#### Band38\_15MHz\_16QAM\_75\_0\_Main\_LowCH37825-2577.5

R	Annya Onternet Bill	and a second	serese in a		21 34 MIDU 18, 2019	Frequency		
Center Freg	er Freq 2.577500000 GHz Center Freq. 2.577500000 GHz Radio Std: None AFGainLaw RAtion: 30 dB Radio Davice: BTS							
	Ref Offset 14.2 dB Ref 30.00 dBm				1.1			
2ft n 10.0		panerenter	well-market warman	-		Center Free 2.577600000 GH		
10.0	المراجع			A.				
200 materia	whether the state of the state			Marken	with reading to the			
40.0					_			
000						CF Step 3.000000 MH		
Center 2.578 #Res BW 30			VBW 910 kHz		Span 30 MHz Sweep 1 ms	<u>Auto</u> Mai		
Occupie	d Bandwidth 13	.564 MHz	Total Power	29.5 dB	υ	Freq Offse 0 H		
Transmit	Freq Error	63.570 kHz	OBW Power	99.00	%			
x dB Ban	dwidth	16.28 MHz	x dB	-26.00 d	в			
			the second se		-			

#### Band38 15MHz 16QAM 75 0 Main MidCH38000-2595



#### Band38\_15MHz\_16QAM\_75\_0\_Main\_HighCH38175-2612.5

R	g 2.612500000	CUL	STISE MI		DI MIDIA 18, 2019	Frequency
Center Fre	q 2.612500000	Trig:	Free Run Avgittoid n: 30 dB	: 50/50	Device: BTS	
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm				1	10.0
20 n		maraman	an san man san san san san san san san san san s		-	Center Fre 2.612500000 GH
0.00		1		1		
200 Jerthal	James Martha Minder			they provide	a hand have a h	
40.0			_		-	1
80.0 80.0						CF Ste
Center 2.6 #Res BW 3			VBW 910 kHz		pan 30 MHz weep 1 ms	
Occupi	ed Bandwidt 13	h 5.540 MHz	Total Power	30.0 dBm		Freq Offse 0 H
Transmi x dB Ba	t Freq Error ndwidth	36.828 kHz 15.57 MHz	OBW Power x dB	99,00 % -26.00 dB		
etici				STATUS		

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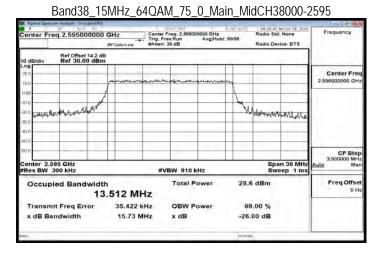
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## Report No.: T190611W02-RP Page 184 of 480

## Band38\_15MHz\_64QAM\_75\_0\_Main\_LowCH37825-2577.5

adam. Bernin	-Annyati Ora	Land Bills				-			-	10.4
Center Freq 2.577500000 GHz ArrCalcture Trig. Free Run Avgiltoid: 8050 ArrCalcture Run Avgiltoid: 8050 Rates: 20 dt									None	Frequency
10 dB/div	Ref Offset Ref 30.0		). —						3.47	
20 11 10.0			manin	-	mound	man	-			Center Free 2.577500000 GH
0.00 -000 -200	phoneset	mertinet					hungale	M. Arnoling	umun	
-40.0 -40.0 -50.0										
Center 2.57 #Res BW 3				#VI	3W 910 k	Hz			n 30 MHz eep 1 ms	CF Stej 3.000000 MH <u>Auto</u> Ma
Occupie	ed Band		514 M	Hz	Total P	ower	28.	4 dBm		Freq Offse 0 H
Transmit x dB Ban	1.1.1.1.1.1.1.1	ror	39.419			ower		9.00 %		
X OB Ban	awidth		13.921	nn.c	XUB		-20.			

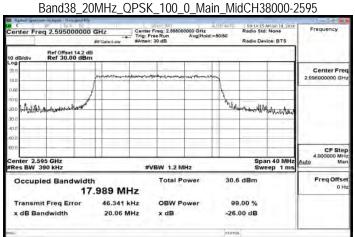


## Band38\_15MHz\_64QAM\_75\_0\_Main\_HighCH38175-2612.5

all all and all and all all all all all all all all all al	Annyat   Ornand Bill		Sus-mil 1	ADD/ ADD 104 DODR A	- Arren a	10 4 68
Center Fre	None None cé: BT5	Frequency				
10 dB/div	Ref Offset 14.2 dE Ref 30.00 dBm				1.11	10.1
2010 10.0		Junion Section And Row		~~~		Center Freq 2.612500000 GHz
0.00	. A	A		1		
MARK 000	manument			White warm	holenant	
40.0						
00.0					-	CF Step 3.000000 MHz
Center 2.6 #Res BW 3	13 GHz 300 kHz	a	VBW 910 kHz		n 30 MHz ep 1 ms	Auto Man
Occup	ied Bandwidt 13	h 8.545 MHz	Total Power	28.6 dBm		Freq Offset 0 Hz
	it Freq Error	31.984 kHz	OBW Power	99.00 %		
x dB Ba	indwidth	15.82 MHz	x dB	-26.00 dB		
Nesici				STATUS	-	

#### Band38\_20MHz\_QPSK\_100\_0\_Main\_LowCH37850-2580

Agent Statemer	Ananyana i Orangement Bi	4		ans mi	1 A.107	AUTO	091048	AM JUL 18, 2019	10.14
Center Freq 2.580000000 GHz Center Freg 2.88000000 GHz Radio Std: None + Trig: Free Run Avg Hold: 50/50 #Frdenci.cw #Atten: 30 dB Radio Davice: BTS									Frequency
	Ref Offset 14.2 o Ref 30.00 dB					-	_	1.1	
20.0		instrument	-	and the second second	Insuch - Strate				Center Free 2.58000000 GH
0.00		A	_		1	(			
200 Here 100	n his and an and a start		-			Maria	handling	tenta un	A
40.0									1.000
-50.0 									
									CF Step 4.000000 MH
Center 2.58 0 #Res BW 390				VBW 1.2 MHz				eep 1 ms	Auto Ma
Occupied	d Bandwid 1	th 7.950	MHz	Total Pow	er	30.6	dBm		Freq Offse 0 H
Transmit I	Freq Error	53.28	2 kHz	OBW Pow	er	99	.00 %		
x dB Band	lwidth	19.8	7 MHz	x dB		-26.	Bb 00		
					_		_		



R 2010 Conter Freq 2.61000000 GHz Conter Freq 2.6100000 GHz Radio 54: None Trip: Freq Run Avg/Hold:>6000 Radio 54: None Radio									Frequency
Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm									100
200 10.0		Juneman	antaaliinaay waxaa	Areasty	aNexaminational	44			Center Fred 2.61000000 GH;
0.00 -100 -200 <b></b>	Homenow					Hay	menteradatez	strone.tu,	
40.0 90.0 00.0									CF Ster
Center 2.0 #Res BW			#VE	W 1.2 W	1Hz	1		an 40 MHz eep 1 ms	4.000000 MH
Occup	ied Bandwidt 17	.996 MH	łz	Total P	ower	30.	4 dBm		Freq Offse 0 Ha
	nit Freq Error andwidth	36.510 k 19.94 M		OBW P	ower		9,00 % .00 dB		
Netja:						57413	8		

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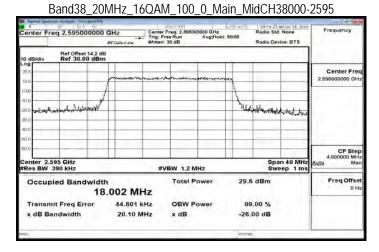
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#### Band38\_20MHz\_16QAM\_100\_0\_Main\_LowCH37850-2580

all all and the same of	Interio I Interio	end Bill		1	ALITATIC		AM JUL 18, 2019	10.4 63
Center Freq	2.580000		Tri	g: Free Run Avj tten: 30 dB	3Hz Hold: 50:50	Radio Std Radio Dev	None	Frequency
10 dB/div	Ref Offset 1 Ref 30.00						3.41	
20 m			n the standing of the standing	*****	pendengen			Center Freq 2.58000000 GHz
40.0		1			K			
-200 grith thild	and the start of the				TV.	Angthe old	whentiether	
-40.0								
60.0								CF Step 4.000000 MHz
Center 2.58 G #Res BW 390				#VBW 1.2 MHz			n 40 MHz ep 1 ms	<u>Auto</u> Man
Occupied	Bandv		982 MHz	Total Powe	r 29.	5 dBm		Freq Offsel 0 Hz
Transmit F	req Erro	or	36.372 kHz	OBW Powe	r 9	9.00 %		
x dB Band	width		19.86 MHz	x dB	-26	.00 dB		1
tetic.					5740	15		



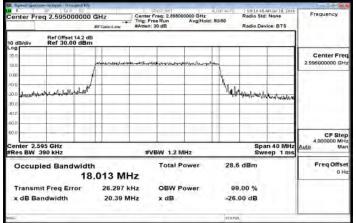
#### Band38\_20MHz\_16QAM\_100\_0\_Main\_HighCH38150-2610

allow Second	- Annyati Ornand Eli				AUZAUS		- Area	10.4.63
Center Fre	q 2.61000000	MFGainsLow	Center Freq. 2,510 Trig: Free Run #Atten: 30 dB			Radio Std		Frequency
10 dB/div	Ref Offset 14.2 d Ref 30.00 dBr			_			1.11	10.00
20 m 10.0		manan	environ and the second	malun	m			Center Free 2.61000000 GHa
0.00 40.0		A			A			
-20.0	and the second s				The	hubanatity	milancana	
-40.0 -50.0						-		
Center 2.6				6300			n 40 MHz	CF Step 4,000000 MH Auto Mar
#Res BW 3	390 kHz		#VBW 1.2	MHz	_	Sw	eep 1 ms	
Occupi	ied Bandwidt 17	th 7.977 MH	1	Power	29.5	5 dBm		Freq Offse 0 H
	it Freq Error ndwidth	23.258 k 19.99 M		Power		9.00 % 00 dB		
Nesia					STATU	¢]		

#### Band38\_20MHz\_64QAM\_100\_0\_Main\_LowCH37850-2580

Citanu Manual	Analysis   Oracle	and B//			use mil	_				W1000 18, 2019	10.4 63
Center Freq	2.580000		GHz AFGain:Low		req: 2.58000 e Run				Radio Std: Radio Dev	None	Frequency
	Ref Offset 1- Ref 30.00		2.77						_	3.47	
2ft fi 10,0			morena	-	- Jour Marr	-logar Angelanda	en				Center Free 2.580000000 GH
0.00 -10.0		Aut					1	M	3.2		
-20.0 <b>/tup/intral/</b> - -30.0 -40.0	Par Parcie-sice							NT. 194	An the state of th	smatheterne	1
-50.0									-		CF Ster
Center 2.58 #Res BW 39		_		#VE	BW 1.2 M	IHz				n 40 MHz ep 1 ms	4.000000 MH
Occupie	d Bandv		009 MI	Hz	Total P	ower	2	8.6	dBm		Freq Offse 0 H
Transmit		or	18.785		OBW P	ower			00 %		
x dB Band	Iwidth		19.85 N	1HZ	x dB		- 1	26.0	0 dB		

#### Band38 20MHz 64QAM 100 0 Main MidCH38000-2595



#### Band38\_20MHz\_64QAM\_100\_0\_Main\_HighCH38150-2610

attant theorem	-An equal 1 Octoant Bill				10.4
Center Fre	q 2.61000000	Trig:	Freq: 2,510000000 GHz Free Run Avg Hold h: 30 dB	Activit Auto Diff 17 M Mour 18 Radio Std: None I: 50/50 Radio Device: BT	Frequency
10 dB/div	Ref Offset 14.2 dE Ref 30.00 dBm				1.0
20 n 10.0		mound	and the second second second second	ev.a.	Center Free 2.610000000 GH
0.00					-
-20.0 Hundet Hor -30.0	miligitimesemples			Halialthaluningtown	15
40.0					-
000					CF Step 4,000000 MH
Center 2.61 #Res BW 3	1 GHZ 190 kHz		VBW 1.2 MHz	Span 40 I Sweep 1	MHz <u>Auto</u> Mar ms
Occupi	ed Bandwidt 17	h .979 MHz	Total Power	28.7 dBm	Freq Offse 0 H
Transmi x dB Bar	t Freq Error ndwidth	45.465 kHz 21.65 MHz	OBW Power x dB	99.00 % -26.00 dB	
letici				STATUS	

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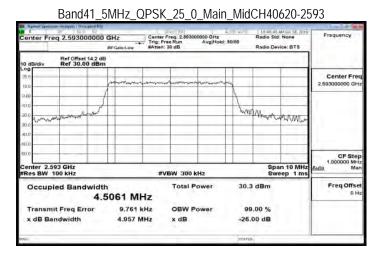
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## Report No.: T190611W02-RP Page 186 of 480

#### Band41\_5MHz\_QPSK\_25\_0\_Main\_LowCH39675-2498.5

agaan gener	An appent I Orstaget Bill		305-00	ALLOD MUT		100 18 2019 1	10.4
Center Fre	eq 2.498500000	Trig:	r Freq. 2.498500000 GHz Free Run Avgittok n: 30 dB		Radio Std: I	None	Frequency
10 dB/div	Ref Offset 14.2 dE Ref 30.00 dBm						10.00
20 n 10.0		mann	un manna	m			Center Free 2.498500000 GH
0.00 	00				.0	_	
30.0 AAAAAA	mmmmm				Arrent	Mon	
-00							-
Center 2.4 #Res BW			VBW 300 kHz			10 MHz ep 1 ms	CF Step 1.000000 MH Auto Mar
Occup	ied Bandwidt 4.	<sup>h</sup> 5194 MHz	Total Power	29.8	dBm		Freq Offse 0 H
Transm	it Freq Error	17.561 kHz	OBW Power	99	.00 %		
x dB Ba	indwidth	4.903 MHz	x dB	-26.	Bb 00		
unic.				STATUS			



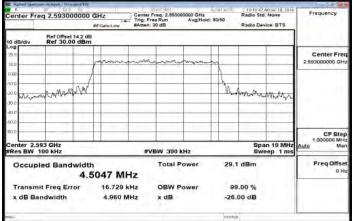
#### Band41\_5MHz\_QPSK\_25\_0\_Main\_HighCH41565-2687.5

alam Ann	Analysis Ore	V Manual Brits				-		A			10 4 61
Center Fre	eq 2.6875	00000	_	lz Jain:Low		0 dB		107 MITC 50/50	Radio Sto Radio De		Frequency
10 dB/div	Ref Offset Ref 30.0						_			3.41	1.0
20.0			m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-	mm	non				Center Freq 2.687600000 GHz
0.00 		1 de			_			150			-
30.0 -20.0	and the work in	Nina		-		-		1010	1 marta	Manana	
-40.0				_				-			
Center 2.6		_			#VF	W 300 k	Hz	-		an 10 MHz eep 1 ms	CF Step 1.000000 MHz Auto Man
	ied Band			66 MH		Total P		30.5	i dBm	cep ma	Freq Offset 0 Hz
	it Freq En ndwidth	ror		8.853 k 4.948 M		OBW P	ower		00 dB		
Aerija			_		_			STATU	1		

#### Band41\_5MHz\_16QAM\_25\_0\_Main\_LowCH39675-2498.5

R	Annyati OmaniEW		SERVERIN		10.36.44 441.00 18, 2019	10.4
Center Fred	2.498500000	-P- Tris	nter Freq. 2.498500000 GHz p: Free Run Avg Ho nen: 30 dB	id: 50/50	Radio Std: None Radio Device: BT5	Frequency
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm					1.0
20 0 10.0		mon	man	m		Center Free 2.498500000 GH
0.00 400 -200 K.A. A.S.	mananan			my	produced to and	
400 400					10.00	-
80.0						CF Step 1.000000 MH
Center 2.49 #Res BW 10			#VBW 300 kHz		Span 10 MHz Sweep 1 ms	<u>Auto</u> Ma
Occupie	d Bandwidth 4.5	5114 MHz	Total Power	29.1 c	1Bm	Freq Offse 0 H
Transmit x dB Ban	Freq Error dwidth	21.370 kHz 5.189 MHz	OBW Power x dB	99.0		

## Band41 5MHz 16QAM 25 0 Main MidCH40620-2593



#### Band41\_5MHz\_16QAM\_25\_0\_Main\_HighCH41565-2687.5

R.	2.687500000	Trig:	Freq. 2.687500000 GHz Free Run Avg/Hold		Frequency
	Ref Offset 14.2 dE		1: 30 dB	Radio Device: BT	, 
10 dB/div	Ref 30.00 dBm				-
20.0		monomen	normal normality has		Center Free 2.687500000 GH
0.00		1			-
10.0					
200 WWWWW	munthamart			gun manun	
30.0				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-
40.0					
-50.0 -80.0					-
					CF Ste 1.000000 MH
Center 2.68 #Res BW 10			VBW 300 kHz	Span 10 N Sweep 1	
Occupie	ed Bandwidt 4.	h 5098 MHz	Total Power	29.5 dBm	Freq Offse
Transmit	Freq Error	17.294 kHz	OBW Power	99.00 %	
x dB Ban	dwidth	4.927 MHz	x dB	-26.00 dB	
uetic:				STATUS	

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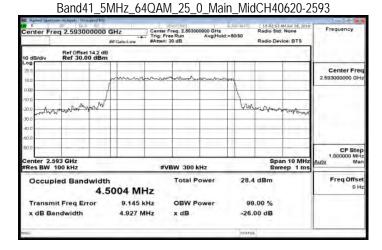
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## Report No.: T190611W02-RP Page 187 of 480

## Band41\_5MHz\_64QAM\_25\_0\_Main\_LowCH39675-2498.5

allan Jhen	Annyat Orta	ered Bill	-		ans sum	-			AM JUD 18, 2019	10.4.63
Center Fr	eq 2.49850		SHz NFGainskow	Center F	reg: 2.49850 te Run	Avg Hold:		Radio Sto	I: None	Frequency
10 dB/div	Ref Offset 1 Ref 30.00								1.1	10.0
20 n 10.0		_	pommona	pinn-nin	-	romano	2			Center Free 2.498500000 GH
400 -400 -200	Newsland	mal		-			1	multing	0.0.	
30.0	J.Montaction and								MD Warne	
-50.0							-		-	CF Step
Center 2.4 #Res BW				#V	BW 300 H	Hz			an 10 MHz eep 1 ms	Auto Mar
Occup	ied Bandy		059 M	Hz	Total P	ower	28	.4 dBm		Freq Offse 0 Ha
Transm	it Freq Erro	or	19.966	KHZ	OBW P	ower	4	99.00 %		
x dB Ba	ndwidth		5.052 M	Hz	x dB		-2	6.00 dB		
usc.							578	TVS-		



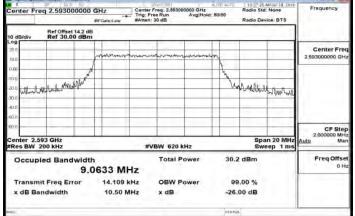
#### Band41\_5MHz\_64QAM\_25\_0\_Main\_HighCH41565-2687.5

allante Manuel	- An any an I Oren pred Bill			*.** ······	A. R. M. A. A. A.	10.4 63
Center Fre	eq 2.687500000	Trig:	Freq. 2,587500000 GHz Free Run Avgittok n: 30 dB	Radio 1	St Minuel 18, 2019 Std: None Device: BTS	Frequency
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm				1	in the state
2ft n 10.0		mannen	man man man and	many		Center Freq 2.687600000 GHz
0.00 200 -200	mann			Margan		
300 Nunn					MARA I MARK	
-90.0 -80.0						CF Step
Center 2.6 #Res BW		1	VBW 3D0 kHz		pan 10 MHz weep 1 ms	1.000000 MHz
Occup	ied Bandwidth 4.4	958 MHz	Total Power	28.8 dBm		Freq Offset 0 Hz
	it Freq Error ndwidth	11.979 kHz 4.930 MHz	OBW Power x dB	99.00 % -26.00 dB		
Nesia:				STATUS		

#### Band41\_10MHz\_QPSK\_50\_0\_Main\_LowCH39700-2501

R	q 2.501000000	GHz Cente	Freq. 2.501000000 GHz		Radio Std:	None	Frequency
-		MFGain:Low #Atte	n: 30 dB		Radio Devi	ce: BT5	
10 dB/div	Ref Offset 14.2 dE Ref 30.00 dBm					1.1	
20 n		pleaserman	The bally service of the second se	m.	-		Center Free 2.501000000 GH
0.00	1	A		1		-	
WWW ooo	and and a state of the state of			Am	williant	an water	
40.0							
00.0					-	-	CF Step
Center 2.50 #Res BW 2	00 kHz		VBW 620 kHz			n 20 MHz ep 1 ms	Auto Mar
Occupi	ed Bandwidt 9.0	h 0551 MHz	Total Power	30.3	dBm		Freq Offse 0 H
Transmi	t Freq Error	21.336 kHz	OBW Power	99.	.00 %		
x dB Bar	ndwidth	10.72 MHz	x dB	-26.0	0 dB		
-				- Interior		-	

# Band41 10MHz QPSK 50 0 Main MidCH40620-2593



#### Band41\_10MHz\_QPSK\_50\_0\_Main\_HighCH41540-2685

R Center Fre	g 2.68500	0000	GHz	Trig: I	Freq. 2.6850 Free Run 1: 30 dB		50/50	Radio St	e Antaur 18, 2019 d: None ivice: BTS	Frequency
Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm									1.0	
20 n 10.0		1.7	manna	-		unimplan	2			Center Free 2.685000000 GHa
0.00		1					3			
300 Jun with	New advances of	1.ml					n	hermon	Nummeryce	
40.0							-			
000								-		CF Ster 2.000000 MH
Center 2.68 #Res BW 2				#	VBW 620	kHz			an 20 MHz /eep 1 ms	Auto Mar
Occupied Bandwidth Total Power 30.6 dBm 9.0365 MHz								Freq Offse 0 Ha		
Transmi	t Freq Err	or	16.378	kHz	OBW F	ower	9	9.00 %		
x dB Bar	ndwidth		10.48	MHz	x dB		-26	.00 dB		
unic.							STAT	ute-	-	

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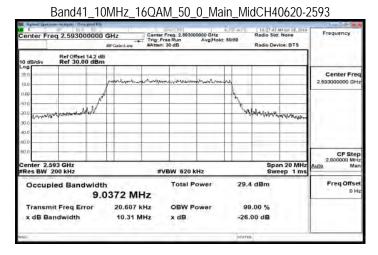
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#### Band41\_10MHz\_16QAM\_50\_0\_Main\_LowCH39700-2501

alama Anan	Annyan I Ornand Bill		2005-000	AUTONOT AUX	5.34 AM Jun 18, 2019	10.4
Center Fre	eq 2.50100000	Trig:	Free Run Avgittok n: 30 dB	Radio 1: 50/50	Std: None Device: BT5	Frequency
10 dB/div	Ref Offset 14.2 d Ref 30.00 dBr				1	1.0
10.0		Japana	harmiter			Center Fre 2.501000000 GH
0.00 400 -200 -300	nation when the second			man	homentheast	
40.0 50.0 60.0						
Center 2.5 #Res BW			VBW 620 kHz		Span 20 MHz Sweep 1 ms	CF Ste 2.000000 MH Auto Ma
Occup	Freq Offse 0 H					
Transm	it Freq Error	40.882 kHz	OBW Power	99.00 %		
x dB Ba	ndwidth	10.52 MHz	x dB	-26.00 dE	3	
unic.				STATUS		



#### Band41\_10MHz\_16QAM\_50\_0\_Main\_HighCH41540-2685

all all and the second	- Annyat I Orta	Manual Bills					*		- Area	10 4 63
Center Fre	eq 2.68500	0000	GHz MFGain:Low			Avg Hold	ALINE MITC	Radio Sto		Frequency
10 dB/div	Ref Offset Ref 30.0		5				1.11			
20.11			mount				2			Center Freq 2.68500000 GHz
40.0		1					X			
-20.0 Sugarda	and the second second	Trent"					~	Windelians	anantestat.	· · · · · ·
-40.0										
-200 Center 2.6										CF Step 2.000000 MHz
#Res BW				#VE	SW 620 1	kHz			an 20 MHz eep 1 ms	<u>Auto</u> Man
Occupied Bandwidth 9.0685 MH								8 dBm		Freq Offset 0 Hz
	it Freq Err ndwidth	or	24.677 k 10.50 M		OBW P	ower		9.00 % .00 dB		
Auto-					-		57A13	us		

#### Band41\_10MHz\_64QAM\_50\_0\_Main\_LowCH39700-2501

Citamu Marian	-Analysis   Orthogram Bill		First uni	ALINY AUTO 1 100	15 51 MIDIO 18, 2019	10.4
Center Fre	g 2.501000000	Trig	ter Freq. 2.501000000 GHz : Free Run Avg Hol en: 30 dB	Radio d: 50/50	o Std: None o Device: BTS	Frequency
10 dB/div						
2ft ft 10.0			mana mana mana mana mana mana mana mana	- an		Center Free 2.501000000 GH
0.00	, M	1		The second	-	
200 HANNIN	Annan Martin			June 12 - A	Ampano	
40.0 50.0			_			
00.0					1.1	CF Ster 2.000000 MH
Center 2.50 #Res BW 2			#VBW 620 kHz		Span 20 MHz Sweep 1 ms	Auto Ma
Occupie	ed Bandwidt 9.0	h 0267 MHz	28.3 dBn	n	Freq Offset 0 Hz	
Transmit	Freq Error	36.043 kHz	OBW Power	99.00 %	6	
x dB Bar	dwidth	11.14 MHz	x dB	-26.00 di	8	

#### Band41 10MHz 64QAM 50 0 Main MidCH40620-2593



#### Band41\_10MHz\_64QAM\_50\_0\_Main\_HighCH41540-2685

R.	q 2.685000000		Freq 2,685000000 GHz	Radio Std	Mona 18, 2019	Frequency
			n: 30 dB	Radio Dev	ice: BTS	
10 dB/div	3.4.1					
zh n		an marked and a second	monorman			Center Free
10.0		1		1		
100	N			1	-	
20.0 Handhall	www.marrie			Hardenhours	working	
30.0						
40.0					1	
0010					-	-
						CF Ste 2.000000 MH
Center 2.68 Res BW 2		4	VBW 620 kHz		eep 1 ms	Auto Ma
Occupie		Freq Offse 0 H				
Transmit	t Freq Error	29.354 kHz	OBW Power	99.00 %		
x dB Bar	ndwidth	10.55 MHz	x dB	-26.00 dB		
etic;				STATUS		

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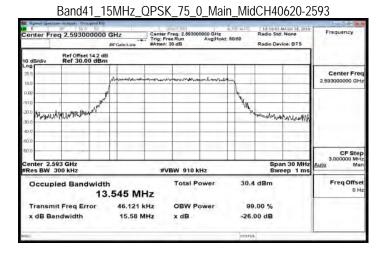
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#### Band41\_15MHz\_QPSK\_75\_0\_Main\_LowCH39725-2503.5

allant Barrie	-Annyati Ortagent B	W			10.4.63			
Center Fre	q 2.50350000	Trig	ter Freq. 2.503500000 GHz Free Run Avg Hold ten: 30 dB	ALIO AUTO   101551 Maar 18, Radio Std: None a: 50:50 Radio Device: BTS	Frequency			
Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm								
200 10.00		manusion	www.man.	**1	Center Free 2.503600000 GHz			
0.00 -100		A		WWAL	-			
200 And All	WWWWWWWWW			When an a to filled a har	Nilla			
-40.0								
Center 2.50	A GH7			Span 30 N	CF Step 3.000000 MH; Hz Auto Mar			
#Res BW 3			#VBW 910 kHz	Sweep 1				
Occupie	Freq Offset 0 Hz							
Transmit	Freq Error	55.932 kHz	OBW Power	99.00 %				
x dB Bar	dwidth	15.50 MHz	x dB	-26.00 dB				
Aeric-				STATUS				



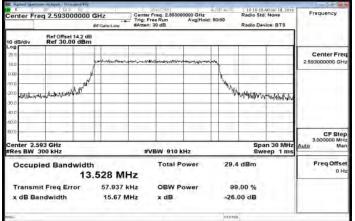
## Band41\_15MHz\_QPSK\_75\_0\_Main\_HighCH41515-2682.5

all all and the state	- An any an I Orea	Assess Bills			-		August 100			10.4.63
Center Fre	q 2.68250	00000	GHz AFGain:Low		req. 2.68250 le Run 10 dB		50/50	Radio St	Antain 18, 2019 d: None wice: BTS	Frequency
Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm									10 2 19	
20 n 10.0			-	Marronalyum	-Annon	minning				Center Fred 2.682600000 GH
0.00 40.0	-	- And and		-			1			
-200 -300 -400	nonealtand	per						-arrowda-or	nistron the s	1
-50.0 										CF Ster
Center 2.6 #Res BW 3				#VI	BW 9101	KHZ	1		an 30 MHz /eep 1 ms	3.000000 MHz Auto Man
Occupied Bandwidth Total Power 30.7 dBm 13.496 MHz								Freq Offse 0 H		
Transmi x dB Ba	t Freq Err ndwidth	or	31.916 15.40 M		OBW P	ower		00 % 00 dB		
Nesia				-			STATU	•]		

#### Band41\_15MHz\_16QAM\_75\_0\_Main\_LowCH39725-2503.5

- again fanning	- Analyza I Oraca	and Bills		2015-101	1 7.0	D MULE	LILLOW.	AM 000 18 2019	10.4
Center Free	2.503500		-P- Trig	ter Freq. 2.50350000			Radio Std	None	Frequency
Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm									10.00
2ft fi 10.0		-	mannin	warminer	ining				Center Fre 2.503600000 GH
40.0		and				m			
200 200 mile May	united ministration	hu.				101	Another and	whitewather	
40.0									
000		-				_		-	CF-Step 3.000000 MH
Center 2.50 #Res BW 30				#VBW 910 kHz				eep 1 ms	<u>Auto</u> Ma
Occupied Bandwidth Total Power 29.6 dBm 13.493 MHz								Freq Offse 0 H	
Transmit	Freq Erro	or	65.758 kHz	OBW Pov	ver	99	9.00 %		
x dB Ban	dwidth		15.75 MHz	x dB		-26.	8b 00.		
							-		

#### Band41 15MHz 16QAM 75 0 Main MidCH40620-2593



#### Band41\_15MHz\_16QAM\_75\_0\_Main\_HighCH41515-2682.5

Center Fre	q 2.68250	10.0	GHz	Center	Freq. 2.68250		ALI LI PALITA	Radio Sto	MILLIN 18, 2019	Frequency
			MFGaincLow	#Atten	: 30 dB	stabluoid:	30130	Radio De	vice: BTS	
Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm								10.00		
20:11					-				-	Center Free
10.0							-m	-	-	2.682600000 GHz
0.00	-	1		-	-	-	A	-	-	
40.0	1.0	John -		-		-	14			
windthen 0.05	In the served of	μ <b>r</b>						with matches	hawa Mintanin	
30.0				-					-	
40.0	-				-				1	
000										-
							_	-		3.000000 MH
Center 2.6 #Res BW 3				#	VBW 910 H	Hz			an 30 MHz eep 1 ms	Auto Mar
Occupi	ed Band	width	(		Total P	ower	29	.8 dBm		Freq Offse
13.544 MHz									0 Ha	
Transmi	t Freq Err	or	34.383	KHz	OBW P	ower	4	99.00 %		
x dB Ba	ndwidth		15.58 M	AHz	x dB		-21	5.00 dB		
etic.	_			-			578	TUE.		

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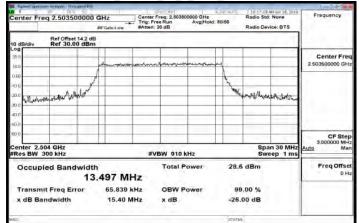
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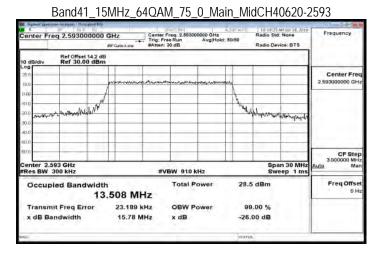
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#### Band41\_15MHz\_64QAM\_75\_0\_Main\_LowCH39725-2503.5





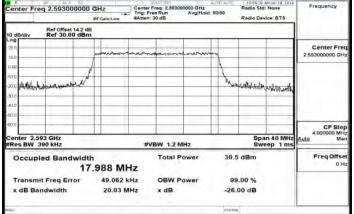
### Band41\_15MHz\_64QAM\_75\_0\_Main\_HighCH41515-2682.5

all all and them	Annya I Oragent Bill		205-JIM	AUG/ AUG		10.4 68				
Center Fre	Center Freq 2.682500000 GHz Center Freq. 2.88200000 GHz Radio Std: None AFGeinsLew Freq. 2.88200000 GHz Radio Std: None ArGeinsLew Atten: 30 dB AvgiHold: 50300 Radio Device: BT5									
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm				1.1	1. 2 14				
20.0		mundersources	houman			Center Freq 2.682600000 GHz				
0.00 -10 0				h						
-20.0 -30.0	and the second s			"Ingelowington	without share					
-40.0										
Center 2.6	83 GHz			Spa	n 30 MHz	CF Step 3.000000 MHz Auto Man				
#Res BW	300 kHz	4	VBW 910 kHz		ep 1 ms					
Occup	ied Bandwidth 13	.508 MHz	Total Power		Freq Offset 0 Hz					
	nit Freq Error andwidth	31.033 kHz 15.65 MHz	OBW Power x dB	99.00 % -26.00 dB						
Aerija.				STATUS						

#### Band41\_20MHz\_QPSK\_100\_0\_Main\_LowCH39750-2506

allow Sheering	- An averal Occupied Bill		1 - 205-101	A.(17 A)	10:07:367	winin 18,2019	1014 6
Center Fre	g 2.506000000	None ice: BT5	Frequency				
10 dB/div	Ref Offset 14.2 dl Ref 30.00 dBn					1.1	
20 m 10.0		manipulation	and a share a s	ukan manan			Center Free 2.50600000 GH
0.60 -10 0		4		1			-
300 mboline	John Hermann M			1	Malandreques	moderativit	
-40.0							
00.0							CF Step 4.000000 MH
Center 2.50 #Res BW 3			#VBW 1.2 M	łz		n 40 MHz ep 1 ms	Auto Mar
Occupie	ed Bandwidt 17	<sup>h</sup> .983 MHz		Total Power 29.			Freq Offse 0 H
Transmit	t Freq Error	75.408 KH2	OBW Po	wer	99.00 %		
x dB Bar	dwidth	19.40 MHa	x dB	-2	6.00 dB		
				-			

# Band41 20MHz QPSK 100 0 Main MidCH40620-2593 10:09:36 AM Jun 16 Radio Std: None



### Band41\_20MHz\_QPSK\_100\_0\_Main\_HighCH41490-2680

R.	2.680000000	Trig: I	r Freq. 2.680000000 GHz Free Run Avg/Hold 1: 30 dB	Radio S	td: None wvice: BT5	Frequency
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm					
200 0000000000000000000000000000000000		protocomments		2		Center Free 2.680000000 GH
0.00 100 200 ANNO	a more and			howwood	and drawing of	
30.0 40.0						1
000 Center 2.68	GH7			St	oan 40 MHz	CF Ste 4.000000 MH
Res BW 39		#	VBW 1.2 MHz		weep 1 ms	Curo ma
Occupie	d Bandwidth 18	.009 MHz	Total Power	31.0 dBm		Freq Offse 0 H
Transmit x dB Ban	Freq Error dwidth	50.588 kHz 19.88 MHz	OBW Power x dB	99.00 % -26.00 dB		
atja-				STATUS		

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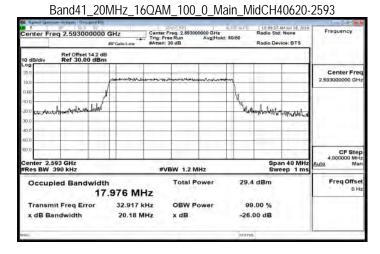
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## Band41\_20MHz\_16QAM\_100\_0\_Main\_LowCH39750-2506

allow Marin	- Annyati Original Bill		ansemi I	AUT/AUC 1 10.08.07	MILLIO 18, 2019	10 4 68			
Center Fre	enter Freq 2.506000000 GHz Canter Freq. 250600000 GHz Radio Stat. None HF Geinture And State Sta								
10 dB/div	Ref Offset 14.2 dB Ref 30.00 dBm				1.41				
200 m	depuster and a second free and a second								
40.0	لا	A							
300 ANAM	of the stand and the stand			Millinghand	wildlater Mr.				
40.0									
000					-	CF Step 4.000000 MHz			
Center 2.5 #Res BW 3		4	VBW 1.2 MHz	Spa Sw	eep 1 ms	Auto Man			
Occupi	Freq Offset 0 Hz								
Transmi	t Freq Error	105.55 kHz	OBW Power	99.00 %					
x dB Ba	ndwidth	19.89 MHz	x dB	-26.00 dB					
Nesic.				STATUS					



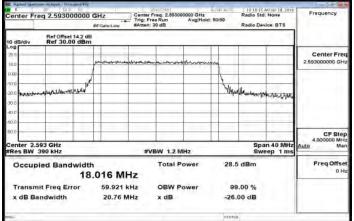
#### Band41\_20MHz\_16QAM\_100\_0\_Main\_HighCH41490-2680

all all and all and all and all all all all all all all all all al	Annyat Otto	and Eth						-	-	10 4 68
Center Fre	enter Freq 2.68000000 GHz Arr GainsLaw Arr GainsLaw									Frequency
10 dB/div	Ref Offset Ref 30.00		5		_				1.41	10.00
20.0			Julanian	~~~F6m>~~W	-	un den magen para	1			Center Freq 2.68000000 GHz
0.00 -100 -200 0.00	ulumast	wat					1 MA	nalar alashiying	Antones	
-40.0 -40.0 -40.0		_						_		
Center 2.6		-		#VE	W 1.2 M	Hz			n 40 MHz ep 1 ms	CF Step 4.000000 MH; Auto Mar
Occupied Bandwidth Total Power 30.4 dBm 17.991 MHz								Freq Offset 0 Hz		
	it Freq Erro ndwidth	or	61.127 H 20.05 N		OBW P	ower		9.00 % .00 dB		
Aersic-	_			_			STAT	us-	-	

#### Band41\_20MHz\_64QAM\_100\_0\_Main\_LowCH39750-2506

Center Freq 2.506000000 CHZ         Center Freq 2.50600000 CHZ         Radio Std. None         Preguency           Mr Galactaw         Mr Galactaw         Aug (Mad. 5000)         Radio Davice: BTS         Radio Davice: BTS           None         Ref 70 fres 12 dB         Conter Freq 2.50600000 CHZ         Radio Davice: BTS         Radio Davice: BTS           None         Ref 70 fres 12 dB         Conter Freq 2.506         Center 12         Center 12           None         Ref 70 fres 14 dB         Center 12         Center 12         Center 12           None         Ref 70 fres 14 dB         Center 12         Center 12         Center 12           None         Ref 70 fres 14 dB         Center 12         Center 12         Center 12         Center 12           None         Ref 70 fres 14 dB         Center 12         Span 40 MHz         Auto           None         Ref 80 M 300 HZ         TVEW 1.2 MHz         Span 40 MHz         Auto           Occupied Bandwidth         Total Power         28.6 dBm         Freq OI	C Manual Manual	-Annyati Oraques	(BW	1	AUDIANS 140.0812	5 MILLIO 18, 2019 1	10.4
On distail         Ref 30.00 dBm           Conternation         Centernation	enter Fre	d: None	Frequency				
10         Center           100         Image: Second							1.1
100         100 <th>20.0</th> <th></th> <th>mennedenter</th> <th>anne ang anna lara an an</th> <th>upq</th> <th></th> <th>Center Free 2.506000000 GH</th>	20.0		mennedenter	anne ang anna lara an an	upq		Center Free 2.506000000 GH
200	100 200 LIANT	al Alternation of the second	W		muneser	or hereafter states b	
Center 2:506 GHz         Span 40 MHz         Auto           Ress BW 390 kHz         #VBW 1.2 MHz         Span 40 MHz         Auto           Occupied Bandwidth         Total Power         28.6 dBm         Freq Ol           17.944 MHz         Transmit Freq Error         71.561 kHz         OBW Power         99.00 %	50.0						
17.944 MHz Transmit Freq Error 71.561 kHz OBW Power 99.00 %	Center 2.5		_	#VBW 1.2 MHz			CF Step 4.000000 MH Auto Mar
C. Marchard, M. M. & Marchard, M. M. Schmann, M. Marchard, M. M Marchard, M. Marchard, M Marchard, M. Marchard, M Marchard, M. Marchard, M. Marchard	Occupi		Freq Offse 0 H				
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

## Band41 20MHz 64QAM 100 0 Main MidCH40620-2593



#### Band41\_20MHz\_64QAM\_100\_0\_Main\_HighCH41490-2680

allant Barrin	- Annyan I Ornand BW		-205-101	A DATA DEST AND A DATA AND	10.3				
Center Fre	enter Freq 2.680000000 GHz Carter Freq 2.68000000 GHz Radio Std: None Trig: Free Run AvgiHold: 5050 Radio Device: BT5								
10 dB/div	Ref Offset 14.2 dB 10 dB/div Ref 30.00 dBm								
20.0		mannagenes	work and a stand and a stand and a stand a stan		Center Free 2.680000000 GH				
0.00	لر	4		N.	-				
20.0 Low Michig	And and a stand a stand and a			hyperminist	trance				
40.0									
000					CF Step 4.000000 MH				
Center 2.68 #Res BW 3		4	VBW 1.2 MHz	Span 4 Sweep	0 MHz Auto Ma				
Occupi	Freq Offse 0 H								
Transmi x dB Bar	t Freq Error ndwidth	40.895 kHz 20.19 MHz	OBW Power x dB	99.00 % -26.00 dB					
etja:				STATUS					

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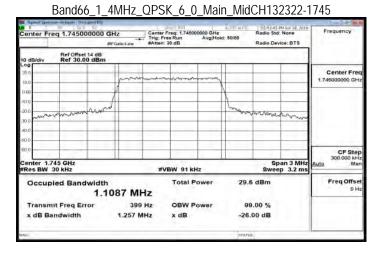
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## Band66\_1\_4MHz\_QPSK\_6\_0\_Main\_LowCH131979-1710.7

R	SU C	and the set	anse.um		4 PM Jun 18, 2019	Frequency
Center Fre	eq 1.710700000	Trig:	r Freq. 1.710700000 GHz Free Run Avg Hol n: 30 dB	ld: 50/50	td: None avice: BT5	Trequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm				1.1	
20 0		francision	mining			Center Fre 1.710700000 GH
10.0	and and a second			homenon.	m	
400 500 800						
Center 1.7 Res BW 3			VBW 91 kHz		pan 3 MHz ep 3.2 ms	CF Ste 300.000 kH Auto Ma
Occup	Freq Offse 0 H					
	it Freq Error ndwidth	-1.118 kHz 1.255 MHz	OBW Power x dB	99.00 % -26.00 dB		
				rang		



# Band66\_1\_4MHz\_QPSK\_6\_0\_Main\_HighCH132665-1779.3

all and there	An averal Over pred By				10.4.8
Center Fre	eq 1.779300000	7	anter Freq. 1.779300000 GHz ig: Free Run Avgitio itteri: 30 dB	ALIGN MUTC 025051 Was Radio Std: No Radio Device:	ne Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm				1
20.0		proversions	mannihmm		Center Freq 1.779300000 GHz
0.00 		A		N I	
-20.0 -20.0 Banner	manne	N.		monor	where,
-40.0					
Center 1.7					CF Step 300.000 kHz 3 MHz Auto Man
#Res BW			#VBW 91 kHz	Sweep :	3 MHz Auto Man 3.2 ms
Occup	ied Bandwidth 1.1	, 1004 MHz	Total Power	28.7 dBm	Freq Offset 0 Hz
	it Freq Error Indwidth	72 Hz 1.250 MHz	OBW Power x dB	99.00 % -26.00 dB	
Ansic				STATUS	1.

#### Band66\_1\_4MHz\_16QAM\_6\_0\_Main\_LowCH131979-1710.7

Center Fre	eq 1.710700000	Trig:	Freq. 1.710700000 GHz Free Run Avgition n: 30 dB	Radio d: 50/50	16 PM No. 18, 2019 Std: None Device: BTS	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm				1.1	
20.0		minante	mormany			Center Freq 1.710700000 GHz
0.00 	manne	1		Junan	andle	
-40.0	BY 40.97				21112/M/D	
center 1.7	11 GHz				Span 3 MHz	CF Step 300.000 kH
#Res BW	30 kHz	1	VBW 91 kHz	Sw	eep 3.2 ms	
Occup	ied Bandwidth 1.1	067 MHz	Total Power	30.1 dBm		Freq Offse 0 H
	it Freq Error Indwidth	1.235 kHz 1.257 MHz	OBW Power x dB	99.00 % -26.00 dB	3 1 1	

## Band66 1 4MHz 16QAM 6 0 Main MidCH132322-1745



#### Band66\_1\_4MHz\_16QAM\_6\_0\_Main\_HighCH132665-1779.3

🖉 allam Marin	- An any still Over pred Big		-		10.4
Center Fre	eq 1.779300000	Trig:	Freq: 1.779300000 GHz Free Run Avg Hol a: 30 dB	ALIAN WITC   52/51/25 (Main 18 Radio Std: None d: 50/50 Radio Device: BT	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm				1
20.0		promotion	mannen		Center Free 1.779300000 GH
0.00		1			-
-20.0 -30.0	man man			man winder	***
80.0 80.0					CF Ste
Center 1.7 #Res BW 3			VBW 91 kHz	Span 3 P Sweep 3.2	MHz Auto Ma
Occupi	ied Bandwidth 1.1	027 MHz	27.6 dBm	Freq Offse 0 H	
Transm x dB Ba	it Freq Error ndwidth	1.329 kHz 1.252 MHz	OBW Power x dB	99.00 % -26.00 dB	
ueșc.				STATUS	

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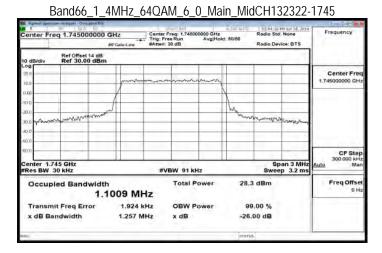
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#### Band66\_1\_4MHz\_64QAM\_6\_0\_Main\_LowCH131979-1710.7

again gann	- Антиуна ГОнации	H B (H	-	1.2	nsemi		ALLU/ ALLC	02,42,28	PM 546 18, 2019	10.4
Center Fre	eg 1.7107000		Z lain:Low			Avgittoid	: 50/50	Radio Sto Radio De	I: None	Frequency
10 dB/div	Ref Offset 14 Ref 30.00 d								1.1	
20:0 20:0 10:0			from	manua		in				Center Fre 1.710700000 GH
0.00 10 0 20 0		A	-				hy.			-
30.0 <b>)</b>	montimi							" "Wingu	manyard	
00.0										CF Ste 300.000 kH
Center 1.7 Res BW				#VE	3W 91 kH	z	_		pan 3 MHz p 3.2 ms	Auto Ma
Occup	ied Bandw	łz	Total P	ower	28.	3 dBm		Freq Offs 0 F		
	it Freq Error Indwidth		-729 1.258 M		OBW Pa	ower		9.00 % .00 dB		
		_			-					



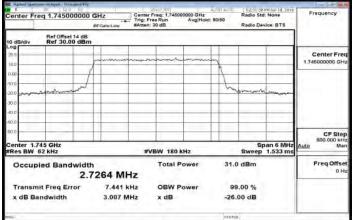
#### Band66\_1\_4MHz\_64QAM\_6\_0\_Main\_HighCH132665-1779.3

agaan (perce	- An any an I Orange Big			ALDVINUE 1825		10 4 13				
Center Fre	E 20 1000 GHz Dester Freq 1.779300000 GHz Center Freq 1.779300000 GHz Radio Stell None Alf Cales.Lew Address Center Freq 1.779300000 GHz Radio Device BTS Aff Cales.Lew Address Center Freq 1.779300000 GHz Radio Device BTS									
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm				1					
20.0		parane	Varianding			Center Freq 1.779300000 GHz				
0.00 		A		X						
	montomin	~		min	and					
-40.0					-					
Center 1.7			#VBW 91 kHz	Sv	Span 3 MHz veep 3.2 ms	CF Step 300.000 kHz Auto Man				
Occup	ied Bandwidtl 1.1	n 1005 MHz	Total Power	26.7 dBm		Freq Offset 0 Hz				
	it Freq Error Indwidth	715 Hz 1.255 MHz	OBW Power x dB	99.00 % -26.00 dB						
Aerija:				STATUS						

#### Band66\_3MHz\_QPSK\_15\_0\_Main\_LowCH131987-1711.5

Center Fr	eq 1.711500000	-P- Trig:	Freq. 1.711500000 GHz Free Run Avg Hok n: 30 dB	ALINT HUTC	Radio Std		Frequency
10 dB/div	1						
200 10.00		pamman	manna	any -			Center Free 1.711500000 GH
10.00 -20.0	monument			1	-	moun	
-30.0 -40.0 -50.0					-		
center 1.7			*VBW 180 kHz			oan 6 MHz 1.533 ms	CF Step 500.000 kH Auto Mar
	ied Bandwidt		Total Power	29.1	dBm	1,000 ms	Freq Offse 0 H
Transmit Freq Error x dB Bandwidth		Freq Error 11.644 kHz			0.00 %		

# Band66 3MHz QPSK 15 0 Main MidCH132322-1745



### Band66\_3MHz\_QPSK\_15\_0\_Main\_HighCH132657-1778.5

allan Sherina	- Annyan I Orna	anned Billy			ALUTI NUL	023635PM AU	10 4 11
Center Free	q 1.77850		-P- Tri	nter Freg: 1.778500000 GH		Radio Std: Nor Radio Device:	Frequency
10 dB/div	Ref Offset						- 1
200			monum	maria	m		Center Free 1.778500000 GH
40.0		1			1		
30.0 mm.ml/m	www.	A			h	pany-c-labur	אייניינונו
40.0		-					
0.00	-						CF Ste 600.000 kH
Center 1.77 Res BW 6				#VBW 180 kHz		Sweep 1.5	6 MHz <u>Auto</u> Ma 33 ms
Occupie	ed Band		245 MHz	Total Power	30.	1 dBm	Freq Offse 0 H
Transmit x dB Ban	t Freq Erro Idwidth	or	3.862 kHz 3.000 MHz	OBW Power x dB		9.00 % .00 dB	
uerșe:					stan	8	

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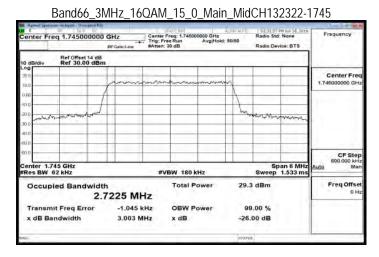
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## Band66\_3MHz\_16QAM\_15\_0\_Main\_LowCH131987-1711.5

allant Bart	Annyan Original	ΕŴ		1.5	ese mul		2.07	INITE	1 TO INT	PM 546 18, 2019	10.4
Center Fr	eq 1.7115000		in:Low	Center Fr	eq: 1.71160				Radio Ste	1: None	Frequency
10 dB/div	Ref Offset 14 c Ref 30.00 dl									1.11	
2011 10.0		-	www	nintrin	-		2				Center Fre 1.711600000 GH
0.00 40.0 20.0	1	A						Lan			
30.0 W~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	marmhrand		_						ar water	~~~~~~~	
80.0											CF Ste
Center 1.7 Res BW		_		#VE	W 180 k	Hz			Sweep	pan 6 MHz 1.533 ms	600.000 ki Auto Mi
Occup	ied Bandwi		9 MI	Hz	Total P	ower		27.8	dBm		Freq Offs 0 }
	it Freq Error Indwidth		2.519 H 3.009 N		OBW P	ower		1.55	.00 % 00 dB		
					-		_	Istanie	_		



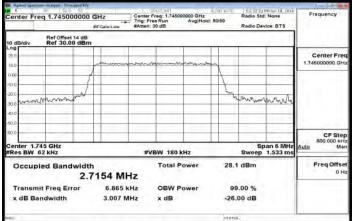
#### Band66\_3MHz\_16QAM\_15\_0\_Main\_HighCH132657-1778.5

allan	Annyat   Ortuged By		1 stast uni		LING WHITE		PM Jun 18, 2019	10.4 63
Center Fre	eq 1.778500000	GHz AFGainclew	Center Freq: 1.778500000 GHz			Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm					_	3.41	
20.0		manne	mound	amen and	'n			Center Freq 1.778500000 GHz
0.00	1				1			
100	monument				M	mm	manan	
40.0					-			
80.0					1			CF Step
Center 1.7 #Res BW			#VBW 180	kHz	1.1	Sweep	an 6 MHz 1.533 ms	Auto Mar
Occup	ied Bandwidth 2.7	161 MH	Total F	Power	29.2	dBm		Freq Offse 0 Ha
	it Freq Error Indwidth	8.430 kH 3.005 MH		Power		.00 % 00 dB		
Nesia					STATUS	1		

#### Band66\_3MHz\_64QAM\_15\_0\_Main\_LowCH131987-1711.5

R	q 1.711500	000 G	Hz FGain:Low	Center Fr			ALTUV AUTO > 50/50	Radio Sta	PM hin 18, 2019 3: None vice: BT5	Frequency
0 dB/div	Ref Offset 14 Ref 30.00								1.1	
09 10 11 0.0		1					m			Center Free 1.711500000 GH
00		1			-		N			
00		A-2					-	and a series		
00										
enter 1.7 Res BW 6		-		#VE	3W 180 k	Hz		Sweep	pan 6 MHz 1.533 ms	CF Step 500.000 kH Auto Mar
Occupi	ed Bandw		224 MH	Iz	Total P	ower	27	.7 dBm		Freq Offse 0 H
Transmi x dB Bar	t Freq Erro	r	4.918 k 3.020 M			ower		9.00 %		

## Band66 3MHz 64QAM 15 0 Main MidCH132322-1745



#### Band66\_3MHz\_64QAM\_15\_0\_Main\_HighCH132657-1778.5

atum Sterrin	- An equal I Or committee		and the second s		10.4.63
Center Fre	q 1.778500000	Trig:	Free 1.778500000 GHz Free Run Avg Hold n: 30 dB	ALIW MITE 10237.26 (Mau 18,2) Radio Std: None : 50/50 Radio Device: BT5	Frequency
10 dB/div					
20 n 10.0		manne	manager		Center Free 1.778500000 GH;
0.00 200		f		- Uni	
and the second second	nowwww.			"tharlangelan	~
-40.0 -50.0 -50.0					
Center 1.77 #Res BW 6			VBW 180 kHz	Span 6 Mi Sweep 1.533 n	CF Step 500.000 kH 12 Auto Mar
Occupi	ed Bandwidti 2.7	7239 MHz	Total Power	28.2 dBm	Freq Offse 0 H
Transmi x dB Bar	t Freq Error ndwidth	5.582 kHz 3.001 MHz	OBW Power x dB	99.00 % -26.00 dB	
Arsic-				STATUS	

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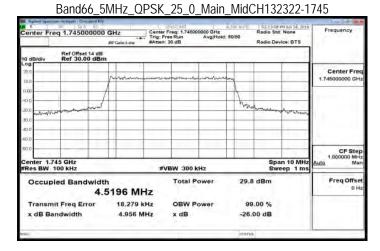
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#### Band66\_5MHz\_QPSK\_25\_0\_Main\_LowCH131997-1712.5

Center Fre	eq 1.712500		FGainchew	Center		Avg Hold:	50/50	Radio Std		Frequency
10 dB/div	Ref Offset 14	dB	r calificitiew	arction.				1320 25		
20 n 10.0		1		harrow	munum	man	ent.			Center Fre 1.712500000 GH
40 0 40 0 -20 0	mander	rw!					ha	man	maler	
30.0 10000000000000000000000000000000000					_		-			
Center 1.7					BW 3001	-		Spa	an 10 MHz eep 1 ms	CF Ste 1.000000 MH Auto Ma
	ied Bandw		163 MH		Total F		30.4	dBm	eep 1 ms	Freq Offse
	it Freq Error ndwidth	r	19.922 k 4.969 M		OBW P	ower		00 dB		
etic.			_		_		STATU			



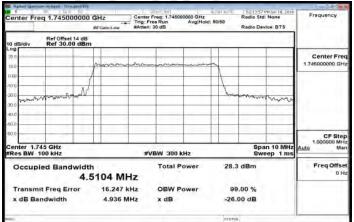
### Band66\_5MHz\_QPSK\_25\_0\_Main\_HighCH132647-1777.5

all all and the second	- Annyati Orna	and Bills			sine un		AL LOUI N		PM bin 18, 2019	10.4 63
Center Fre	eq 1.777500		SHz #FGain:Low	Center Trig: F	Center Freq: 1.777500000 GHz			Radio St		Frequency
10 dB/div	Ref Offset 1 Ref 30.00									1.1
20.0			mannen	w. Arrows	manin		m			Center Freq 1.777500000 GHz
100		1	-						1	
30.0 30.0 mm/m/m/	and manual	M					,	whenwer	Monorman	
400		_			-					
800									-	CF Step 1.000000 MH
Center 1.7 #Res BW				#\	/BW 300 k	Hz			an 10 MHz veep 1 ms	Auto Mar
Occup	ied Bandv		104 MI	١z	Total P	ower	2	29.1 dBm		Freq Offse 0 Ha
	it Freq Erro ndwidth	or	11.683 H 4.989 N		OBW P x dB	ower		99.00 % 26.00 dB		
uerșe:							5	7ATUS		

#### Band66\_5MHz\_16QAM\_25\_0\_Main\_LowCH131997-1712.5

R. R.	Analysis   October By		ans mi		011.22 PM No. 18, 2019	10.4
Center Fre	eq 1.712500000	Bo Std: None Bo Device: BTS	Frequency			
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm	1			1	11.
2ft ft 10.0		man	around a source of the second	m		Center Fre 1.712500000 GH
0.00 -10.0		A				
300	mantration			Unumuric	ampan opene	
40.0 -50.0 						-
Center 1.7 #Res BW			VBW 300 kHz		Span 10 MHz Sweep 1 ms	CF Stej 1.000000 MH <u>Auto</u> Ma
Occup	ied Bandwidt 4.	<sup>h</sup> 5107 MHz	Total Power	29.4 dB	m	Freq Offse 0 H
	it Freq Error indwidth	16.072 kHz 4.975 MHz	OBW Power x dB	99.00 -26.00 c		

#### Band66 5MHz 16QAM 25 0 Main MidCH132322-1745



#### Band66\_5MHz\_16QAM\_25\_0\_Main\_HighCH132647-1777.5

R.	eq 1.777500000	Trig:1	rreg. 1.777500000 GHz Free L.777500000 GHz Free Run Avg Hold	Rad	16.46 (M Jun 18, 2019 o Std: None o Device: BT5	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm			Rate	Device. B15	
20 n 10.0	Ker Solo dali		and the second	~~~		Center Free 1.777500000 GH
	man			hora	-	
40.0 -90.0						
Center 1.7 Res BW			VBW 300 kHz		Span 10 MHz Sweep 1 ms	CF Ste 1.000000 MH Auto Ma
Occupi	ed Bandwidth 4.5	5056 MHz	Total Power	28.3 dB	n	Freq Offse 0 H
	it Freq Error ndwidth	18.761 kHz 4.957 MHz	OBW Power x dB	99.00 -26.00 d		
uesic.				STATUS		

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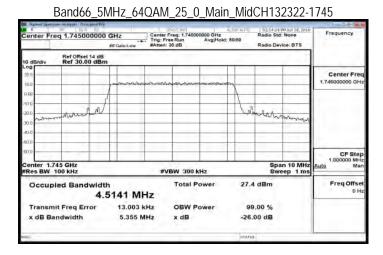
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## Band66\_5MHz\_64QAM\_25\_0\_Main\_LowCH131997-1712.5

adam Anna	- Annyat I Orsepted Bill		stast mil	ALTON MUTC	1
Center Free	q 1.712500000	Trig:	FreeRun Avgittok n: 30 dB	Radio Std: Non	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBn	n			
20.0		mana	man	my	Center Free 1.712500000 GH
40 Q					_
-20.0 -30.0 -40.0	frontinter			Mannacha	when
Center 1.71 #Res BW 1			FVBW 300 kHz	Span 10 Sweep	MHz Auto Ma 1 ms
Occupie	ed Bandwidt 4.	<sup>h</sup> 5070 MHz	Total Power	28.8 dBm	Freq Offse 0 H
	t Freq Error	17.238 kHz	OBW Power	99.00 %	
x dB Bar	ndwidth	4.950 MHz	x dB	-26.00 dB	
				statie.	



#### Band66\_5MHz\_64QAM\_25\_0\_Main\_HighCH132647-1777.5

all and there	- An anyon I Orac pred Byg		ans- m	ALM/ AUTO   6217 42 PM aut 1	10.4.63				
Center Fre	Frequency TS								
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm								
20.0				~~	Center Freq 1.777500000 GHz				
0.00 									
	www.www.www.www.			paranaparana	m				
-40.0									
Center 1.7 #Res BW			#VBW 300 kHz	Span 10 Sweep	MHz Auto Man				
Occup	Occupied Bandwidth Total Power 28.2 dBm 4.5140 MHz								
	it Freq Error Indwidth	17.475 kHz 4.954 MHz	OBW Power x dB	99.00 % -26.00 dB					
Arric				STATUS	1				

#### Band66\_10MHz\_QPSK\_50\_0\_Main\_LowCH132022-1715

R.	g 1.715000000	GHz Center	Freq: 1.716000000 GHz Free Run Avg Hold h: 30 dB	Radio Std	a lease	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBr				3.41	
20 1		manne		-		Center Free 1.716000000 GH
0.00 -10 Q	1					
300 mmm/m/m	Mennend			"marchine	annon Maria	
40.0 -90.0						
00.0					1.1	CF Ster 2.000000 MH
Center 1.71 #Res BW 2			VBW 620 kHz		an 20 MHz eep 1 ms	Auto Mai
Occupie	ed Bandwidt 9.	<sup>th</sup> 0930 MHz	Total Power	31.2 dBm		Freq Offse 0 H
Transmit	t Freq Error	50.648 kHz	OBW Power	99.00 %		
x dB Bar	dwidth	10.63 MHz	x dB	-26.00 dB		

#### Band66 10MHz QPSK 50 0 Main MidCH132322-1745 62.62.14 PM Jun 18 Radio Std: None nter Freq 1.745000000 GHz Device: BT Ref Offset 14 dB Ref 30.00 dB Center Fre then, CF Step 2.0 Span 20 M #VBW 620 kHz Freq Offse Total Power Occupied Bandwidth 30.2 dBm 9.0648 MHz **Transmit Freq Error** 29.899 kHz 99.00 % **OBW Power** x dB Bandwidth 10.55 MHz x dB -26.00 dB

#### Band66\_10MHz\_QPSK\_50\_0\_Main\_HighCH132622-1775

Center Fre	q 1.775000000	Trig:	Freq: 1.775000000 GHz Free Run Avg Hole n: 30 dB	Radio d: 50/50	Sut Imau 18, 2019 Std: None Devicé: BTS	Frequency
10 dB/div						
20.0		man	in manual and	wing		Center Free 1.775000000 GH
0.00	/	4		X	-	
20.0	mont			Linsing	munining	
30.0 40.0					- worker	
90 A					-	1
00.0						CF Ste 2.000000 MH
Center 1.7 Res BW			VBW 620 kHz		Span 20 MHz Sweep 1 ms	Auto Ma
Occup	ied Bandwidt 9.0	n 0793 MHz	Total Power	30.2 dBn	·	Freq Offse 0 H
	It Freq Error	24.260 kHz	OBW Power	99.00 %		
x dB Ba	ndwidth	10.51 MHz	x dB	-26.00 dE	3	
atic.				STATUS	-	

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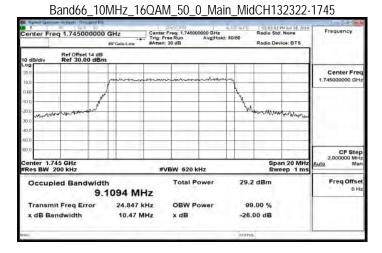
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## Band66\_10MHz\_16QAM\_50\_0\_Main\_LowCH132022-1715

R	Su - Lo	and a started	sense mil		Frequency			
Center Fre	eq 1.715000000	Trig:	r Freq. 1.716000000 GHz Free Run Avg Hold n: 30 dB	1:>50/50 Radio Std: Madio Devic				
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm							
20.0		permanenter	and the second second	-	Center Free 1.715000000 GH			
0.00 	1	4						
-30.0 MAA-**** -40.0	rewardtend			here when we	white			
-900 					CF Ste			
Center 1.7 #Res BW 3			VBW 620 kHz		20 MHz Auto Ma			
Occup	Occupied Bandwidth Total Power 29.9 dBm 9.0439 MHz							
Transm	it Freq Error	53.272 kHz	OBW Power	99.00 %				
x dB Ba	ndwidth	10.40 MHz	x dB	-26.00 dB				
				status				



#### Band66\_10MHz\_16QAM\_50\_0\_Main\_HighCH132622-1775

all all some littles of	Annyan Ornand	BW		-				Anna alle and	10.4 63
Center Fr	eq 1.7750000	00 GHz #FGaincLow	Center Trig: Fi #Atten:		Avg Hold: 5	50/50	Radio St	None vice: BTS	Frequency
10 dB/div	1.1								
2ft ft 10.0		porterme		manne	manutan	7			Center Freq 1.775000000 GHz
40.0		A	-	-		Ny LI	-	-	
-30.0 -30.0	And a second substance						enqu'd jue	-Annana	·
-50.0			-						CF Step
Center 1.7 #Res BW			#\	/BW 620 k	(Hz	-		an 20 MHz reep 1 ms	2.000000 MHz
Occup	ied Bandwi	dth 9.0558 M	/Hz	Total P	ower	29.4	dBm		Freq Offset 0 Hz
	it Freq Error Indwidth	23.23		OBW P	ower		.00 % 00 dB		
Anso		_				STATUS	1		

#### Band66\_10MHz\_64QAM\_50\_0\_Main\_LowCH132022-1715

allan	-Analysis   Ornapped Byg		ans mi	ALCOLUMNT:	170.017	PM 546 18, 2019	10.4
Center Fre	q 1.715000000	-P- Trig:	r Freg: 1.715000000 GHz		Radio Sta		Frequency
10 dB/div	3.41						
20.0		mannenannen	under the second se	mining			Center Free 1.716000000 GH
0.00	1			h			
-20.0 -30.0	mound			-	almater	when when which	
40.0 -50.0							
000						1	CF Ster 2.000000 MH
Center 1.7 #Res BW 2		#	VBW 620 kHz			an 20 MHz reep 1 ms	<u>Auto</u> Ma
Occupi	ed Bandwidt 9.0	h 0838 MHz	Total Power	29.5	i dBm		Freq Offse 0 H
Transmi	t Freq Error	66.580 kHz	OBW Power	99	.00 %		
x dB Ba	ndwidth	10.55 MHz	x dB	-26.	00 dB		

## Band66 10MHz 64QAM 50 0 Main MidCH132322-1745



#### Band66\_10MHz\_64QAM\_50\_0\_Main\_HighCH132622-1775

🖬 gitan Marin	- An argunt   Over pred Boy				10.4.8
Center Fre	q 1.775000000	Trig:	er Freq: 1.775000000 GHz Free Run Avg/Holo n: 30 dB	ALIAN NUTC   0206-16 PM Au Radio Std: Nor 1: 50/50 Radio Device: 1	Frequency
10 dB/div	1				
20 n 10.0		purmanna		~	Center Free 1.776000000 GH
0.00 -10 0	1	A		X	
	he burry and And			handerhans	white
-40.0					-
Center 1.71 #Res BW 2			#VBW 620 kHz	Span 2 Sweep	0 MHz Auto Ma 1 ms
Occupi	ed Bandwidt 9.	h 0958 MHz	Total Power	28.4 dBm	Freq Offse 0 H
Transmi x dB Ba	t Freq Error ndwidth	19.186 kHz 10.68 MHz	OBW Power x dB	99.00 % -26.00 dB	
etja:				STATUS	

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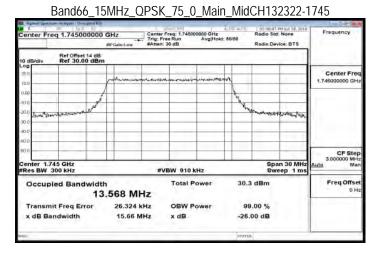
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## Band66\_15MHz\_QPSK\_75\_0\_Main\_LowCH132047-1717.5

agent (pers	Analysis Orsepted Big			AUTO NUT UNDER	PM Jun 18, 2019 1	10.4				
Center Fr	eq 1.717500000	Trig:	Free Run Avg Hold n: 30 dB	Radio Str		Frequency				
10 dB/div	1.41	1.								
20.0		mandine				Center Free 1.717500000 GH:				
0.60 	1			4						
-20.0 -30.0 W/~W/	manner			montellas	Whenevere					
-90.0										
Center 1.7 #Res BW			VBW 910 kHz	Sp	an 30 MHz eep 1 ms	CF Step 3.000000 MH Auto Mar				
Occup	Occupied Bandwidth Total Power 30.8 dBm 13.546 MHz									
	nit Freq Error	70.646 kHz	OBW Power	99.00 %						
x dB Ba	andwidth	15.68 MHz	x dB	-26.00 dB						
teric.				STATUS						



# Band66\_15MHz\_QPSK\_75\_0\_Main\_HighCH132597-1772.5

🖉 allam Marcel	- Annyat I Ortuged Bill		1	AUTONIC		10 4 63
Center Fre	q 1.772500000	The T	anter Freq. 1.772500000 G Ig: Free Run Avg Itten: 30 dB	Hold: 50/50	01.55 (16 Main 18, 2019 adio Std: None adio Device: BT5	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBn					10.00
20 n 10.0		pressione				Center Free 1.772500000 GHa
0.00 	1	1		h		
-20.0 <b>Josephilu</b> -30.0	and water a charden				ANT AND A PARAMENTA	
-40.0						
Center 1.7			#VBW 910 kHz		Span 30 MHz Sweep 1 ms	CF Step 3.000000 MH Auto Mar
	ed Bandwidt	<sup>th</sup> 3.594 MHz	Total Power	31.3 d		Freq Offse 0 Ha
Transm x dB Ba	it Freq Error ndwidth	16.115 kHz 16.00 MHz	OBW Power x dB	99.0 -26.00		
Nesico				STATUS		

# Band66\_15MHz\_16QAM\_75\_0\_Main\_LowCH132047-1717.5

allan Berne	- Annyat I Oracaned Bay	-	1 martin		* /			10.4.63
Center Fre	q 1.717500000		Center Freq. 1.717 Trig: Free Run #Atten: 30 dB		ALINT HUTC	Radio Ste	PM34/18,2019 5: None vice: BT5	Frequency
10 dB/div	Ref Offset 14 dB Ref 30.00 dBn						3.41	
20 n 10.0		frances	ward and a failed the start	<u>م</u>	m			Center Fred 1.717500000 GH;
40.0		4			N. N.			
-20.0 -20.0 -20.0	phapeltimeter				<u> </u>	in the second	anarimation in a	
-50.0 								CF Ster
Center 1.71 #Res BW 3			#VBW 910	kHz			an 30 MHz eep 1 ms	3.000000 MH Auto Mar
Occupi	ed Bandwidt 13	th 3.487 MH		Power	29.	5 dBm		Freq Offse 0 Ha
Transmi x dB Bar	t Freq Error Idwidth	72.773 kH		2 10 7 Z		9.00 % .00 dB		
100000						100		

## Band66 15MHz 16QAM 75 0 Main MidCH132322-1745



#### Band66\_15MHz\_16QAM\_75\_0\_Main\_HighCH132597-1772.5

R Center Freq	- BC	10.0	GHz AFGain:Low	-P. Trig:	Freq: 1.77250 Free Run n: 30 dB		ALIW AUTO 50/50	Radio Ste	I PM Jun 18, 2019 d: None wice: BTS	Frequency
Ref Offset 14 dB 10 dB/div Ref 30.00 dBm										
200			many		manna	Part North Contraction	-			Center Fred 1.772500000 GH;
0.00 		-			-		A			
30.0 30.0	duter distri	p.						And the second second	normanala	
-40.0 -50.0 -30.0				-						
Center 1.773 #Res BW 30					VBW 910 P	(Hz			an 30 MHz reep 1 ms	CF Step 3.000000 MH; Auto Mar
Occupie	d Band		.594 N	ЛНz	Total P	ower	29	.5 dBm		Freq Offse 0 Ha
Transmit x dB Band		or	2.33 15.64	0 kHz MHz	OBW P x dB	ower		9.00 % 5.00 dB		
Antici							5781	us.		

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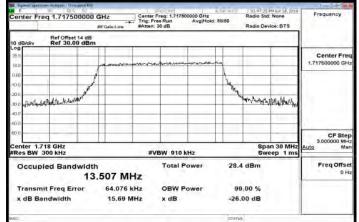
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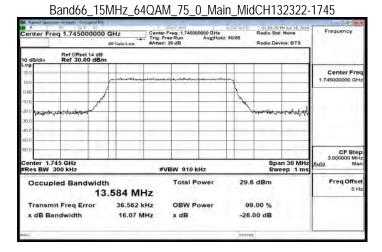
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#### Band66\_15MHz\_64QAM\_75\_0\_Main\_LowCH132047-1717.5





#### Band66\_15MHz\_64QAM\_75\_0\_Main\_HighCH132597-1772.5

all all and the state	- Analysis   Orta	Asken give			-	_	*		A 10 40 400	10 4 61
Center Fre	q 1.77250		GHZ	Center		AvgiHold	2107 ALIC >50/50	Radio Sto Radio De		Frequency
10 dB/div	Ref Offset Ref 30.00								1.1	
20 n 10.0			minun		marilescentrus					Center Freq 1.772500000 GHz
0.00 -100	-	1			-		A			
-30.0	why the line	An.					7	historia di la	andwine	
-400 -900 -900					-				1	
Center 1.7 #Res BW 3				#V	BW 9101	KHZ			an 30 MHz eep 1 ms	CF Step 3.000000 MH; Auto Mar
Occupi	ied Band		592 MI	Hz	Total P	ower	28.	5 dBm		Freq Offset 0 Hz
Transm x dB Ba	it Freq Err ndwidth	or	22.852 I 15.50 N		OBW P	ower		9.00 % .00 dB		
Artici							STATU			

#### Band66\_20MHz\_QPSK\_100\_0\_Main\_LowCH132072-1720

R. 1	An equal I Orac prod Big	and a second	añisenni		16 PM Jun 18, 2019	Frequency
Center Freq	1.720000000	Trig:	r Freg. 1.720000000 GHz Free Run Avg Holo n: 30 dB	d: 50/50	itd: None Nevice: BTS	Center Freq 1.720000000 GHz
10 dB/div	Ref Offset 14 dB Ref 30.00 dBm				1.1	
20.0				man		
0.00 10.0	J.	1				P
20.0 MWWWWW	with a star of the			"Heren house and	ANAMON ANA	
40.0						
000					1	CF Ster 4.000000 MH
Center 1.72 #Res BW 39		#	VBW 1.2 MHz		pan 40 MHz weep 1 ms	Auto Mar
Occupie	d Bandwidth 17	969 MHz	Total Power	30.8 dBm		Freq Offset 0 Hz
Transmit	Freq Error	54.168 kHz	OBW Power	99.00 %	2.01	
x dB Ban	dwidth	19.82 MHz	x dB	-26.00 dB	2111	

### Band66 20MHz QPSK 100 0 Main MidCH132322-1745



### Band66\_20MHz\_QPSK\_100\_0\_Main\_HighCH132572-1770

R	1.770000000	GHz AFGalicLow		1.770000000 GHz	ALINE MUTC 1d: 50/50	Radio Std		Frequency	
10 dB/div	Ref Offset 14 dB Ref 30.00 dBn	,					3.41	Center Freq 1.77000000 GHz	
20 n 10.0		monum	odinin singer	Minter and	min				
0.00 		1			K.	-			
-30.0	alters and alternation					and safed	wheneyane		
-40.0								1	
Center 1.77 0 #Res BW 390		11	#VBW	( 1.2 MHz			an 40 MHz eep 1 ms	CF Step 4.000000 MH Auto Mar	
Occupied	d Bandwidt 18	h 1.006 MH		otal Power	30.	5 dBm		Freq Offse 0 H	
Transmit I x dB Band	Freq Error Iwidth	21.540 k 19.84 M		dB Power		9.00 % .00 dB			
uric.				-	STATU	6			

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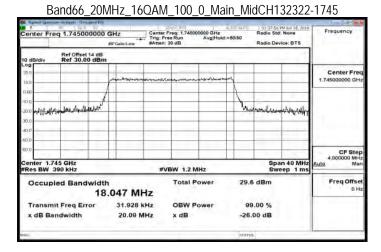
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## Band66\_20MHz\_16QAM\_100\_0\_Main\_LowCH132072-1720

R R	1.50 0	10.0		2015-1111			PM 516 18, 2019	Frequency
Center Freq	1.72000		7	enter Freq: 1.7200 rig: Free Run Atten: 30 dB	Avg Hold: 50	Radio Std Radio Dev		Center Free 1.72000000 GH
10 dB/div	Ref Offset Ref 30.0				_		3.41	
2ft ft			morenam	-				
0.00 -100 -200 -200	sector	Int				frankarran	be test	
-40.0 -40.0	, . <b>.</b>						يليل هيد (1 م. م	
00.0								CF Ster 4,000000 MH
Center 1.72 #Res BW 39				#VBW 1.2 M	IHz		eep 1 ms	Auto Ma
Occupie	d Band		966 MHz	Total F	ower	29.7 dBm		Freq Offse 0 H
Transmit	Freq Err	or	70.688 kHz	OBW P	ower	99.00 %		
x dB Ban	dwidth		19.98 MHz	x dB		-26.00 dB		
utic)						status		



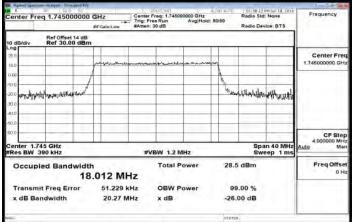
### Band66\_20MHz\_16QAM\_100\_0\_Main\_HighCH132572-1770

all and they	Annyat Ora	And Bill			-				Anna Marana	10.4 63
Center Fr	eq 1.77000	0000	GHz #FGain:Low	Center	Freq: 1.7700 ree Run : 30 dB	00000 GHz Avg Hold	ALION MUTE	Radio St	I Waa 18,2019 d: None wice: BTS	Frequency
10 dB/div	Ref Offset Ref 30.00								1.11	
20.0			forman	mularia		the dataset	m			Center Freq 1.770000000 GHz
0.00 -100 -000 -00	-	meder		-	-	-	L	Media . 1		
-30.0 -40.0	Allowaters							can turned the	rthemark	
-90,0 										CF Step
Center 1.7 #Res BW				#\	/BW 1.2 M	AHz			an 40 MHz /eep 1 ms	
Occup	ied Band		.000 M	Hz	Total F	ower	29.	5 dBm		Freq Offset 0 Hz
	iit Freq Err andwidth	or	15.093 19.85 M		OBW F	ower		9.00 % .00 dB		
Anticia			_				5781	us-		

#### Band66\_20MHz\_64QAM\_100\_0\_Main\_LowCH132072-1720

again Second	-Annyati Orna	and Bird	_		199-1071	_	AL // ALLS		PM 540 18, 2019	10.4
Center Free	Freq 1.720000000 GHz Canter Freg 1.72000000 GHz Canter Freg 1.720000000 GHz Canter Freg 1.720000									Frequency
10 dB/div	Ref Offset 1 Ref 30.00								1.11	Center Freq 1.72000000 GHz
2001 2011 10.0			al and an an an an	warm		-	7			
0.00 10 Q		1		_			1			
200 300 K (Mr. N)	telenste konsthek	den.					Va,	-theorem and	niturbulan	
400 900							-			
Center 1.72 Res BW 3				#VE	SW 1.2 N	1Hz	-		an 40 MHz reep 1 ms	CF Stej 4,000000 MH Auto Ma
Occupie	ed Bandy		905 MH	z	Total P	ower	29.	0 dBm		Freq Offset 0 Hz
Transmit x dB Bar	t Freq Erro ndwidth	or	74.352 k		OBW P	ower	1.1.1	9,00 % .00 dB		

### Band66 20MHz 64QAM 100 0 Main MidCH132322-1745



### Band66\_20MHz\_64QAM\_100\_0\_Main\_HighCH132572-1770

R Center Fred	a de 1	14.1	GHz #FGain:Low	Center Fr			50/50	Radio Std: Radio Dev		Frequency	
10 dB/div	Ref Offset Ref 30.0								3 1		
20 n 10.0			manne	ndr <sup>a</sup> rnarnada	-	1. T. J. Los	-			Center Free 1.770000000 GH	
200 200	ai ta	1		-			Lu				
30.0 MUR/M	litheolog	eduan.					~	nan Manshalaya	s coulours		
-90.0 							-			CF Ster 4.000000 MH	
Center 1.77 #Res BW 39				#VE	W 1.2 N	IHz			n 40 MHz ep 1 ms	Auto Mar	
Occupie	d Band		986 M	Hz	Total P	ower	28.	5 dBm		Freq Offse 0 H	
Transmit x dB Ban		or	18.336 19.97		OBW P	ower		9.00 % .00 dB			
unic.							STATU	8			

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になどの方式のサービルなど時本で見が利用した。体の見良く「PioFittike 190人。体験で不知本なの自動サイットやすかけなき。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms and conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms e-document.htm</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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# 8. OUT OF BAND EMISSION AT ANTENNA TERMINALS

# 8.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h),Out of band emissions.The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

# FCC §27.53(c)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

# FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

# FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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# FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement nstrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50 + 10 Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

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にお子方 乳切り に取る時本性質剤風之体施育員 に同時に体部度体 留分化 や 報告 未知 な ひ 音 留け り・ 小 可 的 夜 我 ? This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>www.sgs.com/terms and conditions.htm</u> and for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>www.sgs.com/terms e-document.htm</u></u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 43 + 10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

§90.543 Emission limitations

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.

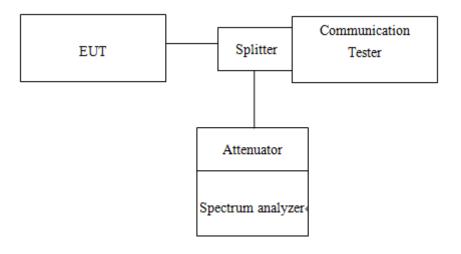
(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

# 8.2. Test SET-UP



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# 8.3. Measurement Procedure

# Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- Repeat above procedures until all default test channel measured were complete.

# Band Edge

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The band edge of low and high channels for the highest RF powers was measured. Setting RBW  $\geq$  1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

Condu	ucted Emission	(measured at a	intenna port)	Test Site	
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
DC Block	PASTERNACK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
TEMPERATURE	TEMPERA- TURE	HTC-1	EC-HY-01	04/18/2019	04/17/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020

# 8.4. Measurement Equipment Used

# 8.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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### Bandedge WCDMA\_B2\_LowCH9262-1852.4

10.4				1		Transa Sa	- Annyan I	ann Manne	<b>a</b> (
Frequency	123.24-58 PM Jun 18, 2019 TRACE 1 2 3 4 5 6 Trace A WWWWW	ype: Log-Pwr	Av	Trig: Free Run	GHz PNO: Wide	0000000 G	eq 1.850	ter Fre	Cen
Auto Tur				#Atten: 30 dB	iFGaintLow			_	_
Case (ma	-33.33 dBm	MKF1				t 14 dB 00 dBm	Ref Offse Ref 30.0	Bidiv	
Center Fre			_		-		-	×	20.0
1.850000000 GH		-				-	-		10.0
	antrites								10.00
Start Fre 1.849500000 Gi			1				-		20.0
			-	- t			-	-	-30.0
Stop Freq									40.0
1.850500000 G		-	_	_	-	-	-	1	-66.0
CF Ste 100.000 ki	p 1.8505000 GHz 000 ms (1001 pts)	Sweep 1.		150 kHz	#VBW	Hz	5000 GH 7 kHz	t 1.849 s BW 4	
Auto Mi	FUNCTION VALUE	FUNCTION WIDTH	PONCTION	-33.33 dBm	0 800 GHz	1850/			-9
Freq Offs									2745
									56789
					-				10 11
		STATUS							
		PTATUS							26.9

R. 1		.9100000	000 GHz	_,	rig: Free Ru	Ava	ALIW AND Type: Log-Pwr	TRA	1 2 3 4 5 6	Frequency
	-		PNO: Wid IFGain:Lo		Atten: 30 dE	ř.			A NWWWW	Auto Tur
0 dB/div		Offset 14 dE 30.00 dB		-		-	Mkr	1.910 0 -31.	00 GHz 12 dBm	- Bato ( a
.og 39.0	_		_		_	_	_	_		Center Fre
t0.0	-			-	_		_	-	-	1.910000000 G
0.00			_	-			_			
10.0	-	-		-	-	-	-	-		Start Fr
20.0		-		-	-	_				1.909600000 GH
40.0				100						-
50.0									A	Stop Fre
60.0										1.910500000 G
tart 1.90	19500	0 GHz	-				8	top 1.910	5000 GHz	CF St
Res BW			#	<b>/BW 15</b>	i0 kHz		Sweep	1.000 ms (	1001 pts)	100.000 k
			X 1.910 000 GHz	-	1.12 dBm	PUNCTION:	FUNCTION WIDTH	PUNCT	ON VALUE	Auto M
2 3		_	1,010,000 GHA		CI. 18 WIEII			-		Freq Offs
4 5	-			-						0
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6 7 8 9									_	1.0
10						_			_	
11	1			-		· · · · ·		1	- 7°	
\$(G)							STATE	0		

## WCDMA\_B2\_HighCH9538-1907.6

## WCDMA\_B4\_LowCH1312-1712.4

	A HOUSE AN ENVIRONMENT	Tronge Sa			The second design	0 4 ES		
Center F	req 1.71	0000000 GHz PNO: Wide -	Trig: Free Run	Avg Type: Log-Pwr	013058 PM Jun 18, 2019 TRACE 1 2 3 4 5 6 Time A WWWWW LEET A NNNN N	Frequency		
Ref Offset 14 dB Mkr1 1.709 974 GHz 10 dB/div Ref 30.00 dBm -33.79 dBm								
20.0 10.0	_					Center Freq 1.71000000 GHz		
-10:0			1		-1000-1000	Start Freq 1.709000000 GHz		
40.0						Stop Fred 1.711000000 GHz		
Start 1.7 #Res BW			W 150 kHz		Stop 1.711000 GHz .000 ms (1001 pts)	CF Step 200.000 kH; Auto Mar		
1 N 2 3 4	1 1	1,709.974 GHz	-33.79 dBm			Freq Offset 0 Ha		
5 6 7 8 9 10 11								
ANSIS				STATU		-		

#### WCDMA\_B4\_HighCH1513-1752.6

Agenet (gennen Arrestet ) Trents Sa				10 4 68
Center Freq 1.75500000	PNO: Wide Trig: Free Run	Aug Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
Ref Offset 14 dB 10 dB/div Ref 30.00 dBm	IFGain:Low #Atten: 30 dB		5 000 GHz 29.36 dBm	Auto Tune
20.0 10.0 0.00				Center Free 1.755000000 GH;
-10.0			-000-000	Start Fred 1.754000000 GHz
40.0 450.0 460.0				Stop Fred 1.756000000 GH
Start 1.754000 GHz #Res BW 47 kHz	#VBW 150 kHz	Sweep 1.000 r	,756000 GHz ns (1001 pts)	CF Step 200.000 kH
	55.000 GHz29.36 dBm			Freq Offse 0 H
11 , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		STATUB.		

## WCDMA\_B5\_LowCH4132-826.4

10 4 4			_			_	1 54	a segurat i Terra	()	1000 10	<b>1</b> a)
Frequency	01.35.56 PM Jun 18, 2019 TRACE 1 2 3 4 5 6 THE A WWWW DET A NN NN N	g Type: Log-Pwr	-	Pree Run		PNO: Wilda La	0000 MH	824.00	req	ter l	Cen
Auto Tun	1 824.000 MHz -31.82 dBm	Mkr		n: 30 dB	sAtte	FGalin:Low	8 dB	Offset 13	Rei	B/div	10 di
Center Free 824.000000 MH				-				_	_	-	30.0 10.0
Start Free 823.500000 MH	49 (D-1) (D-1)	~	1		_				-	-	0.00 10.0 20.0
Stop Free 824.500000 MH					~						40.0
CF Stej 100.000 kH Auto Ma	op 824.5000 MHz 000 ms (1001 pts)		PARTY	Hz	150 k	#VBW			47	s BV	Re
Freq Offse 0 H				2 dBm	-31.8;	00 MHz	824.0		1 1	N	234
											5 6 7 8 9 10 11
		STATUS									45G

## WCDMA\_B5\_HighCH4233-846.6

10 4 4			-				1.54	AN INVESTIGATION OF	-	1 mar 1	
Frequency	TRACE 1 2 3 4 5 6	03:3	Type: Log-Pwr	Ava	Trig: Free Run	C: Witte La	0000 MHz	849.00	Freq	nter	Cer
Auto Tun		Mkr1 849.000 MH						f Offset 1		B/div	10 0
Center Free 849.000000 MH		-		_			-		_	1	30,0 10 (
Start Free 848.500000 MH	100169					-					-10.0
Stop Free 849.500000 MH										-	40.0
CF Step 100.000 kH Auto Mar	49.5000 MHz ns (1001 pts)	1.000 m	Sweep 1	PUNICTICN-	150 kHz	#VBW	*		47	rt 84 es BV	¥R(
Freq Offse 0 H	5/16/17/06/06/06			DOLEHON	-29.16 dBm	0 MHz	849,00		1 1	N	1 2 3 4
											5 6 7 8 9 10 11 ,
		105-	STATU						_	_	lesis i

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## LTE\Band2\_1\_4MHz\_QPSK\_1\_0\_LowCH18607-1850.7

									farment 5
TRADE 1 2 3 4 5 4		Avg Typ	Run	Trig Free	Or Wide	00000 GH			enter
	Mkr1 1		lo dB	#Atten: 3	SeintLow	dB			dBidiv
			1						
and and a state of the state	harring	1	, I	9				-	
						-	- maria	-	
0 ms (1001 pts)	Sweep 5.2			62 kHz	#VBW		KHZ	N 20 k	les BV
				-25.06 dE	0 GHz	1,850,000		1 1	N
		-			_				2 5 7 8 8
	1.850 000 GHz	Mkr1 1.550 000 GHz -25.06 dBm	Avg Type: Log-Bwr Mkr1 1:850 000 GHz -25.06 dBm -25.06 dBm -25.06 dBm -25.06 dBm -25.06 dBm -25.06 dBm -25.06 dBm -25.06 dBm -25.06 dBm	Avg Type Log-Pwy         Proch [1, 2, 2, 4, 3]           Proch [1, 2, 3, 4, 3]         Proch [1, 2, 3, 4]           Mkr1 1.850 000 GHz         -25,06 dBm           -25,06 dBm         -25,06 dBm           Stop 1.851000 GHz         Stop 1.851000 GHz           Sweep 6.200 ms (1001 pts)         Stop 1001 pts)	Avg Type: Log-Bvr (1000 [2.2 # 34 ] Trig: Free Run AAN Type: Log-Bvr (1000 [2.2 # 34 ] Mikr1 1.850 000 GHz -25.06 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	Z         Avg Type: Log-Pay         The Light State         The Light State	Bit	100 0000 GHZ         1000 000 000 GHZ         1000 000 GHZ         1000 000 000 GHZ         1000 000 000 000 GHZ         1000 000 000 GHZ         1000 000 000 000 000 000 000 000 000 00	Ref 076set 14 dB         Multi-ref Ref 08000000 GHz         Multi-ref Ref 0800000000000000000000000000000000000

## LTE\Band2\_1\_4MHz\_QPSK\_1\_5\_HighCH19193-1909.3

Karpegett Speatheart Ananyze	- Simpli M	2192 (111		103-15:07 PM Jun 14, 2014	22.2
Center Freq 1.91	0000000 GHz	Trig: Free Run	Avg Type: Log-Pwr		Frequency
10 dB/div Ref 30.1		#Atten: 30 dB	Mkr1	1.910 000 GHz -20.99 dBm	Auto Tune
20.0 10.0		-			Center Freq 1.91000000 GHz
100 -100 -20.0	man	1ª		DL9-Hotoch	Start Freq 1 90900000 GHz
-40.0			the second se	man man and and and and and and and and and a	Stop Freq 1.911000000 GHz
Start 1.909000 GH: #Res BW 20 kHz		W 62 kHz		Stop 1.911000 GHz .200 ms (1001 pts)	CF Step 200.000 kHz Auto Man
N 1 2 3 4 5	1,910,000 GHz	-20.99 dBm			Freq Offset 0 Hz
6 7 8 9 10 11					Scale Type
MBG			TATES	s	

## LTE\Band2 1 4MHz QPSK 6 0 LowCH18607-1850.7

C 2 4								Altern House /a	n-ont Sp	- 54
Frequency	TRADE 1 2 3 4 5 8 T/PE A WWWWW		Avg Type: Log-Pwr		-	PND: Wide ~	50000000	reg 1.85	ter F	Cer
Auto Tune	0 000 GHz 28.10 dBm		Mkr	o au	#Atten: 3	IFGeiniLow	et 14 dB		B/div	10 d
Center Freq 1.85000000 GHz										20.0
Start Freq 1.849000000 GHz	TES HORSE DA			1					_	0.00 -10.0 -20.0 -30.0
Stop Fred 1.851000000 GH								-	mind	-40,0 -60,0
CF Step 200.000 kH Auto Mar	.851000 GHz ns (1001 pts)	5.200 n			W 62 kHz	#VB	Hz	9000 GH 20 kHz		#Re
Freq Offse 0 H					-28,10 df	0.000 GHz	1.85	1	N	23
Scale Type										4 5 6 7 8 9 10 11
		atus	=7×1							(DOM)

# LTE\Band2 1 4MHz QPSK 6 0 HighCH19193-1909.3

								-1-Man / 200 - 3	Succession in	
05 1 2 3 4 5 5	TRA	ype: Log-Pwr	Ave	Run	College	Hz			er Fre	ent
and the second		1.000	_			FGeiniLow	-	-	· · ·	
		Mkr1					dBm	Ref Offset	div	0 dE
			1.1	1						.0g
	_	_		-	_	-		_	_	10.0
	-	-	-	-	1		man		~~~	1.00
D13-40100-00-0		-	-	-	h	-	-	-		10.0
	-		100	1	1	-				20.0
				-						30 ft.
- man			1.							40,0,
			1	-	_	-	_	-	_	60.D
1000 GHz	top 1.91	S		+	1.1.1.1		-			
		Sweep 6.	_		62 kHz	#VBW	_			
CHI VALUE	FUNCT	FUNCTION WOTH	AMERICA:		-26.75 d	00 GHz	1,910	1	No areas	
										2345
=1				-		_			-	6 7 8
								-	-	9
	000 GHz 75 dBm	1.910 000 GHz -26.75 dBm 4.100 000 GHz -26.75 dBm 4.100 000 GHz 200 ms (1001 pts)	Mkr1 1.910 000 GHz -26.75 dBm -26.75 dBm -26	Mkr1 1.910 000 GHz -26.75 dBm -26.75 dBm -26	Mkr1 1.910 000 GHz -26.75 dBm	Trip: Free Run Akten: 30 dB         Trip: Free Run Akten: 30 dB           Mikr1 1.910 000 GHz -26,75 dBm           1           41           2           1           2           1           2           2           3           41           41           5	The Free Run Redenture         The Free Run Attention         The Free Run Run Run Run 26,75 dBm           White:         Mkr1 1.910 000 GHz -26,75 dBm           #VBW 62 kHz         Stop 1.911000 GHz Stop 2.911000 GHz Stop 2.911000 GHz	Place Under the Trig: Free Run Header Lee Britter: 30 off Header Lee Britter: 30 off	Ref Official Line Transformer	Projectives and provide the second se

## LTE\Band2\_3MHz\_QPSK\_1\_0\_LowCH18615-1851.5

						Compt Set	No. of Concession, Name	-OHESPARS	- 5M
Frequency	102-59:41 PM Jun 14, 2514 18405 1 2 3 4 5 5	g Type: Log-Pwr		383	Hz	000000 GH		ter Fre	l en
1 Adams	DET A NIN NIN N			#Atten: 30 dt	NO/Wide	1F P			
Auto Tune	1.850 000 GHz -19.57 dBm	Mkr1					Ref Offset Ref 30.0		0 dE
			1						20.0
	mont	hang	1	- I					
							A	~~	0,0 0,0 0,0
CF Ster 200.000 kH Auto Ma	top 1.851000 GHz 667 ms (1001 pts)	Sweep 1.		120 kHz	#VBV			BW 3	Re
	FUNCTION VALUE	FUNCTIONWOTH	PLANETRO	-19.57 dBm	00 GHz	1.850.00	1	N	
Freq Offse 0 H									23456
Scale Typ									7 8 9
Log Li		1 1		-	-			1	11
		STATUS							101

### LTE\Band2\_3MHz\_QPSK\_1\_14\_HighCH19185-1908.5

0.2.						n 54	ant-Analyzer - San	Avenuettian
Frequency	102:07:47 PM Jun 14, 2014 TNACE 1 2 3 4 5 5 TVPC A WANNEY DET A N IS N IS N	Type: Log-Pwr	A	Trig: Free Run	Z KOr Wide	0000 GH	g 1.91000	enter Fi
Auto Tun	1,910 000 GHz -15,15 dBm	Mkr1		#Atten: 30 dB	SeiniEow	dB	Ref Offset 14	-
Center Fre	-15.15 dBm			V T	~	Bm	Ref 30.00 o	0 dB/div 20.0
Start Free 1 909000000 GH	DL7-F3709 (DM	_	~	1	/	~~~	·······	10.0
Stop Fre 1,911000000 GH	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	n						30 0. 40 0 60 0 60 0
CF Stej 200.000 kH Áuto Ma	top 1.911000 GHz 667 ms (1001 pts)	Sweep 1.	STRUCTION	120 kHz	#VBW		9 kHz	Start 1.90 Res BW
Freq Offse 0 H				-15,15 dBm	GHZ	1.910.000	r	2 3 4 5 6 7 8 9
Scale Type								6 7 8 9 10
		STATUS		-				NO1

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## LTE\Band2\_3MHz\_QPSK\_15\_0\_LowCH18615-1851.5

Report Spathour Analyze - So		area		102-01125 PM Jun 14, 2014	028
Center Freq 1.85000	PND: Wide -+	Trig: Free Run	Avg Type: Log-Pwr		Frequency
Ref Offset 14		#Atten: 30 dB	Mkr1	1.850 000 GHz -25.45 dBm	Auto Tune
20.0 10.0					Center Fre
100 100 200		- I		243-43700-02m	Start Fre 1.849000000 GH
30 0 40 0 60 0		~~~			Stop Fre 1.851000000 GH
Start 1.849000 GHz #Res BW 39 kHz	#VBW	120 kHz	Sweep 1	top 1.851000 GHz .667 ms (1001 pts)	CF Ste 200.000 kl
	1.850 000 GHz	-25.45 dBm	INTRON	FUNCTION VALUE	Auto ma
2 3 4 5					Freq Offse
5 6 7 8 9 10				]	Scale Typ
341 1 1 1		-	STATUS		

### LTE\Band2\_3MHz\_QPSK\_15\_0\_HighCH19185-1908.5

GHz PND: Wide Trig: Free Run	Avg Type: Log-Pwr	1840E 1 2 3 # 5 5	Frequency
		DET A NONNY	
IFGainLow #Atten: 30 dB	Mkr1		Auto Tune
			Center Free 1.910000000 GH
he'		אמריסטיבוי-דדע	Start Free 1 90900000 GH
			Stop Fre 1,911000000 GH
#VBW 120 kHz	Sweep 1,	667 ms (1001 pts)	CF Step 200.000 kH Áuto Ma
000 GHz -23.82 dBm			Freq Offse 0 H
			Scale Type
	#VBW 120 KHz	Мкт1	Mkr1 1.910 000 GHz -23.82 dBm

### LTE\Band2 5MHz QPSK 1 0 LowCH18625-1852.5

Kennegett: Speatnerer Generation - Scoutt 54				
Center Freq 1.850000000 G	PND: Wide Trig: Free Run	Avg Type: Log-Pwr	102-43250 PM Jan 14, 2014 TN405 1 2 3 4 5 8 TYPE A WWWWW DET & N M N M N	Frequency
Ref Offset 14 dB	FGeiniLow #Atten: 30 dB	Mkr1	1.850 000 GHz -21.47 dBm	Auto Tune
20.0 10.0				Center Fred 1 850000000 GH
-0.0	2-		navoret un	Start Free 1.849000000 GH
40.0 60.0 61.0				Stop Free 1.851000000 GH
Start 1.849000 GHz #Res BW 51 kHz			op 1.851000 GHz 000 ms (1001 pts)	CF Step 200.000 kH Auto Mar
2 3	00 GHz			Freq Offse 0 H
4 5 6 7 7 8 9 9 10 11				Scale Type
(DOI)		SALANS		

22		-					Second House/Ann	- CHILSPAN	- 540
Frequency	102:55:45 PH Jan 14, 2014 10405 1 2 3 # 5 5 T/PE A WWWWW DET A NR NW N	Type: Log-Pwr	Av	Trig: Free Ru	Hz	000000		ter Fr	Cent
Auto Tun	1.910 000 GHz -18.82 dBm	Mkr1		#Atten: 30 dB	IFIGain(Low	14 dB	Ref Offse		
Center Fre	-10.02 0.011				-	Jasm	Ref 30.0	3/div	20.0 10.0
Start Fre 1.90900000 GH	far tomatin		~	Je.	=		~		0.00 10.0 20.0
Stop Fre 1.911000000 GH					-				30.0 40,0 50,0 60,0
CF Ste 200.000 ki	top 1.911000 GHz 000 ms (1001 pts)	Sweep 1.		150 kHz	#VB		9000 GH2 51 kHz	s BW	Stari Res
Freq Offs 01	EWIERSWARDE *	FUNCTED WETH	HUMON	-18.82 dBm	000 GHZ	1,910	1	N	2345
Scale Typ					_				6 7 8 9

LTE\Band2\_5MHz\_QPSK\_1\_24\_HighCH19175-1907.5

#### LTE\Band2\_5MHz\_QPSK\_25\_0\_LowCH18625-1852.5

	02-45:58 PM Jun 14, 2014			3193-1		Ann - Slovert SA	117	R
Frequency		Type: Log-Pwr	A	Trig: Free Run	PND: Wide	50000000 G	reg 1.85	nter F
Auto Tun			-	#Atten: 30 dB	IFGeiniLow		_	
Hulo I un	1.850 000 GHz -28.19 dBm	Mkr1				set 14 dB 0.00 dBm		dB/div
Center Fre			-		1 1 1		-	0
1.850000000 GH			_		-			0
			1		-		-	n
Start Fre	123-1300 dDn	-	1	1	-			0 0
1.849000000 GH				m				ō.
Dava Dava			_				_	0
Stop Fre 1.851000000 GH			-		-		-	0
					_			0
CF Ste 200.000 kH	top 1.851000 GHz 000 ms (1001 pts)	Sweep 1.		150 kHz	#VBW		9000 GH 51 kHz	
Auto Ma	EUZIETEZ WALLE	ELVELOWWORK	BUTHION .	-28.19 dBm	000 GHz	1 850 0		N
Freq Offse				-tee or a salarine	UUU SILIA			
0 H								
Scale Typ					_			
1.1.1.1.1.1.1.1.1	i]							
Log Li	-							
-		STATUS						

### LTE\Band2\_5MHz\_QPSK\_25\_0\_HighCH19175-1907.5

228	102:00117 PM Jun 14, 2019			2192			n - 1 20 0		- 641
Frequency		g Type: Log-Pwr	n	Trig: Free Ru	Wide	0000 GHz			
1.1.1.1	DET A NINNIN			#Atten: 30 di	n/Low	IFGN	-	-	-
Auto Tun	1.910 000 GHz -26.54 dBm	Mkr1					ef Offset 14 ef 30.00 d		o de
Center Fre			-			1			.0g
1.91000000 GH			_		_	_	-	_	10.0
			_		~				1.00
StartFre	123-45700 dBm		_		1			_	6.0
1.90900000 GH	-			~ •'	-				0.0
			$\sim$		-		-		0.6.
Stop Fre			_		_		-		O,E
1.911000000 GH								-	0.0
								1	4.0
CF Ste 200.000 kH	top 1.911000 GHz .000 ms (1001 pts)			50 kHz	#VBW			1.9090 BW 51	
Auto Ma	FUNCTIONWALDE	EUZICIEZ WORK	RUNC	-26.54 dBm		1.910.000.0		N 1	
Freq Offs		1		20.09 00/11	inz.	1.210.000	-	N I I	2
0 Hz					-				4
Scale Typ					-				234567890
og L		-	_		-			-	9
				-					-

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## LTE\Band2\_10MHz\_QPSK\_1\_0\_LowCH18650-1855

Ave-one See	there is a second second second					_				
Center Fr	eq 1.8500	00000 GH	Z ID: Wide		Run	Avg Typ	: Log-Pwr	184	14 Jan 34, 2014 CE 1 2 3 # 5 8 PC A N/W N N/N	Frequency
	-	JFC	SejniLow	#Atten: 30	dB		Milert			Auto Tun
10 dB/div	Ref Offset 1 Ref 30.00				_		NING 1	-14.	70 dBm	GHz Auto Tu dBm Center Fr 185000000 G
20.0	-		-		-	-		~	-	Center Fre
10.0		1	1		_		1	1		1.850000000 GH
4B B			1		1	and the M	1		Mon	Otaut Fran
20.0			m	man		-	-			1.849000000 GH
30.0		North								-
60(D	man		-		_	-				Stop Fre 1.85100000 GH
60.0		1					-	-		
Start 1.84 Res BW	9000 GHz 100 kHz		#VBI	N 300 kHz			Sweep 1	top 1.85	1000 GHz (1001 pts)	CF Ste 200.000 kH
	S REAL	1,850 000		-14,70 dB		ALTION	NOTES WERE	FUNCT	EW WALKE	Auto Ma
2 3 4	-	1.850.000	GHZ	-14.70 gB	m		_			Freq Offse
5 6 7 8 9			_		-					Scale Typ
10	-						-			Log L
6 C.				~			TATE			

#### LTE\Band2\_10MHz\_QPSK\_1\_49\_HighCH19150-1905 Freq nter Freq 1.910000000 GHz Trig: Free Ru #Atten: 30 dB Mkr1 1.910 000 GHz -13.51 dBm Ref Offset 14 dE Ref 30.00 dB Center Fre Start Fre amo Stop Fre 1.91

## 100 KH-Stop 1.911000 1.000 ms (1001 CF Ste #VBW 300 kH Freq Off Scale Typ

## LTE\Band2 10MHz QPSK 50 0 LowCH18650-1855

Exposite Spantour company - Sough 54					020
Center Freq 1.850000000	PND/With	Trig: Free Run	Avg Type: Log-Pwr	102-17:06 PM Jan 14, 2014 TRADE 1 2 3 # 5 # TriPE A WWWWW DET A NR MN N	Frequency
Ref Offset 14 dB	IF/Sein/Low	witten: av ob	Mkr1	1.850 000 GHz -25.23 dBm	Auto Tune
20.0 10.0					Center Free 1 85000000 GH
100 20.0 30.0		milin	mand	013-1200 DM	Start Fre 1.849000000 GH
40 U 60 D 60 D					Stop Fre 1.851000000 GH
Start 1.849000 GHz #Res BW 100 kHz	#VBW 3			Stop 1.851000 GHz .000 ms (1001 pts)	CF Ste 200.000 kH Auto Ma
3	000 GHz	25.23 dBm			Freq Offse
6 6 7 8 9 9 10 11					Scale Type
(DR)			=y=tu		

#### LTE\Band2\_10MHz\_QPSK\_50\_0\_HighCH19150-1905

Frequency	405 1 2 3 # 5 8 107 A N R N N N	THA	e: Log-Pwr	Ave T	ee Run 30 dB	1	Hz NO; Wide - GaintLow	00000 G	g 1.9100	er Fr	lent
Auto Tun	000 GHz .13 dBm	1.910 0	Mkr1			by years	Calencia	4 dB	Ref Offset Ref 30.00	l/div	IO dE
Center Fre 1.91000000 GH											20.0
Start Fre 1 909000000 GH	DLI -fattoralin				*	-	Baster				0.00 10.0 20.0 20.0
Stop Fre 1.911000000 GH											40,01 60,0
CF Ste 200.000 kH Auto Ma	11000 GHz (1001 pts)	000 ms			Iz	N 300 kH	#VB		000 GHz 00 kHz		Res
Freq Offs 0 F					dBm	-27.13	00 GHZ	1.910.0	1	N	2345
Scale Typ				_	+					1	6 7 8 9 10

### LTE\Band2\_15MHz\_QPSK\_1\_0\_LowCH18675-1857.5

Second Seaton -					
enter Freq 1.850	000000 GHz	Trig: Free Run	Avg Type: Log-Pwr	102:02:51 PM Jan 14, 2514 TRACE 1 2 3 # 5 # TVPE A WWWWW	Frequency
Ref Offset 0 dB/div Ref 30.0		#Atten: 30 dB	Mkr	1 1.850 000 GHz -16.07 dBm	Auto Tune
20.0					Center Free 1 85000000 GH
a aa a a a a a a a a a a a a a a a a a	whereighter	and and a start	and the second and the second	AGe office - 117	Start Fre 1.849000000 GH
0.0 0.0					Stop Fre 1.851000000 GH
tart 1.849000 GHz Res BW 200 kHz	#VBI	W 620 kHz		Stop 1.851000 GHz 1.000 ms (1001 pts)	CF Ste 200.000 ki Auto Ma
T N I T	1.850.000 GHz	-16.07 dBm			Freq Offse 0 F
2 3 5 6 7 7 8 9 9					Scale Typ
111		-	1		
K1			=t=t	21	

### LTE\Band2\_15MHz\_QPSK\_1\_74\_HighCH19125-1902.5

0.2.2			_				upt 54		Experience Spanne
Frequency	102-11(50 PM Jun 14, 2014 TRACE 1 2 3 4 5 6	RMS	Ave	ne Pur				.909000	art Freq
Auto Tune	910 000 GHZ		000		#Atten:	IO; Wide	IFC	a her have	
1000	-12.040 dBm	WIRFT						tef Offset 14 tef 30.00 d	
Center Free				1				1	0.0
1.14.7	pet-totoppe					hpówsława	my	1	00
Start Fred 1 909000000 GH	umburnumburn with the second	where we	why would	V/I-M	Andappe	1			0.0
Stop Free		-						1	0(0)
1.911000000 GH			-	1	-		_	-	0.0
CF Step 200.000 kH	00 ms (1001 pts)	art 1.909000 GHz Stop 1.911000 GHz Res BW 200 kHz #VBW 620 kHz* Sweep 1.000 ms (1001 pts)							
Auto Mar	FUNCTIONWALUE	NOTEN WOTH	RUNETION	dBm	-12.040 c	GHz	1.910 000	1	N N
Freq Offse 0 H									2 3 4 5 5 6 6 7 8 9 0 1
Scale Type		_		-					6 7 8 9
Log Lin		_							0
-		STATUS			_				0.

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