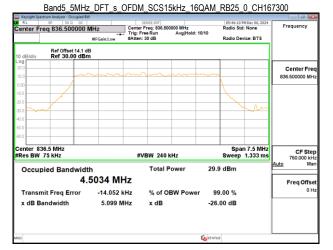
# Report No.: TERF2411003768ER Page: 45 of 394

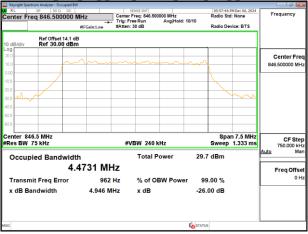


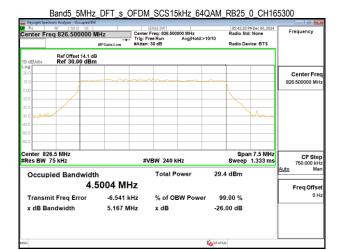
#### Band5 5MHz DFT s OFDM SCS15kHz 16QAM RB25 0 CH165300

	trum Analyzer - Occupied B	N							- 6 -
Center Fr	RF 50 Q DC eq 826.500000		SENSE:INT Center Freq: 826.50			05:42:00 F Radio Std	M Dec 06, 2024 : None	Freq	uency
			Trig: Free Run #Atten: 30 dB	Avg Hold: 10		Radio Dev	vice: BTS		
10 dB/div	Ref Offset 14.1 d Ref 30.00 dBr								
20.0									nter Freq
10.0	- m		· · · · · · · · · · · · · · · · · · ·		~~			826.5	00000 MHz
-10.0									
-20.0									
-30.0									
-40.0									
-50.0									
-60.0									
Center 82 #Res BW			#VBW 240	kHz			n 7.5 MHz 1.333 ms	7	CF Step 50.000 kHz
Occup	ied Bandwid	th	Total F	ower	30.1	dBm		Auto	Man
	4.	4985 MH	z					Fr	eq Offset
Transm	nit Freg Error	-13.600 kH	lz % of O	BW Power	99.	00 %			0 Hz
x dB Ba	andwidth	5.118 MH	z xdB		-26.0	0 dB			
MSG					STATUS				
1004					No anAllos				

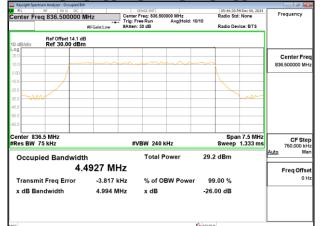


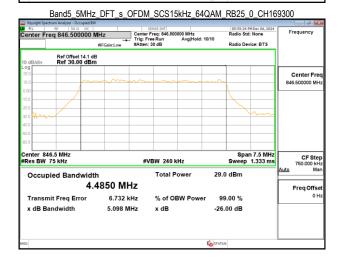






Band5\_5MHz\_DFT\_s\_OFDM\_SCS15kHz\_64QAM\_RB25\_0\_CH167300





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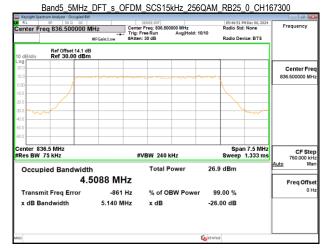
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# Report No.: TERF2411003768ER Page: 46 of 394



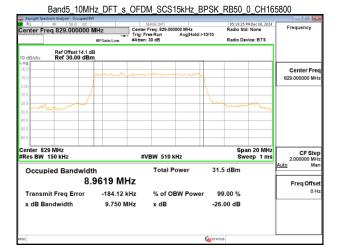
### Band5 5MHz DFT s OFDM SCS15kHz 256QAM RB25 0 CH165300

	trum Analyzer - Occupied BV	v					
	RF 50 Q DC	MHz	SENSE:INT Center Freq: 826.50	0000 MHz	Radio Sto	MDec 06, 2024 : None	Frequency
pointor 11	04 020.0000000	#IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 10	10 Radio De	vice: BTS	
10 dB/div	Ref Offset 14.1 d Ref 30.00 dBr						
20.0							Center Freq
10.0	- h~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				826.500000 MHz
0.00							
-10.0							
-20.0							
-30.0	~					m	
-50.0							
-60.0							
Center 82 #Res BW			#VBW 240	kHz		n 7.5 MHz 1.333 ms	CF Step 750.000 kHz
Occup	ied Bandwidt	h	Total F	Power	27.6 dBm		<u>Auto</u> Man
	4.	5180 MH	z				Freq Offset
Transm	nit Freq Error	2.097 kl	Hz % of O	BW Power	99.00 %		0 Hz
x dB Ba	andwidth	5.213 MI	Hz xdB		-26.00 dB		
MSG					STATUS		

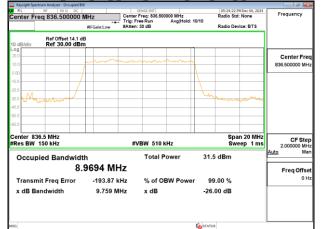




	ctrum Analyzer - Occupied BW						
RL	RF 50 Ω DC		SENSE:INT enter Freg: 846.50	0000 111-	05:50:56 Radio St	PM Dec 06, 2024	Frequency
Senter Fr	eq 846.500000 M	Tr	ig: Free Run	Avg Hold: 10		a: None	
		#IFGain:Low #A	tten: 30 dB		Radio De	evice: BTS	
10 dB/div	Ref Offset 14.1 dE Ref 30.00 dBm	3					
og	Ker Soloo ubn	·					
20.0							Center Fre
0.0			$\sim$		m		846.500000 MH
0.00							
0.0							
0.0					$\rightarrow$		
0.0					`	mon	
10.0							
0.0							
90.0							
enter 84 Res BW			#VBW 240	kHz		an 7.5 MHz 1.333 ms	CF Ste 750.000 kH
					•		Auto Ma
Occup	ied Bandwidt	h	Total	Power	27.2 dBm		
	4.4	4795 MHz					Freq Offse
Tranem	nit Freq Error	-9.678 kHz	% of C	BW Power	99.00 %		0+
				Dir Fower			
x dB Ba	andwidth	5.028 MHz	x dB		-26.00 dB		
a				1	STATUS		



Band5\_10MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB50\_0\_CH167300



RL	trum Analyzer - Occupied BW RF 50 Ω DC eq 844.000000 M	Trig	SENSE:INT Iter Freq: 844.000000 MHz J: Free Run Avg Hol ten: 30 dB	ld: 10/10	05:27:43 PM.Dec 06, 2024 Radio Std: None Radio Device: BTS	Frequency
0 dB/div	Ref Offset 14.1 dB Ref 25.00 dBm					
.0g 15.0 5.00 5.00		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Center Fre 844.000000 MH
15.0 15.0 15.0	m			\~~	home	
55.0 35.0						
enter 84 Res BW			#VBW 510 kHz		Span 20 MHz Sweep 1 ms	CF Ste 2.000000 MH
Occup	ied Bandwidth 8.9	303 MHz	Total Power	31.	9 dBm	Auto Ma Freq Offse
	iit Freq Error andwidth	-191.05 kHz 9.647 MHz	% of OBW Pov x dB		9.00 % .00 dB	0 F
a				<b>STAT</b>	us	

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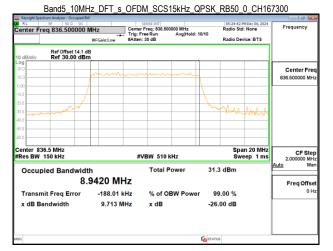
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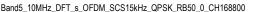
# Report No.: TERF2411003768ER Page: 47 of 394

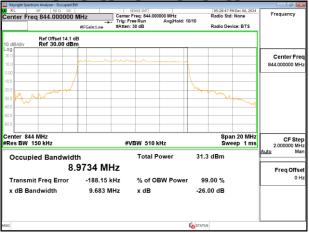


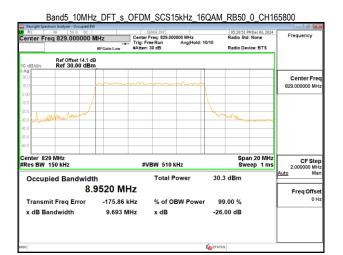
#### Band5 10MHz DFT s OFDM SCS15kHz QPSK RB50 0 CH165800

	rum Analyzer - Occupied I	W					
ON RL	RF 50 Q DC	MLIa	SENSE:INT Center Freg: 829	000000 MHz	05:20:31 Radio St	PM Dec 06, 2024	Frequency
Center Fre	ed 959.000000		Trig: Free Run	Avg Hold:>1	0/10		
		#IFGain:Low	#Atten: 30 dB		Radio De	vice: BTS	
10 dB/div	Ref Offset 14.1 Ref 30.00 dB						
20.0							Center Freq
10.0		mm	mm	mm			829.000000 MHz
0.00							
-10.0		/					
-20.0							
30.0 40	Mallamen				mon	m. M. M.	
-40.0	~					CANEL A.A. 14	
-50.0							
-60.0							
-05.0							
Center 829 #Res BW			#VBW 51	0 kHz		an 20 MHz eep 1 ms	CF Step 2.000000 MHz
Occup	ied Bandwid	th	Tota	I Power	31.2 dBm		<u>Auto</u> Man
	8	.9653 MI	Hz				Freq Offset
Transm	it Freq Error	-201.21	kHz %of	OBW Power	99.00 %		0 Hz
x dB Ba	ndwidth	9.797 N	MHz xdB		-26.00 dB		
MSG				1	STATUS		

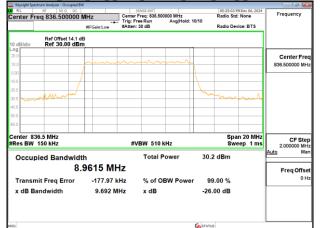


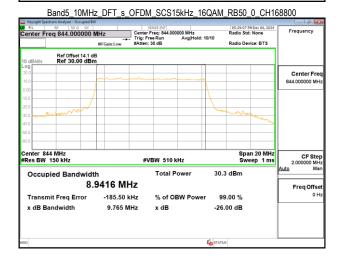






Band5\_10MHz\_DFT\_s\_OFDM\_SCS15kHz\_16QAM\_RB50\_0\_CH167300





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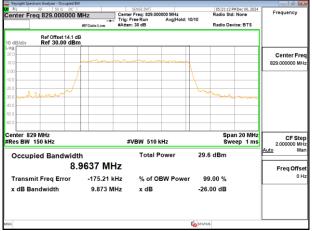
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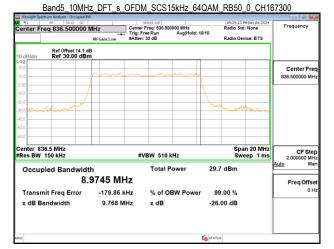
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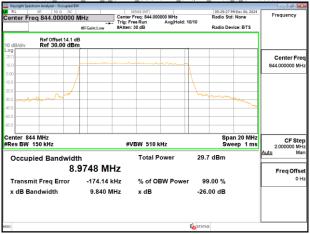


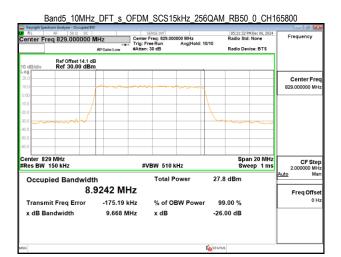
### Band5 10MHz DFT s OFDM SCS15kHz 64QAM RB50 0 CH165800



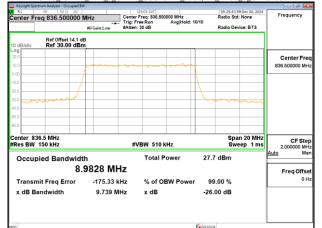








Band5\_10MHz\_DFT\_s\_OFDM\_SCS15kHz\_256QAM\_RB50\_0\_CH167300



enter Fr	req 844.000000 I	MFGain:Low	SENSE:INT Center Freq: 844.00 Trig: Free Run #Atten: 30 dB	0000 MHz Avg Hold: 10/10	05:29:48 PMDec Radio Std: Non Radio Device: E	e Frequency
) dB/div	Ref Offset 14.1 di Ref 30.00 dBn					
0.0 0.0			~~~~~			Center Fre 844.000000 MH
0.0						
0.0 <mark>-J</mark>	mandul				mannen	an may
enter 84	L4 MH7				Span 20	MH2
	150 kHz		#VBW 510	kHz	Sweep	1 ms 2.000000 MH
Occup	bied Bandwidt 8.	հ 9407 MH	Total F	Power	28.0 dBm	Auto Ma
	nit Freq Error andwidth	-197.76 ki 9.686 Mi		BW Power	99.00 % -26.00 dB	0 H

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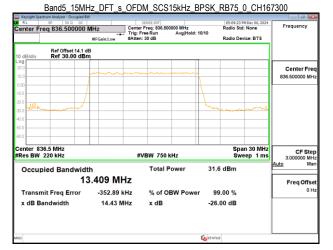
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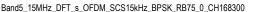
# Report No.: TERF2411003768ER Page: 49 of 394

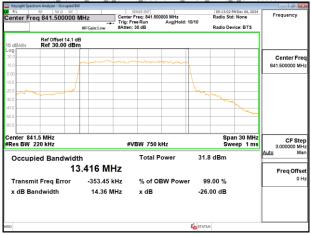


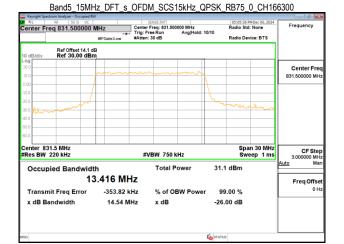
#### Band5 15MHz DFT s OFDM SCS15kHz BPSK RB75 0 CH166300

	m Analyzer - Occupied BV	v			_		
Center Free	RF 50 Ω DC <b>q 831.500000</b> Ι		Center Freq: 83 Trig: Free Run	1.500000 MHz	Ra 10/10	5:04:35 PM Dec 06, 2024 idio Std: None	Frequency
10 dB/div	Ref Offset 14.1 d Ref 30.00 dBn		#Atten: 30 dB		Ra	idio Device: BTS	
20.0 10.0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				Center Freq 831.500000 MHz
-10.0					han		
-40.0							
Center 831. #Res BW 2			#VBW 7	'50 kHz		Span 30 MHz Sweep 1 ms	CF Step 3.000000 MHz
Occupio	ed Bandwidt 13	հ 3.421 MH		al Power	31.7 dl	Bm	Auto Man Freq Offset
Transmit x dB Bar	t Freq Error ndwidth	-361.01 k 14.44 M		of OBW Powe	er 99.00 -26.00		0 Hz
MSG					<b>K</b> STATUS		

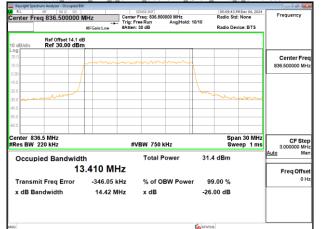


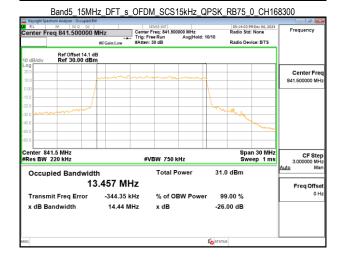






Band5\_15MHz\_DFT\_s\_OFDM\_SCS15kHz\_QPSK\_RB75\_0\_CH167300





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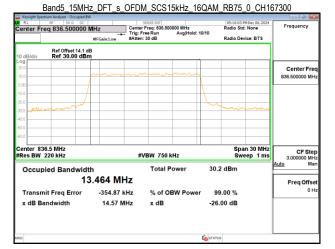
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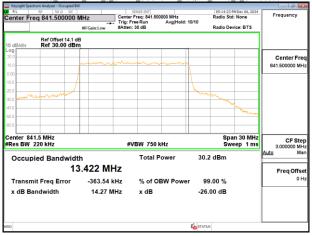


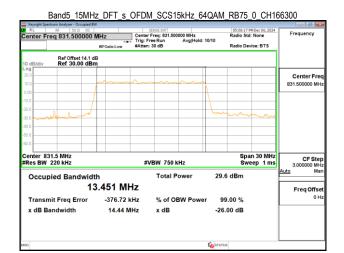
### Band5 15MHz DFT s OFDM SCS15kHz 16QAM RB75 0 CH166300

	nalyzer - Occupied BW								
Center Freq 8	50 Q DC	lla.	SENSE Center Fred		000 MHz		05:05:56 Radio Std	MDec 06, 2024	Frequency
Center Freq a	51.500000 W			tun	Avg Hold:	10/10			
		#IFGain:Low	#Atten: 30 d	18			Radio De	vice: BTS	
10 dB/div	tef Offset 14.1 dB tef 30.00 dBm								
20.0									Center Freq
10.0		m	mm	~~~~	m				831.500000 MHz
0.00									L
-10.0						1			
-20.0	1 Int					hm			
-30.0 mm	han						- www.	men	
-40.0									
-50.0									
-60.0									
Center 831.5 #Res BW 220			#VBV	7501	(Hz			an 30 MHz eep 1 ms	CF Step 3.000000 MHz
Occupied	Bandwidth	า	1	fotal P	ower	30.3	dBm		<u>Auto</u> Man
	13	.358 MH	z						Freq Offset
Transmit F	req Error	-369.42 k	Hz %	6 of O	BW Powe	r 99	.00 %		0 Hz
x dB Bandy	width	14.40 M	Hz x	dB		-26.	00 dB		
MSG						<b>STATUS</b>	1		L

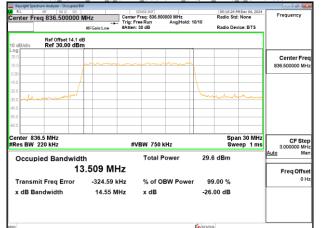


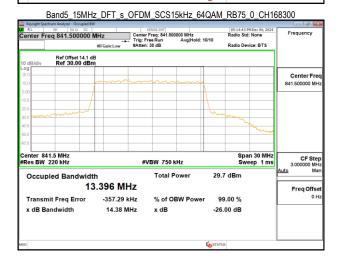






Band5\_15MHz\_DFT\_s\_OFDM\_SCS15kHz\_64QAM\_RB75\_0\_CH167300





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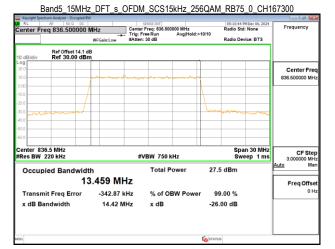
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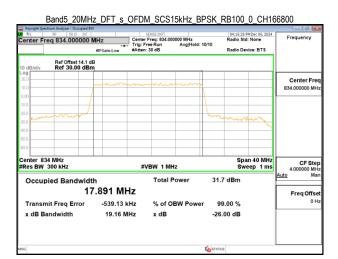
### Band5 15MHz DFT s OFDM SCS15kHz 256QAM RB75 0 CH166300

	trum Analyzer - Occupied Bi	N					×
Center Fre	RF 50 Ω DC eq 831.500000	MHz	Center Freq: 831.50 Trig: Free Run	0000 MHz Avg Hold: 10/10	05:06:37 PM De Radio Std: No		'
		#IFGain:Low	#Atten: 30 dB	Avginola, Torro	Radio Device:	BTS	
10 dB/div	Ref Offset 14.1 d Ref 30.00 dBr						
20.0						Center F	req
10.0				*****		831.500000	MHz
-10.0							
-20.0							
-30.0	manand				Martin Strand	nen l	
-40.0							
-60.0							
Center 83 #Res BW			#VBW 750	kHz	Span 3 Sweep		
Occup	ied Bandwidt	th	Total	Power	27.7 dBm	Auto	Man
	1:	3.446 MI	Ηz			Freq Of	fset
Transm	it Freq Error	-355.96	KHz % of C	BW Power	99.00 %		0 Hz
x dB Ba	andwidth	14.40 N	lHz xdB		-26.00 dB		
MSG				<b>K</b> 0	ITATUS		

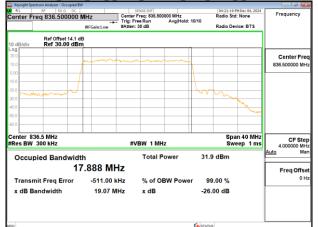


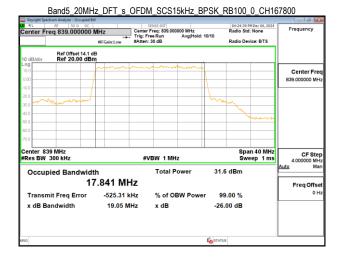


Keysight Spect	trum Analyzer - Occupied BW RF 50 Q DC	1	SENSE	-IMT			05-15-04 B	MDec 06, 2024	
	eq 841.500000 M	MHz	Center Freq	: 841.5000			Radio Std		Frequency
		#IFGain:Low	#Atten: 30 d	un B	Avg Hold:	10/10	Radio Dev	rice: BTS	
10 dB/div	Ref Offset 14.1 di Ref 30.00 dBm								
20.0									Center Freq
10.0		mon			m				841.500000 MHz
0.00									
-10.0						1			
-20.0						1.			
-30.0	- manager					- Magar	and have		
-40.0								mound	
-60.0									
Center 84 #Res BW			#VBW	750 k	Hz		Spa Swe	n 30 MHz ep 1 ms	CF Step 3.000000 MHz
Occup	ied Bandwidt	h	т	otal Po	ower	27.	6 dBm		<u>Auto</u> Man
	13	3.409 MH	lz						Freq Offset
Tranem	it Freq Error	-371.60 k		of OF	W Powe	r 0	9.00 %		0 Hz
	andwidth	14.41 M		dB			.00 dB		
хавыа	inawiath	14.41 M	HZ X	aв		-20	.00 08		
						-4			
MSG						<b>K</b> STATE	15		



Band5\_20MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB100\_0\_CH167300





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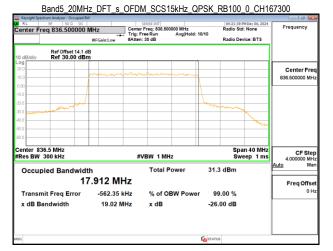
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# Report No.: TERF2411003768ER Page: 52 of 394

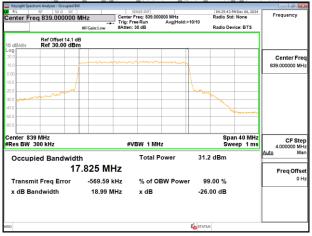


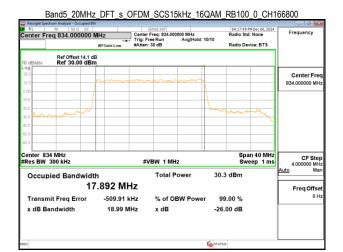
#### Band5 20MHz DFT s OFDM SCS15kHz QPSK RB100 0 CH166800

🔤 Keysight Spectrum Analyzer - Occupie				
Center Freq 834.00000	0 MHz Cent Trig	SENSE:INT ter Freq: 834.000000 MHz : Free Run Avg Hold: 10/1 en: 30 dB	04:17:29 PM Dec 06, 2024 Radio Std: None 0 Radio Device: BTS	Frequency
Ref Offset 14.1	I dB		Raulo Device. D 13	
20.0 10.0				Center Free 834.000000 MH:
10.0				
30.0 pellos Manuella 40.0			- frank	
-60.0				
Center 834 MHz #Res BW 300 kHz	:	#VBW 1 MHz	Span 40 MHz Sweep 1 ms	CF Ste 4.000000 MH
Occupied Bandwi	<sup>dth</sup> 17.923 MHz	Total Power	31.2 dBm	Auto Mar Freq Offse
Transmit Freq Error	-518.78 kHz	% of OBW Power	99.00 %	он
x dB Bandwidth	19.07 MHz	x dB	-26.00 dB	
15G		4	STATUS	

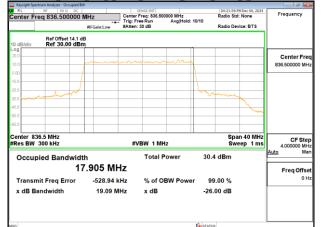


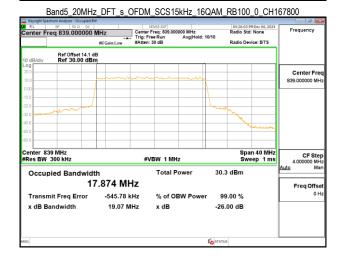






Band5\_20MHz\_DFT\_s\_OFDM\_SCS15kHz\_16QAM\_RB100\_0\_CH167300





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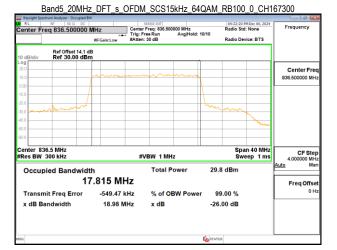
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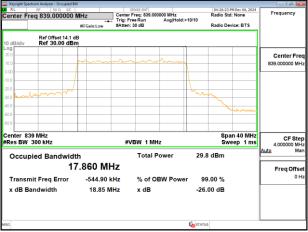


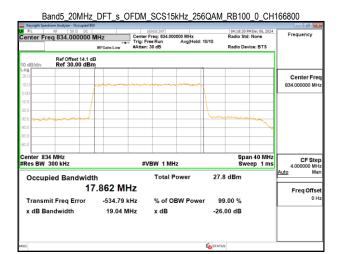
### Band5 20MHz DFT s OFDM SCS15kHz 64QAM RB100 0 CH166800

	trum Analyzer - Occupied Bi	N				
Center Fr	RF 50 Q DC eq 834.000000	MHz	Center Freq: 834.00 Trig: Free Run	0000 MHz Avg Hold: 10/10	04:18:09 PM Dec Radio Std: Nor	Frequency
	Ref Offset 14.1 d	#IFGain:Low	#Atten: 30 dB	-	Radio Device: E	BTS
10 dB/div Log 20.0 10.0 -10.0 -20.0	Ref 30.00 dBr	n	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Center Freq 834.000000 MHz
-30.0					Span 40	
#Res BW		th	#VBW 1 MH Total F		Span 40 Sweep 29.9 dBm	
	17 hit Freq Error andwidth	-523.94 k 19.00 M	Hz % of O	BW Power	99.00 % 26.00 dB	Freq Offset 0 Hz
MSG				100 s	TATUS	

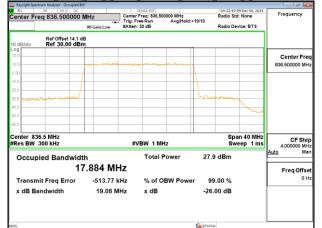


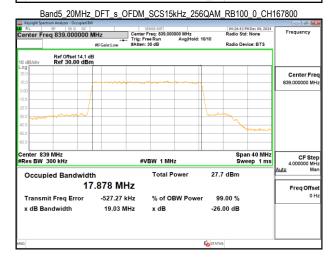






Band5\_20MHz\_DFT\_s\_OFDM\_SCS15kHz\_256QAM\_RB100\_0\_CH167300





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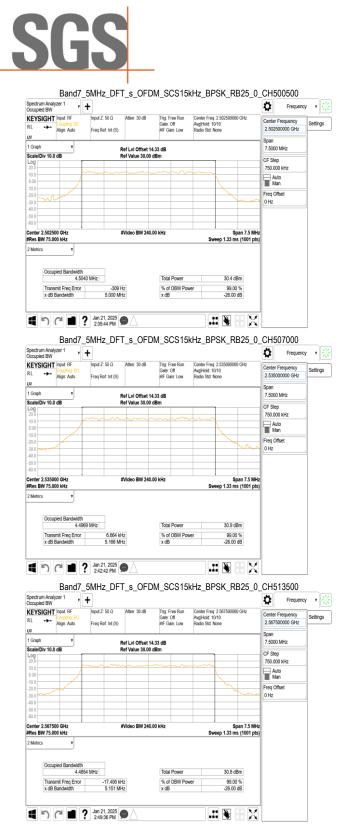
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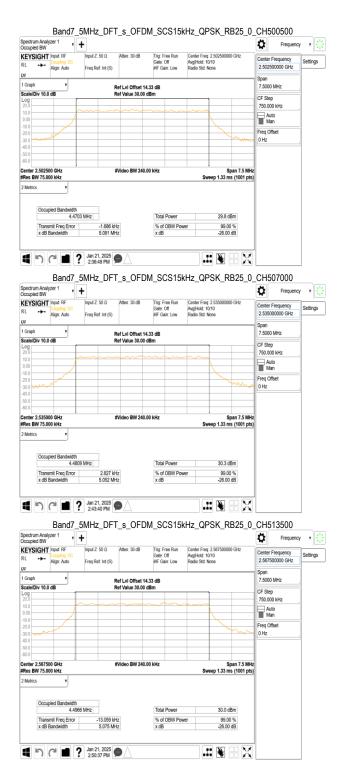
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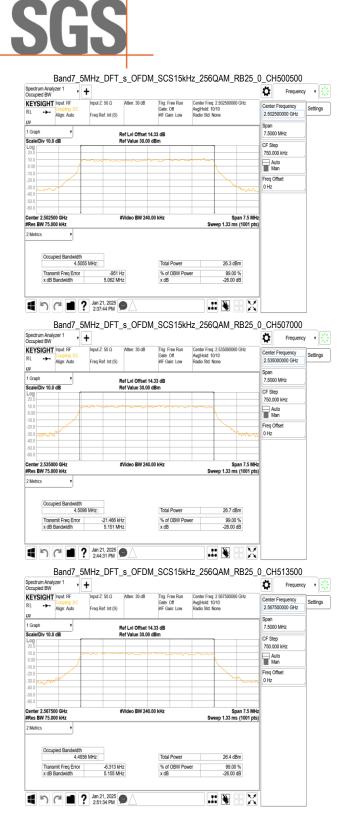
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Band7 10MHz DFT s OFDM SCS15kHz BPSK RB50 0 CH501000 Spectrum Analyzer 1 Frequency v **'** + Ö Trig: Free Run Gate: Off #IF Gain: Low Radio Std: None KEYSIGHT Input: RF nput Z: 50.0 Atten: 30 dB Center Fr Center Frequency 2.505000000 GHz Settings Align: Auto Freq Ref: Int (S) D0 1 Graph 20.000 MH Ref LvI Offset 14.33 dB Ref Value 30.00 dBm Scale/Div 10.0 dB CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz Center 2.50500 GHz #Res BW 150.00 kHz #Video BW 510.00 kHz Span 20 M ep 1.00 ms (1001 pts) Occupied Bandwidth 8.9564 MHz Total Power 30.6 dBm Transmit Freq Error x dB Bandwidth % of OBW Power x dB -185.17 kHz 9.661 MHz 99.00 % -26.00 dB 4 ら で ■ ? Jan 21, 2025 2:58:30 PM # N - X Band7\_10MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB50\_0\_CH507000 alyzer 1 Frequency • Ö · + Trig: Free Run Gate: Off #IF Gain: Low KEYSIGHT Input: RF Input Z: 50 Q Atten: 30 dB Center Freq: 2.535000000 GHz 2.53500000 GHz Settings Avg|Hold: 10/10 Radio Std: None Align: Auto • Freq Ref: Int (S) IJJ 1 Graph Ref Lvi Offset 14.33 dB Pof Value 30.00 dBm 20 000 MH Scale/Div 10 0 dB CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz Center 2.53500 GHz #Res BW 150.00 kHz #Video BW 510.00 kHz Span 20 M Sweep 1.00 ms (1001 pts) 2 Metrics Occupied Bandwidth 8.9337 MHz Total Power 31.5 dBm Transmit Freq Error x dB Bandwire % of OBW Power x dB -184.77 kHz 9.727 MHz 99.00 % -26.00 dB .# 😽 🗄 🗙 Band7\_10MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB50\_0\_CH513000 KEYSIGHT Input: RF Ö Frequency v Input Z: 50 Q Atten: 30 dB Trig: Free Run Gate: Off #IF Gain: Low Center Freg: 2 565000 Center Fre Settings Avg[Hold: 10/10 Radio Std: None 2.56500000 GH Align: Auto Freq Ref: Int (S) 1 Graph 20 000 MHz Ref Lvi Offset 14.33 dB Scale/Div 10.0 dB CF Step 2.000000 MHz Auto Man Freq Offset 0 Hz Center 2.56500 GHz #Res BW 150.00 kHz #Video BW 510.00 kH Span 20 M Sweep 1.00 ms (1001 pts) Occupied Bandwidth 8.9353 MHz Total Power 31.1 dBm Transmit Freq Error % of OBW Power x dB -177.42 kHz 9.526 MHz 99.00 % -26.00 dB Image: Application of the second .# 🖹 🗄 🗙

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