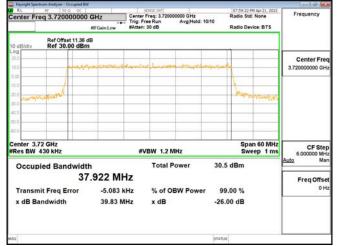


# Report No.: ER/2022/30084 Page: 157 of 366

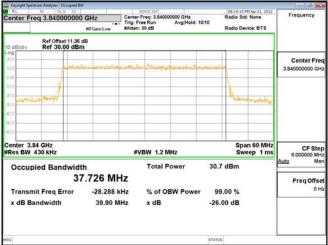
#### Band77-Part27 40MHz CP OFDM SCS30kHz QPSK RB106 0 CH664000

Center Fre	eq 3.96000	0000 G	Hz Gain:Low	Center Fre	SENSE:3NT Center Freq: 3.960000000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			Radio Sto	PM Apr 21, 2022 d: None vice: BTS	Frequency		
10 dB/div	Ref Offset Ref 30.00											
20.0 10.0	-	and a star	-	e.s.the.yligh	مطاميهمها	والإنتان المنارية	-	-		Center Free 3.960000000 GH		
10.0	min							Simo	tinge			
40.0												
0.0												
Center 3.9 #Res BW				#VE	#VBW 1.2 MHz				an 60 MHz eep 1 ms	CF Step 6.000000 MHz		
Occup	ied Band	width		45	Total P	ower	30.	4 dBm		<u>Auto</u> Man		
		37.9	919 MH	IZ						Freq Offset		
	it Freq Err	or	-28.251 k 39.62 M		% of OI x dB	BW Powe		9.00 % .00 dB		0 Hz		
45G							STAT	6				

#### Band77-Part27 40MHz CP OFDM SCS30kHz 16QAM RB106 0 CH648000

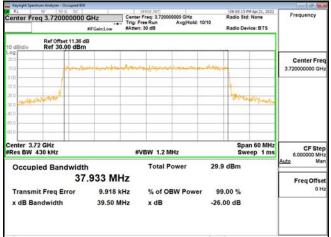


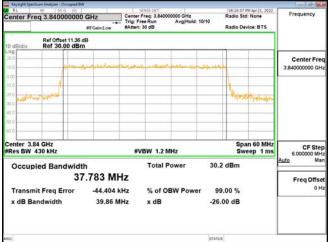
#### Band77-Part27 40MHz CP OFDM SCS30kHz 16QAM RB106 0 CH656000



Frequency		Radio Std Radio Dev									
							f Offset 11.36 dE f 30.00 dBm	D dB/div Re			
Center Fre 3.960000000 GH		-	ورحاليا فللربي	an and a state	the analy	and the second	man	0.0			
	emosciles	linster					A	0.00 0.0 0.0			
								0.0			
								0.0			
6.000000 MH	n 60 MHz ep 1 ms			MHz	#VBW 1.2			enter 3.96 GH Res BW 430 k			
Auto Ma		Total Power 30.4 dBm					Occupied Bandwidth				
Freq Offse		9.00 %	% of OBW Power 99			37.870 MHz Transmit Freq Error -61.918 kHz					
		00 dB	-26		x dB	39.84 MHz	idth	x dB Bandw			

#### Band77-Part27 40MHz CP OFDM SCS30kHz 64QAM RB106 0 CH648000





Band77-Part27 40MHz CP OFDM SCS30kHz 64QAM RB106 0 CH656000

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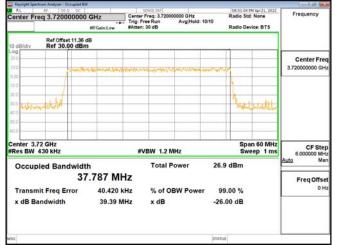


# Report No.: ER/2022/30084 Page: 158 of 366

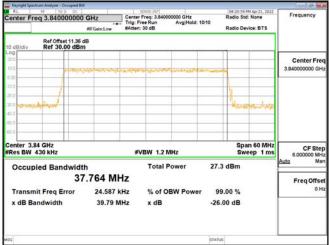
#### Band77-Part27 40MHz CP OFDM SCS30kHz 64QAM RB106 0 CH664000

RL I	RF 30 9 RF 30 9	DC	-+- Trig: I	Freq: 3.9600 Free Run 1: 30 dB	00000 GHz Avg Hold:	10/10	Radio St	PH Apr 21, 2022 d: None wice: BTS	Frequency
10 dB/div	Ref Offset 1 Ref 30.00								
20.0 10.0		مىدوالدىمىماشورواندە	desproyee.	-	-		-		Center Free 3.96000000 GH:
0.00	mont						his	(MAR David	
40.0				-					
60.0									
Center 3.9 #Res BW 4			,	#VBW 1.2 MHz				an 60 MHz eep 1 ms	CF Step 6.000000 MH
Occupi	ied Bandw			Total F	ower	29.	6 dBm		<u>Auto</u> Man
Transmi x dB Ba	it Freq Erro ndwidth			% of O x dB	BW Power		9.00 % .00 dB		Freq Offset 0 Hz
MSG						STATU	6		

#### Band77-Part27\_40MHz\_CP\_OFDM\_SCS30kHz\_256QAM\_RB106\_0\_CH648000

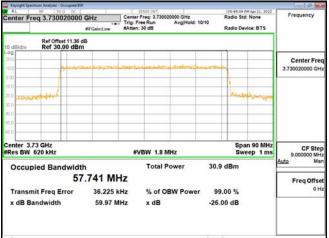


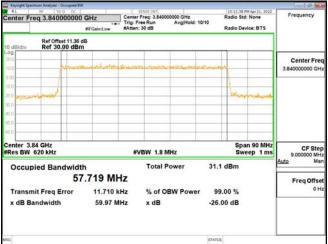
Band77-Part27 40MHz CP OFDM SCS30kHz 256QAM RB106 0 CH656000



Frequency	Radio Device: BTS	SENSE 3NT Center Freq: 3.960000000 GHz Trig: Free Run Avg(Hold: 10/10 #Atten: 30 dB			RL         NF         30 G         DC           Center Freq 3.960000000 GHz         #FGain:Low         #FGain:Low		
					Ref Offset 11.36 dB Ref 30.00 dBm	0 dB/div	
Center Fre 3.96000000 GH	~	er falt ref	(marine and the second s	mitrana ang tang tang tang tang tang tang ta		0.00	
	hannennet				metropal	20.0 20.0 20.0	
	Span 60 MHz				2 Olla	ao ao Center 3.9	
CF Stej 6.000000 MH	Sweep 1 ms		W 1.2 MHz	*		Res BW	
Auto Man Freq Offset	Occupied Bandwidth Total Power 26.7 dBm 37.858 MHz						
он	9.00 % 5.00 dB		% of OBW	-13.647 kHz 39.65 MHz	it Freq Error ndwidth		

Band77-Part27 60MHz CP OFDM SCS30kHz QPSK RB162 0 CH648668





Band77-Part27 60MHz CP OFDM SCS30kHz QPSK RB162 0 CH656000

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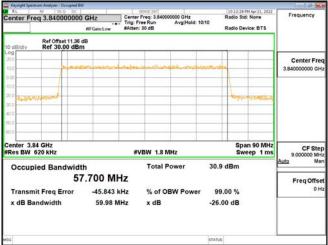
#### Band77-Part27 60MHz CP OFDM SCS30kHz QPSK RB162 0 CH663332

Center Fre	Center Freq 3.949980000 GHz			Center F Trig: Fre	SENSE SHT Center Freq: 3.949980000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			Radio St	PH Apr 21, 2022 d: None rvice: BTS	Frequency
10 dB/div	Ref Offse Ref 30.0	t 11.36 dB 00 dBm								
20.0 10.0	1	-	- gelmanan	natique	ور بر منافع الي ال		والمعمدان	-		Center Free 3.949980000 GH
10.0	mouth							herer	metrologic	
30.0 40.0		-					_			
60.0										
Res BW				#VBW 1.8 MHz					an 90 MHz reep 1 ms	CF Ste 9.000000 MH
Occup	Occupied Bandwidth 57.787 Mi		Hz	Total Power 30.					Auto Mar Freg Offse	
	nit Freq Er andwidth	TOF	-7.196 1 60.28 N		% of OE x dB	BW Powe		.00 % )0 dB		0 H
50							STATUS			

#### Band77-Part27 60MHz CP OFDM SCS30kHz 16QAM RB162 0 CH648668

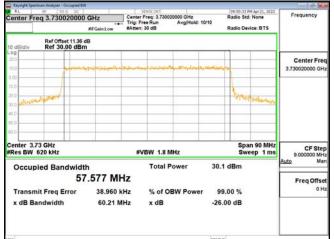


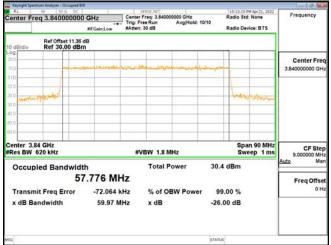
#### Band77-Part27 60MHz CP OFDM SCS30kHz 16QAM RB162 0 CH656000



Frequency	I: None	Radio Device: BTS		80000 GHz Avg Hold	sense snrt er Freq: 3.9491 Free Run m: 30 dB	nter Freg 3.949980000 GHz Center Fr				
							tef Offset 11.36 dE tef 30.00 dBm	0 dB/div		
Center Fre 3.949980000 GH			ata a sa	مىر بى <sub>لاي</sub> تان مەلمە	روبين المراجعة الم		-	.0g 20.0 10.0 0.00		
	agternetterser	terne					med			
								40.0		
	n 90 MHz eep 1 ms			ЛНZ	VBW 1.8			Center 3.95 Res BW 62		
<u>Auto</u> Ma		5 dBm	30.	Power	Total	Occupied Bandwidth				
Freq Offse 0 H		9.00 %		BW Powe	% of C	57.848 MHz Transmit Freq Error -71.986 kHz				
		.00 dB	-26		x dB	59.90 MHz	width	x dB Ban		

#### Band77-Part27 60MHz CP OFDM SCS30kHz 64QAM RB162 0 CH648668





Band77-Part27 60MHz CP OFDM SCS30kHz 64QAM RB162 0 CH656000

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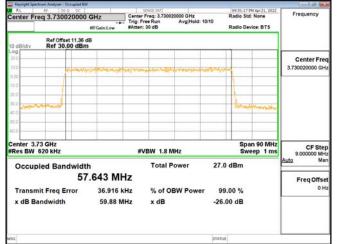


# Report No.: ER/2022/30084 Page: 160 of 366

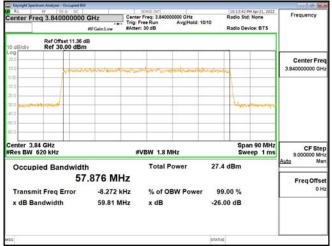
#### Band77-Part27 60MHz CP OFDM SCS30kHz 64QAM RB162 0 CH663332

Keysight Spect	trum Analyzer - Dccupie			NSEDNT					000
	eq 3.9499800		Center Fi	Center Freq: 3.949980000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			Radio Sto		Frequency
10 dB/div	Ref Offset 11. Ref 30.00 d								
20.0	-	engeneral particulars.	ومتحمولهم	and your day		and the second	-		Center Free 3.949980000 GH
10.0 20.0 alwhyter	hand						hard	Varit-Atig No.	
40.0									
60.0									
Res BW			#VE	3W 1.8 N	IHz			an 90 MHz eep 1 ms	CF Ste 9.000000 MH
Occup	ied Bandwi			Total P	ower	29.	9 dBm		<u>Auto</u> Man
	it Freq Error Indwidth	57.906 MI -59.683 I 59.97 N	kHz	% of OI x dB	BW Power		9.00 % .00 dB		Freq Offse 0 H
150						STAT	15		

#### Band77-Part27\_60MHz\_CP\_OFDM\_SCS30kHz\_256QAM\_RB162\_0\_CH648668

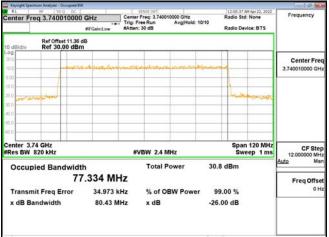


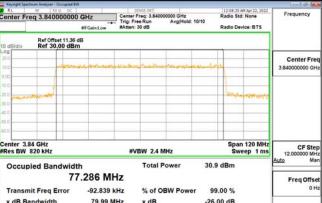
Band77-Part27 60MHz CP OFDM SCS30kHz 256QAM RB162 0 CH656000



Frequency	16-49-21 PH Jor 21, 2022 Radio Std: None Radio Device: BTS	servic:311 enter Freq: 3.949980000 GHz rig: Free Run Avg Hold: 10/10 Atten: 30 dB			ter Freq 3.949980000 GHz Cent			RL	
					-	et 11.36 dB 00 dBm	Ref Offset Ref 30.0	0 dB/div	
Center Fre 3.949980000 GH		Anna Via	-	manan	the second s	de la maria de	1	0.00 0.00	
	Juni manager						f-markad	0.0	
CF Ste	Span 90 MHz Sweep 1 ms		IHz	VBW 1.81			8.95 GHz 7 620 kHz		
Auto Mar	dBm	26.	Total Power 26.			Occupied Bandwidth 57,894 MHz			
01	00 % 0 dB	1.5	BW Powe	% of C x dB	.927 kHz 0.01 MHz		mit Freq Er Bandwidth		

Band77-Part27 80MHz CP OFDM SCS30kHz QPSK RB217 0 CH649334





Band77-Part27 80MHz CP OFDM SCS30kHz QPSK RB217 0 CH656000

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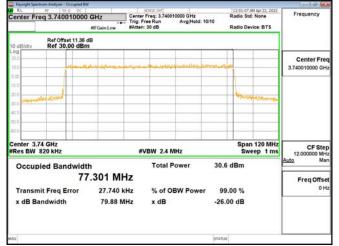


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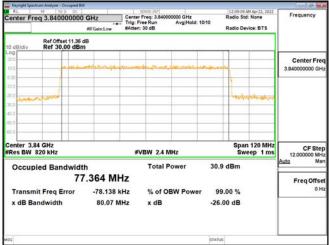
#### Band77-Part27 80MHz CP OFDM SCS30kHz QPSK RB217 0 CH662666

RL I	num Analyzer - Dec	DC	Hz	Center F	reg: 3.93995	0000 GHz			41 AM Apr 22, 2022 Std: None	Frequency
	2		FGain:Low	Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB				Radio	Device: BTS	
10 dB/div	Ref Offset Ref 30.00				· 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2					
20.0 10.0			- Chantoning		annala	all and your	man			Center Free 3.939990000 GH
0.00	1	- 1.1 2010 - DP								
20.0 1. 1944	- and				-				monthly	
-40.0										
60.0					-				_	
Center 3.9 #Res BW				#V	BW 2.4 N	IHz			an 120 MHz weep 1 ms	CF Step 12.000000 MH
Occup	Occupied Bandwidth		22	Total P	ower	30	.3 dBm	· · · · ·	<u>Auto</u> Man	
	77.407 MH			Ηz						Freq Offset
	it Freq Err	or	-9.209			BW Powe	~ 2	99.00 %		0 Hz
x dB Ba	ndwidth		80.21 N	Hz	x dB		-2	5.00 dB		
vsg							STAT	nus l		

#### Band77-Part27 80MHz CP OFDM SCS30kHz 16QAM RB217 0 CH649334

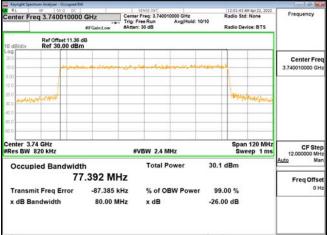


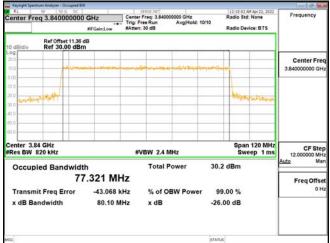
#### Band77-Part27 80MHz CP OFDM SCS30kHz 16QAM RB217 0 CH656000



Frequency		Radio Std Radio Dev	10/10								
								tef Offset 11.36 d tef 30.00 dBm	0 dB/div		
Center Fre 3.939990000 GH			n se	- magher the	with source	yun an	اليان موان والدار الي	man	0.00 10.0		
	e-	lyons						weeks .	20.0 20.0 <b></b>		
									40.0 50.0		
	120 MHz ep 1 ms			IHz	BW 2.4 N	#V			center 3.94 G Res BW 820		
Auto Ma		3 dBm	30.3	ower	Total P	Occupied Bandwidth 77,512 MHz					
Freq Offse 0 H		9.00 %	1 25	BW Power		kHz	18.964	req Error	Transmit F		
		.00 dB	-26.		x dB	ЛНz	80.05 N	width	x dB Band		

#### Band77-Part27 80MHz CP OFDM SCS30kHz 64QAM RB217 0 CH649334





Band77-Part27 80MHz CP OFDM SCS30kHz 64QAM RB217 0 CH656000

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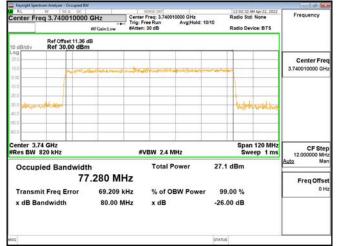


# Report No.: ER/2022/30084 Page: 162 of 366

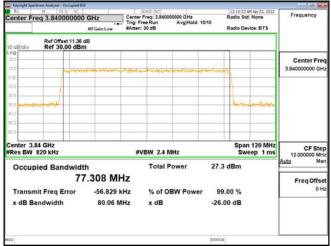
#### Band77-Part27 80MHz CP OFDM SCS30kHz 64QAM RB217 0 CH662666

Center Fre		90000 0	SHz	Center	Freq: 3.9399 ree Run : 30 dB	90000 GHz Avg Hold:	10/10	Radio St	AM Apr 22, 2022 d: None vice: BTS	Frequency
10 dB/div	Ref Offse Ref 30.0	t 11.36 dB 00 dBm								
20.0 10.0		they should	*****		man	and the state of the	wanted			Center Free 3.939990000 GH
10.0 20.0	inputite							laver	Artonson	
40.0										
60.0										
Center 3.9 #Res BW				#\	#VBW 2.4 MHz				n 120 MHz reep 1 ms	CF Step 12.000000 MH:
Occup	Occupied Bandwidth				Total Power 29					Auto Mar
Transm	77.394 MH Transmit Freq Error -87.909 k		A CONTRACTOR OF A CONTRACTOR O			r 9	9.00 %		Freq Offset 0 Hz	
x dB Ba	andwidth		80.23 M	MHz	x dB		-26	.00 dB		
MSG							STAT	6		

#### Band77-Part27\_80MHz\_CP\_OFDM\_SCS30kHz\_256QAM\_RB217\_0\_CH649334

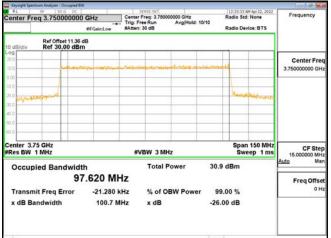


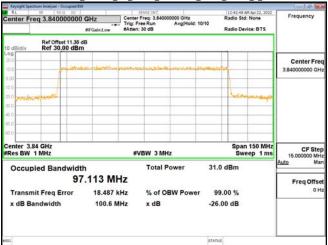
Band77-Part27 80MHz CP OFDM SCS30kHz 256QAM RB217 0 CH656000



Frequency	40 AM Apr 22, 2022 Std: None Device: BTS	Radi	0000 GHz Avg Hold: 10/10	ENSE 3NT Freq: 3.93999 ee Run 30 dB	Center Trig: F	00000 GHz	Keysight Spectrum Analyzer - Occup RL RF 50 0 enter Freq 3.939990		
							dB/div Ref 30.00		
Center Fre 3.939990000 GH			Mandar Mana Diana	e an de granda d	aguturethecure	and a state of the	00		
	inner-stre						10 10 10		
CF Ste 12.00000 MH	oan 120 MHz Sweep 1 ms		Hz	BW 2.4 N	#1		enter 3.94 GHz Res BW 820 kHz		
Auto M		26.7 dBr	ower	Total P	MHz	Occupied Bandwidth 77.533 MHz			
01		99.00 ° -26.00 d	W Power	% of OI x dB	42 kHz 3 MHz		Transmit Freq Erro x dB Bandwidth		

Band77-Part27 100MHz CP OFDM SCS30kHz QPSK RB273 0 CH650000





Band77-Part27 100MHz CP OFDM SCS30kHz QPSK RB273 0 CH656000

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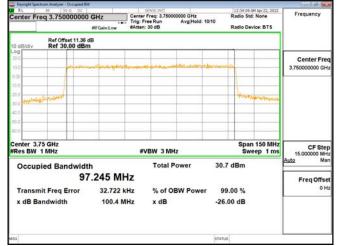


# Report No.: ER/2022/30084 Page: 163 of 366

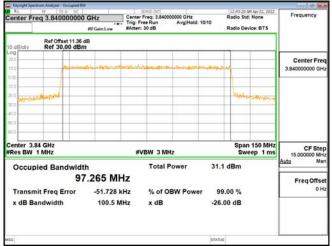
#### Band77-Part27\_100MHz\_CP\_OFDM\_SCS30kHz\_QPSK\_RB273\_0\_CH662000

Keysight Spect	trum Analyzer	Decupied BW	W.		SENSE INT	11		12-50-02	AM Apr 22, 2022	000
Center Fre		000000 0	SHz nFGain:Low	Center Trig: F	Center Freq: 3.93000000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			Radio St		Frequency
10 dB/div	set 11.36 dB 0,00 dBm									
20.0 10.0		. An	and and a start		un <del>us verages</del>	بدمرمد	-	-		Center Free 3.930000000 GH
0.00 10.0 20.0	mand							h	Subtraculta	
40.0			-							
60.0										
Center 3.9 #Res BW				#	VBW ЗМН	z			n 150 MHz reep 1 ms	CF Step 15.000000 MH
Occup	Occupied Bandwidth 97.417 MH				Total Power 30					Auto Mar
										Freq Offse
	nit Freq E andwidth		-40.615 100.7 M		% of OI x dB	BW Powe		0.00 % 00 dB		0 H
vsa							STATU	5		

#### Band77-Part27\_100MHz\_CP\_OFDM\_SCS30kHz\_16QAM\_RB273\_0\_CH650000

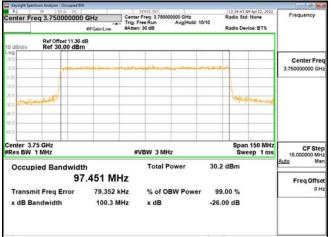


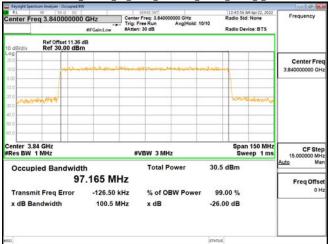
Band77-Part27\_100MHz\_CP\_OFDM\_SCS30kHz\_16QAM\_RB273\_0\_CH656000



Frequency	AM Apr 22, 2022 d: None wice: BTS	Radio Sto	SENSE INT Center Freq: 3,930000000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB				Kosipit Spetrum Analyse - Decipiel BW AL SP Sp D CC enter Freq 3.930000000 GHz #FGainLow				
	-					-	3	et 11.36 dB .00 dBm		0 dB/div	
Center Fre 3.930000000 GH		-	-		-	water		م وسول منا <mark>م</mark>	-	10.0	
									1	0.00	
	and a start of the	instan							-	0.0	
					-	-				0.0	
						-	-			50.0	
CF Ste	n 150 MHz eep 1 ms			z	ивши з мн	#1				enter 3. Res BW	
<u>Auto</u> Ma		.6 dBm	30.	ower	Total P	14.7	Occupied Bandwidth 97,462 MHz				
Freq Offse 0 H		9.00 %	er 9	BW Powe	% of O		Transmit Freg Error -34.684 kł				
		5.00 dB	-26		x dB	MHz	100.7 1		andwidth	x dB B	

Band77-Part27\_100MHz\_CP\_OFDM\_SCS30kHz\_64QAM\_RB273\_0\_CH650000





Band77-Part27\_100MHz\_CP\_OFDM\_SCS30kHz\_64QAM\_RB273\_0\_CH656000

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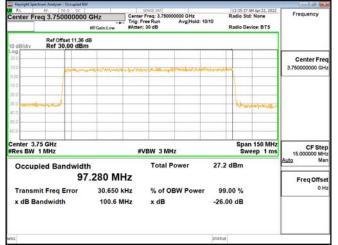


# Report No.: ER/2022/30084 Page: 164 of 366

#### Band77-Part27 100MHz CP OFDM SCS30kHz 64QAM RB273 0 CH662000

	Low. L						Frequency
eq 5.5500000	#FGain:Low	Trig: Free R	un Avg/H				
		Antopolio	uninder the second	re-	-		Center Free 3.930000000 GH
and the state of the					1.4.44	equilibriul of	
93 GHz							CF Ster
1 MHz		#VBW	3 MHz		Św	veep 1 ms	15.000000 MH
	S	otal Power	30	.1 dBm		Auto Ma	
nit Freq Error andwidth							OH
				STAT	1.6		
	Provide a consection of the section	Pre 1908 00 eq 3.93000000 GHz #FGalact.or Ref 30,00 dBm Ref 30,00 dBm 93 GHz 10 MHz 11 MHz 10 MHz 11 MHz 10 MHz 11 MHz 10	Provide Constraints of the second secon	Bit	W         BIG SC         MMRL INT           erg 3.930000000 GHz         Errer Frez Run         AvgiHeid: 1010           #Faint.co         Trip: Frez Run         AvgiHeid: 1010           Ref 30.00 dBm         AvgiHeid: 1010         AvgiHeid: 1010           Ref 30.00 dBm         AvgiHeid: 1010         AvgiHeid: 1010           30 GHz         Frez Run         AvgiHeid: 1010           31 GHz         #VEW 3 MHz         AvgiHeid: 100           bit Freg Error         -52.042 kHz         % of OBW Power         Sondwidth           100.6 MHz         x dB         -20	W 199 C     With 2M1     Users       erg 3.930000000 GHz     Free Free Run     AngiHold: 1010       Ref 30.00 dBm     Free Free Run     AngiHold: 1010       Ref 30.00 dBm     Free Run     AngiHold: 1010       30 GHz     Free Run     AngiHold: 1010       30 GHz     Free Run     AngiHold: 1010       30 GHz     Free Run     Space       97.473 MHz     Space     Space       and width     100.6 MHz     x dB       -26.00 dB     Space     -26.00 dB	By Store CC     Interference     The synthetic store of the synthet store of the synthetic store of the synthetic store synth

#### Band77-Part27\_100MHz\_CP\_OFDM\_SCS30kHz\_256QAM\_RB273\_0\_CH650000



#### Band77-Part27 100MHz CP OFDM SCS30kHz 256QAM RB273 0 CH656000



RL.	trum Analyzer - Decugned Bid RF 50 S2 DC eq 3.930000000	Center F Trig: Fre	SENSE 3NT Center Freq: 3.930000000 GHz Trig: Free Run Avg Hold: 10/10 #Atten: 30 dB			Radio St	AM Apr 22, 2022 d: None wice: BTS	Frequency	
10 dB/div	Ref Offset 11.36 Ref 30.00 dBn								
20.0 10.0 0.00	annen	n and an and	Winder		sallere apa, ad	huma	~		Center Free 3.930000000 GH:
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40.0 50.0									
Center 3.9 Res BW			#VI	BW 3MH	z			n 150 MHz reep 1 ms	CF Ste 15.000000 MH
Occupied Bandwidth 97.358 MH							dBm		Auto Ma
	nit Freq Error andwidth	-22.233 I 100.7 N		% of OI x dB	BW Powe	- 17 F	.00 % 00 dB		0 H
50						STATUS			

#### Band77-Part27 100MHz CP OFDM SCS30kHz 256QAM RB273 0 CH662000

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# 9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

## 9.1 Standard Applicable

#### FCC §22.917(a), §24.238(a), §27.53(h)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P) dB$ .

#### FCC §27.53(h)

(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 log<sub>10</sub> (P) dB.

#### FCC §27.53(I)

(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (I)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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.

#### FCC §27.53(n)

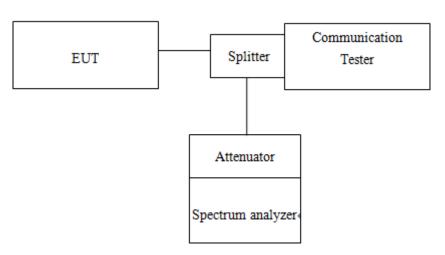
(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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# 9.3 Measurement Procedure

## 9.3.1 Conducted Emission

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

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

# 9.4 Band Edge Measurement Result:

Refer to next pages.

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Band2\_5MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB1\_0\_CH370500



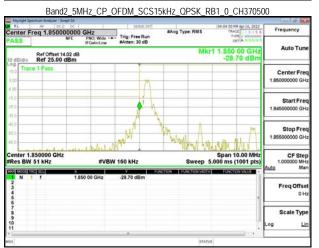


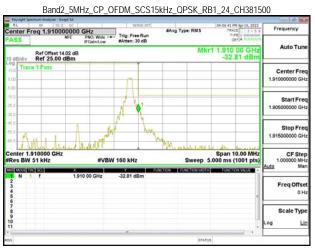












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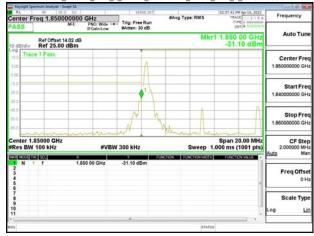
# Report No.: ER/2022/30084 Page: 168 of 366

Band2\_5MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB25\_0\_CH370500

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Band2 10MHz DFT s OFDM SCS15kHz BPSK RB1 0 CH371000



Band2\_10MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB1\_51\_CH381000



Band2 10MHz DET s OEDM SCS15kHz BPSK RB50 0 CH371000





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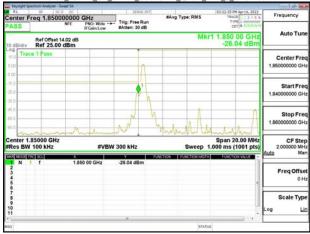
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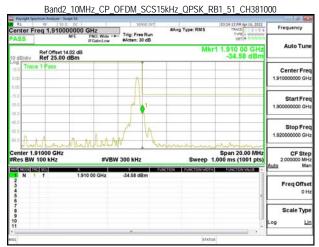
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## Report No.: ER/2022/30084 Page: 169 of 366

Band2\_10MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB1\_0\_CH371000

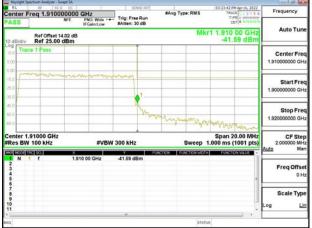




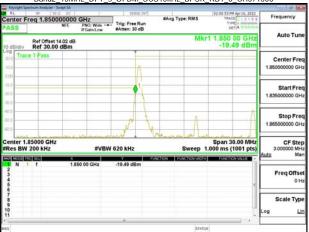


🔤 Keysight Spectrum Analyzer - Swe		Contra State State	100	And the second second second	-0-16-
Center Freq 1.85000		Trig: Free Run	#Avg Type: RMS	03:23:02 PM Apr 16, 2022 TRACE 2 3 4 5 6 TYPE - WWWWWW	
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Band2\_10MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB52\_0\_CH381000



Band2 15MHz DET s OEDM SCS15kHz BPSK RB1 0 CH371500





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Band2\_15MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB75\_0\_CH371500





Band2 15MHz CP OFDM SCS15kHz QPSK RB1 0 CH371500



Band2\_15MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB1\_78\_CH380500



Band2\_15MHz\_CP\_OFDM\_SCS15kHz\_QPSK RB79 0 CH371500





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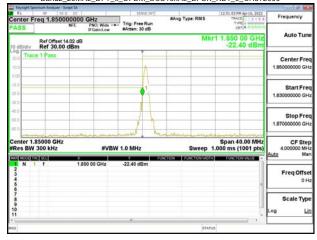
# Report No.: ER/2022/30084 Page: 171 of 366

Band2\_20MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB100\_0\_CH372000

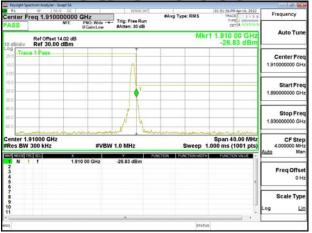




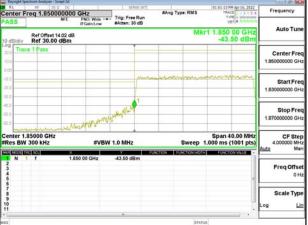
Band2 20MHz DFT s OFDM SCS15kHz BPSK RB1 0 CH372000

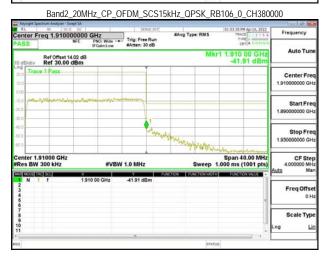


Band2\_20MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB1\_105\_CH380000



Band2 20MHz CP OEDM SCS15kHz OPSK RB106 0 CH372000





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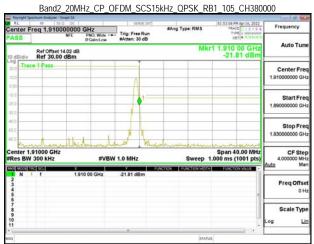
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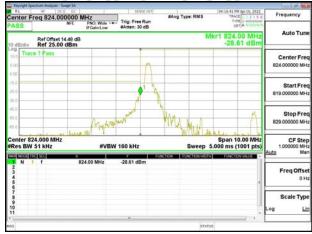
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Band2\_20MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB1\_0\_CH372000









Band5\_5MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB1\_24\_CH169300



Band5 5MHz DET s OEDM SCS15kHz BPSK RB25 0 CH165300





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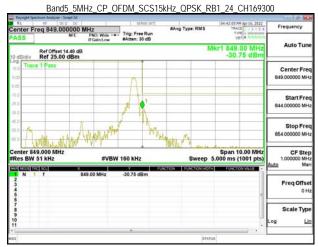
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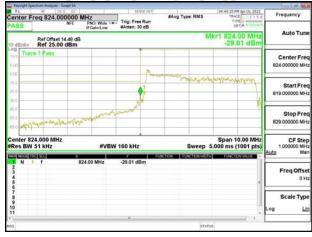
# Report No.: ER/2022/30084 Page: 173 of 366

Band5\_5MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB1\_0\_CH165300





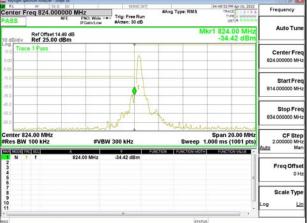
Band5 5MHz CP OFDM SCS15kHz QPSK RB25 0 CH165300

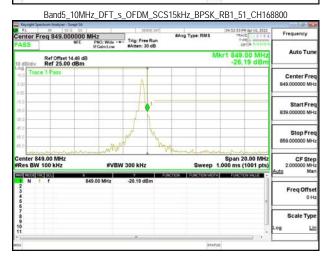


Band5\_5MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB25\_0\_CH169300



Band5 10MHz DET s OEDM SCS15kHz BPSK RB1 0 CH165800





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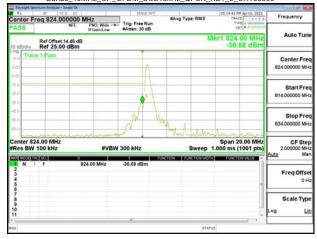
# Report No.: ER/2022/30084 Page: 174 of 366

Band5\_10MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB50\_0\_CH165800

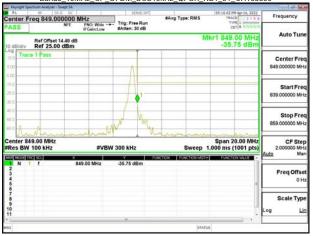




Band5 10MHz CP OFDM SCS15kHz QPSK RB1 0 CH165800

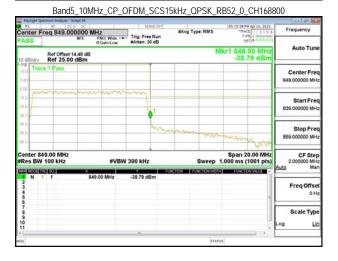


Band5\_10MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB1\_51\_CH168800



Band5\_10MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB52\_0\_CH165800





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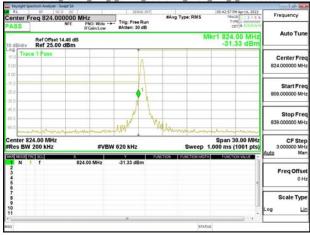
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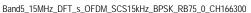
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Band5\_15MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB1\_0\_CH166300







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Frequency	05:43:21 PM Apr 16, 2022 TRACE 2 3 4 5 6 TYPE - WWWWWW	e: RMS	#Avg Typ	Trig: Free Run		0000 MH	824.00	Freq	nter
Auto Tun	per A NNNNN			#Atten: 30 dB	0: Wide ++- ain:Low	NFE			SS
Auto Tuli	kr1 824.00 MHz -44.09 dBm	M				4.48 dB dBm	f Offset 1 ef 25.00	Re	dB/di
Center Fre 824.000000 MH							Pass	ce 1	20
Start Fre 809.000000 MH			and the second s						0
Stop Fre 839.000000 Mi-	*			Warner M	MANNY				0
CF Ste 3.000000 MH Auto Ma	Span 30.00 MHz .000 ms (1001 pts)				#VBW	1		N 200	es B
Freq Offse	FUNCTION WALKE	KTION WOTH	CTION FU	-44.09 dBm	MHz	824		1 f	
Scale Typ									
Log Li									
	5	STATUS							

Band5\_15MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB75\_0\_CH168300



Band5 15MHz CP OFDM SCS15kHz QPSK RB1 0 CH166300





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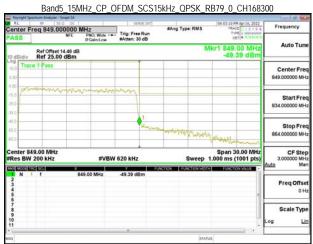
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 f (886-2) 2298-0488

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Band5\_15MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB79\_0\_CH166300





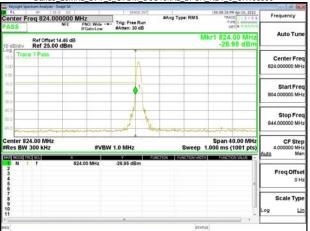
Band5\_20MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB100\_0\_CH166800

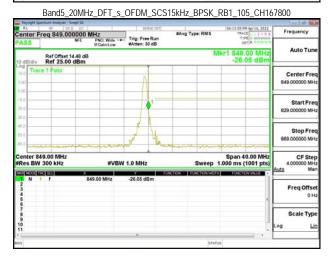
	pectrum Analyser - 1		and the second			0-0-0-
Center I		00000 MHz	Trig: Free Run	#Avg Type: RMS	06:09:04 PM Apr 16, 2022 TRACE 23:65:6	Frequency
PASS		NFE PNO: Wide IFGain:Lov			DET A NINNIN	Auto Tune
10 dB/div	Ref Offset Ref 25.00	14.48 dB 0 dBm			43.76 dBm	
5.00	ce 1 Pass					Center Freq 824.000000 MHz
-15.0 -25.0			1	4 martin	and the second s	Start Freq 804.000000 MHz
45.0 -55.0 -55.0			management		Ł	Stop Freq 844.000000 MHz
#Res BV	24.00 MHz V 300 kHz	۳V	BW 1.0 MHz	Sweep	Span 40.00 MHz 1.000 ms (1001 pts)	CF Step 4.000000 MHz Auto Man
1 N 2 3 4 5	1 f	824.00 MHz	-43.76 dBm	ACTON FORCTON WOT	· FORTION VALUE ·	Freq Offset 0 Hz
6 7 8 9 10						Scale Type
4 MSG				stati	a	

Band5\_20MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB100\_0\_CH167800



Band5 20MHz DET s OEDM SCS15kHz BPSK RB1 0 CH166800





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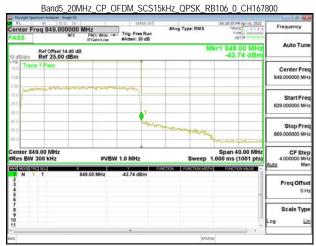
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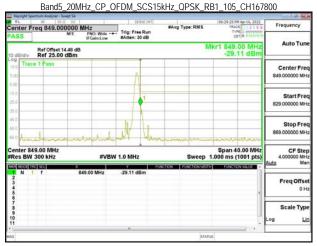
Band5\_20MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB106\_0\_CH166800



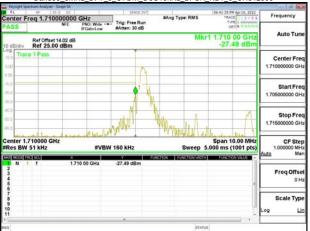


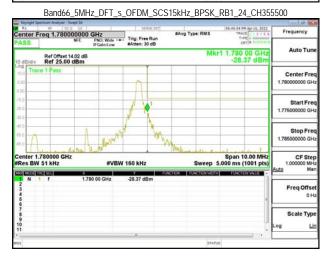


	Spectrum	n Analyzer - Swept	54			1.2	Providence.		-0-10-20
Center	Freq	824.0000	00 MHz	Trig: Free R	1	Avg Type: RM	S TH	PM Apr 16, 2022	
PASS		N	E PNO: Wide • IFGain:Low	#Atten: 30 c	B			DET A NINNIN	Auto Tun
10 dB/div	R	ef Offset 14.4 ef 25.00 dE	6 dB Sm					4.00 MHz 1.96 dBm	Auto Tuli
15.0 Tn	ace 1	Pass							Center Fre
5.00				1	-				824.000000 MH
6.00				-		_		-	
-15.0									Start Fre
35.0				1			_	_	804.000000 MH
45.0				-	h		_		Stop Fre
-55.0		and the second		X	1 de la	dia a	100000	-	844.000000 MH
Center #Res B		0 MHz	#VB	W 1.0 MHz		Swee	Span p 1.000 ms	40.00 MHz (1001 pts)	4.000000 MH
			824.00 MHz	-28.96 dBn		N FUNCTION	MOTH FUNC	TOWNAUE	Auto Ma
2345			624.00 MPI2	-26.96 000					Freq Offse 0 H
0 7 8 9									Scale Type
10									Log Li
•	-			10 I				1 S.M.	



Band66 5MHz DFT s OFDM SCS15kHz BPSK RB1 0 CH342500





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Band66\_5MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB25\_0\_CH342500





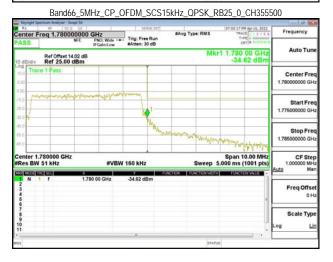


Band66\_5MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB1\_24\_CH355500



Band66\_5MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB25\_0\_CH342500





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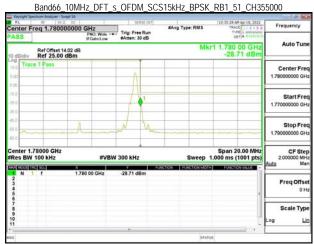
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Band66\_10MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB1\_0\_CH343000

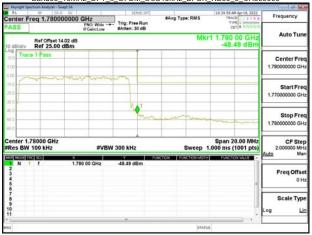
-0-0-							ectrum Analyze	Keysight Sp
Frequency	10:30:43 AM Apr 18, 2022 TRACE 2 3 4 5 6 TVPE - WWWWWW	g Type: RMS	SE SNT	Courses of	GHz	0000000		
Auto Tun	DET A NINITAN		Run dB	Trig: Free #Atten: 30	PNO: Wide ++- IFGain:Low		1	ASS
Auto Tu	1 1.710 00 GHz -32.92 dBm	Mkr				et 14.02 dB .00 dBm	Ref Offse Ref 25.	0 dB/div
Center Fr							e 1 Pass	ISD Trac
1.710000000 G			A					100
Start Fr		-				_		5.0
1.700000000 G		_	1		_			50
Stop Fre	A.	٨	1	1				50
1.720000000 G	V	un and have	Luc	- w				5.0
CF St 2.000000 M	Span 20.00 MHz .000 ms (1001 pts)	Sweep 1.		300 kHz	#VBW		.71000 GH	
Auto M		FUNCTION WIDTH		-32.92 dE	0 00 GHz	×	RC SCL	
Freq Offs 0								23456
Scale Ty								7 8 9
Log j								0
				10				



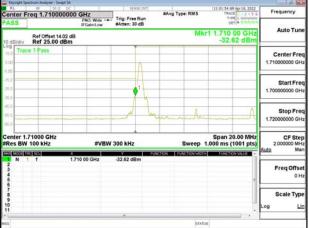
Band66 10MHz DFT s OFDM SCS15kHz BPSK RB50 0 CH343000

Keysight Spectrum Analyzer - Swe	pt SA		-	Lines of a clinic stress	-0-16
Center Freq 1.71000	0000 GHz	Trig: Free Run	#Avg Type: RMS	10:31:02 AM Apr 18, 2022 TRACE 2:3 4:5 6 TYPE - WWWWWW	Frequency
PASS	IFGain1.ow	#Atten: 30 dB		per A N NN N N	Auto Tune
to dB/div Ref 25.00 d			Mk	-36.68 dBm	Auto Tulle
15:0 Trace 1 Pass 5:00					Center Freq 1.71000000 GHz
600 -15.0 -25.0		(m	mm	mont	Start Freq 1.700000000 GHz
450 650 650	py	- Marine		7	Stop Freq 1.720000000 GHz
Center 1.71000 GHz #Res BW 100 kHz	#VBW	300 kHz		Span 20.00 MHz 1.000 ms (1001 pts)	CF Step 2.000000 MHz Auto Man
1 N 1 f 2 3 4 6	1.710 00 GHz	-36,68 dBm	ACTION FUNCTION WOTH	FUNCTION VALUE	Freq Offset 0 Hz
6 7 8 9 10 11					Scale Type
MSG			STATU	s .	L

Band66\_10MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB50\_0\_CH355000



Band66\_10MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB1\_0\_CH343000





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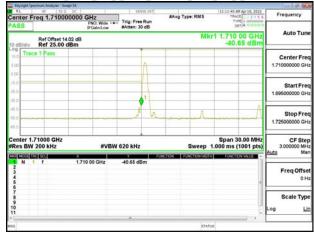
## Report No.: ER/2022/30084 Page: 180 of 366

Band66\_10MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB52\_0\_CH343000

-0-0-	Law Sector Contractor State		and the second second	-			ctrum Analyser	
Frequency	11:02:18 AM Apr 18, 2022 TRACE 2 1 9 5 6	g Type: RMS	ENSE SNT	19	11-	000000		IL I
Auto Tun	DET A NUMBER	g rype: KMS	an a	Trig: Fre	FNO: Wide ++-	000000	req 1.710	ss
Auto Tur	1 1.710 00 GHz -37.01 dBm	Mkr				14.02 dB 0 dBm	Ref Offse Ref 25.0	dB/div
Center Fre 1.710000000 GP							e 1 Pass	0
Start Fre 1.700000000 GF	more	min	1					0
Stop Fre 1.720000000 Gi			A	- Mart				0
CF Ste 2.000000 Mi Auto Mi	Span 20.00 MHz .000 ms (1001 pts)	Sweep 1		300 kHz	#VBW	z	71000 GH 100 kHz	
Freq Offs 01			dBm	-37.01 d	00 GHz	1.71	,	N
Scale Typ								
Log L								
	19. Contract 19.	status		_				







Band66\_15MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB1\_78\_CH354500



Band66 15MHz DET s OEDM SCS15kHz BPSK RB75 0 CH343500





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Band66 15MHz CP OEDM SCS15kHz OPSK RB1 0 CH343500

-co- 6	Apr 18, 2022	11:40:36 AM			se onti	SEN		DC I	n Analyzer - Sw IF 50.0	gre spectrum	R RL
Frequency	E123456	TRACE 123456		#Avg Type: RMS		Trig: Free Run		00000 GH	1.71000	er Freq	
	DET A NINNIN				#Atten: 30 dB		NO: Wide ++- Gain:Low	P1 IF1	S		PAS
Auto Tur	00 GHz 29 dBm	1 1.710	Mkr						ef Offset 14 ef 25.00 (		10 dB
Center Fre									Pass	Trace 1	150
1.710000000 GH			_		n						5.00
											6.00
Start Fre			-		1-	_					15.0
1.695000000 GH			-		1						30
	1.1			-		1			-		35.0
Stop Free 1.725000000 GH	$\sim \Lambda$	- 223	A	1000	Kan	1	dan er er		1000		450
											65.0
CF Ste	0.00 MHz	Span 30							00 GHz	er 1.710	Cent
3.000000 MH	1001 pts)	.000 ms (1	Sweep 1			520 kHz	#VBW		0 kHz	BW 200	Res
Auto Ma	N WALLE	FUNCTION	ACTON WOTH	TON R		-27.29 dB	0.011	1,710.0			
Freq Offs 0 F					m	-27-29 00	U GH2	1.7100		•••	2346
Scale Typ											7
Log L											9
						w :					11
		5	statu								150

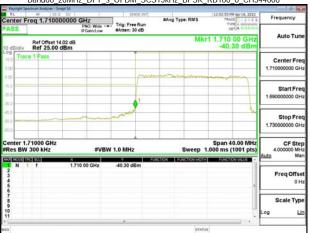




Band66\_15MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB79\_0\_CH354500



Band66 20MHz DET s OEDM SCS15kHz BPSK RB100 0 CH344000





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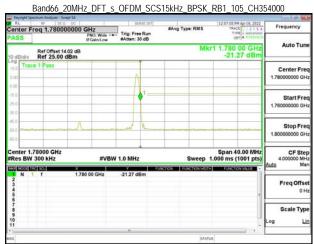
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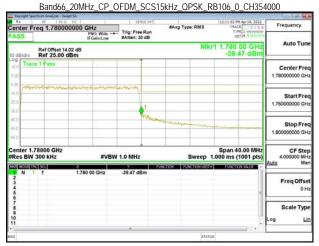
Band66\_20MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB1\_0\_CH344000

-0-16-16	- Contraction of the second							trum Analyse		
Frequency	11:57:56 AM Apr 18, 2022 TRACE 2 3 4 5 6	#Avg Type: RMS		SE SNT	1.1.1.1.1.1.1		0000000			Cen
	DET A NINNINN			Trig: Free Run #Atten: 30 dB					S	PAS
Auto Tur	1 1.710 00 GHz -21.70 dBm	Mkr					et 14.02 dB .00 dBm	Ref Offse Ref 25.	3/div	10 dl
Center Fre				٨				1 Pass	Trace	150 5.00
			-	1						6.00
Start Fre 1.690000000 GF				+						25.0
Stop Fre	Λ		_	1						-45.0
1.730000000 GH			-	-				-		65.0
CF Ste 4.000000 MH	Span 40.00 MHz .000 ms (1001 pts)	Sweep 1.			1.0 MHz	#VBW		1000 GH 300 kHz		
Auto Ma	FUNCTION VALUE	FUNCTION WOTH	ACTON		-21.70 dB	0 00 GHz	1.71	1	N 1	
Freq Offs 0 F										2346
Scale Typ										789
Log L										10 11
		status			-					*



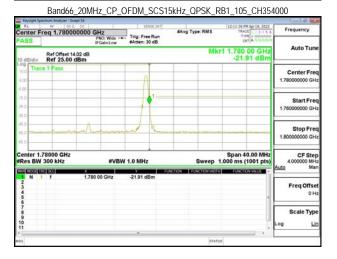
Band66\_20MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB106\_0\_CH344000

	ipectrum Analyzer - Swept	r SA				-0-6-0
Center	Freq 1.710000	000 GHz	Trig: Free Run	#Avg Type: RMS	12:10:26 PM Apr 18, 2022 TRACE 2 3 4 5 6 TVPE - WWWWWW	Frequency
PASS		PNO: Wide ++ IFGain:Low	#Atten: 30 dB		DET A NINNIN	Auto Tune
10 dB/div	Ref Offset 14.0 Ref 25.00 de	12 dB Brn		Mk	-37.00 dBm	Auto Tune
15.00 Tra	ice 1 Pass					Center Free 1.710000000 GH
-15.0			1	and wards and a first from the se	any and a for the start	Start Free 1.690000000 GH
450 -550 -650		and the second strategy of the second strateg	and the second second			Stop Fred 1.730000000 GH:
	1.71000 GHz V 300 kHz	#VBV	V 1.0 MHz	Sweep	Span 40.00 MHz 1.000 ms (1001 pts)	CF Step 4.000000 MH Auto Mar
	1 f	1.710 00 GHz	-37.00 dBm	ONCTION FORCTION WIDTH	FORTON VALUE	Freq Offse 0 H
6 7 8 9 10						Scale Type
*				statt		



Band66 20MHz CP OEDM SCS15kHz OPSK RB1 0 CH344000





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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Band66\_30MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB160\_0\_CH345000

-0-16-							ectrum Analyse	
Frequency	02-23-55 PM Apr 18, 2022 TRACE 3 6 5 6			SENSE ONT		50.0 OC		RL
	TYPE A WWWWWW	ype: RMS	EAVO	Trig: Free Run #Atten: 30 dB	GHZ PNO: Fast ++++	10000000	req 1.71	nter F
Auto Tur	1 1.710 00 GHz -49.46 dBm	Mkr				et 14.02 dB	Ref Offs Ref 25.	dB/div
Center Fre 1.710000000 Gi							e 1 Pass	10
Start Fro 1.680000000 Gr	mannen		******	( mil				0
Stop Fre 1.740000000 Gi				-				0
CF Sto 6.000000 M Auto M	Span 60.00 MHz .000 ms (1001 pts)	Sweep 1.	FUNCTION	1.0 MHz	#VBW		71000 GH 300 kHz	
Freq Offs 01	x			-49.46 dBm	0 00 GHz	1.71	1 1	N
Scale Ty								
Log L	· · ·							
		STATUS						





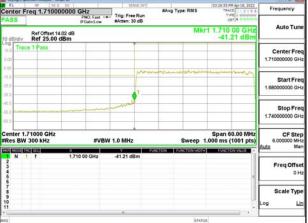
	m Analyzer - Swept SA					-0-0-0-
Center Fred	1.71000000	PNO: Fast ++	Trig: Free Run	#Avg Type: RMS	03:23:33 PM Apr 18, 2022 TRACE 3 3 5 6 TVPE A MINIMUM DET A MINIMUM	
10 dB/div R	ef Offset 14.02 d ef 25.00 dBm	IFGain1.ow	#Atten: 30 dB	Mk		Auto Tune
15:0 Trace 1 5:00	Pass		A			Center Freq 1.710000000 GHz
-15.0						Start Freq 1.68000000 GHz
450 -550 -550						Stop Freq 1.74000000 GHz
Center 1.710 #Res BW 30	0 kHz	_		Sweep	Span 60.00 MHz 1.000 ms (1001 pts)	CF Step 6.000000 MHz Auto Man
1 N 1 2 3 4 5		710 00 GHz	-38.35 dBm			Freq Offset 0 Hz
9 10 11						Scale Type
MSG				statt	8	

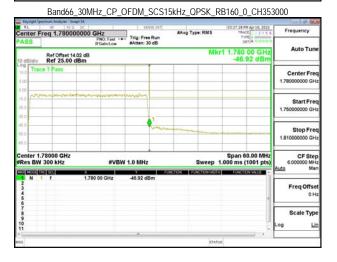
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Band66\_30MHz\_DFT\_s\_OFDM\_SCS15kHz\_BPSK\_RB1\_159\_CH353000

Band66\_30MHz\_CP\_OFDM\_SCS15kHz\_QPSK\_RB160\_0\_CH345000





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