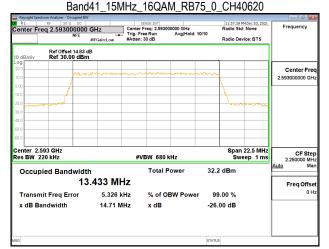


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Band41_15MHz_16QAM_RB75_0_CH39725

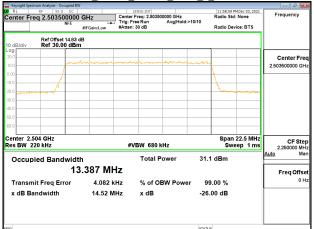
enter Fre	RF 50 Ω DC eq 2.503500000 NFE		SENSE:INT Center Freq: 2.50 Trig: Free Run	3500000 GHz AvglHold:	10/10	Radio Std	MDec 03, 2021 : None	Frequency
	NFC		#Atten: 30 dB			Radio Dev	ice: BTS	
0 dB/div	Ref Offset 14.83 Ref 30.00 dBr							
20.0								Center Fre
0.0	m	1 million and a second		Martha Martines	·····			2.503500000 GH
1.00						1		
0.0	- <i>S</i>					1		
0.0						- March	honora	
0.0								
0.0								
0.0								
enter 2.5 tes BW 2			#VBW 68) kHz			22.5 MHz ep 1 ms	CF Ste 2.250000 MH
Occup	ied Bandwidt	th	Total	Power	32.0	dBm		<u>Auto</u> Ma
	1:	3.427 MH	z					Freq Offs
Transm	nit Freq Error	826 H	z % of	OBW Powe	r 99	.00 %		01
x dB Ba	andwidth	14.71 MH	z xdB		-26.0	00 dB		
					STATUS			



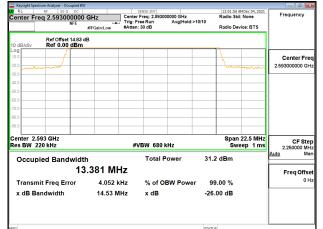
Band41 15MHz 16QAM RB75 0 CH41515

RL	trum Analyzer - Occupied BW RF 50 Ω DC		SENSE:INT		11:58:07 PM Dec 03, 2	2021
enter Fre	eq 2.682500000		ter Freq: 2.682500000 GH	z old: 10/10	Radio Std: None	Frequency
	NFE		ten: 30 dB	old: 10/10	Radio Device: BTS	5
0 dB/div	Ref Offset 14.83 d Ref 30.00 dBm				_	
og 10.0						Center Fre
0.0	me	man	- Mar - Constant - Constant	man		2.682500000 GH
.00	/					_
0.0	1			_	\	-
0.0	amerand			_	minno	~~~
0.0						-
.0						
0.0						-
0.0						
enter 2.6			(1) (T) (1) (0) (1) (1)		Span 22.5 M	L Cr Sie
es BW 2	20 KHZ		#VBW 680 kHz		Sweep 1	2.250000 MH Auto Ma
Occup	ied Bandwidt	h	Total Power	32.	1 dBm	Auto Ma
	13	.436 MHz				FreqOffs
Transm	nit Freq Error	1.518 kHz	% of OBW Po	wer 9	9.00 %	01
x dB Ba	andwidth	14.75 MHz	x dB	-26	.00 dB	
				STATU	IS	

Band41 15MHz 64QAM RB75 0 CH39725



Band41_15MHz_64QAM_RB75_0_CH40620



Band41 15MHz 64QAM RB75 0 CH41515

Keysight Spectrum A	Analyzer - Occupied 50 Ω DC	BW	SENSE:INT		10.00.55	M Dec 04, 2021	
enter Freg 2			ter Freq: 2.682500000 GHz		Radio Std		Frequency
	NFE	Trig	:FreeRun Avg Holo en:30 dB	d:>10/10	Radio Dev	vice: BTS	
	Ref Offset 14.8 Ref 30.00 dE						
og 0.0							Center Fr
0.0	~	mannon	man mark	mon			2.682500000 G
1.00					<u> </u>		
0.0					1		
0.0					1		
0.0							
0.0							
50.0							
0.0							
enter 2.683 tes BW 220 k			#VBW 680 kHz			22.5 MHz eep 1 ms	CF St 2.250000 M
Occupied	l Bandwid	lth	Total Power	31.1	dBm		Auto M
	1	3.382 MHz					Freq Offs
Transmit F	req Error	2.852 kHz	% of OBW Pow	ver 99	.00 %		0
x dB Band	width	14.57 MHz	x dB	-26	00 dB		
ig.				STATU			

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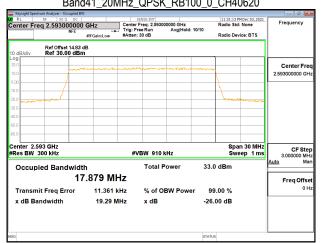
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Band41 20MHz QPSK RB100 0 CH39750

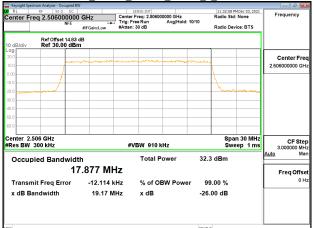
Center Fr	eq 2.50600	NFE	Hz FGain:Low	Center Fr		0000 GHz Avg Hold	: 10/10	Radio Std Radio Dev		Frequency
0 dB/div	Ref Offset Ref 30.0									
.og 20.0 10.0	_	more	and the second	an a	يعمر ومعاونين	muham	m			Center Fre 2.506000000 GH
0.00										
30.0										
50.0										
enter 2.5 Res BW				#VE	3W 910 H	Hz			n 30 MHz ep 1 ms	CF Ste 3.000000 MH
Occup	ied Band		367 MI	Чz	Total P	ower	33.1	dBm		Auto Ma
	nit Freq Err andwidth	ror	12.099 H 19.17 N		% of Ol x dB	BW Powe		0.00 % 00 dB		01
iG							STATU	8		



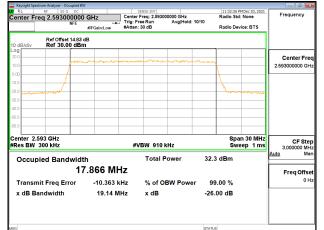
Band41 20MHz QPSK RB100 0 CH41490

	rum Analyzer - Occupied BW	r .			@ <mark>_</mark> ×
Center Fre	RF 50 Ω DC c 2.680000000		sense:INT ter Freq: 2.680000000 GHz	11:31:41 PM Dec 03, 2021 Radio Std: None	Frequency
	NFE	Trig	:FreeRun Avg Hold:1 en:30 dB	10/10 Radio Device: BTS	
10 dB/div	Ref Offset 14.83 o Ref 30.00 dBn			_	
20.0					Center Free
10.0	- man				2.680000000 GHz
0.00					
-10.0	- manual			haman	
-20.0					
-40.0					
-50.0					
-60.0					
Center 2.6 #Res BW 3			#VBW 910 kHz	Span 30 MHz Sweep 1 ms	CF Step 3.000000 MH
Occupi	ied Bandwidt	h	Total Power	32.9 dBm	Auto Mar
occup					Freq Offset
Transm	it Freq Error	13.092 kHz	% of OBW Power	99.00 %	0 H:
x dB Ba	ndwidth	19.23 MHz	x dB	-26.00 dB	
MSG				STATUS	

Band41_20MHz_16QAM_RB100_0_CH39750



Band41_20MHz_16QAM_RB100_0_CH40620



Band41 20MHz 16QAM RB100 0 CH41490

	ctrum Analyzer - Occupied BW						
Center Fr	RF 50 Ω DC req 2.680000000 NFE	Trig:	r Freq: 2.680000000 GHz Free Run Avg Hok n: 30 dB	d: 10/10	Radio Std		Frequency
10 dB/div	Ref Offset 14.83 d Ref 30.00 dBm	В					
20.0		1 mar mar mar mar mar and	propert Marine and Marine				Center Fre
10.0							
20.0 					low	and the same the	
0.0							
enter 2.6 Res BW			VBW 910 kHz			n 30 MHz ep 1 ms	CF Ste
	bied Bandwidth		Total Power	32.2	dBm		3.000000 MH <u>Auto</u> Ma
	17	.840 MHz					Freq Offs
	nit Freq Error	2.898 kHz	% of OBW Pow	ver 99	.00 %		01
x dB Ba	andwidth	19.10 MHz	x dB	-26.	00 dB		
10				STATUS			

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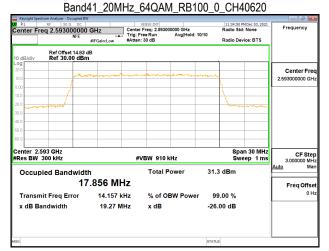
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Band41 20MHz 64QAM RB100 0 CH39750

Keysight Spec	trum Analyzer - Occupied BW RF 50 O DC								
	RF 50 Ω DC eq 2.506000000	GHz	Center Fr	ISE:INT eq: 2.50600			Radio Std	M Dec 03, 2021 : None	Frequency
	NFE	#IFGain:Low	#Atten: 3		Avg Hold: 1	0/10	Radio Dev	ice: BTS	
10 dB/div	Ref Offset 14.83 d Ref 30.00 dBm								
20.0		P			10 - 44-00-00				Center Freq
10.0	-	and the second s							2.506000000 GHz
-10.0							1		
-20.0	manul						1		
-30.0									
-40.0									
-50.0									
-60.0									
Center 2.5 #Res BW			#VB	W 910 k	Hz			n 30 MHz ep 1 ms	CF Step 3,000000 MHz
Occup	ied Bandwidt	h		Total P	ower	31.3	dBm		<u>Auto</u> Man
	17	.856 MH	١z						Freq Offset
Transm	nit Freq Error	10.005 k	Hz	% of OE	BW Power	99	.00 %		0 Hz
x dB Ba	andwidth	19.29 M	IHz	x dB		-26.	00 dB		
MSG						STATUS			



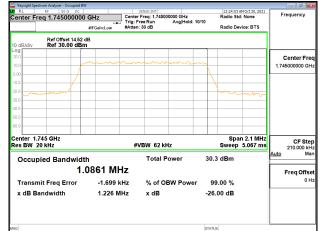
Band41 20MHz 64QAM RB100 0 CH41490

	trum Analyzer - Occupied BW						- 6 -
Center Fr	RF 50 Ω DC eq 2.680000000		SENSE:INT enter Freq: 2.68000		Rac	:35:43 PM Dec 03, 2021 lio Std: None	Frequency
	NFE	Land Tr	ig: Free Run .tten: 30 dB	Avg Hold:>1		lio Device: BTS	
10 dB/div	Ref Offset 14.83 c Ref 30.00 dBm						
20.0							Center Free
10.0		manunhin	- warden all and a state of the	and the second second	m		2.68000000 GH
0.00	- 1				- <u>\</u>		
10.0	/				1		
20.0	Charlow and the second s					The second s	
30.0							
-40.0							
-60.0							
Center 2.6 #Res BW			#VBW 910 k	Hz		Span 30 MHz Sweep 1 ms	CF Step 3.000000 MH
Occup	ied Bandwidt	h	Total P	ower	31.3 dB	m	<u>Auto</u> Mar
occup		831 MHz					Freq Offse
Transm	nit Freq Error	4.278 kHz	% of O	3W Power	99.00	%	он
x dB Ba	andwidth	19.28 MHz	x dB		-26.00 c	IB	
					lan in in		
ASG					STATUS		

Band66 1.4MHz QPSK RB6 0 CH131979

RL	ctrum Analyzer - Occupied 8V RF 50 Ω DC Ceq 1.710700000		Center Fr	NSE:INT req: 1.71070				25 AM Oct 20, 2021 Std: None		uency
		#IFGain:Low	#Atten: 3		Avg Hold:	10/10	Radio	Device: BTS		
dB/div	Ref Offset 14.52 (Ref 30.00 dBn									
10									Ce	nter Fre
.0		mm			m	m			1.7107	00000 G
0							<hr/>		<u> </u>	
.0							X			
0	mont						han	mon		
.0							_			
.0										
.0										
.0							_	_		
enter 1.7 sBW 2	711 GHz 20 kHz		#VE	3W 62 kH	iz			oan 2.1 MHz p 5.067 ms		CF Ste 10.000 k
Occup	oied Bandwidt 1	հ 0853 MH	17	Total P	ower	30).5 dBm		Auto	M
Transm	•• nit Freq Error	-1.797 k		% of O	3W Powe	r	99.00 %		"	eq Offs 0
	andwidth	1.221 M		x dB		-	6.00 dB			

Band66_1.4MHz_QPSK_RB6_0_CH132322



Band66 1.4MHz QPSK RB6 0 CH132665

RL RF 50 Ω DC enter Freq 1.779300000	Trig: I	sense:INT r Freq: 1.779300000 GHz Free Run Avg Hold:> n: 30 dB	Radio S 10/10	0 AM Oct 20, 2021 Std: None Device: BTS	Frequency
Ref Offset 14.52 D dB/div Ref 30.00 dBr					
0.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		~~		Center Fre 1.779300000 GH
0.0					
0.0			harmon	-	
0.0					
center 1.779 GHz			Sp	an 2.1 MHz	CF Ste
es BW 20 kHz	#	VBW 62 kHz	Swee	p 5.067 ms	210.000 kł Auto Ma
Occupied Bandwidt 1.	հ 0847 MHz	Total Power	30.3 dBm		Freq Offs
Transmit Freq Error	-1.910 kHz	% of OBW Power	99.00 %		01
x dB Bandwidth	1.222 MHz	x dB	-26.00 dB		

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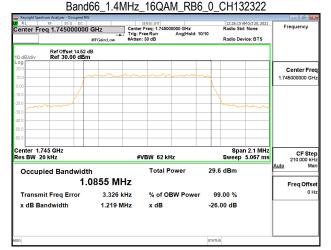
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Band66_1.4MHz_16QAM_RB6_0_CH131979

RL	RF 50 Ω DC q 1.710700000	CU-		(SE:INT) eq: 1.71070	0000 GHz			8 AM Oct 20, 2021	Frequency
enter Fre	-	#IFGain:Low	Trig: Free #Atten: 3	Run	Avg Hold:	10/10		levice: BTS	
0 dB/div	Ref Offset 14.52 d Ref 30.00 dBm								
0.0		~~~~~~	·~~~			~~			Center Fre 1.710700000 GH
						1			
1.0 1.0								n m	
1.0									
enter 1.71 es BW 20			#VE	SW 62 kH	Iz			an 2.1 MHz 5.067 ms	CF Ste 210.000 k
Occupi	ed Bandwidth 1.0) 840 MH	z	Total P	ower	29	9.7 dBm		Auto Mi
Transmi x dB Bar	it Freq Error ndwidth	2.578 kl 1.217 Mi		% of OE x dB	3W Powe		99.00 % 6.00 dB		0
G						STA	arus		



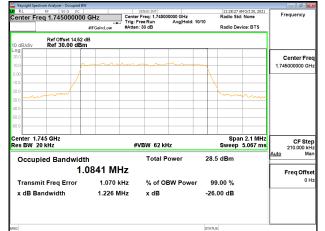
Band66 1.4MHz 16QAM RB6 0 CH132665

Keysight Spectrum Analyzer - Occupied BW						
X RL RF 50 Ω DC Center Freq 1.779300000	GHz	SENSE:INT Center Freq: 1.77930		Radio Sto	MOCt 20, 2021 1: None	Frequency
	#IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 10/1	0 Radio De	vice: BTS	
Ref Offset 14.52 c 10 dB/div Ref 30.00 dBm						
20.0	·····					Center Free
0.00						1.779300000 GH
10.0				λ		
20.0				m	mm	
40.0						
50.0						
50.0						
Center 1.779 GHz Res BW 20 kHz		#VBW 62 kH	łz		n 2.1 MHz 5.067 ms	CF Ste 210.000 kH
Occupied Bandwidt	h	Total P	ower	29.5 dBm		<u>Auto</u> Ma
1.0	0844 MH	z				Freq Offse
Transmit Freq Error	3.394 kl	Hz % of OI	BW Power	99.00 %		он
x dB Bandwidth	1.220 MI	Hz xdB		-26.00 dB		
sg				STATUS		

Band66 1.4MHz 64QAM RB6 0 CH131979

RL R Center Freq	50 Ω 1.710700		Hz	Center F	NSE:INT req: 1.71070				4 AM Oct 20, 2021 Std: None	Frequency
			FGain:Low ↔	#Atten: 3		Avg Hold:	10/10	Radio D	Device: BTS	
10 dB/div	Ref Offset 1 Ref 30.00									
20.0										Center Fre
10.0		~~		n	non		m		_	1.710700000 GH
0.00		/					h	× .		
0.0		·						1		
0.0	mm						_	Wind	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
0.0									_	
0.0							-			
enter 1.711 es BW 20 k	ter 1.711 GHz BW 20 kHz			#VI	3W 62 kH	łz			oan 2.1 MHz p 5.067 ms	CF Ste 210.000 ki
Occupie	d Bandv	vidth			Total P	ower	28	.6 dBm		Auto M
			338 MI	Hz						Freq Offs
Transmit	Freq Erro	or	366	Hz	% of O	BW Powe	r !	99.00 %		01
x dB Band	dwidth		1.228 N	1Hz	x dB		-2	6.00 dB		
G							STA	TUS		

Band66_1.4MHz_64QAM_RB6_0_CH132322



Band66 1.4MHz 64QAM RB6 0 CH132665

Keysight Spectrum Analy											00
RL RF Center Freq 1.7	50 Ω DC 79300000 G	GHz	Center Fi	NSE:INT reg: 1.77930				12:29:18 Radio St	AM Oct 20, 2021 d: None	Fr	equency
	*	IFGain:Low	#Atten: 3		Avg Hold	: 10/10		Radio De	vice: BTS		
0 dB/div Ref	Offset 14.52 dB 30.00 dBm										
.og 20.0											Center Fre
10.0	- p-		~~~~~	mm						1.77	9300000 GH
1.00							N				
20.0											
	and							min	m		
0.0											
0.0											
50.0		_									
enter 1.779 GHz es BW 20 kHz		#VE	3W 62 kł	łz				n 2.1 MHz 5.067 ms		CF Ste 210.000 ki	
Occupied B	Bandwidth			Total P	ower	;	28.4	dBm		Auto	M
		850 MH	Ηz								Freq Offs
Transmit Fre	q Error	490	Hz	% of O	BW Powe	ər	99	.00 %			01
x dB Bandwi	dth	1.226 M	IHz	x dB			26.	00 dB			
ig.						s	TATUS				

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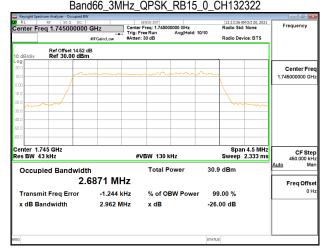
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Band66 3MHz QPSK RB15 0 CH131987

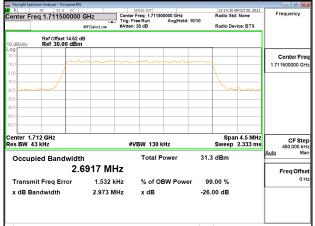
Center Freq	F 50 Ω 1.71150 Ref Offset Ref 30.00	0000 GH #IF 14.52 dB	Hz Gain:Low	Center F		00000 GHz Avg Hold	: 10/10	12:13:09 A Radio Std Radio Dev		Fr	equency
10 dB/div 20.0 10.0 10.0 10.0				~~~~~							
20.0				~~~~~							
10.0							~~~~				Center Fre 1500000 G⊦
10.0											
50.0 50.0											
	enter 1.712 GHz es BW 43 kHz				BW 130 H	(Hz			n 4.5 MHz 2.333 ms		CF Ste 450.000 kH
Occupie	d Band		76 MH	۰z	Total P	ower	30.9	dBm		<u>Auto</u>	Ma Freq Offso
Transmit x dB Bane		or	123 2.962 M		% of Ol x dB	BW Pow		.00 % 00 dB			0+
G							STATU	\$			



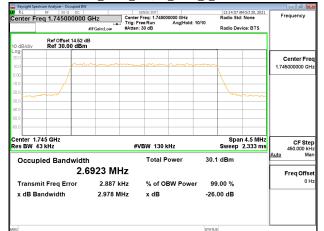
Band66 3MHz QPSK RB15 0 CH132657

	Analyzer - Occupied BW								C
Center Frea	50 Ω DC 1.778500000	GHz	Center F	NSE:INT req: 1.77850			12:14:04 Radio St	AM Oct 20, 2021 d: None	Frequency
		#IFGain:Low	#Atten: 3		Avg Hold	: 10/10	Radio De	vice: BTS	
10 dB/div	Ref Offset 14.52 d Ref 30.00 dBm								
20.0									Center Freq
10.0	- m		~~~~~~	m	m	m			1.778500000 GHz
0.00							\		
10.0									
20.0	~~~						- Low	mm	
30.0									
40.0									
50.0									
60.0									
	enter 1.779 GHz es BW 43 kHz		#VE	3W 130 k	Hz			n 4.5 MHz 2.333 ms	CF Step 450.000 kH
Occupie	d Bandwidt	n		Total P	ower	30.7	dBm		<u>Auto</u> Mar
		6857 MH	lz						Freq Offset
Transmit I	Freq Error	-715	Hz	% of O	SW Pow	er 99	.00 %		0 H:
x dB Band	width	2.957 M	Hz	x dB		-26.	00 dB		
sg						STATU			
<i>i</i>						STATUS	5		

Band66_3MHz_16QAM_RB15_0_CH131987



Band66_3MHz_16QAM_RB15_0_CH132322



Band66 3MHz 16QAM RB15 0 CH132657

RL RF 50 Ω DC Center Freq 1.778500000	GH7 Cente	SENSE:INT r Freq: 1.778500000 GHz		5:25 AM Oct 20, 2021 5 Std: None	Frequency
	ing:	Free Run Avg Hold: n:30 dB		Device: BTS	
Ref Offset 14.52 d 0 dB/div Ref 30.00 dBm	3				
og 0.0					Center Fr
0.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				1.778500000 G
1.00					
0.0					
0.0			L.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
0.0					
0.0					
50.0					
enter 1.779 GHz es BW 43 kHz		VBW 130 kHz		Span 4.5 MHz ep 2.333 ms	CF St 450.000 k
Occupied Bandwidth	1	Total Power	30.1 dBn	n	Auto M
	914 MHz				Freq Offs
Transmit Freq Error	1.768 kHz	% of OBW Powe	er 99.00 %	6	0
x dB Bandwidth	2.982 MHz	x dB	-26.00 di	3	
9			STATUS		

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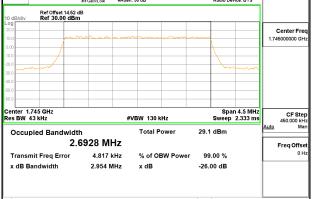
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Band66 3MHz 64QAM RB15 0 CH131987

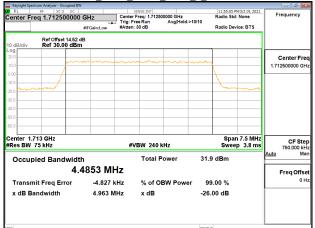
RL	ctrum Analyzer - Occupied BW RF 50 Ω DC			NSE:INT			12:16:17	M Oct 20, 2021	
	eq 1.711500000	GHz	Center Fr	req: 1.71150			Radio Sto		Frequency
					Avg Hold	:>10/10	De die De		
		#IFGain:Low	#Atten: 3	0 dB			Radio De	vice: BTS	
	Ref Offset 14.52 d	в							
) dB/div	Ref 30.00 dBm	-							
pg									
0.0									Center Fr
0.0		m	m	nom	~~~~				1.711500000 G
00							1		
0.0	/						1		
10							$\langle \rangle$		
in man	mond						m	mon	
0.0									
0.0									
0.0									
	712 GHz						Spa	n 4.5 MHz	CF St
es BW/4	3 kHz		#VE	3W 130 k	Hz		Sweep	2.333 ms	450,000
									Auto N
Occup	oied Bandwidth	1		Total P	ower	29.	2 dBm		
	2.6	6913 M	Hz						Freq Off
Transm	nit Freq Error	4.244	kHz	% of O	BW Pow	er 99	9.00 %		ľ
v dB B	andwidth	2.957	/Hz	x dB		-26	.00 dB		
× 40 0	anawiaan	2.007 1		A GD		-20			
3						STATU	s		
1									
	Rand	66 3M	H7 6/	1∩∆M	RR1	50	CH13	2222	
			112_04		_1\D1	5_0_	01110	2022	
	ctrum Analyzer - Occupied BW								
				NSE:INT				M Oct 20, 2021	Frequency
RL	RF 50 Ω DC	CU-7	Center F	reg: 1 74500					
RL		GHz	Trig: Fre		0000 GHz Avg Hold	: 10/10	Radio Sto		
RL	RF 50 Ω DC	GHz #IFGain:Low		e Run		: 10/10	Radio Sto		
RL	RF 50 Ω DC eq 1.745000000	#IFGain:Low	Trig: Fre	e Run		: 10/10			linguing
RL	RF 50 Ω DC	#IFGain:Low	Trig: Fre	e Run		: 10/10			- Toquency



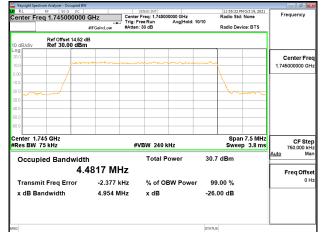
Band66 3MHz 64QAM RB15 0 CH132657

Keysight Spectrum Analyzer - Occupied Bi	N .			
X RL RF 50Ω DC Center Freq 1.778500000	GHz Cer	SENSE:INT ter Freq: 1.778500000 GHz	12:18:01 AM Oct 20, 202 Radio Std: None	Frequency
	- Ing	g:FreeRun Avg Hold: ten:30 dB	10/10 Radio Device: BTS	_
Ref Offset 14.52 10 dB/div Ref 30.00 dBr			_	
-og 20.0				Center Free
10.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			1.778500000 GH
0.00				
20.0				
30.0 mmmmW			hum	<u>×</u>
40.0				
50.0				-
60.0				
Center 1.779 GHz Res BW 43 kHz		#VBW 130 kHz	Span 4.5 MH Sweep 2.333 m	
Occupied Bandwidt	th	Total Power	29.0 dBm	Auto Ma
	6874 MHz			Freq Offse
Transmit Freq Error	2.756 kHz	% of OBW Powe	r 99.00 %	он
x dB Bandwidth	2.956 MHz	x dB	-26.00 dB	
sg			STATUS	

Band66_5MHz_QPSK_RB25_0_CH131997



Band66_5MHz_QPSK_RB25_0_CH132322



Band66 5MHz QPSK RB25 0 CH132647

RL RF 50 Q DC		sense:INT r Freq: 1.777500000 GHz Free Run AvgiHold	+ 10/10	Radio Sto	PM Oct 19, 2021 i: None	Frequency
		n: 30 dB	. 10/10	Radio De	vice: BTS	
Ref Offset 14.52 d Ref 30.00 dBm	в					
og 20.0						Center Fre
0.0	en and a second second	en and a second	- more a			1.777500000 G
0.00				λ.		
0.0				\mathbf{X}		
0.0				~~~		
0.0						
50.0						
0.0						
enter 1.778 GHz Res BW 75 kHz		VBW 240 kHz			n 7.5 MHz ep 3.8 ms	CF Ste 750.000 k
Occupied Bandwidth	ı	Total Power	30.6	dBm		Auto M
4.4	825 MHz					Freq Offs
Transmit Freq Error	-4.103 kHz	% of OBW Pow	er 99	.00 %		0
x dB Bandwidth	4.943 MHz	x dB	-26.	00 dB		
9			STATUS			

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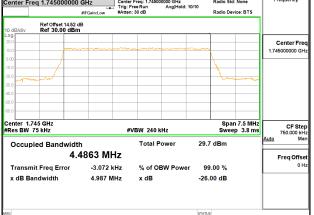
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Band66 5MHz 16QAM RB25 0 CH131997

RL		d BW							
	RF 50 Ω DC eq 1.7125000			ENSE:INT Freg: 1.71250	0000 GHz		11:56:27 P Radio Std	M Oct 19, 2021 : None	Frequency
ornol Fit	54 1.7 125000			ee Run	Avg Hold	:>10/10			
		#IFGain:Low	#Atten:	30 dB			Radio Dev	rice: BTS	
	Ref Offset 14.5								
0 dB/div oa	Ref 30.00 d	Bm							
0.0									Center Fr
1.0	, ,	manne	mon	mon		mono			1.712500000 G
	/						λ		
	/						\backslash		
							h		
							A CONTRACTOR	and a particular	
1.0									
10									
enter 1.7								n 7.5 MHz	CF St
Res BW	75 kHz		#V	BW 240 k	Hz		Swee	p 3.8 ms	750.000 k
0	ied Bandwi	dth		Total P	ower	29.5	dBm		<u>Auto</u> M
		um		Totall		20.0	abiii		
Occup									
Occup		4.4880 M	Hz						Freq Offs
				% of O	BW Pow	er 99	.00 %		
Transm	it Freq Error	-3.129	kHz		BW Pow				Freq Offs 0
Transm	4		kHz	% of OI x dB	BW Pow		0.00 % 00 dB		
Transm	it Freq Error	-3.129	kHz		BW Pow				
Transm	it Freq Error	-3.129	kHz		3W Pow				
Transm x dB Ba	it Freq Error	-3.129	kHz		3W Powe	-26.	00 dB		
Transm	it Freq Error	-3.129	kHz		3W Powe		00 dB		
Transm x dB Ba	it Freq Error Indwidth	-3.129 4.988 I	kHz MHz	x dB		-26.	00 dB	0200	
Transm x dB Ba	it Freq Error andwidth Bar	-3.129 4.988 I nd66_5M	kHz MHz	x dB		-26.	00 dB	2322	0
Transm x dB Ba	tit Freq Error Indwidth Bar Bar	-3.129 4.988 I	кнz мнz Hz_1	x dB		-26.	оо dв		0
Transm x dB Ba	it Freq Error andwidth Bar	-3.129 4.988 I	кнz мнz Hz_1	x dB 6QAM ERSE:INT Freq: 1.74500	_RB2	-26.	оо dв	M Oct 19, 2021	



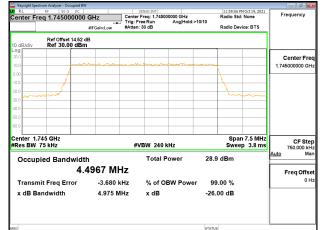
Band66 5MHz 16QAM RB25 0 CH132647

	m Analyzer - Occupied BV	v					@ <u> </u>	
	RF 50 Q DC		SENSE:INT ter Freq: 1.777500000 GHz		Radio Sto	M Oct 19, 2021 : None	Frequency	
		- Ing	:FreeRun Avg Ho xen:30 dB	ld: 10/10	Radio De	vice: BTS		
10 dB/div	Ref Offset 14.52 Ref 30.00 dBr							
20.0							Center Free	
0.0	- m		man management	han the second			1.777500000 GH	
.00	- /				<u>\</u>			
0.0								
0.0	and the				Tum	manon		
0.0								
0.0								
0.0								
0.0								
enter 1.77 Res BW 7			#VBW 240 kHz		Spa Swee	n 7.5 MHz ∕p 3.8 m s		
Occupie	ed Bandwidt	h	Total Power	29.7	7 dBm		<u>Auto</u> Ma	
	4.	4826 MHz					Freq Offse	
Transmit	Freq Error	-4.554 kHz	% of OBW Pov	wer 99	9.00 %		. 0+	
x dB Ban	dwidth	4.938 MHz	x dB	-26.	00 dB			
;				STATUS	s			

Band66 5MHz 64QAM RB25 0 CH131997

RL	rum Analyzer - Occupied BW RF 50 Ω DC	011- Can	SENSE:INT ter Freg: 1.712500000 GH	-	11:58:13 PM Oct Radio Std: No		Frequency
enter Fre	eq 1.712500000	Trig		lold: 10/10	Radio Device:		
I0 dB/div	Ref Offset 14.52 d Ref 30.00 dBm	в			_		
20.0		~~~~~	manna				Center Fre 1.712500000 GH
1.00	$\pm A$						
0.0 0.0 0.0					www.	M. w	
0.0							
enter 1.7 Res BW 7			#VBW 240 kHz		Span 7. Sweep 3		CF Ste 750.000 kl
Occupi	ied Bandwidth 4.4	1961 MHz	Total Power	29.	0 dBm	A	<u>to</u> Mi
Transm	it Freq Error	-5.116 kHz	% of OBW Po	ower 9	9.00 %		0 H
x dB Ba	ndwidth	4.957 MHz	x dB	-26	.00 dB		
				0747			

Band66_5MHz_64QAM_RB25_0_CH132322



Band66 5MHz 64QAM RB25 0 CH132647

	n Analyzer - Occupied BW						
	RF 50 Ω DC 1.777500000		SENSE:INT r Freq: 1.777500000 GHz		Radio St	PM Oct 19, 2021 d: None	Frequency
		ing: I	FreeRun Avg Ho n:30 dB	ld: 10/10	Radio De	vice: BTS	
	Ref Offset 14.52 d Ref 30.00 dBm						
og 0.0							Center Fr
10.0	m	monom	mmmmmm				1.777500000 G
.00	<u> </u>			_	<u>\</u>		
0.0					1		
0.0	mar				Jun	mono	
0.0							
0.0							
50.0							
enter 1.778 Res BW 75		#	VBW 240 kHz			n 7.5 MHz ep 3.8 ms	CF St 750.000 k
Occupie	d Bandwidt	ı	Total Power	29.	8 dBm		Auto M
	4.4	1968 MHz					Freq Offs
Transmit	Freq Error	-5.929 kHz	% of OBW Pov	wer 9	9.00 %		0
x dB Band	dwidth	4.951 MHz	x dB	-26	.00 dB		
G				STATE	IS		

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Band66 10MHz QPSK RB50 0 CH132022

RL	RF 50 Ω DC			SENSE:INT			11:45:18 P	M Oct 19, 2021	
enter Fr	eq 1.7150000			r Freq: 1.715	000000 GHz		Radio Std		Frequency
		#IFGain:Lo		Free Run h: 30 dB	Avg Hold:	10/10	Radio Dev	ice: BTS	
	Ref Offset 14.5	2 dB							
dB/div	Ref 30.00 dE						·		
0.0									Center Fr
0.0	~	mon	m	m	m	~~~~~~	-		1.715000000 G
.00							<u>N</u>		L
0.0							1		
0.0	~~~~						m	man	
0.0									
0.0									
0.0									
0.0				_					
enter 1.7	715 GH7						Sna	n 15 MHz	
es BW 1			#	VBW 510	kHz			ep 1 ms	CF St 1,500000 M
			MHz						
	nit Freq Error andwidth		08 kHz 42 MHz	% of (x dB	DBW Powe		9.00 % .00 dB		
x dB Ba			08 kHz		DBW Powe	-26	.00 dB		
x dB Ba	andwidth	9.74	08 kHz 42 MHz	x dB	K_RB50	-26	.00 dB	2322	
x dB Ba	andwidth Bar	9.74 nd66_1 ™	08 kHz 42 MHz	x dB		-26	.00 dB		0
x dB Ba	andwidth	9.74 1d66_1	008 kHz 42 MHz 0MHz Cente	x dB _QPS sense:int] ree Run		-26 start)_0_	.00 dB .8 CH132 11:45:45 P Radio Std	M Oct 19, 2021 : None	0
x dB Ba	andwidth Bar Itum Analyzer - Occopied IP S0 A OC eq 1.74500000 Ref Offset 14.5	9.74 1066_1 100 GHz #FGein:Lo 2 dB	008 kHz 42 MHz 0MHz Cente	x dB	K_RB50	-26 start)_0_	.00 dB	M Oct 19, 2021 : None	0
x dB Ba	Bar Bar Itium Analyzer - Occupied Br 50 0 DC eq 1.745000000	9.74 1066_1 100 GHz #FGein:Lo 2 dB	008 kHz 42 MHz 0MHz Cente	x dB _QPS sense:int] ree Run	K_RB50	-26 start)_0_	.00 dB .8 CH132 11:45:45 P Radio Std	M Oct 19, 2021 : None	Frequency
x dB Ba	andwidth Bar Itum Analyzer - Occopied IP S0 A OC eq 1.74500000 Ref Offset 14.5	9.74 1066_1 100 GHz #FGein:Lo 2 dB	008 kHz 42 MHz 0MHz Cente	x dB _QPS sense:int] ree Run	K_RB50	-26 start)_0_	.00 dB .8 CH132 11:45:45 P Radio Std	M Oct 19, 2021 : None	Frequency Center Fr
x dB Ba	andwidth Bar Itum Analyzer - Occopied IP S0 A OC eq 1.74500000 Ref Offset 14.5	9.74 1066_1 100 GHz #FGein:Lo 2 dB	008 kHz 42 MHz 0MHz Cente	x dB _QPS sense:int] ree Run	K_RB50	-26 start)_0_	.00 dB .8 CH132 11:45:45 P Radio Std	M Oct 19, 2021 : None	Frequency Center Fr
x dB Ba	andwidth Bar Itum Analyzer - Occopied IP S0 A OC eq 1.74500000 Ref Offset 14.5	9.74 1066_1 100 GHz #FGein:Lo 2 dB	008 kHz 42 MHz 0MHz Cente	x dB _QPS sense:int] ree Run	K_RB50	-26 start)_0_	.00 dB .8 CH132 11:45:45 P Radio Std	M Oct 19, 2021 : None	Freq Offs 0 Frequency Center Fr 1.74500000 G

Span 15 MH enter 1.745 GH CF Stej 1.500000 MH WBM 510 kHz Total Power 32.1 dBm Occupied Bandwidth 8.9743 MHz Freq Offs Transmit Freq Error -958 Hz % of OBW Power 99.00 % 01 x dB Bandwidth 9.768 MHz x dB -26.00 dB

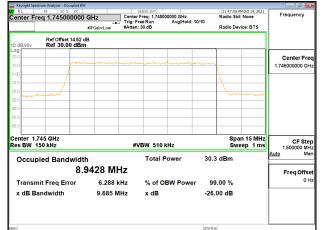
Band66 10MHz QPSK RB50 0 CH132622

	trum Analyzer - Occupied BW						@ <u></u>
enter Fre	RF 50 Ω DC eq 1.775000000	GHz Cente	r Freq: 1.775000000 GHz		Radio Sto	M Oct 19, 2021	Frequency
		Trig:	FreeRun Avg Hold: n:30 dB	: 10/10	Radio De	vice: BTS	
10 dB/div	Ref Offset 14.52 d Ref 30.00 dBm	в					
og							0
0.0		man	mannen				Center Fre 1.775000000 GH
	1				1		1.773000000 311
	1				1		
10	1				X		
1.0	amo				m	m	
10							
10							
enter 1.7 es BW 14		#	VBW 510 kHz		Spa Sw	eep 1 ms	CF Ste 1.500000 MH
Occup	ied Bandwidth	,	Total Power	30.8	dBm		<u>Auto</u> Ma
occup		620 MHz					
	0.3						Freq Offs
Transm	it Freq Error	6.216 kHz	% of OBW Powe	ər 99	.00 %		01
x dB Ba	ndwidth	9.739 MHz	x dB	-26.	00 dB		
3				STATUS			C

Band66_10MHz_16QAM_RB50_0_CH132022

enter Fr	eq 1.71500		HZ Gain:Low	Center F		0000 GHz Avg Hold:	>10/10	Radio Sto Radio De		Frequ	ency
0 dB/div	Ref Offset Ref 30.00										
10.0				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						Cent 1.715000	ter Fre
00								1	Contraction of the contraction		
0.0	_										
0.0											
enter 1. es BW 1				#VE	3W 510 H	Hz			an 15 MHz eep 1 ms	1.500	CF St 000 M
Occup	oied Band		40 MH	łz	Total P	ower	30.4	dBm		Auto Free	Mi q Offs
	nit Freq Err andwidth	or	3.919 k 9.731 M		% of OI x dB	BW Powe		.00 % 00 dB			01
	andwidth		0.131 W	112	A UD		-20.	00 08			

Band66_10MHz_16QAM_RB50_0_CH132322



Band66 10MHz 16QAM RB50 0 CH132622

Keysight Spectrum Analyzer - C							
RL RF 50 Center Freg 1.7750		Center Fr	(SE:INT eq: 1.775000000		Radio Sto	PM Oct 19, 2021 : None	Frequency
	#IFGain:Lo	w Trig: Free #Atten: 3		g Hold:>10/1		vice: BTS	
Ref Offse 0 dB/div Ref 30.	et 14.52 dB 00 dBm						
og							0
10.0	man	mm	man	mm	~		Center Fr 1.775000000 G
	1						1.775000000 3
0.0	{						
200							
a.a.					Jun	monorm	
0.0							
0.0							
50.0							
enter 1.775 GHz tes BW 150 kHz		#VE	W 510 kHz			an 15 MHz eep 1 ms	CF St 1.500000 M
Occupied Ban	dwidth		Total Pow	ər	30.2 dBm		<u>Auto</u> M
	8. 9 414	MHz					Freq Offs
Transmit Freq E	rror 6.8	46 kHz	% of OBW	Power	99.00 %		0
x dB Bandwidth	9.68	8 MHz	x dB		-26.00 dB		
10					STATUS		

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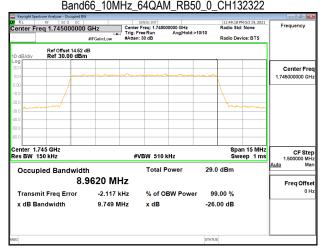
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Band66 10MHz 64QAM RB50 0 CH132022

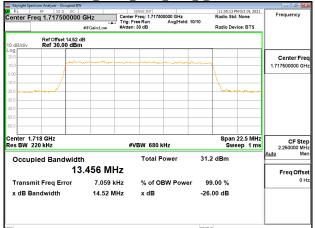
Center Fre	RF 50 Ω DC eq 1.715000000		SENSE:INT Freq: 1.715000000 GHz		11:48:26 F Radio Std	M Oct 19, 2021 : None	Frequency
			FreeRun Avg Hol n:30 dB	3: 10/10	Radio Dev	vice: BTS	
10 dB/div	Ref Offset 14.52 Ref 30.00 dBr						
20.0							Center Fre
0.00							1.715000000 GH
10.0	- /				N.		
20.0	mont				home	my	
30.0							
50.0							
60.0							
Center 1.7 Res BW 1		#	VBW 510 kHz			n 15 MHz eep 1 ms	CF Ste 1,500000 MH
Occup	ied Bandwidt	h	Total Power	29.	3 dBm		<u>Auto</u> Ma
		9485 MHz					Freg Offs
Transm	it Freq Error	-6.334 kHz	% of OBW Pow	er 9	9.00 %		0H
x dB Ba	ndwidth	9.792 MHz	x dB	-26	.00 dB		
ISG				STATU	JS		



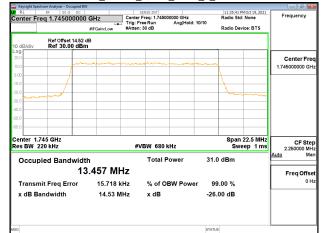
Band66 10MHz 64QAM RB50 0 CH132622

	trum Analyzer - Occupied BW	r			_	- 0 -
enter Fre	RF 50 Ω DC eq 1.775000000		SENSE:INT r Freq: 1.775000000 GHz	Radio St	PM Oct 19, 2021 d: None	Frequency
		Trig:	Free Run Avg Hold: n: 30 dB		evice: BTS	
0 dB/div	Ref Offset 14.52 o Ref 30.00 dBn					
0 g 20.0						Center Fre
0.0			······			1.775000000 GH
.00	- <u> </u>			<u>\</u>		
0.0				- IX-		
0.0	mont				And a second	
0.0						
0.0						
enter 1.7 es BW 1		#	VBW 510 kHz	Sp Sv	an 15 MHz veep 1 ms	CF Ste 1.500000 MH
Occup	ied Bandwidt	h	Total Power	29.0 dBm	6	<u>Auto</u> Ma
		 9543 MHz			ľ	FreqOffs
Transm	it Freq Error	-4.734 kHz	% of OBW Powe	r 99.00 %		0 H
x dB Ba	indwidth	9.712 MHz	x dB	-26.00 dB		
3				STATUS		

Band66 15MHz QPSK RB75 0 CH132047



Band66_15MHz_QPSK_RB75_0_CH132322



Band66 15MHz QPSK RB75 0 CH132597

	RF 50 Ω DC 1.772500000 C		SENSE:INT Freq: 1.7725000		40140	Radio Sto	PM Oct 19, 2021 i: None	Frequency
			Free Run n: 30 dB	Avg Hold:>	10/10	Radio De	vice: BTS	
0 dB/div	Ref Offset 14.52 dB Ref 30.00 dBm							
.og 20.0								Center Fr
10.0	mm	and the second s			hann			1.772500000 G
1.00	<u> </u>					\		
0.0	- 1					ι (
0.0	- and					hun	man	
0.0								
0.0								
50.0								
50.0								
Center 1.77 Res BW 220		#	≠VBW 680 kH	z			22.5 MHz eep 1 ms	CF St 2.250000 M
Occupie	ed Bandwidth		Total Po	wer	31.0	dBm		Auto M
		435 MHz						Freq Offs
Transmit	Freq Error	8.758 kHz	% of OBV	V Powe	r 99	.00 %		0
x dB Ban	dwidth	14.43 MHz	x dB		-26.	00 dB		
10					STATUS			-

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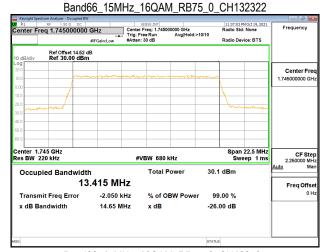
n Ltd.

Report No.: ER/2021/A0027-01 Page: 184 of 422



Band66 15MHz 16QAM RB75 0 CH132047

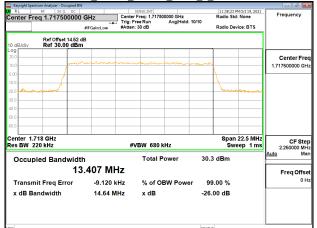
RL enter Fre	RF 50 Ω DC eq 1.717500000	GHz Cente	r Freq: 1.717500000 GHz	11:36:35 PM C Radio Std: N	
		Trig:	FreeRun Avg Hold: n:30 dB	10/10 Radio Device	BTS
0 dB/div	Ref Offset 14.52 o Ref 30.00 dBn				
20.0	mm	and the second			Center Fre 1.717500000 GH
0.0					
0.0	water			htopper	****
0.0					
enter 1.7 es BW 22		#	VBW 680 kHz	Span 22 Swee	p 1 ms 2.250000 MI
Occup	ied Bandwidt 13	^h 8.430 MHz	Total Power	30.2 dBm	Auto M Freq Offs
	it Freq Error Indwidth	-9.993 kHz 14.64 MHz	% of OBW Powe x dB	or 99.00 % -26.00 dB	01
3				STATUS	



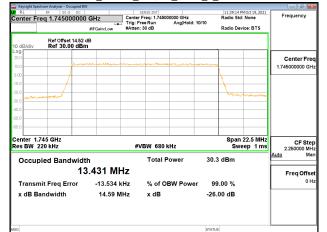
Band66 15MHz 16QAM RB75 0 CH132597

	trum Analyzer - Occupied BV	1				- 6 -
Center Fre	RF 50 Ω DC eq 1.772500000		SENSE:INT ar Freq: 1.772500000 GHz	Radio	30 PM Oct 19, 2021 Std: None	Frequency
		Trig:	Free Run Avg Hold: 1 n: 30 dB		Device: BTS	
10 dB/div	Ref Offset 14.52 (Ref 30.00 dBn					
20.0						Center Freq
0.00						1.772500000 GHz
-10.0						
-20.0	mont				mmmm	
-30.0						
-50.0						
-60.0						
Center 1.7 Res BW 2			≇VBW 680 kHz		an 22.5 MHz weep 1 ms	CF Step 2,250000 MHz
Occup	ied Bandwidt	h	Total Power	30.1 dBm		<u>Auto</u> Man
						Freq Offset
Transm	it Freq Error	-7.631 kHz	% of OBW Power	r 99.00 %		0 Hz
x dB Ba	Indwidth	14.65 MHz	x dB	-26.00 dB		
/SG				STATUS		

Band66_15MHz_64QAM_RB75_0_CH132047



Band66_15MHz_64QAM_RB75_0_CH132322



Band66 15MHz 64QAM RB75 0 CH132597

RL RF 50 Ω DC Center Freq 1.772500000	Trig:	sense:INT r Freq: 1.772500000 GHz Free Run Avg Hold: n: 30 dB	: 10/10	Radio Std Radio Dev		Frequency
Ref Offset 14.52 d 10 dB/div Ref 30.00 dBm						
-09 20.0 10.0	warmout a second second	- Aurona Marine				Center Fre 1.772500000 GH
0.00				1		
20.0 30.0				henn	- manaline	
50.0						
60.0						
Center 1.773 GHz Res BW 220 kHz	#	VBW 680 kHz			22.5 MHz eep 1 ms	CF Ste 2.250000 MI
Occupied Bandwidth	י .416 MHz	Total Power	29.2	dBm		Auto M
1 ئ Transmit Freq Error	-3.860 kHz	% of OBW Powe	ar 99	.00 %		Freq Offs 01
x dB Bandwidth	14.57 MHz	x dB		00 dB		
sg			STATUS			

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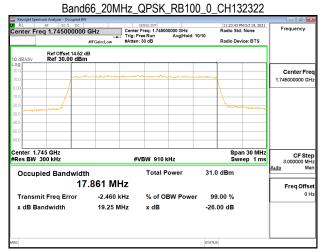
n Ltd.

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Band66 20MHz QPSK RB100 0 CH132072

	rum Analyzer - Occupied								- @ <u>*</u>
Center Fre	RF 50 Ω DC eq 1.72000000	00 GHz		NSE:INT req: 1.72000 e Rup	0000 GHz Avg Hold	10/10	11:23:16 F Radio Std	M Oct 19, 2021 : None	Frequency
		#IFGain:Low	#Atten: 3		, registera		Radio Dev	ice: BTS	
10 dB/div	Ref Offset 14.5 Ref 30.00 di								
20.0									Center Freq
10.0									1.72000000 GHz
.10.0									
-20.0	annorma						- allow	mannen	
-30.0									
-40.0									
-50.0									
-60.0									
Center 1.7 #Res BW			#VE	3W 910 k	Hz			n 30 MHz ep 1 ms	CF Step 3.000000 MHz
Occup	ied Bandwi	dth		Total P	ower	32.2	dBm		<u>Auto</u> Man
	1	7.87 9 N	Hz						Freq Offset
Transm	it Freq Error	-11.009	kHz	% of O	W Powe	ər 99	.00 %		0 Hz
x dB Ba	ndwidth	19.40	MHz	x dB		-26.	00 dB		
MSG						STATUS			
						aixioa			



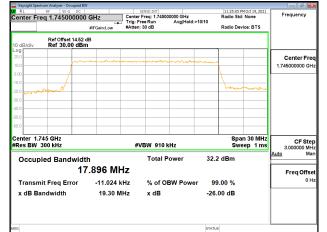
Band66 20MHz QPSK RB100 0 CH132572

	trum Analyzer - Occupied BW							- 6 <mark>-</mark>
RL Center Fre	RF 50 Ω DC eq 1.770000000		SENSE:INT nter Freq: 1.77000			11:24:11 P Radio Std	MOct 19, 2021 : None	Frequency
	•		g: Free Run tten: 30 dB	Avg Hold:		Radio Dev	ice: BTS	
10 dB/div	Ref Offset 14.52 c Ref 30.00 dBm							
20.0								Center Fred
10.0		·	- ner marker					1.770000000 GH
0.00						1		
0.0	- /-					1		
20.0	and the					mare	mon	
0.0								
0.0								
50.0								
enter 1.7 Res BW			#VBW 910	Hz			n 30 MHz ep 1 ms	CF Ste 3.000000 MH
Occup	ied Bandwidt	h	Total P	ower	30.9	dBm		<u>Auto</u> Ma
occup								Freg Offse
Transm	nit Freq Error	-2.866 kHz	% of O	BW Powe	or 99.	00 %		. он
x dB Ba	andwidth	19.28 MHz	x dB		-26.0	0 dB		
iG					STATUS			

Band66 20MHz 16QAM RB100 0 CH132072

	ctrum Analyzer - Occupied BV	r .							
RL Center Fr	RF 50 Ω DC	GH7	SENSE:INT Center Freg: 1.7200	00000 GHz		Std: None Frequency			
	64 1.72000000		Trig: Free Run	Avg Hold: 10					
		#IFGain:Low	#Atten: 30 dB		Radio E	evice: BTS			
0 dB/div	Ref Offset 14.52 (Ref 30.00 dBn								
og							0		
0.0		mangana	mannaman	manne			Center Fre		
							1.720000000 G		
.00	/								
0.0	/								
0.0	manne					moth want you			
0.0									
0.0									
0.0									
0.0									
enter 1.7	72 GH7				SI	oan 30 MHz			
Res BW			#VBW 910	kHz		weep 1ms	CF Ste 3.000000 M		
Occup	ied Bandwidt	h	Total F	Power	30.1 dBm		Auto M		
	17	.903 MH	z				Freq Offs		
Transm	nit Freq Error	-15.812 kH	lz % of O	BW Power	99.00 %		0		
x dB Ba	andwidth	19.35 MH	lz xdB		-26.00 dB				
					OTATI IP				

Band66_20MHz_16QAM_RB100_0_CH132322



Band66 20MHz 16QAM RB100 0 CH132572

	trum Analyzer - Occupied BW					
Center Fr	RF 50 Ω DC eq 1.770000000	Trig:	SENSE:INT r Freq: 1.770000000 GHz Free Run Avg Hold h: 30 dB	Ra : 10/10	dio Std: None	Frequency
0 dB/div	Ref Offset 14.52 d Ref 30.00 dBm	B		R3	dio Device. B 13	1
.0g 20.0 10.0	anna	roomenantaria		-		Center Fre
0.0	man					-
80.0					monder and the	<u>a</u>
0.0						_
enter 1.7 Res BW		#	VBW 910 kHz		Span 30 MH Sweep 1 m	
Occup	ied Bandwidtl		Total Power	31.6 di	Bm	Auto Ma
		.884 MHz				Freq Offs
	nit Freq Error	-3.215 kHz	% of OBW Pow	er 99.00	%	01
x dB Ba	andwidth	19.36 MHz	x dB	-26.00	dB	
sg				STATUS		

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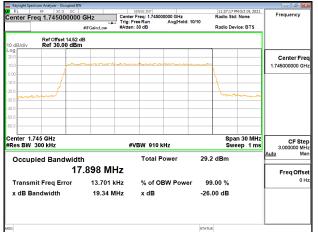
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Report No.: ER/2021/A0027-01 Page: 186 of 422



Band66 20MHz 64QAM RB100 0 CH132072

RL	ctrum Analyzer - Οco RF 50 Ω req 1.72000	DC	1-		NSE:INT reg: 1.72000	0000 GHz		11:26:25 Radio St	PM Oct 19, 2021	Frequency
enter Fr	eq 1.72000		12 Gain:Low	Trig: Fre #Atten: 3	eRun	Avg Hold	: 10/10		vice: BTS	Some Frequency Action Content of Content Frequency Content frequen
0 dB/div	Ref Offset Ref 30.0	14.52 dB	Gamicon							
			man	·····	.	ang Malayang	an a			
0.0	amproved									
0.0										
enter 1.3 Res BW				#VI	3W 910 k	Hz			an 30 MHz eep 1 ms	
Occup	oied Band		14 MH	17	Total P	ower	29.3	dBm		<u>Auto</u> M
	nit Freq Err andwidth	or	-8.203 k 19.39 M		% of OE x dB	BW Pow		0.00 % 00 dB		
	andwidth		18.58 M	112	Xub		-20.	00 00		
G							STATU	8		
	Ba	nd66	20MF	lz 64	1QAM	RB1	00 0	CH1	32322	



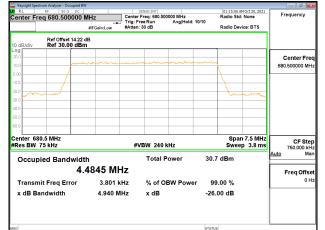
Band66 20MHz 64QAM RB100 0 CH132572

		enter Freq: 1.77000					Frequency
			Avg Hold:>	10/10	Radio De	vice: BTS	
							Center Free
	a man	- market and the second	s	m			1.770000000 GH:
1					1		
					1.		
mond					how	mon	
7 GHz 300 kHz		#VBW 910	Hz		Sp: Sw	an 30 MHz reep 1 ms	CF Step 3.000000 MH
ied Bandwidt	h	Total P	ower	29.1	dBm		<u>Auto</u> Mar
							Freq Offset
it Freq Error	3.206 kHz	% of O	BW Power	99	.00 %		0 H:
indwidth	19.31 MHz	x dB		-26.0	00 dB		
				STATUS			
	W 39.8 p. oc. sq 1.7700000000 Ref 000000000000000000000000000000000000	eq 1.770000000 GHZ #FGentow Ref official KS dia Ref 30.00 dBm 7 GHZ 300 kHz Ied Bandwidth 17.904 MHZ it Freq Error 3.206 kHZ	W 1990.0C SPREENT Sign 1.7700000000 GHz Center Free: 1.7000 Train Free Run #r Galan Low Train Free Run Train Free Run Ref 00.00 dBm Train Free Run Train Free Run Ref 30.00 dBm Train Free Run Train Free Run 7 GHz Strain Strain Run Strain Strain Run 7 GHz #VEW 910 H Image: Run Run 10 GHz #VEW 910 H Image: Run Run 11 Call P 17.904 MHz Total P 11 Freq Error 3.206 kHz % of OI	By 190 DC Stream ag 1.77000000000 GHz aff Cainchow Frig Free Run AvgiHold> Ref 070-0100000 GHz rig Free Run AvgiHold> Ref 070-0100000 GHz rig Free Run AvgiHold> Ref 070-0100000 GHz rig Free Run AvgiHold> Ref 070-0100000 GHz ag 1.77000000 GHz ag 1.77000000	W BOD DC L SeetExt Sig 1.770000000 GHz Getter Freq: 17:000000 GHz Avgi/Hold>1010 #FGalt.ow #fGalt.ow Avgi/Hold>1010 Ref 07:06s14.82 dB #FGalt.ow Avgi/Hold>1010 Ref 03:00 dBm Image: 14.82 dB Image: 14.82 dB 7 GHz #VBW 910 kHz Image: 14.82 dB 7 GHz #VBW 910 kHz Image: 14.82 dB 17:004 MHz Total Power 29.1 17:904 MHz It Freq Error 3.206 kHz % of OBW Power 99 Individth 19.31 MHz x dB -26.0	Provide the second seco	Product Product Product Product Intervention Fight Free Kun AuguNoids Radio Ski Nee Ref Officer 1452 dB Fight Free Kun AuguNoids Radio Ski Nee Ref 0100 dBm Fight Free Kun AuguNoids Radio Device: BTS Ref 0100 dBm Fight Free Kun AuguNoids Radio Device: BTS Ref 0100 dBm Fight Free Kun AuguNoids Radio Device: BTS Ref 0100 dBm Fight Free Kun Span 30 MHz Sweep 1 ms 7 GHz #VBW 910 kHz Span 30 MHz Sweep 1 ms 100 dBm Total Power 29.1 dBm 17.904 MHz 17.904 MHz X of OBW Power 99.00 % 18 tree Error 3.206 kHz % of OBW Power 99.00 % 19.31 MHz X dB -26.00 dB

Band71_5MHz_QPSK_RB25_0_CH133147

Keysight Spec	ctrum Analyzer - Occupied BW RF 50 Q DC		SENSE:INT			01:14:39	AM Oct 20, 2021	(
enter Fr	eq 665.500000 M	IHz Ce	nter Freq: 665.50 g: Free Run	0000 MHz AvgiHold:	40/40	Radio Sto		CF Ste 750.000 MH CCF Ste 750.000 MH Auto Ma Freq Offse 0 H	
			tten: 30 dB	Avginoid.	10/10	Radio De	vice: BTS		
10 dB/div	Ref Offset 14.22 c Ref 30.00 dBm								
20.0								Cen	iter Fre
10.0		man man	man man	m	- American				
0.00						\		L	
10.0	- /					1			
0.0	and the second s					har	mon		
0.0									
0.0									
50.0									
0.0									
Center 66 Res BW			#VBW 240	kHz			n 7.5 MHz ep 3.8 ms		
Occup	oied Bandwidt	h	Total F	Power	30.6	dBm		Auto	Ma
		4826 MHz						Fre	q Offs
Transm	nit Freq Error	10.102 kHz	% of O	BW Powe	er 99	.00 %			01
x dB Ba	andwidth	4.918 MHz	x dB		-26.	00 dB			
G					STATUS			<u></u>	

Band71_5MHz_QPSK_RB25_0_CH133297



Band71 5MHz QPSK RB25 0 CH133447

Center Freq 695.500000 MHz aff GainLow Center Freq 695.00000 MHz Attant: 30 dB Ref 00ref 1422 dB Center Freq 085.00000 MHz Ref 00ref 1422 dB Center Freq 085.0000 MHz Ref 00ref 1422 dB Ref 00ref 1422 dB Re		Analyzer - Occupied B	W					- 6 E
Center Fig. Free Run #Call.dow Trip: Free Run #Arten: 30 dB Argitelide: 1010 Radio Device: BTS 10 dB/d/w Ref 30.00 dBm Ref 0ffset 14.22 dB Ref 0ffset 14.22 dB Ref 0ffset 14.22 dB Ref 30.00 dBm Center F 10 dB/d/w Ref 30.00 dBm Ref 30.00 dBm Center F Free Run Ref 30.00 dBm Center F 10 dB/d/w Ref 30.00 dBm Ref 30.00 dBm Center F Span 7.5 MHz Center F 20 dBm Ref 30.00 dBm Ref 30.00 dBm Ref 30.00 dBm Center F Span 7.5 MHz 20 dBm Ref 30.00 dBm Total Power 30.6 dBm Sweep 3.8 ms Auto 20 dBm 4.4827 MHz Y of OBW Power 99.00 % K Freq Off C				SENSE:INT	0 MHz			Frequency
0 dB/d/ 0 dB/d/dA/dA/dA/dA/dA/dA/dA/dA/dA/dA/dA/dA/d	enter Freq	695.500000	Tri	g: Free Run				
Center 695.5 MHz Span 7.5 MHz Span 7.5 MHz Span 7.5 MHz Span 7.5 MHz Sweep 3.8 ms Auto Cocupied Bandwidth 4.4827 MHz Transmit Freq Error x dB Bandwidth 4.942 MHz x dB andwidth 4.942 MHz Transmit Freq Error 5.262 kHz Subscription Subscrip	0 dB/div					_		
Image: CF S Span 7.5 MHz Penter 695.5 MHz #VBW 240 kHz Span 7.5 MHz Sweep 3.8 ms Occupied Bandwidth Total Power 4.4827 MHz Transmit Freq Error 5.52 kHz % of OBW Power 99.00 % x dB Bandwidth 4.942 MHz								Center Fre
Comparing the second	0.0		and the second second second		- marine	~		695.500000 MH
Image: Constraint of the second se	1.00							
Image: Constraint of the state of								
as <								
Image: constraint of the second se						200	a Verran	
Image: Second								
Res BW 75 kHz #VBW 240 kHz Sweep 3.8 ms Occupied Bandwidth Total Power 30.6 dBm Auto 1 4.4827 MHz Total Power 30.6 dBm Freq Off Transmit Freq Error -5.262 kHz % of OBW Power 99.00 % 1 x dB Bandwidth 4.942 MHz x dB -26.00 dB 1								
Res BW 75 kHz #VBW 240 kHz Sweep 3.8 ms Auto 750.00 Occupied Bandwidth Total Power 30.6 dBm Auto 1 4.4827 MHz Transmit Freq Error -5.262 kHz % of OBW Power 99.00 % 7 x dB Bandwidth 4.942 MHz x dB -26.00 dB 0 0								
Occupied Bandwidth Total Power 30.6 dBm 4.4827 MHz Transmit Freq Error -5.262 kHz % of OBW Power 99.00 % x dB Bandwidth 4.942 MHz x dB -26.00 dB				#VBW 240 kH	z			CF Ste 750.000 ki
Transmit Freq Error -5.262 KHz % of OBW Power 99.00 % x dB Bandwidth 4.942 MHz x dB -26.00 dB	Occupied	d Bandwid	th	Total Por	wer 3	0.6 dBm		Auto M
x dB Bandwidth 4.942 MHz x dB -26.00 dB		4.	.4827 MHz					Freq Offs
	Transmit I	Freq Error	-5.262 kHz	% of OBV	V Power	99.00 %		0
se stans	x dB Band	width	4.942 MHz	x dB	-	26.00 dB		
ag status								
io status								
	iG.				51	ATUS		

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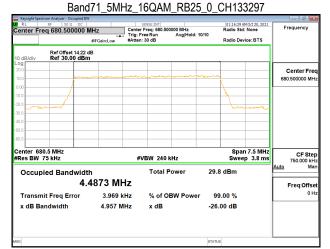
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Keysight Spec	trum Analyzer - Occupied BW RF 50 Ω DC		SENSE:INT	01-16-0	1 AM Oct 20, 2021	- 6 -
	eq 665.500000 M		r Freq: 665.500000 MHz	Radio S	td: None	Frequency
	•		FreeRun Avg Hold:1 n:30 dB		evice: BTS	
0 dB/div	Ref Offset 14.22 c Ref 30.00 dBm					
0g 20.0					[Center Fre
0.0	proceeding	mannon		m		665.500000 MH
.00	/			\	I	
0.0	- /			- \ <u>\</u>		
0.0	mand -				mon	
0.0						
0.0						
0.0						
0.0						
enter 66 Res BW		#	VBW 240 kHz		an 7.5 MHz ep 3.8 ms	CF Ste 750.000 kH
Occup	ied Bandwidt	h	Total Power	29.7 dBm	é	<u>Auto</u> Ma
	4.4	4847 MHz			Γ	Freq Offs
Transm	nit Freq Error	10.229 kHz	% of OBW Power	99.00 %		0 H
x dB Ba	andwidth	4.951 MHz	x dB	-26.00 dB	1	
G				STATUS		

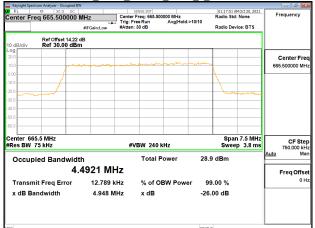
Band71 5MHz 160AM RB25 0 CH1331/7



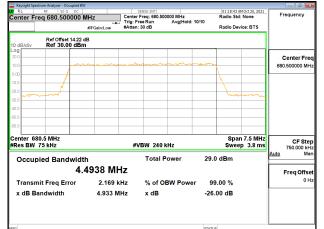
Band71 5MHz 16QAM RB25 0 CH133447

Keysight Spec	trum Analyzer - Occupied B	N						
	RF 50 Ω DC eq 695.500000		SENSE:INT nter Freq: 695.500			Radio St	AM Oct 20, 2021	CE Ster
		the Tri	g: Free Run tten: 30 dB	Avg Hold:	>10/10	Radio De	vice: BTS	
10 dB/div	Ref Offset 14.22 Ref 30.00 dBr							
20.0								Center Free
10.0		manner	mann		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
0.00						\		
10.0	- / -							
20.0								
30.0						- Andr	- market	
50.0								
60.0								
Center 69 Res BW			#VBW 240 k	Hz			n 7.5 MHz ep 3.8 ms	CF Ste 750.000 kH
Occup	ied Bandwid	th	Total P	ower	29.7	dBm		<u>Auto</u> Ma
	4.	4846 MHz						Freq Offse
Transm	nit Freq Error	-4.148 kHz	% of O	3W Powe	er 99	.00 %		0 H
x dB Ba	andwidth	4.957 MHz	x dB		-26.	00 dB		
ŝĢ					STATUS			

Band71_5MHz_64QAM_RB25_0_CH133147



Band71_5MHz_64QAM_RB25_0_CH133297



Band71 5MHz 64QAM RB25 0 CH133447

Keysight Spectrum Analyzer - Occupied BW						
RL RF 50 Ω DC Center Freq 695.500000 N	LH-7 Cente	SENSE:INT r Freg: 695.500000 MHz		01:19:35 A Radio Std	M Oct 20, 2021	Frequency
	Trig:		old: 10/10	Radio Device: BTS		
Ref Offset 14.22 d 0 dB/div Ref 30.00 dBm						
.0g						Center Fre
10.0	and man	mannen				695,500000 M
0.00				<u> </u>		
10.0				1		
20.0				$ \rangle$		
30.0				1 Low		
40.0						
50.0						
60.0						
Center 695.5 MHz #Res BW 75 kHz	#	VBW 240 kHz			n 7.5 MHz p 3.8 ms	CF Ste 750.000 k
Occupied Bandwidtl	h	Total Power	28.	9 dBm		Auto M
4.4	4961 MHz					Freq Offs
Transmit Freq Error	-8.946 kHz	% of OBW Po	wer 9	9.00 %		0
x dB Bandwidth	4.945 MHz	x dB	-26	.00 dB		
50			STATE			

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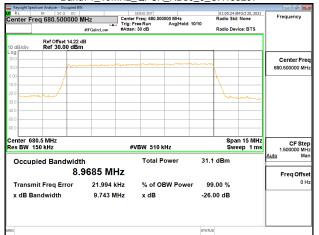
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Band71_10MHz_QPSK_RB50_0_CH133172

	trum Analyzer - Occup									
RL	RF 50 Ω eq 668.0000				NSE:INT reg: 668.000	000 MHz		12:59:57 Radio Sto	M Oct 20, 2021	Frequency
CILCI II	cq 000.0000			Trig: Fre	e Run	Avg Hold	: 10/10			BTS Frequency :BTS Center Freq 658.00000 MHz
		#IFGa	in:Low	#Atten: 3	0 dB			Radio De	vice: BTS	
	Ref Offset 14									
0 dB/div og	Ref 30.00	dBm								
0.0										Center Fre
0.0			~~~~	hanna		verm				
.00	/							γ		
0.0	/							1		
0.0								N.		
								~~~~		
0.0										
1.0										
enter 66 es BW 1				#\/E	3W 510 k	<b>U</b> -			an 15 MHz	
ES DVV	JU KHZ			#VC	SVV JIUN	.82		ow	eep mis	
Occup	ied Bandw	/idth			Total P	ower	31.1	dBm		Addo Mia
		8.943	9 MF	17						
Transm	nit Freq Erro	r 1	9.245 k	Hz	% of O	BW Pow	er 99	.00 %		
x dB Ba	andwidth	9	9.689 M	Hz	x dB		-26.	00 dB		
G							STATU	3		
	Ba	nd/1	10N	1Hz (	JPSK	_RB5	000	JH13	3297	



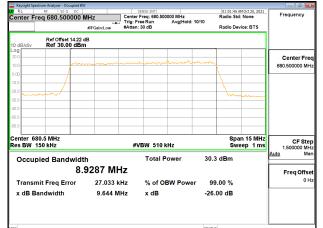
### Band71 10MHz QPSK RB50 0 CH133422

Keysight Spectrum Analy									@ <u></u>
RL RF Center Freq 693	50 Ω DC 3.000000 MH	z	Center F	NSE:INT req: 693.000			01:00:52 Radio St	AM Oct 20, 2021	Center Free 693.00000 MHz
		Gain:Low	#Atten: 3	e Run 0 dB	Avg Hold:	>10/10	Radio De	vice: BTS	
10 dB/div Ref	Offset 14.22 dB 30.00 dBm								
20.0									Center Free
10.0			~~~~~			m			693.000000 MH
0.00							۲.		
10.0	1						$\left  \right\rangle$		
20.0	1								
30.0							- we		
50.0									
60.0									
Center 693 MHz Res BW 150 kHz			#VE	3W 510 k	Hz			an 15 MHz eep 1 ms	CF Ste 1.500000 MH
Occupied E	andwidth			Total P	ower	30.9	dBm		<u>Auto</u> Ma
		539 MH	łz						Freq Offse
Transmit Fre	q Error	-3.670 k	Hz	% of O	BW Powe	er 99	.00 %		он
x dB Bandwi	dth	9.710 M	Hz	x dB		-26.	00 dB		
ISG						STATUS	3		L

#### Band71_10MHz_16QAM_RB50_0_CH133172

ctrum Analyzer - Occupied BW								
		Center Fr	eq: 668.000					Frequency
	#IFGain:Low	#Atten: 3	0 dB	Avg Hold:	10/10	Radio Dev	ice: BTS	
								Center Free
- par	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			mark				668.000000 MH
						\		
						1		
und -						hun	mon	
68 MHz 150 kHz		#VE	W 510 k	Hz				CF Ste 1.500000 MH
ied Bandwidt	h		Total P	ower	30.3	dBm		<u>Auto</u> Ma
8.9	9084 MH	lz						Freq Offse
nit Freq Error	28.816 k	Hz	% of O	3W Powe	r 99	.00 %		он
andwidth	9.611 M	Hz	x dB		-26.	00 dB		
	PF 190 0C eq 668.000000 M Ref 70.00 dBm 8 MHz 50 kHz bied Bandwidti 8.1 ki Freq Error	w         390         00           eq 668.00000 MHz         #FGalxLow           #FGalxLow         #FGalxLow           Ref 730.00 dBm	eq 668.00000 MHz aff Gain.Low Frie, Free Aff 30.00 dBm Ref 30.00 dBm 8 MHz 8 MHz 8 MHz 8 Oktiz #VE 10 KHz 10	W     19 0 0 C     SPREME       eq 668.000000 MHz     Center Free; 688.00       #FGalr.cow     Tag: Free Run       Ref 30.00 dBm     Tag: Free Run       8 MHz     #VEW 510 k       8 MHz     #VEW 510 k       16 dBandwidth     Total P       8.9084 MHz     % of Ol	eg 668.000000 MHz er Gelacitor Transformer Attention of the former Ref 30.00 dBm Ref 30.00 dBm 8 MHz 8	w     980     C     servection       ecg 666.000000 MHz     rgit Pree Run     AvgitIold: 1010       #FGainLow     #Facinit.ow     AvgitIold: 1010       Ref 30.00 dBm     #Facinit.ow     AvgitIold: 1010       8 MHz     #VEW 510 kHz       30 kHz     #VEW 510 kHz       ield Bandwidth     Total Power     30.3       8.9084 MHz     % of OBW Power     96	W         190         DC         Instrume         Instrume         Instrume         Instrume         Radio State         Rad	W     190     DC     191319400220201       eq 668.000000 MHz affGánLow     Frig: Fries Run Frig: Fries Run AvgiHold: 1010     Radio Device: BTS       Ref 30.00 dBm     Addis St. Noe       Ref 30.00 dBm     4000000000000000000000000000000000000

#### Band71_10MHz_16QAM_RB50_0_CH133297



#### Band71 10MHz 16QAM RB50 0 CH133422

Keysight Spectrum Analyze	50 Ω DC			NSE:INT			01:02:14 A	M Oct 20, 2021	
Center Freq 693.	.000000 MH	z	Center F Trig: Fre	req: 693.000	000 MHz AvgiHold:	~ 40/40	Radio Std	: None	Frequency
	#1	FGain:Low	#Atten: 3		Avginola.	.>10/10	Radio Dev	vice: BTS	
	ffset 14.22 dB 30.00 dBm								
og									Center Fre
10.0	man	m		money	mm	m			693.000000 M
1.00							N		030.000000 m
0.0							$\left  \right\rangle$		
20.0	/						$  \rangle$		
	/								
0.0								ar-altradit	
0.0									
20.0									
~~~									
enter 693 MHz tes BW 150 kHz			#VE	3W 510 k	Hz			n 15 MHz ep 1 ms	CF Ste 1.500000 M
									Auto M
Occupied Ba	andwidth			Total P	ower	30.2	2 dBm		
	8. 9 4	100 MH	lz						Freq Offs
Transmit Freq	Error	-1.389 k	Hz	% of O	3W Powe	ər 99	9.00 %		0
x dB Bandwid	th	9.659 M	Hz	x dB		-26	.00 dB		
10						STATU	-		

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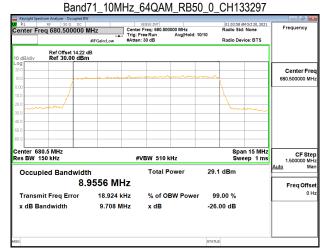
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Band71_10MHz_64QAM_RB50_0_CH133172

CXX RL	trum Analyzer - Occupied BW RF 50 Ω DC			NSE:INT				AM Oct 20, 2021	Frequency
Center Fre	eq 668.000000 I	ЛНz		req: 668.000	000 MHz Avg Hold:	10/10	Radio St	d: None	Frequency
		#IFGain:Low	#Atten: 3		Avginoid.	- 10/10	Radio De	vice: BTS	
10 dB/div	Ref Offset 14.22 o Ref 30.00 dBn								
20.0									Center Freq
10.0			~~~~~	m	mm	mand			668.000000 MHz
0.00							1		
-10.0	- /-						$\left \right\rangle$		
-20.0	ment						han	m	
-30.0									
-40.0									
-50.0									
-60.0									
Center 66 Res BW 1			#VE	3W 510 k	Hz			an 15 MHz eep 1 ms	CF Step 1.500000 MHz
Occup	ied Bandwidt	h		Total P	ower	29.	1 dBm		<u>Auto</u> Man
	8.	9174 MI	Ηz						Freq Offset
Transm	it Freq Error	23.606	KHz	% of O	3W Powe	r 9	9.00 %		0 Hz
x dB Ba	ndwidth	9.711 N	IHz	x dB		-26	.00 dB		
visg						STATU	IS		



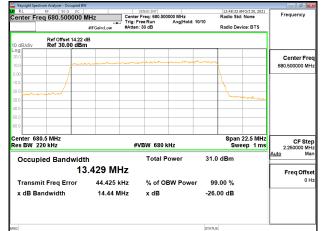
Band71 10MHz 64QAM RB50 0 CH133422

enter Freq 693.000000 MHz #FGedLow Ref 076st 14.22 dB 0 EBG/v Ref 30.00 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0	Keysight Spectrum An									- 8 -
Image: status Image: status Image: status Image: status Image: status 0 dBlain dBlain dBlain dBlain dBlain	RL RF	50 Ω DC 93.000000 M	ЛНz	Center Free	: 693.000		10/10			Frequency
Center Fi Center Fi Sauce on A Center Fi				#Atten: 30	B			Radio De	vice: BTS	
Center Fi Center Fi Social Control C	0 dB/div Re									
enter 693 MHz es BW 150 kHz Transmit Freq Error x dB Bandwidth 9.715 MHz x dB bandwidth 9.715 MH										Center Fre
Image: Constraint of the second se	1.0			m		manen				693.000000 MH
and a second se	00	_/						}		
anter 693 MHz ss BW 150 kHz span 15 MHz ss BW 150 kHz sweep 1 ms Aute M Source 693 MHz ss BW 150 kHz total Power 31.0 dBm 8.9621 MHz Transmit Freq Error -13.085 kHz % of OBW Power 99.00 % x dB Bandwidth 9.715 MHz x dB -26.00 dB								1		
Image: Second	1 th the second s	~~/						June	m	
Image: span 15 MHz #VBW 510 kHz Span 15 MHz BW 150 kHz #VBW 510 kHz Sweep 1 ms Span 15 MHz #VBW 510 kHz Sweep 1 ms Span 15 MHz #VBW 510 kHz Sweep 1 ms Substrained and width Total Power 31.0 dBm 8.9621 MHz Freq OF Transmit Freq Error 13.085 kHz % of OBW Power y dB Bandwidth 9.715 MHz x dB -26.00 dB Image: span 15 MHz										
nder 693 MHz Is BW 150 kHz Span 15 MHz Sweep 1 ms Soccupied Bandwidth Total Power 31.0 dBm 8.9621 MHz Transmit Freq Error -13.085 kHz % of OBW Power 99.00 % x dB Bandwidth 9.715 MHz x dB -26.00 dB										
es BW 150 kHz sweep 1 ms Occupied Bandwidth Total Power 31.0 dBm 8.9621 MHz Transmit Freq Error -13.085 kHz % of OBW Power 99.00 % x dB Bandwidth 9.715 MHz x dB -26.00 dB										
ss BW 150 kHz Sweep 1 ms 150 kHz Sweep 1 ms Occupied Bandwidth Total Power 31.0 dBm 8.9621 MHz Freq off Transmit Freq Error -13.085 kHz % of OBW Power 99.00 % 0 x dB Bandwidth 9.715 MHz x dB	optor 602 MH	-						- Pn/	on 16 Milia	
Occupied Bandwidth Total Power 31.0 dBm 8.9621 MHz Freq Off Transmit Freq Error -13.085 kHz % of OBW Power 99.00 % x dB Bandwidth 9.715 MHz x dB -26.00 dB				#VBV	V 510 k	Hz				CF Ste 1.500000 MH
8.9621 MHz Freq Off Transmit Freq Error -13.085 kHz % of OBW Power 99.00 % x dB Bandwidth 9.715 MHz x dB -26.00 dB	Occupied	Bandwidt	h	1	Total P	ower	31.0	dBm		<u>Auto</u> Ma
x dB Bandwidth 9.715 MHz x dB -26.00 dB				z						Freq Offse
	Transmit Fr	eq Error	-13.085 kl	۹z ا	6 of OE	BW Powe	er 99	.00 %		01
a stand	x dB Bandw	ridth	9.715 MI	iz >	dB		-26.	00 dB		
a										
etatus										
	3						STATUS			

Band71_15MHz_QPSK_RB75_0_CH133197

	rum Analyzer - Occupied BW								- 6 <u>-</u>
Center Fre	RF 50 Ω DC eq 670.500000 N	1Hz	Center F	NSE:INT req: 670.500 e Run	000 MHz Avg Hold:	10/10	12:48:05 Radio St	AM Oct 20, 2021 d: None	Frequency
		#IFGain:Low	#Atten: 3				Radio De	vice: BTS	
0 dB/div	Ref Offset 14.22 d Ref 30.00 dBm								
0 g									Center Fre
0.0	when	mannen	~~~~~~~	men	- mar	harrow			670.500000 MH
.00	- /						1		
0.0	- /						1		
0.0	mand						Low	man	
0.0									
0.0									
0.0									
0.0									
enter 670 es BW 22			#VE	BW 680 H	(Hz			22.5 MHz eep 1 ms	CF Ste 2.250000 MH
Occupi	ed Bandwidt	ı		Total P	ower	31.2	2 dBm		Auto Ma
		.384 M⊦	łz						Freq Offs
Transmi	it Freq Error	55.986 k	Hz	% of O	BW Powe	er 99	9.00 %		01
x dB Ba	ndwidth	14.42 M	Hz	x dB		-26.	00 dB		
						CTATIN.	0		

Band71 _15MHz_QPSK_RB75_0_CH133297



Band71 15MHz QPSK RB75 0 CH133397

Keysight Spectrum Analyzer - Occupied BW				
RL RF 50 Ω DC Center Freq 690.500000 M	Hz Cente	SENSE:INT Freq: 690.500000 MHz	12:49:00 AM C Radio Std: N	
	Trig:	FreeRun Avg Hold: n:30 dB	10/10 Radio Device	BTS
	in dameon			
Ref Offset 14.22 c 0 dB/div Ref 30.00 dBr				
.og				
20.0	manne	mannam		Center Fr
10.0				690.500000 M
0.00			N I	
200				
20.0			\.	
40.0			~	Construction of the second s
50.0				
60.0				
00.0				
Center 690.5 MHz Res BW 220 kHz		VBW 680 kHz	Span 22	L CF SU
Ces BW 220 KHZ	ĥ	FV DVV 080 KHZ	Swee	2.250000 M Auto M
Occupied Bandwidt	h	Total Power	31.0 dBm	Adio M
13	.425 MHz			FreqOffs
Transmit Freg Error	-3.248 kHz	% of OBW Powe	r 99.00 %	0
x dB Bandwidth	14.52 MHz	x dB	-26.00 dB	
SG			STATUS	

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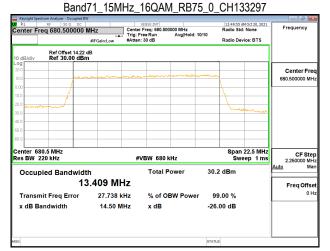
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Band71_15MHz_16QAM_RB75_0_CH133197

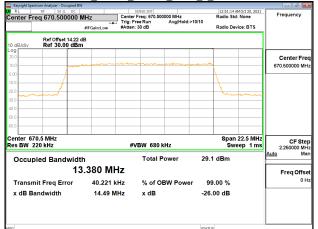
Keysight Spectrum Analyzer - Oc					
RL RF 50 Ω Center Freq 670.500		SENSE:INT Center Freq: 670.5		12:49:27 AM 0 Radio Std: N	
	⊶ #IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 10/	10 Radio Devic	e: BTS
Ref Offset 10 dB/div Ref 30.0				_	
20.0					Center Fre
10.0	manumenter			min	670.500000 MH
0.00					
10.0					
20.0 30.0				- An	Ampleon
40.0					
50.0					
60.0					
Center 670.5 MHz				Span 2	2.6 MHz
Res BW 220 kHz		#VBW 680	kHz		p 1 ms 2.250000 MH
Occupied Band	lwidth	Total	Power	30.3 dBm	Auto Ma
	13.377 M	Hz			Freq Offs
Transmit Freq Er	ror 33.039	kHz % of C	BW Power	99.00 %	01
x dB Bandwidth	14.50	MHz x dB		-26.00 dB	
SG				STATUS	



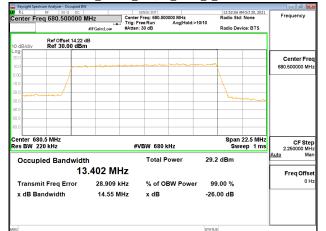
Band71 15MHz 16QAM RB75 0 CH133397

	rum Analyzer - Occupied B	w							@ <u></u>
enter Fre	RF 50 Ω DC	MHz	Center F	NSE:INT req: 690.500			12:50:22 Radio St	AM Oct 20, 2021 d: None	Frequency
		#IFGain:Low	#Atten: 3		Avg Hold	: 10/10	Radio De	evice: BTS	
10 dB/div	Ref Offset 14.22 Ref 30.00 dB								
20.0									Center Free
10.0		and a star and	maria	m	mm	m			690.500000 MH
0.00	1						1		
-10.0									
-20.0	man								
-40.0								the second second	
-50.0									
-60.0									
Center 690 Res BW 22			#VE	3W 680 k	Hz			122.5 MHz /eep 1ms	CF Step 2.250000 MH
Occupi	ied Bandwid	th		Total P	ower	30.1	l dBm		Auto Mar
		3.402 MI	Ηz						Freq Offse
Transm	it Freq Error	-13.335	Hz	% of O	BW Pow	er 99	9.00 %		он
x dB Ba	ndwidth	14.53 N	IHz	x dB		-26.	00 dB		
//SG						STATU	P		
300						STATUS	3		

Band71_15MHz_64QAM_RB75_0_CH133197



Band71_15MHz_64QAM_RB75_0_CH133297



Band71 15MHz 64QAM RB75 0 CH133397

RL RF 50Ω DC Center Freq 690.500000	Trig:	sense:INT r Freq: 690.500000 MHz Free Run Avg Hold: 10 n: 30 dB	12:52:58 AM Oct 20, 2021 Radio Std: None W10 Radio Device: BTS	Frequency
Ref Offset 14.2 10 dB/div Ref 30.00 dB				
20.0 10.0				Center Fre 690.500000 MH
0.00				
20.0 30.0				
50.0				
center 690.5 MHz tes BW 220 kHz	#	VBW 680 kHz	Span 22.5 MHz Sweep 1 ms	2.250000 MI
Occupied Bandwid	ith 3.398 MHz	Total Power	29.1 dBm	Auto Ma
Transmit Freq Error x dB Bandwidth	-12.249 kHz 14.54 MHz	% of OBW Power x dB	99.00 % -26.00 dB	01
sg			STATUS	L

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n Ltd.

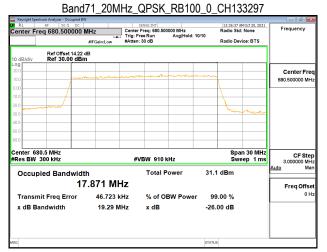
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Band71 20MHz QPSK RB100 0 CH133222

	trum Analyzer - Occupied BW	(- 6 -
Center Fre	RF 50 Ω DC eq 673.000000 I	VHz Cente	SENSE:INT Freq: 673.000000 MHz	12:36:10 AM Oc Radio Std: No	
	•		Free Run Avg Hold:1 n:30 dB	0/10 Radio Device:	BTS
10 dB/div	Ref Offset 14.22 o Ref 30.00 dBn				
20.0				1.001 mm	Center Freq
10.0	- m		And the second s		673.000000 MHz
-10.0				1	
-20.0					
-30.0	anne				- Marine
-40.0					
-50.0					
-60.0					
Center 67 #Res BW		#	VBW 910 kHz	Span 3 Sweep	
Occup	ied Bandwidt	h	Total Power	31.9 dBm	<u>Auto</u> Man
	17	.828 MHz			Freq Offset
Transm	it Freq Error	83.371 kHz	% of OBW Power	99.00 %	0 Hz
x dB Ba	indwidth	19.23 MHz	x dB	-26.00 dB	
MSG				STATUS	



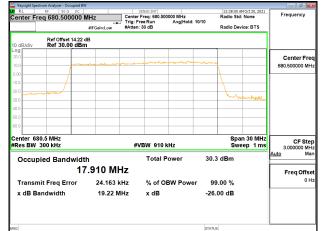
Band71 20MHz QPSK RB100 0 CH133372

Keysight Spec	trum Analyzer - Occupied BV	v							
	RF 50 Ω DC eq 688.000000 I	MHz	Center Fr	ISE:INT eq: 688.000			12:37:05 Radio St	AM Oct 20, 2021	Frequency
		#IFGain:Low	Trig: Free #Atten: 3		Avg Hold	: 10/10	Radio De	vice: BTS	
10 dB/div	Ref Offset 14.22 (Ref 30.00 dBn								
20.0									Center Fred
10.0	men	m		a starting	- Ander	mm			688.000000 MH:
0.00							<u> </u>		
10.0	- /						\mathbf{X}		
20.0	mm								
30.0							- <u></u>	· · · · · · · · · · · · · · · · · · ·	
-40.0									
-50.0									
-60.0									
Center 68 #Res BW			#VB	W 910 k	Hz		Sp: Sw	an 30 MHz eep 1 ms	CF Step 3.000000 MH
Occup	ied Bandwidt	'n		Total P	ower	31.0) dBm		<u>Auto</u> Mar
occup		7.838 MH	lz						Freq Offse
Transm	nit Freq Error	17.683 k	Hz	% of OE	W Powe	er 99	.00 %		0 H
x dB Ba	andwidth	19.23 M	Hz	x dB		-26.	00 dB		
ISG						STATUS	3		

Band71_20MHz_16QAM_RB100_0_CH133222

Keysight Spect	trum Analyzer - Occupied BW RF 50 Ω DC		SENSE:INT		12,27,22,41	4 Oct 20, 2021	- 0 -
	eq 673.000000 M		ter Freq: 673.0000		Radio Std:		Frequency
		Tria	: Free Run en: 30 dB	Avg Hold: 10/1	I0 Radio Dev	ice: BTS	
10 dB/div	Ref Offset 14.22 c Ref 30.00 dBm						
og 20.0							Center Fre
0.0		and the second second		mann	im		673.000000 MH
0.0					\		
0.0					-		
0.0						- marine and	
0.0							
0.0							
0.0							
enter 67: Res BW			#VBW 910 kł			n 30 MHz ep 1 ms	CF Ste
Res DW	300 KH2		#VEW 910 K	72	Swe	· ·	3.000000 Mi uto Mi
Occup	ied Bandwidt	h	Total Po	ower	30.2 dBm	P	<u>ato</u> 141
	17	.839 MHz				Г	Freq Offs
Transm	it Freq Error	65.374 kHz	% of OB	W Power	99.00 %		01
x dB Ba	ndwidth	19.23 MHz	x dB		-26.00 dB		
0					PTATI IP	L	

Band71_20MHz_16QAM_RB100_0_CH133297



Band71 20MHz 16QAM RB100 0 CH133372

Keysight Spectrum A	Inalyzer - Occupie	H BW							- @ -
RL RF	50 Ω DO		Center Trig: F	SENSE:INT Freq: 688.000 ree Run : 30 dB	0000 MHz Avg Hold:	10/10	Radio Std		Frequency
0 dB/div R	tef Offset 14.3 Ref 30.00 d								
0 g			a						Center Fr
.00									688.000000 M
0.0	-						\mathbf{X}		
0.0	unt						him	man	
0.0									
0.0									
enter 688 MI Res BW 300			#1	/BW 9101	(Hz			n 30 MHz eep 1 ms	CF Ste 3.000000 MI
Occupied	Bandwi	dth		Total P	ower	30.2	dBm		<u>Auto</u> M
		17.847 <mark> </mark>	MHz						Freq Offs
Transmit F	req Error	8.80	7 kHz	% of O	BW Powe	er 99	.00 %		0
x dB Bandy	width	19.2	3 MHz	x dB		-26.	00 dB		
10						STATU			

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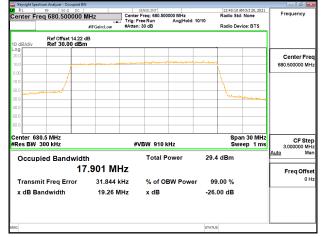
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Band71 20MHz 64QAM RB100 0 CH133222

RL RF 50 Ω DC Center Freq 673.000000 MH #		Trig:	r Freq: 673.000000 MHz Free Run Avg Hole 1: 30 dB	d: 10/10	Radio Std: No Radio Device:	ne F	requency
0 dB/div	Ref Offset 14.22 Ref 30.00 dBr						
og 20.0		a all a strand and a strand good of the strand st					Center Fred 3.000000 MH:
00					1		
0.0 0.0	munned				Luna	mu	
0.0							
0.0							
enter 67 Res BW	73 MHz 300 kHz	#	VBW 910 kHz		Span 3 Sweep	4	CF Stej 3.000000 MH
Occup	bied Bandwidt	th 7.883 MHz	Total Power	29.3	dBm	Auto	Ma
Transmit Freq Error 58.962 kHz			% of OBW Pow		.00 %		Freq Offse 0 H
x dB Ba	andwidth	19.33 MHz	x dB	-26.	00 dB		
1				STATU	2		

_20MHz <u>_64QAM_RB100_0</u> Band/1 CH13329



Band71 20MHz 64QAM RB100 0 CH133372

RL	trum Analyzer - Occupied B RF 50 Ω DC		SENSE:INT			12:41:03	AM Oct 20, 2021	- 2 -
enter Freq 688.000000 MH:			Center Freq: 688.000000 MHz			Radio Std: None		Frequency
#		#IFGain:Low	Trig: Free Run Avg Hold:>10/10 #Atten: 30 dB		10/10	Radio Device: BTS		
0 dB/div	Ref Offset 14.22 Ref 30.00 dB							
0.0								Center Fre
1.0	- Jon	- marine marine	and the second second					688.000000 MH
	- <u> </u>					\		
0.0	1					1		
0.0	mand							
0.0							and the second second	
1.0								
	nter 688 MHz es BW 300 kHz		#VBW 910	kHz			an 30 MHz reep 1 ms	CF Ste 3.000000 MH
Occup	ied Bandwid	th	Total F	ower	29.3	dBm		<u>Auto</u> Ma
		7.838 MH	z					Freq Offse
Transm	nit Freq Error	17.550 kl	lz % of O	BW Power	r 99	.00 %		01
x dB Ba	andwidth	19.24 MI	lz xdB		-26.	00 dB		
;					STATUS			

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OUT OF BAND EMISSION AT ANTENNA TERMINALS 9

9.1 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), §90.543(e)(3)

RSS-130 §4.7, RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.6, RSS-140 §4.4, RSS-195 §5.6, RSS-199 §4.5

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(a)

For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

- (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
 - (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;
 - (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;
 - (iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

FCC §27.53(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 followina:

(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;

FCC §27.53(a)

Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band 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.

- (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 $43 + 10 \log (P) dB$;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (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;

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ISED RSS-130 §4.7.1

Compliance for operations in the 617-652 MHz, 663-698 MHz, 698-756 MHz and the 777-787 MHz band, the unwanted emissions in any 100 kHz bandwidth on any frequency outside the low frequency edge and the high frequency edge of each frequency block range(s), shall be attenuated below the transmitter power, P (dBW), by at least 43 + 10 log10 p (watts), dB. However, in the 100 kHz band immediately outside of the equipment's frequency block range, a resolution bandwidth of 30 kHz may be employed.

ISED RSS-130 §4.7.2

In addition to the limit outlined in section 4.7.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions: the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least:

76 + 10 log10 p (watts), dB, for base and fixed equipment and 65 + 10 log10 p (watts), dB, for mobile and portable equipment

the e.i.r.p. in the band 1559-1610 MHz shall not exceed -70 dBW/MHz for wideband signal and -80 dBW for discrete emission with bandwidth less than 700 Hz.

ISED RSS-132 §5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

- i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p (watts).
- ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10 p (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

ISED RSS-133 §6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

- In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p(watts).
- ii. After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p(watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels.* Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10 log₁₀ (P) dB.

RSS-139 §6.6

In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote 2 which can contain the equipment's occupied bandwidth, the emission

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power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log10 p (watts) dB.

ISED RSS-140 §4.4

- a. For any frequency between 769-775 MHz and 799-806 MHz:
 - i. 76 + 10 log (p), dB in a 6.25 kHz band for fixed and base station equipment
 - ii. 65 + 10 log (p), dB in a 6.25 kHz band for mobile and portable/hand-held equipment
- b. For any frequency between 775-788 MHz, above 806 MHz, and below 758 MHz: 43 + 10 log (p), dB in a bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency bands 758-768 MHz and 788-798 MHz, a resolution bandwidth of 30 kHz may be employed.

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.

ISED RSS-195 §5.6

The power of any emission outside the frequency range(s) in which the equipment operates shall be attenuated below the transmitter power, P(dBW), by the amount indicated in Table 2, where p is the transmitter output power measured in watts.

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Frequency (MHz)	Attenuation (dB)	Frequency (MHz)	Attenuation (dB)			
<2200	43 + 10 log10(p)	2324 - 2328	61 + 10 log10(p)			
2200 - 2288	70 + 10 log10(p)	2328 - 2337	67 + 10 log10(p)			
2288 - 2292	67 + 10 log10(p)	2337 - 2341	61 + 10 log10(p)			
2292 - 2296	61 + 10 log10(p)	2341 - 2345	55 + 10 log10(p)			
2296 - 2300	55 + 10 log10(p)	2345 - 2360	43 + 10 log10(p) FootnoteNote			
2300 - 2305	43 + 10 log10(p)	2360 - 2365	43 + 10 log10(p)			
2305 - 2320	43 + 10 log10(p) FootnoteNote	2365 - 2395	70 + 10 log10(p)			
2320 - 2324	55 + 10 log10(p)	>2395	43 + 10 log10(p)			

and 2345-2350 MHz. In addition, mobile and portable equipment employing FDD technology shall be restricted to transmitting in the band 2305-2315 MHz.

RSS-199 §4.5

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least 43 + 10 log10 p for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

40 + 10 log10 p from the channel edges to 5 MHz away

43 + 10 log10 p between 5 MHz and X MHz from the channel edges, and

55 + 10 log10 p at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than 43 + 10 log10 p on all frequencies between 2490.5 MHz and 2496 MHz, and 55 + 10 log10 p at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

FCC §90.543 (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.

FCC §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 Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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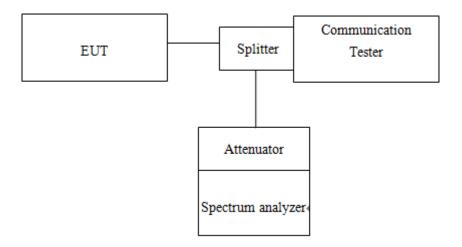


license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(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.

(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.

9.2 Test SET-UP



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9.3 **Measurement Procedure**

Conducted Emission 9.3.1

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.
- Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

9.3.2 **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.

Band Edge Measurement Result: 9.4

Refer to next pages.

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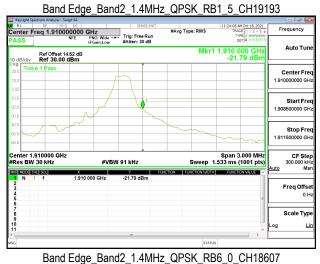
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Band Edge_Band2_1.4MHz_QPSK_RB1_0_CH18607

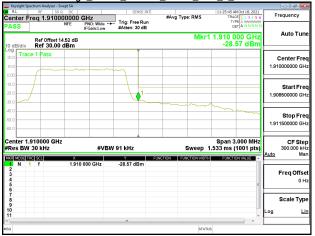








Band Edge_Band2_1.4MHz_QPSK_RB6_0_CH19193



Band Edge_Band2_3MHz_QPSK_RB1_0_CH18615



Band Edge Band2 3MHz QPSK RB1 14 CH19185



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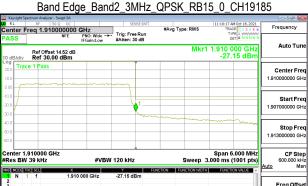
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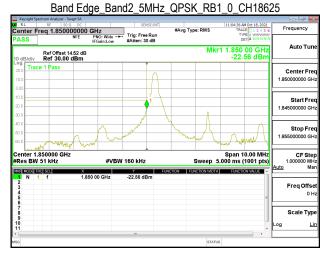
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Band Edge Band2 3MHz QPSK RB15 0 CH18615

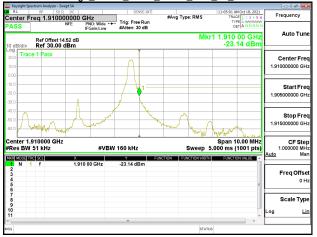
ysight Spectrum Analyzer - Swept SA				
ter Freg 1.85000000	GHz	#Avg Type: RMS	11:15:04 AM Oct 18, 2021 TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
SS NFE	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB		DETANNNN	Auto Tur
Ref Offset 14.52 dB B/div Ref 30.00 dBm		Mkr1	1.850 000 GHz -26.20 dBm	Auto Tur
Trace 1 Pass				Center Fre
				1.850000000 GI
	i			Start Fr 1.847000000 G
				Stop Fr
				1.853000000 G
ter 1.850000 GHz s BW 39 kHz	#VBW 120 kHz	0	Span 6.000 MHz .000 ms (1001 pts)	CF St 600,000 k
MODE TRC SCL X	Y	Sweep J	,	Auto M
N 1 f 1.85	i0 000 GHz -26.20 dBm			Freq Offs
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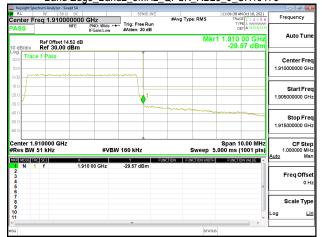
Band Edge_Band2_5MHz_QPSK_RB1_24_CH19175



Band Edge_Band2_5MHz_QPSK_RB25_0_CH18625



Band Edge Band2 5MHz QPSK RB25 0 CH19175



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