

	t: RF pling: DC n: Auto	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 26 dB	Trig: Free Run Gate: LO IF Gain: Low	Center Freq: Radio Std: N	: 3.457500000 None	) GHz	Gate On	Trigger
PASS	-	NFE: Off						Off Gate View	Gate Source
ll Range Graph Ile/Div 10.0 dB	•		Ref Value 30.00	) dBm				On Off	Gate Settings
<b>g</b> 0 0								Gate Delay 4.000 ms	Periodic Sync Sr
.0								Gate Length 689.60 µs	Auto/ Holdoff
.0 .0 .0	الدير المراجعين المراجع	ligniger og en som e					Annone and the second	Control Edge Level	
.0 rt 3.431 GHz						Stop	o 3.469 GHz	Gate Holdoff 208.6 µs	
ll Range Table	•							Auto Man	
				Measure Tra Trace Type		Trace Avera		Gate Delay Compensation	
Spur Ran	1 3.4313	GHz 3.4450 G	Hz 1.000 MHz 3	Frequency 3.444862500 GHz		∆Limit -16.43	dB	RBW Settled	•
2 3 4	3 3.4490	GHz 3.4500 G	Hz 360.0 kHz 3	3.448960000 GHz 3.449980000 GHz 3.458718750 GHz	-31.64 dBm -30.58 dBm 10.80 dBm	-18.64 -17.58 -15.20	dB	Gate View Sweep Time 2.0000 ms	
50	2	Nov 01, 2022 2:08:27 AM	$\bigcirc \land$					Gate View Start Time 3.500 ms	•

Plot 7-141. Lower ACP Plot (NR Band n77 - DoD Band – 15MHz DFT-s- π/2 BPSK – Full RB - SRS-1)

	Input: RF Coupling Align: Au		t Ζ: 50 Ω CCorr Ref: Int (S) : Off	Atten: 26 dB	Trig: Free F Gate: LO IF Gain: Lo	Radio Std:	q: 3.542500000 GH None	IZ G	Gate On Off	Trigger Gate
ll Range Gr ale/Div 10.		•	F	Ref Value 30.	00 dBm			G	Bate View On Off	Gate Settings
<b>g</b> .0 .0									Gate Delay 1.000 ms	Periodic Sync Src
00 000									6ate Length 689.60 μs	Auto/ Holdoff
0.0						Munitadir da Lango na Langung Langung Langung	magnessiletanoopenag		Control Edge Level	
.0 irt 3.531 G	Hz						Stop 3.5		Gate Holdoff 208.6 μs	
ll Range Tal	ole '	•			Measur Trace T		Trace Average (		Auto Man Sate Delay	
Spur		Start Freq	Stop Freq	RBW	Frequency		∆Limit		Compensation RBW Settled	,
2					3.548000000 3.550123333		-15.83 dB -16.46 dB			
3						GHz -30.63 dBm	-17.63 dB		Gate View Sweep îme	
						GHz -28.86 dBm	-15.86 dB		2.0000 ms	

Plot 7-142. Upper ACP Plot (NR Band n77 - DoD Band – 15MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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Plot 7-143. Lower ACP Plot (NR Band n77 - DoD Band – 10MHz CP-OFDM QPSK – Full RB - SRS-1)

Spuriou	um Analı us Emiss	sions	• +								<b>‡</b>	Trigger	- *
KEYS RI	SIGHT	Input: RF		t Z: 50 Ω CCorr	Atten: 26 dB	Gate:		Center Freq: Radio Std: N	: 3.545000000 0 Ione	GHz	Gate On		Trigger
	ASS	Align: Au		Ref: Int (S)		IF Gai	n: Low				Off		Gate
	ange Gra	ph v	,		,			1			Gate View		Source
	Div 10.0	dB		F	Ref Value 30.	00 dBm					On Off		Gate Settings
20.0											Gate Delay		Periodic
10.0											4.000 ms		Sync Src
0.00											Gate Length		Auto/
-20.0		/									689.60 µs		Holdoff
-30.0	or white party					Station of the Station of the State					Control		
-40.0											Edge Level		
-60.0											Gate Holdof	f	
Start 3	.538 GH	z							Stop 3	3.563 GHz	208.6 µs		
4 All Ra	ange Tabl	e v	,								Auto Man		
							asure Tra ice Type		Trace Average	Trace 1	Gate Delay		
	Spur	Range	Start Freg	Stop Freq	RBW	Freque	21	Amplitude	nace Average ∧Limit	(Acuve)	Compensati		
	<u></u> 1	1	3.5375 GHz	3.5500 GHz	1.000 MHz	3.5486250	000 GHz	13.56 dBm	-12.44 d		RBW Settle	d v	
	2			3.5510 GHz				-27.89 dBm	-14.89 d		Gate View S	weep	
	3			3.5550 GHz 3.5625 GHz				-27.62 dBm -28.91 dBm	-14.62 d -15.91 d		Time		
	4	4	0.0000 GHZ	0.0020 GHZ	1.000 10112	0.000007	SOU ONZ	-20.01 0011	-15.910		2.0000 ms		
	5	al		v 01, 2022 🧹							Gate View S	tart Time	
			1:	51:34 AM 📡							3.500 ms		

Plot 7-144. Upper ACP Plot (NR Band n77 - DoD Band – 10MHz CP-OFDM QPSK – Full RB - SRS-1)

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RL ASS	Gat	F 50 Ω	DC	CORREC	÷	Trig:	SENSE:INT er Freq: 3.5 Free Run	00010000		ALIGN AUTO	Radio S	8 PM Oct 14, 2022 Std: None	Fre	quency
A33				IFGain:	Low	#Atte	en: 32 dB				Radio	Device: BTS		
0 dB/d og	div	Ref 30.00	) dBm							1				
20.0														enter Fre
0.0											**	~		
20.0 — 30.0 —														
10.0		Jankasuman	بدرافته ويدعوه	man Ino	and the second s	Marken						manne		
0.0	3.325 G	Hz									Stop	) 3.575 GHz	716.0	
0.0 tart	3.325 Q		Ste	op Fred	1   F	RBW	Frequen	cy	Ampl	itude	Stop		716.0 <u>Auto</u>	002000 MI
itart	Range	Start Freq 3.3250 GH	z 3.4	450 GH	z 1	.000 MH	z 3.441400	000 GHz	-37.82	dBm	∆ Limi -24.82	it dB		002000 MH
so.o	Range	Start Freq 3.3250 GH 3.4450 GH	z <u>3.4</u> z 3.4	<mark>450 GH</mark> 490 GH	z 1 z 5	.000 MHz 10.0 kHz	z 3.441400 3.445126	000 GHz 667 GHz	-37.82 -41.51	dBm dBm	∆ Limi -24.82 -28.51	it dB dB	<u>Auto</u>	002000 MH Ma
start Spur	Range	Start Freq 3.3250 GH	z 3.4 z 3.4 z 3.4	450 GH	z 1 z 5 z 3	. <mark>000 MH</mark> 10.0 kHz 60.0 kHz	z 3.441400	000 GHz 667 GHz 667 GHz	- <mark>37.82</mark> -41.51 -40.63	dBm dBm dBm	∆ Limi -24.82	it dB dB dB	<u>Auto</u>	CF Ste 002000 MH Ma req Offs 0 H
o.o etart Spur	Range	<b>Start Freq</b> 3.3250 GHz 3.4450 GHz 3.4490 GHz	z 3.4 z 3.4 z 3.4	<mark>450 GH</mark> 490 GH 500 GH	z 1 z 5 z 3	. <mark>000 MH</mark> 10.0 kHz 60.0 kHz	z 3.441400 3.445126 3.449966	000 GHz 667 GHz 667 GHz	- <mark>37.82</mark> -41.51 -40.63	dBm dBm dBm	∆ Limi -24.82 -28.51 -27.63	it dB dB dB	<u>Auto</u>	002000 MH Ma

Plot 7-145. Lower ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-2)



Plot 7-146. Upper ACP Plot (NR Band n77 - DoD Band – 100MHz CP-OFDM QPSK – Full RB - SRS-2)

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ASS	RF Gate:		DC	CORRE		+++ Trig:	SENSE:INT er Freq: 3.500010 Free Run en: 32 dB	0000 GHz	ALIGN AUTO	Radio	04 AM Oct 08, 2022 Std: None Device: BTS	Frequ	uency
		2-5-20-0	0 dBm		n:Low	#Atte	n: 32 dB			Radio	Device: B I S		
0 dB/div .og 20.0 10.0		Ref 30.0	оавт										<b>iter Fre</b> 0000 GH
0.00										1144.90			
20.0 30.0 40.0	man	لىمىتى رومىيى مەربىكە مەربىكە مەربىكە		-	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Anna and	mya				m		
0.0	25 GI	Hz								Sto	o 3.575 GHz	716.00	CF Ste
tart 3.3		Hz Start Freq	I St	op Fre	¢q	RBW	Frequency	Am	plitude	Stop			2000 MI
tart 3.3	ange	Start Freq 3.3250 GH	z 3.4	op Fre	Hz	1.000 MHz	3.355200000	GHz -34.	64 dBm	∆ Lim -21.64	it dB	716.00	2000 M
tart 3.3	inge 3	<b>Start Freq</b> 3.3250 GH 3.4450 GH	z 3.4 z 3.4		i <mark>Hz</mark> iHz	1.000 MHz 510.0 kHz	3.355200000 0 3.448886667 0	<mark>GHz -34.</mark> GHz -36.	64 dBm 10 dBm	∆ Lim	it dB	716.00 <u>Auto</u>	2000 MI Mi
tart 3.3	inge 3 3	<b>Start Freq</b> 3.3250 GH 3.4450 GH 3.4490 GH	z 3.4 z 3.4 z 3.4	450 G 490 G 500 G	Hz Hz Hz	1.000 MHz 510.0 kHz 360.0 kHz	3.355200000 C 3.448886667 C 3.449996667 C	GHz -34.0 GHz -36. GHz -35.1	64 dBm 10 dBm 20 dBm	Δ Lim -21.64 -23.10 -22.20	it dB dB dB	716.00 <u>Auto</u>	2000 MI M eq Offs
1	inge 3 3	<b>Start Freq</b> 3.3250 GH 3.4450 GH	z 3.4 z 3.4 z 3.4	450 G 490 G	Hz Hz Hz	1.000 MHz 510.0 kHz 360.0 kHz	3.355200000 0 3.448886667 0	GHz -34.0 GHz -36. GHz -35.1	64 dBm 10 dBm 20 dBm	∆ Lim -21.64 -23.10	it dB dB dB	716.00 <u>Auto</u>	2000 MI M eq Offs
tart 3.3	inge 3 3	<b>Start Freq</b> 3.3250 GH 3.4450 GH 3.4490 GH	z 3.4 z 3.4 z 3.4	450 G 490 G 500 G	Hz Hz Hz	1.000 MHz 510.0 kHz 360.0 kHz	3.355200000 C 3.448886667 C 3.449996667 C	GHz -34.0 GHz -36. GHz -35.1	64 dBm 10 dBm 20 dBm	Δ Lim -21.64 -23.10 -22.20	it dB dB dB	716.00 <u>Auto</u>	

Plot 7-147. Lower ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-3)



Plot 7-148. Upper ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-3)

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RL	6.4	₹ 50 Ω te:LO	DC C	DRREC	Trig:	SENSE:INT r Freq: 3.500010 Free Run	0000 GHz	ALIGN AUTO	06:32:50 Radio Sto	PM Oct 14, 2022 d: None	Frequency	
ASS	S Car		IF	Gain:Lov	w #Atter	n: 32 dB			Radio De	vice: BTS		
0 dB≀ .∘g <b>Γ</b>	/div	Ref 30.00	dBm					_		_		
20.0											Center	Fre
10.0											3.500010000	
).00												
0.0									· · · · · · · · · · · · · · · · · · ·	)		
0.0												
30.0												
10.0				mon	ano ano	~				hanna		
50.0 🏲		and the second s		1		<u>.</u>						
60.0												
. L									Ston	3.575 GHz		
itart	3 3 2 5 6	- 117							otop -		CFS	
itart	3.325 C	GHz									716.002000	
		Start Freq	Stop		RBW	Frequency		olitude	∆ Limit		716.002000	
Spur	Range	Start Freq 3.3250 GHz	3.445	0 GHz	1.000 MHz	3.426200000	GHz -42.6	8 dBm	-29.68 d		716.002000	
Spur	Range 1 2	<b>Start Freq</b> 3.3250 GHz 3.4450 GHz	3.445 3.449	0 GHz 0 GHz	1.000 MHz 510.0 kHz	3.426200000 3.445173333	GHz -42.6 GHz -45.6	68 dBm 68 dBm	-29.68 d -32.68 d	В	716.002000	Ma
Spur	Range 1 2 3	<b>Start Freq</b> <b>3.3250 GHz</b> 3.4450 GHz 3.4490 GHz	3.445 3.449 3.450	0 GHz 0 GHz 0 GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.426200000 3.445173333 3.449935000	GHz -42.6 GHz -45.6 GHz -45.5	68 dBm 68 dBm 65 dBm	-29.68 d -32.68 d -32.55 d	B B	716.002000 <u>Auto</u> Freq Of	Ma
Spur	Range 1 2	<b>Start Freq</b> 3.3250 GHz 3.4450 GHz	3.445 3.449	0 GHz 0 GHz 0 GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.426200000 3.445173333	GHz -42.6 GHz -45.6 GHz -45.5	68 dBm 68 dBm 65 dBm	-29.68 d -32.68 d	B B	716.002000 <u>Auto</u> Freq Of	Ma ffs
Spur	Range 1 2 3	<b>Start Freq</b> <b>3.3250 GHz</b> 3.4450 GHz 3.4490 GHz	3.445 3.449 3.450	0 GHz 0 GHz 0 GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.426200000 3.445173333 3.449935000	GHz -42.6 GHz -45.6 GHz -45.5	68 dBm 68 dBm 65 dBm	-29.68 d -32.68 d -32.55 d	B B	716.002000 <u>Auto</u> Freq Of	Ma ffs(
Spur	Range 1 2 3	<b>Start Freq</b> <b>3.3250 GHz</b> 3.4450 GHz 3.4490 GHz	3.445 3.449 3.450	0 GHz 0 GHz 0 GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.426200000 3.445173333 3.449935000	GHz -42.6 GHz -45.6 GHz -45.5	68 dBm 68 dBm 65 dBm	-29.68 d -32.68 d -32.55 d	B B	716.002000 <u>Auto</u> Freq Of	Ma ffs
Spur	Range 1 2 3	<b>Start Freq</b> <b>3.3250 GHz</b> 3.4450 GHz 3.4490 GHz	3.445 3.449 3.450	0 GHz 0 GHz 0 GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.426200000 3.445173333 3.449935000	GHz -42.6 GHz -45.6 GHz -45.5	68 dBm 68 dBm 65 dBm	-29.68 d -32.68 d -32.55 d	B B	716.002000 <u>Auto</u> Freq Of	Ma ffs
Spur	Range 1 2 3	<b>Start Freq</b> <b>3.3250 GHz</b> 3.4450 GHz 3.4490 GHz	3.445 3.449 3.450	0 GHz 0 GHz 0 GHz	1.000 MHz 510.0 kHz 360.0 kHz	3.426200000 3.445173333 3.449935000	GHz -42.6 GHz -45.6 GHz -45.5	68 dBm 68 dBm 65 dBm	-29.68 d -32.68 d -32.55 d	B B	716.002000 <u>Auto</u> Freq Of	Ma ffs

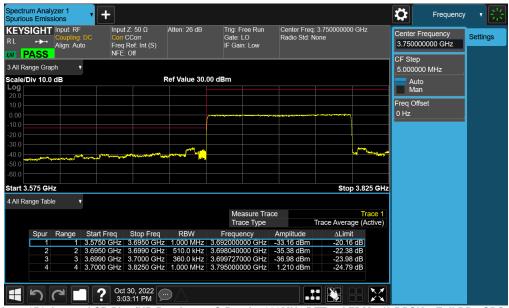
Plot 7-149. Lower ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-4)



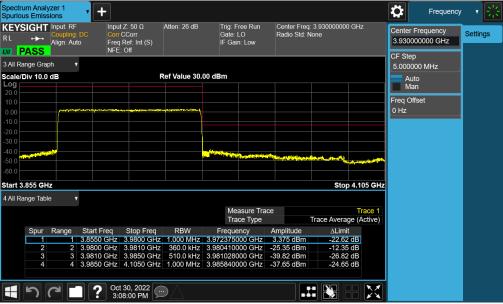
Plot 7-150. Upper ACP Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-4)

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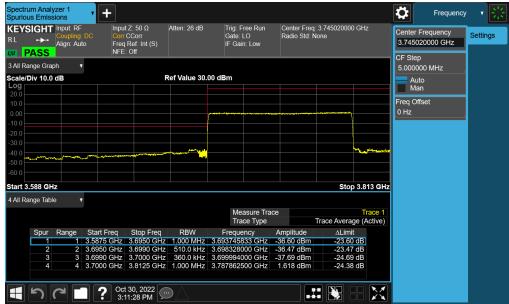
Plot 7-151. Lower ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



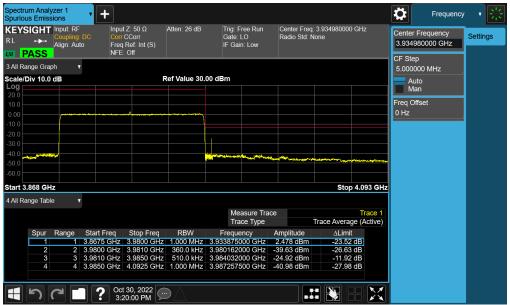
Plot 7-152. Upper ACP Plot (NR Band n77 - C-Band – 100MHz CP-OFDM QPSK – Full RB - SRS-1)

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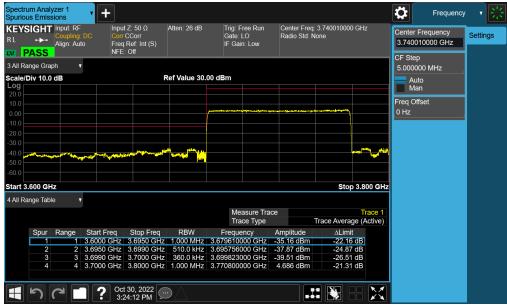
Plot 7-153. Lower ACP Plot (NR Band n77 - C-Band – 90MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



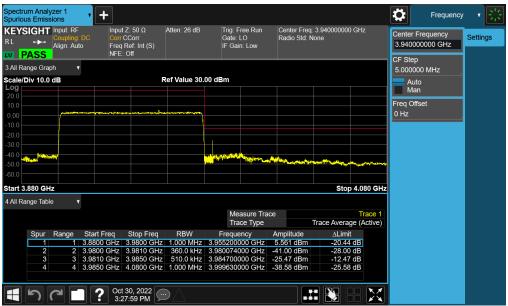
Plot 7-154. Upper ACP Plot (NR Band n77 - C-Band – 90MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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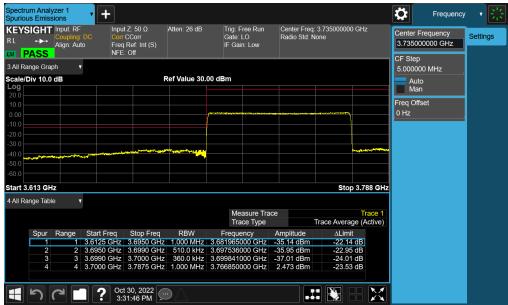
Plot 7-155. Lower ACP Plot (NR Band n77 - C-Band – 80MHz CP-OFDM π/2 BPSK – Full RB - SRS-1)



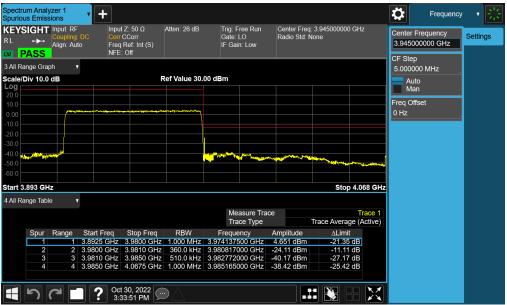
Plot 7-156. Upper ACP Plot (NR Band n77 - C-Band – 80MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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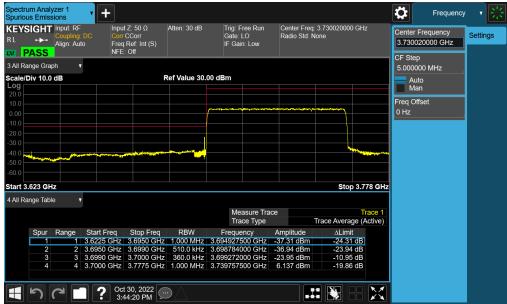
Plot 7-157. Lower ACP Plot (NR Band n77 - C-Band – 70MHz CP-OFDM QPSK – Full RB - SRS-1)



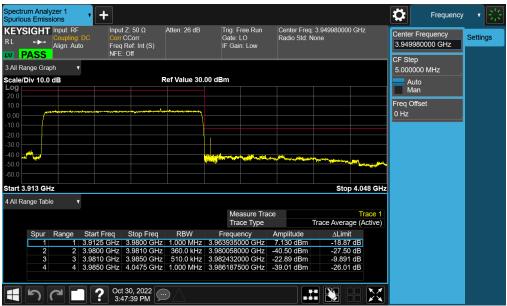
Plot 7-158. Upper ACP Plot (NR Band n77 - C-Band – 70MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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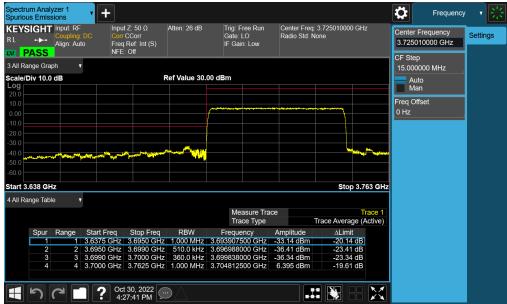
Plot 7-159. Lower ACP Plot (NR Band n77 - C-Band – 60MHz CP-OFDM QPSK – Full RB - SRS-1)



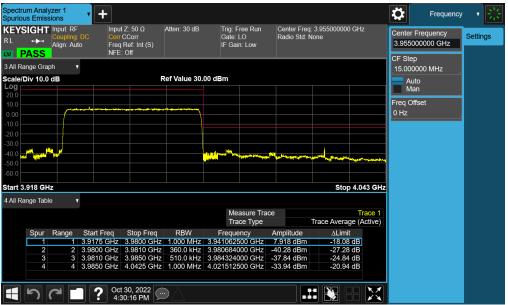
Plot 7-160. Upper ACP Plot (NR Band n77 - C-Band – 60MHz CP-OFDM QPSK – Full RB - SRS-1)

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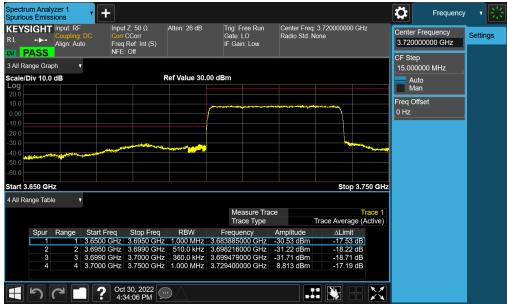
Plot 7-161. Lower ACP Plot (NR Band n77 - C-Band – 50MHz CP-OFDM QPSK – Full RB - SRS-1)



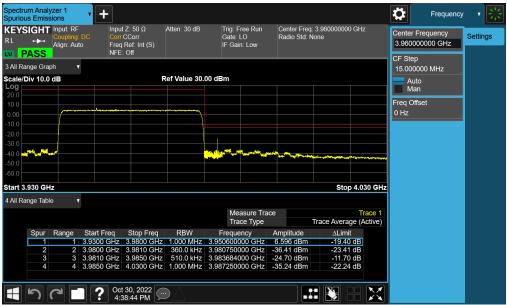
Plot 7-162. Upper ACP Plot (NR Band n77 - C-Band – 50MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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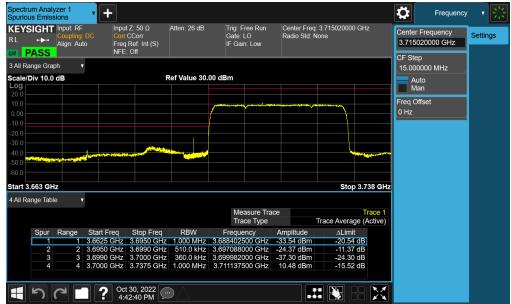
Plot 7-163. Lower ACP Plot (NR Band n77 - C-Band – 40MHz CP-OFDM QPSK – Full RB - SRS-1)



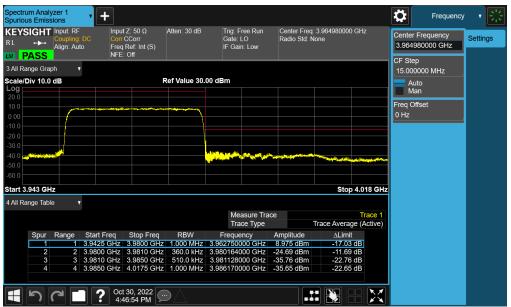
Plot 7-164. Upper ACP Plot (NR Band n77 - C-Band – 40MHz CP-OFDM QPSK – Full RB - SRS-1)

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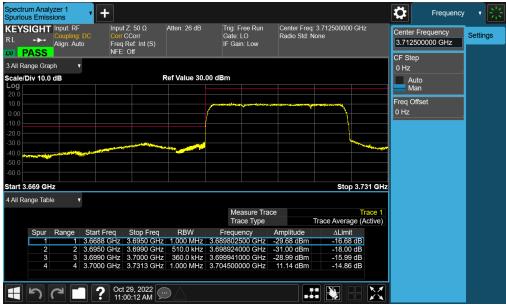
Plot 7-165. Lower ACP Plot (NR Band n77 - C-Band – 30MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



Plot 7-166. Upper ACP Plot (NR Band n77 - C-Band – 30MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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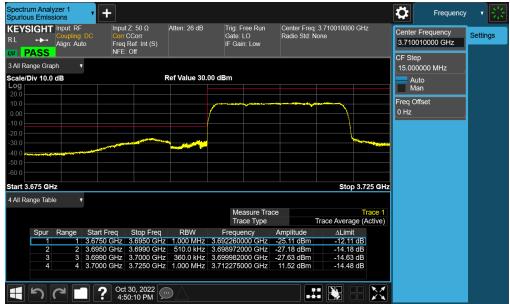
Plot 7-167. Lower ACP Plot (NR Band n77 - C-Band – 25MHz CP QPSK – Full RB - SRS-1)



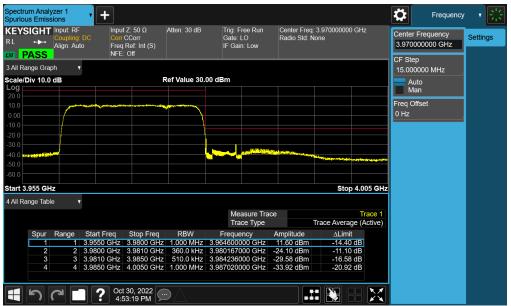
Plot 7-168. Upper ACP Plot (NR Band n77 - C-Band – 25MHz CP QPSK – Full RB - SRS-1)

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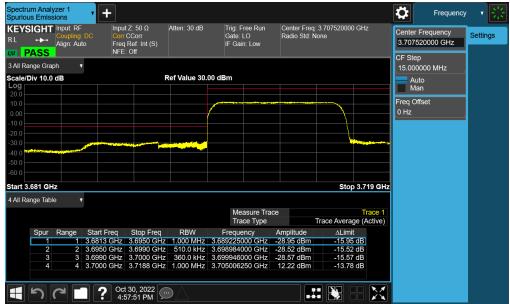
Plot 7-169. Lower ACP Plot (NR Band n77 - C-Band – 20MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



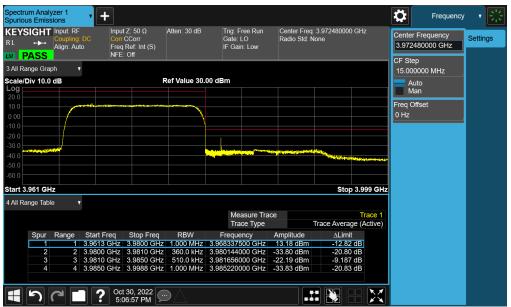
Plot 7-170. Upper ACP Plot (NR Band n77 - C-Band – 20MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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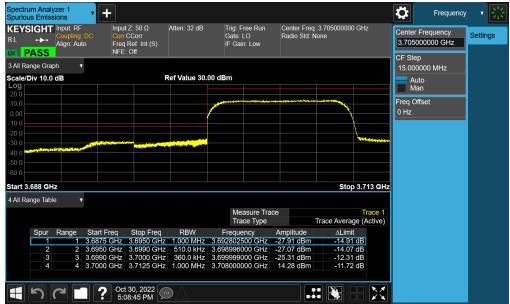
Plot 7-171. Lower ACP Plot (NR Band n77 - C-Band – 15MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



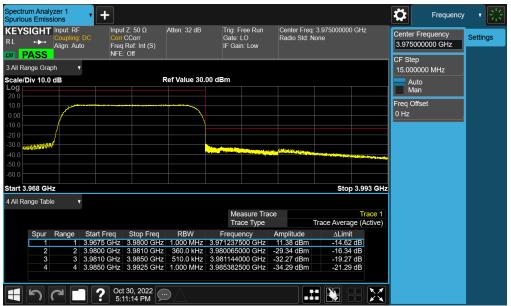
Plot 7-172. Upper ACP Plot (NR Band n77 - C-Band – 15MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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Plot 7-173. Lower ACP Plot (NR Band n77 - C-Band – 10MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)



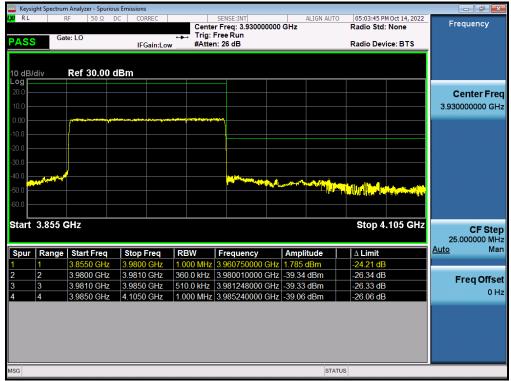
Plot 7-174. Upper ACP Plot (NR Band n77 - C-Band – 10MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-1)

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Keysight Sp RL	RF Gate:	50	Ω	DC	COR		••		er Fre		000 0		ALIGN AUTO	Radio	o Std:	M Oct 14, 2022	Fr	equency
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Spur   Ra	nge	Start Fi	reg	S	top F	req	RE	3W	Fr	equency		Ampli	tude	ΔLi	mit		Auto 25	M:
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2		8.6950			6990					98920000 G					)9 dB			Freq Offs
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SG	_	_	_	_	_	_	_				_	_	STATU	s	_			

Plot 7-175. Lower ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM  $\pi/2$  BPSK – Full RB - SRS-2)



Plot 7-176. Upper ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-2)

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PASS  Outer Los  IFGain:Low  #Atten: 26 dB  Radio Device: BTS    10 dB/div  Ref 30.00 dBm  Image: Start St	RL	R			RREC		SENSE:INT r Freq: 3.75000 Free Run	0000 GHz	ALIGN AUTO	09:10:41 A Radio Std	M Oct 08, 2022 : None	Frequency
Org    Image    Start Freq    Stop Freq    RBW    Frequency    Amplitude    Δ Limit    Δ Limit <thδ limit<="" th="">    Δ Limit    <th< th=""><th>ASS</th><th>Gat</th><th>e: LO</th><th>IF</th><th>Gain:Low</th><th></th><th></th><th></th><th></th><th>Radio Dev</th><th>vice: BTS</th><th></th></th<></thδ>	ASS	Gat	e: LO	IF	Gain:Low					Radio Dev	vice: BTS	
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Image    Start    Stop    Frequency    Amplitude    △ Limit    Auto      1    3.575 GHz    Stop    Stop </td <td></td> <td>Westing a fear adde</td> <td></td>											Westing a fear adde	
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tart    3.575 GHz    Stop 3.825 GHz    CF      spur    Range    Start Freq    Stop Freq    RBW    Frequency    Amplitude    Δ Limit    Auto      1    3.5750 GHz    3.6950 GHz    3.6950 GHz    1.000 MHz    3.69200000 GHz    37.60 dBm    -24.60 dB    Freq    Freq      2    3.6950 GHz    3.6990 GHz    510.0 kHz    3.699852000 GHz    -37.07 dBm    -24.48 dB    Freq    Freq	0.0 📲	and the second second	1.11000 Contraction									
Cr    Cr<	0.0											
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pur    Range    Start Freq    Stop Freq    RBW    Frequency    Amplitude    A Limit    Auto      1    3.5750 GHz    3.6950 GHz    1.000 MHz    3.693200000 GHz    -37.60 dBm    -24.60 dB    -24.60 dB    -24.80 dB    -24.48 dB    -24.48 dB    Frequence	tart	3.575 G	HZ							Stop 3	.825 GHZ	CF S 25.000000
1    3.5750 GHz    3.6950 GHz    1.000 MHz    3.693200000 GHz    37.60 dBm    -24.60 dB      2    3.6950 GHz    3.6990 GHz    510.0 kHz    3.698908000 GHz    -37.48 dBm    -24.48 dB    Freq 0      3    3.6990 GHz    3.7000 GHz    360.0 kHz    3.699852000 GHz    -37.07 dBm    -24.07 dB    Freq 0			Start Freq	Stop	Frea	RBW	Frequency	Ampl	itude	∆ Limit		
3 3.6990 GHz 3.7000 GHz 360.0 kHz 3.699852000 GHz -37.07 dBm -24.07 dB	bur	Rande									}	
3 3.6990 GHz 3.7000 GHz 360.0 kHz 3.699852000 GHz 37.07 dBm -24.07 dB	pur	Range	3.5750 GHz	. 3.0950			2 600000000	011- 07.40		24 40 dF	2	Erea Of
	pur	1			) GHz	510.0 kHz	3.096906000	GHZ  -37.48	a a Billi	-24.40 UE	,	
4 3.7000 GHz 3.8250 GHz 1.000 MHz 3.794750000 GHz 3.434 dBm -22.57 dB	pur	1 2 3	3.6950 GHz 3.6990 GHz	3.6990 3.7000						-24.07 dE	3	· · · · · · · · · · · · · · · · · · ·
	ur	1 2 3	3.6950 GHz	3.6990 3.7000	) GHz	360.0 kHz	3.699852000	GHz -37.07	′ dBm		3	
	pur	1 2 3	3.6950 GHz 3.6990 GHz	3.6990 3.7000	) GHz	360.0 kHz	3.699852000	GHz -37.07	′ dBm	-24.07 dE	3	· · · · · · · · · · · · · · · · · · ·
	pur	1 2 3	3.6950 GHz 3.6990 GHz	3.6990 3.7000	) GHz	360.0 kHz	3.699852000	GHz -37.07	′ dBm	-24.07 dE	3	· · · · · · · · · · · · · · · · · · ·

Plot 7-177. Lower ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-3)



Plot 7-178. Upper ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-3)

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RL RL	ht Spectrum R Gat			DC	COR	REC	w the second	Trig:	SENSE:INT r Freq: 3.78 Free Run n: 26 dB	5000000	) GHz	ALIGN AUTO	Radio	o Std:	None	_	quency
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20.0 10.0																	enter Fre 000000 G⊦
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50.0	3.575 G													on 3	925 <b>C</b> U-		
	3.373 G	PΠZ											50	op 3.	.825 GHz		CF Ste
Spur	Range				top F		RB		Frequen		Ampl		ΔLi			<u>Auto</u>	M
		3.5750			6950				3.6944000					51 dB			
		3.6950 3.6990			6990 7000				3.6989440					11 dB 20 dB		F	req Offs
	-	3.6990			7000 8250				3.69999920					20 dB 51 dB			01

Plot 7-179. Lower ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-4)



Plot 7-180. Upper ACP Plot (NR Band n77 - C-Band – 100MHz DFT-s-OFDM π/2 BPSK – Full RB - SRS-4)

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### 7.6 Peak-Average Ratio

### **Test Overview**

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

### The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

### Test Procedure Used

ANSI C63.26-2015 - Section 5.2.3.4

### **Test Settings**

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW ≥ OBW or specified reference bandwidth
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-5. Test Instrument & Measurement Setup

#### Test Notes

The Peak to Average Ratio was only measured on the antenna (SRS-1) with the highest power for each band.

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# NR Band n77 (PC2) - DoD Band



Plot 7-181. PAR Plot (NR Band n77 - DoD Band – 100MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-182. PAR Plot (NR Band n77 - DoD Band – 100MHz CP-OFDM QPSK - Full RB)

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Plot 7-183. PAR Plot (NR Band n77 - DoD Band – 100MHz CP-OFDM 256-QAM - Full RB)



Plot 7-184. PAR Plot (NR Band n77 - DoD Band – 90MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-185. PAR Plot (NR Band n77 - DoD Band – 90MHz CP-OFDM QPSK - Full RB)



Plot 7-186. PAR Plot (NR Band n77 - DoD Band – 90MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-187. PAR Plot (NR Band n77 - DoD Band – 80MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-188. PAR Plot (NR Band n77 - DoD Band – 80MHz CP-OFDM QPSK - Full RB)

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Plot 7-189. PAR Plot (NR Band n77 - DoD Band – 80MHz CP-OFDM 256-QAM - Full RB)



Plot 7-190. PAR Plot (NR Band n77 - DoD Band – 70MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-191. PAR Plot (NR Band n77 - DoD Band – 70MHz CP-OFDM QPSK - Full RB)



Plot 7-192. PAR Plot (NR Band n77 - DoD Band – 70MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-193. PAR Plot (NR Band n77 - DoD Band – 60MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-194. PAR Plot (NR Band n77 - DoD Band – 60MHz CP-OFDM QPSK - Full RB)

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Plot 7-195. PAR Plot (NR Band n77 - DoD Band – 60MHz CP-OFDM 256-QAM - Full RB)



Plot 7-196. PAR Plot (NR Band n77 - DoD Band – 50MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-197. PAR Plot (NR Band n77 - DoD Band – 50MHz CP-OFDM QPSK - Full RB)



Plot 7-198. PAR Plot (NR Band n77 - DoD Band – 50MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-199. PAR Plot (NR Band n77 - DoD Band – 40MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-200. PAR Plot (NR Band n77 - DoD Band – 40MHz CP-OFDM QPSK - Full RB)

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Plot 7-201. PAR Plot (NR Band n77 - DoD Band – 40MHz CP-OFDM 256-QAM - Full RB)



Plot 7-202. PAR Plot (NR Band n77 - DoD Band – 30MHz DFT-s-OFDM π/2 BPSK - Full RB)

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Plot 7-203. PAR Plot (NR Band n77 - DoD Band – 30MHz CP-OFDM QPSK - Full RB)



Plot 7-204. PAR Plot (NR Band n77 - DoD Band – 30MHz CP-OFDM 256-QAM - Full RB)

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Plot 7-205. PAR Plot (NR Band n77 - DoD Band – 25MHz DFT-s-OFDM π/2 BPSK - Full RB)



Plot 7-206. PAR Plot (NR Band n77 - DoD Band – 25MHz CP-OFDM QPSK - Full RB)

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