

Plot 7-540. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-541. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-542. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-543. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	um Analyzer - Swept SA								_	
LXI RL	RF 50 Ω DC	CORREC		ISE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	4 Jun 23, 2020 E 1 2 3 4 5 6	F	requency
		PNO: Wide 🖵 IFGain:Low	Trig: Free Atten: 36				TYF De			
10 dB/div	Ref 25.00 dBm					Mk	r1 2.315 -34.	02 GHz 53 dBm		Auto Tune
15.0										Center Freq 15000000 GHz
-5.00	man man and a second	^a ynte Master a star a star	man						2.3	Start Freq 10000000 GHz
-15.0								DL1 -13.00 dBm	2.32	Stop Freq 20000000 GHz
-35.0			<u>J</u>	1	and the second second	ann aige in grand ages	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Mananan	<u>Auto</u>	CF Step 1.000000 MHz Man
-45.0										Freq Offset 0 Hz
-65.0										Scale Type
Center 2.31 #Res BW 12		#VBW	430 kHz			Sweep	Span 1 5.000 ms (0.00 MHz 1001 pts)	Log	<u>Lin</u>
MSG						STATI				

Plot 7-544. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

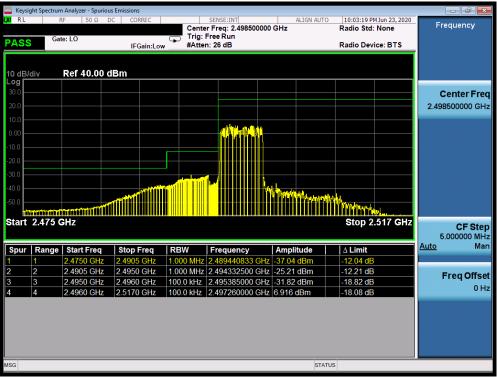


Plot 7-545. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - Full RB Configuration)

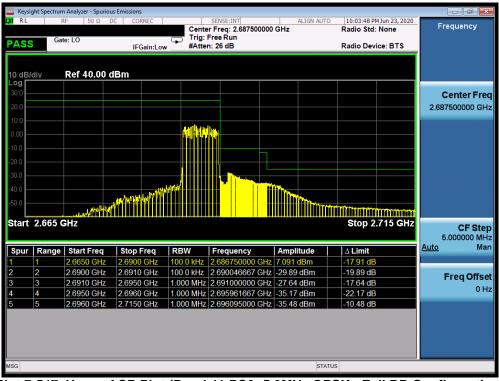
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Band 41 PC2



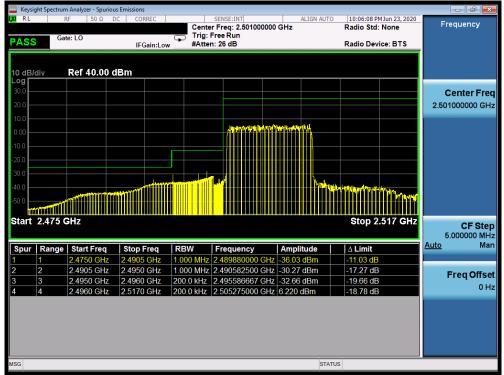
Plot 7-546. Lower ACP Plot at 2496 MHz (Band 41 PC2- 5.0MHz QPSK - Full RB Configuration)



Plot 7-547. Upper ACP Plot (Band 41 PC2- 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMF916U	PCTEST Irout 6 by pet d	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-548. Lower ACP Plot at 2496 MHz (Band 41 PC2- 10.0MHz QPSK - Full RB Configuration)



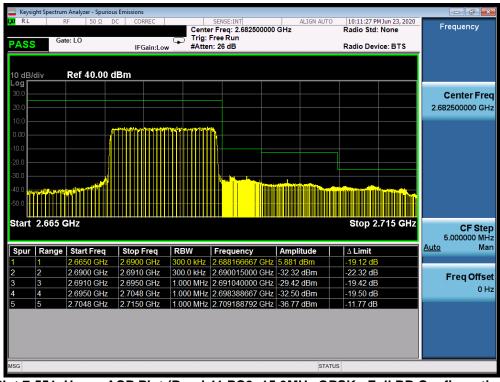
Plot 7-549. Upper ACP Plot (Band 41 PC2- 10.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Plot 7-550. Lower ACP Plot at 2496 MHz (Band 41 PC2- 15.0MHz QPSK - Full RB Configuration)



Plot 7-551. Upper ACP Plot (Band 41 PC2- 15.0MHz QPSK - Full RB Configuration)

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Plot 7-552. Lower ACP Plot at 2496 MHz (Band 41 PC2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-553. Upper ACP Plot (Band 41 PC2 - 20.0MHz QPSK - Full RB Configuration)

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Band 7



Plot 7-554. Lower Band Edge Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-555. Upper Band Edge Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	MSUNG	Approved by: Quality Manager
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	ectrum Analyzer - Spur												
X/RL	RF 50 Ω	DC COR	REC	Cente	SENSE:INT r Freq: 2.53	5000000		ALIGN AUTO		1:34 AM	Jun 24, 2020	Fr	equency
PASS				Trig: I	Free Run		0112						
PASS		IFG	ain:Low	#Atter	n: 26 dB				Radio	o Devi	ce: BTS		
10 dB/div	Ref 40.00	dBm											
Log 30.0													
													enter Free
20.0												2.53	5000000 GH
10.0					-		water from						
0.00													
-10.0			_										
-20.0													
-30.0					in de la companya de			without to be	h				
-40.0			in the second second					- In Manuth	dyner raytyra	Ň,	L. L. Linkson		
-50.0		and the second second								C. C.	an all a sta		
-30.0													
Start 2.4	75 GHz								Sto	op 2.	525 GHz		CF Step
												6	.000000 MH
	nge Start Freg				1 -							A	Mai
Spur Ra	nge i stan Freq	Stop F	req	RBW	Frequence	У	Ampl	itude	ΔLi	mit		Auto	Ividi
Spur Rai	2.4750 GHz				2.4900350	· · · · · · · · · · · · · · · · · · ·				mit)7 dB		Auto	Wat
		z 2.4905	GHz	1.000 MHz		00 GHz	-38.07	dBm	-13.0				
1 1 2 2 3 3	2.4750 GHz 2.4905 GHz 2.4960 GHz	z 2.4905 z 2.4960 z 2.4990	GHz GHz GHz	1.000 MHz 1.000 MHz 1.000 MHz	2.49003500 2.49494583 2.49886000	00 GHz 33 GHz 00 GHz	- <mark>38.07</mark> -26.39 -22.41	dBm dBm dBm	-13.0 -13.3 -12.4	07 dB 89 dB 1 dB			Freq Offse
1 1 2 2	2.4750 GHz 2.4905 GHz	z 2.4905 z 2.4960 z 2.4990 z 2.5000	GHz GHz GHz GHz	1.000 MHz 1.000 MHz 1.000 MHz 180.0 kHz	2.4900350 2.4949458	00 GHz 33 GHz 00 GHz 00 GHz	-38.07 -26.39 -22.41 -27.73	dBm dBm dBm dBm	-13.0 -13.3 -12.4 -17.7	07 dB 89 dB			Freq Offse

Plot 7-556. Lower Band Edge Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-557. Upper Band Edge Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

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Keysight Sp	pectrum Analyzer - Sp					CONCE INT			ITO	12:40:02 4	M hus 24, 2020		- 6 🔀
KL RL	RF 50 Ω	2 DC	CORREC		Cente	SENSE:INT r Freq: 2.535000	0000 0	ALIGN AL	110	Radio Std	M Jun 24, 2020	Free	quency
PASS				Ģ		Free Run 1: 26 dB				Radio Dev			
-A33			IFGain:	Low	#Atter	1: 26 dB				Radio Dev	/ice: BTS	-	
10 dB/div Log	Ref 40.0	00 dBm											
30.0												Ce	nter Fre
20.0													00000 GH
10.0												2.0000	00000 011
						wanter	ومرجوعاتهم	กละจะเห ประว ศาจจะจะจะ	n m				
0.00													
-10.0									-				
-20.0						<u>.</u>			t				
-30.0					1100 P	"// "			ų	weether Logister the	alla and a second		
-40.0			New York Com								"Hunderste		
-50.0		and a											
Start 2.4	75 GHz									Stop 2	2.525 GHz		CF Ste
Start 2.4										Stop 2	2.525 GHz		CF Stej 00000 MH
	175 GHz ange Start Fre		op Freq			Frequency		Amplitude		∆ Limit		5.0 <u>Auto</u>	
Spur Ra	ange Start Fre 2.4750 G	Hz 2.4	905 GHz	z 1.00	0 MHz	2.490267500 0	GHz -	34.05 dBm		∆ Limit -9.048 dE	3		00000 MH
Spur R a 1 1 2 2	Ange Start Fre 2.4750 GI 2.4905 GI	Hz 2.4 Hz 2.4	905 GHz 960 GHz	z 1.00 z 1.00	0 MHz 0 MHz	2.490267500 (2.495569167 (GHz - GHz -	34.05 dBm 26.71 dBm		∆ Limit -9.048 dE -13.71 dE	3 3	<u>Auto</u>	00000 MH Ma
Spur Ra 1 1 2 2 3 3	ange Start Fre 2.4750 GI 2.4905 GI 2.4960 GI	Hz 2.4 Hz 2.4 Hz 2.4	905 GH2 960 GH2 990 GH2	z 1.00 z 1.00 z 1.00	0 MHz 0 MHz 0 MHz	2.490267500 (2.495569167 (2.498770000 (GHz - GHz - GHz -	34.05 dBm 26.71 dBm 21.55 dBm		△ Limit -9.048 dE -13.71 dE -11.55 dE	3 3 3 3	<u>Auto</u>	00000 MH
Spur R a 1 1 2 2	Ange Start Fre 2.4750 GI 2.4905 GI	Iz 2.4 Iz 2.4 Iz 2.4 Iz 2.4 Iz 2.5	905 GHz 960 GHz	z 1.00 z 1.00 z 1.00 z 270.	0 MHz 0 MHz 0 MHz 0 MHz 0 kHz	2.490267500 (2.495569167 (GHz - GHz - GHz - GHz -	34.05 dBm 26.71 dBm 21.55 dBm 26.09 dBm		∆ Limit -9.048 dE -13.71 dE	3 3 3 3 3	<u>Auto</u>	00000 MH Ma req Offse

Plot 7-558. Lower Band Edge Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-559. Upper Band Edge Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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		Analyzer - Spu												
L <mark>XI</mark> RL	R	F 50 Ω	DC	CORREC		Conto	SENSE:INT r Freq: 21.0000	0000		ALIGN AUTO		:41 AM Jun 24, 2020 Std: None	Free	quency
_							Free Run	0000	GHZ		Raulo	sta. None		
PASS	<u> </u>			IFGain:L	ow 📩	#Atte	n: 26 dB				Radio	Device: BTS		
10 dB/o	div	Ref 40.00) dBm											
Log 30.0														
														enter Freq
20.0 —													21.0000	00000 GHz
10.0														
0.00							provide	a filler	****	Marin States of the	and you have been seen as a second			
-10.0														
-20.0 —														
-30.0														
			A Martin	LL			μ <mark>γ</mark> μ					ALC: NO. OF STREET		
-40.0			AT THE		NIG ST									
-50.0		م مسمح الحدد												
	0.475.0											- 0.505 011-		
Start	2.475 0	PΠZ									510	p 2.525 GHz	1.2000	CF Step
Spur	Range	Start Freq	Sto	op Freq	RE	3W	Frequency		Ampli	tude	∆ Lin	nit	<u>Auto</u>	Mar
1	1	2.4750 GH	z 2.49	905 GHz	1.0	00 MHz	2.490112500	GHz	-33.41	dBm	-8.40	6 dB		
2		2.4905 GH	z 2.49	960 GHz	1.0	00 MHz	2.495862500	GHz	-27.57	dBm	-14.5		Er	eq Offse
3		2.4960 GH		990 GHz			2.498770000				-13.5			0 Hz
4		2.4990 GH		000 GHz			2.499980000				-17.6			0 112
5	5	2.5000 GH	z 2.52	250 GHz	24().0 kHz	2.513458333	GHz	3.655	dBm	-21.3	4 dB		
ISG										STAT	us			
											_			

Plot 7-560. Lower Band Edge Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-561. Upper Band Edge Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

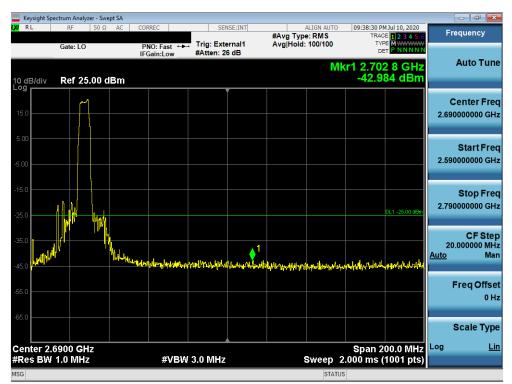
FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Band 38

	ctrum Analy	zer - Swep	ot SA										
LX/IRL	RF	50 <u>Ω</u>	AC	CORREC			NSE:INT	#Avg Typ			53 PM Jul 10, 2020 TRACE 1 2 3 4 5 6	F	requency
	Gate: LO			PNO: F IFGain:	ast ⊶⊷ Low	Trig: Exte #Atten: 2		Avg Hold	: 100/100				
10 dB/div	Ref 25	i.00 di	Bm						M	lkr1 2.4 -43	495 8 GHz .219 dBm		Auto Tune
15.0											р- 1		Center Freq 7000000 GHz
-5.00												2.39	Start Freq 7000000 GHz
-15.0										- dula	DL1 -25.00 dBm	2.59	Stop Freq 7000000 GHz
-35.0		مالي سايله	u halunta ata		e.h. i.h.	alada wa und	1	Lus Madesia	adwa Willia M		NY ANNA	20 <u>Auto</u>	CF Step 0.000000 MHz Man
-55.0	Inclusion for				an Indian	inika ili kuna (he a	a -a siyan siyar ku						Freq Offset 0 Hz
-65.0													Scale Type
Center 2.4 #Res BW					#VBW	3.0 MHz			Sweep		n 200.0 MHz Is (1001 pts)		<u>Lin</u>
MSG									STAT				

Plot 7-562. Lower Band Edge Plot (Band 38 - 5.0MHz QPSK - Full RB Configuration)



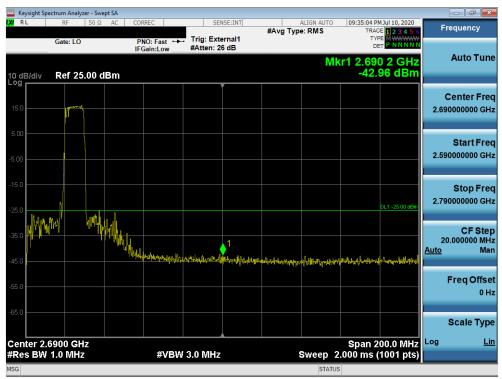
Plot 7-563. Upper Band Edge Plot (Band 38 - 5.0MHz QPSK - Full RB Configuration)

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	ctrum Analyzer - Sw									
LX/ RL	RF 50 Ω	AC CO	RREC	SEI	NSE:INT	#Ava T	ALIGN AUTO		M Jul 10, 2020 DE 1 2 3 4 5 6	Frequency
10 dB/div	Gate: LO Ref 25.00 (IF	NO: Fast 🕞 Gain:Low	Trig: Exte #Atten: 2		_	M	DE kr1 2.49	6 0 GHz 17 dBm	Auto Tune
15.0									*	Center Freq 2.496000000 GHz
-5.00										Start Freq 2.396000000 GHz
-15.0								н	DL1 -25.00 dBm	Stop Freq 2.596000000 GHz
-35.0	al new particular statistical	yelmorphismethy	upwingtheyted	helmelings	1 Haray Markella	the dead	moundan	, WH, AND Y'		CF Step 20.000000 MHz <u>Auto</u> Man
-55.0										Freq Offset 0 Hz
-65.0 Center 2.4	1060 CH7							Snan 2	200.0 MHz	Scale Type
#Res BW			#VBW	3.0 MHz			Sweep 2	2.000 ms ((1001 pts)	
MSG							STATU			

Plot 7-564. Lower Band Edge Plot (Band 38 - 10.0MHz QPSK - Full RB Configuration)



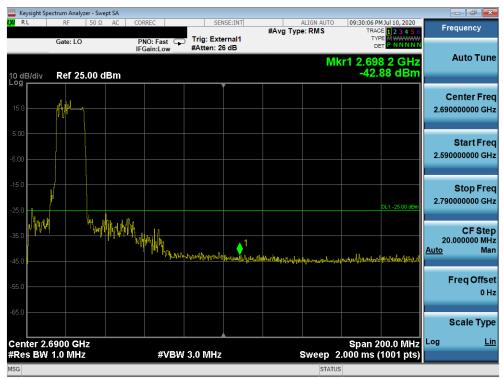
Plot 7-565. Upper Band Edge Plot (Band 38 - 10.0MHz QPSK - Full RB Configuration)

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	ctrum Analyzer - Sw									
LXI RL	RF 50 Ω	AC CO	RREC		NSE:INT	#Avg T	ALIGN AUTO ype: RMS		M Jul 10, 2020 DE 1 2 3 4 5 6	Frequency
10 dB/div	Gate: LO Ref 25.00 c	IF	NO: Fast 🕞 Gain:Low	Trig: Exte #Atten: 2			MI	⊳ (r1 2.49	5 2 GHz 77 dBm	Auto Tune
15.0										Center Freq 2.496000000 GHz
-5.00										Start Freq 2.396000000 GHz
-15.0									DL1 -25.00 dBm	Stop Freq 2.596000000 GHz
-35.0	and apply the second	hardanhad	An international states and the states of th	an je ^{gg} angpiljen jekse	1 indigitilitations*	ulwydd allof far A	MANNA	Malling of the second	W	CF Step 20.000000 MHz <u>Auto</u> Man
-55.0										Freq Offset 0 Hz
-65.0										Scale Type
Center 2.4 #Res BW			#VBW	3.0 MHz			Sweep 2	Span 2 2.000 ms	00.0 MHz (1001 pts)	Log <u>Lin</u>
MSG							STATU			

Plot 7-566. Lower Band Edge Plot (Band 38 - 15.0MHz QPSK - Full RB Configuration)



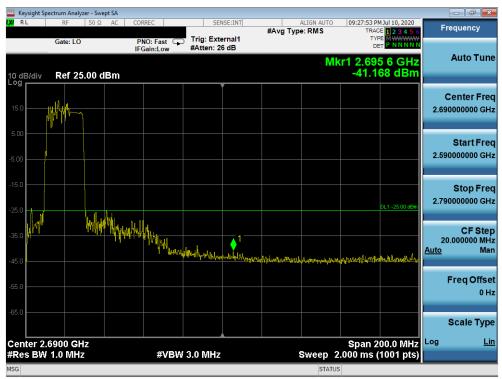
Plot 7-567. Upper Band Edge Plot (Band 38 - 15.0MHz QPSK - Full RB Configuration)

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	ectrum Analyzer - Sw									
LXVI RL	RF 50 Ω	AC C	ORREC	SEN	ISE:INT	#Avg Typ	ALIGN AUTO		M Jul 10, 2020 DE 1 2 3 4 5 6	Frequency
10 dB/div Log	Gate: LO Ref 25.00 c		PNO: Fast 🖵 FGain:Low	Trig: Exte #Atten: 20		Avg Hold	l:>100/100	۲۲ ۲۵ (r1 2.49	1 4 GHz 43 dBm	Auto Tune
15.0										Center Fred 2.496000000 GH
-5.00										Start Free 2.396000000 GH
-15.0								L 1 1 4 11 11	DL1 -25.00 dBm	Stop Free 2.596000000 GH
-35.0	Walsy John Hallshington and	(BABAMA AND AND AND AND AND AND AND AND AND AN	Maghtan Jafikashan aya	nutering and	wellought	where the start of	pp/Mdzpvft	1.4.1.14 4"	M	CF Step 20.000000 MH <u>Auto</u> Mar
-55.0										Freq Offse 0 H
-65.0										Scale Type
Center 2.4 #Res BW			#VBW	3.0 MHz			Sweep 2	Span 2 .000 ms	200.0 MHz (1001 pts)	Log <u>Liı</u>
MSG							STATUS			

Plot 7-568. Lower Band Edge Plot (Band 38 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-569. Upper Band Edge Plot (Band 38 - 20.0MHz QPSK - Full RB Configuration)

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NR Band n41



Plot 7-570. Lower ACP Plot (NR Band n41 - 20MHz CP-OFDM-QPSK – Full RB)



Plot 7-571. Upper ACP Plot (NR Band n41 - 20MHz CP-OFDM-QPSK - Full RB)

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Plot 7-572. Lower ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK - Full RB)



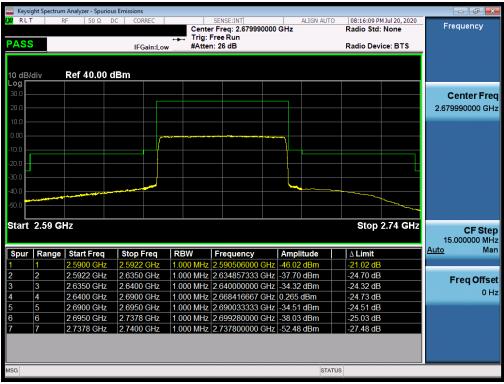
Plot 7-573. Upper ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK – Full RB)

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RLT			50 Ω			RREC		Cente Trig:	r Fr	ISE:INT eq: 2.5 Run	06020	000 (GHz	AL	LIGN AUTO				MJul 20, 2020 None		Frequency
ASS	S				IFO	Gain:L		#Atte								R	adio	Dev	ice: BTS		
0 dB/	div	Ref 4	0.00	dBi	n																
.og [Τ							
30.0						-															Center Fre
20.0																				2.5	606020000 GH
10.0																					
0.00																					
10.0												-	_ ۲								
20.0																					
30.0						Í															
40.0					and the second second	-										-	~				
50.0				1																	
			_/																		
Start	2.446 0	SHz															Sto	p 2	.596 GHz		CF Ste
																					15.000000 MH
Spur	Range	Start	Freq	\$	stop	req	RBW	1	Fr	equen	су		Amp	litu	ude		4 Lim	it		Auto	Ma
	1	2.4460			4905					90055		_					14.26				
-	2	2.4905			4950					95000						_	23.35				Freq Offs
3	3	2.4950			4960					95961							24.75				0 -
	4	2.4960			5460					11583							26.92				
)	5	2.5460			5510					46816						_	22.39				
) /	6 7	2.5510			.5938 .5960					51000 94130							21.22 16.63				
		2.3930	GHZ	2	0900	GHZ	1.000	WITZ	2.0	94130	000 G	ΠZ	41.03	50	DIT	-	10.0.	aD			
						_	 _		-			_		-	STATU	_	_	-			

Plot 7-574. Lower ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK - Full RB)



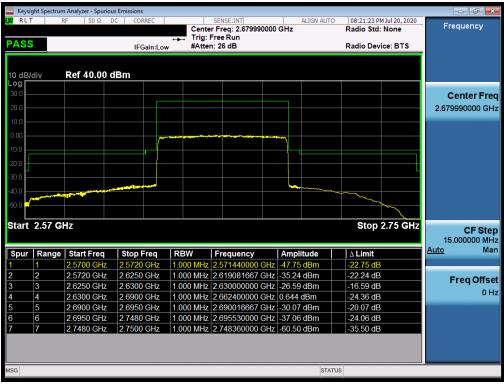
Plot 7-575. Upper ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK – Full RB)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Frequency
Contor Fro
Center Fre
2.506020000 GH
CF Ste 15.000000 MH
Auto Ma
Freq Offse
0 H

Plot 7-576. Lower ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK - Full RB)



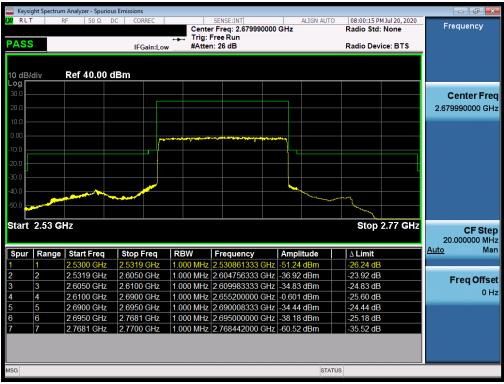
Plot 7-577. Upper ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK – Full RB)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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	ight Spectrum																			
XI RLT	I F	F 50	Ω D(C COI	RREC		Cer		ENSE:INT	06020	000 (GHz	ALIG	N AUTO			MJul 20, 20 I: None	020	F	requency
PASS						G	🗧 Trig	: Fre	ee Run 26 dB											
PAOC	<u> </u>			IFO	Gain:L	ow	#At	ten: :	26 dB						Rad	IO Dev	vice: BTS	, 		
10 dB/	/div	Ref 40.	.00 d	Bm																
Log 30.0																				Center Fre
20.0																				06020000 GH
																			2.5	06020000 GH
10.0																				
0.00					5	i en			*****		~~~~	~1								
-10.0												┦╌								
-20.0					┝┼─┤															
-30.0													-					_		
-40.0					and a									ward and a start of the start o	<u> </u>	·		_		
-50.0				_														4		
Start	2.416 0	Hz													S	top 2	2.656 G	Hz		CF Ster
																			2	0.000000 MH
Spur	Range	Start Fr	eq	Stop	Freq	F	BW	F	requer	icy	1	Ampl	itud	e	ΔΙ	.imit			<u>Auto</u>	Ma
1	1	2.4160 @	GHz	2.4905	GHz	1.	000 MF	lz 2.	490500	000 G	Hz	37.86	6 dBi	n	-12	.86 dE	3			
2	2	2.4905 0	GHz	2.4950	GHz	1.	000 MH	Iz 2.	495000	1000 G	Hz	34.46	dBr	n	-21	.46 dE	3			Freq Offse
3	3	2.4950 0	Hz	2.4960	GHz	82	20.0 kH	z. 2.	495973	333 G	Hz	34.66	6 dBr	n	-21	.66 dE	3			0 H
4	4	2.4960		2.5760	GHz	_			526800						-26	.16 dE	3			UH
5	5	2.5760 0	GHz	2.5810	GHz	1.	000 MH	z 2.	576283	333 G	Hz	32.63	dBi	n	-22	.63 dE	3			
6	6	2.5810		2.6541	GHz	1.	000 MH	z 2.	612433	6000 G	Hz	30.74	dBr	n	-17	.74 dE	3			
7	7	2.6541 0	SHz	2.6560	GHz	1.	000 MH	z 2.	654214	000 G	Hz	45.17	dBr	n	-20	.17 dE	3			
			_		_	_	_	_	_	_	_	_	_			_				
SG														STATUS						

Plot 7-578. Lower ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK - Full RB)



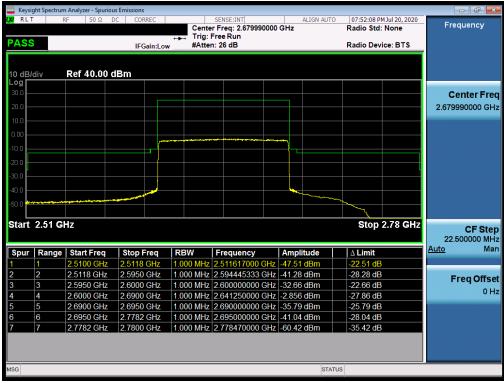
Plot 7-579. Upper ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK – Full RB)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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	TR	n Analyzer - Spurio RF 50 Ω		RREC		SENSE:INT r Freq: 2.50602 Free Run	0000 GH		ALIGN AUTO			PM Jul 20, 2020 d: None	Freque	ency
PAS	s		IFO	Gain:Low		n: 26 dB				Ra	idio De	vice: BTS		
10 dB	div	Ref 40.00	dBm											
Log														_
30.0														er Fre
20.0													2.506020	000 GH
10.0														
0.00														
-10.0														
-20.0														
-30.0														
-40.0			1						·	+				
-50.0			_/_											
L Start	2.406 G	247									Stop '	2.676 GHz		
Jan	2.400 0	9112									Stop /	2.070 GHZ	22.500	CF Ste 000 MH
Spur	Range	Start Freq	Stop	req	RBW	Frequency	A	mpli	itude	Δ	Limit		Auto	Ma
4		2.4060 GHz	2.4905			2.490359167					3.51 d			
	2	2.4905 GHz	2.4950			2.494790000					4.43 d		Free	Offse
2				GHz	910.0 kHz	2.496000000	GHz - 32	2.04		-1	9.04 d			он
2 3	3	2.4950 GHz	2.4960											
4	3 4	2.4960 GHz	2.5860	GHz	1.000 MHz	2.516850000					8.18 d			
2 3 4 5	3 4 5	2.4960 GHz 2.5860 GHz	2.5860 2.5910	GHz GHz	1.000 MHz 1.000 MHz	2.586000000	GHz -3	5.61	dBm	-2	5.61 d	В		
4	3 4 5 6	2.4960 GHz 2.5860 GHz 2.5910 GHz	2.5860 2.5910 2.6742	GHz GHz GHz	1.000 MHz 1.000 MHz 1.000 MHz	2.586000000 2.591000000	GHz -39 GHz -39	5.61 9.43	dBm dBm	-2 -2	5.61 d 6.43 d	B B		
4 5	3 4 5	2.4960 GHz 2.5860 GHz	2.5860 2.5910	GHz GHz GHz	1.000 MHz 1.000 MHz 1.000 MHz	2.586000000	GHz -39 GHz -39	5.61 9.43	dBm dBm	-2 -2	5.61 d	B B		
4 5	3 4 5 6	2.4960 GHz 2.5860 GHz 2.5910 GHz	2.5860 2.5910 2.6742	GHz GHz GHz	1.000 MHz 1.000 MHz 1.000 MHz	2.586000000 2.591000000	GHz -39 GHz -39	5.61 9.43	dBm dBm	-2 -2	5.61 d 6.43 d	B B		

Plot 7-580. Lower ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK – Full RB)



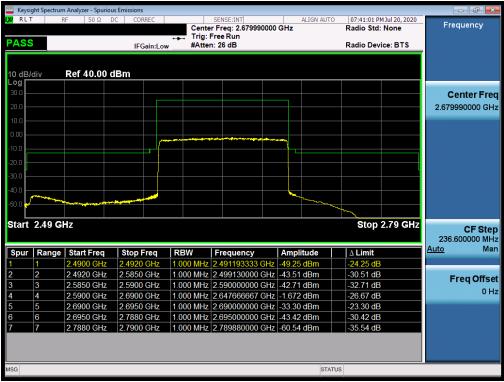
Plot 7-581. Upper ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK – Full RB)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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		n Analyzer - Spu			-									
X/ RL1	I R	F 50 Ω	DC	CORRE	C	Cent	SENSE:INT er Freg: 2.5060	020000	GHz	ALIGN AUTO		1 PM Jul 20, 2020	Freque	ncy
PASS						+++ Trig:	Free Run							
PASS	<u> </u>			IFGai	n:Low	#Atte	n: 26 dB				Radio I	Device: BTS		
10 dB/	div	Ref 40.0	0 dBn	n										
Log														
30.0													Cente	
20.0													2.5060200	00 GH
10.0												_		
0.00														
-10.0														
-20.0														
-30.0														
-40.0					_									
-50.0				1	<u> </u>									
Start	2.396 0	Hz									Stop) 2.696 GHz	С	F Ster
													236.6000	
Spur	Range	Start Free	g S	top Fre	eq	RBW	Frequency		Amp	litude	∆ Lim	it	<u>Auto</u>	Ma
1	1	2.3960 GH		4905 G		1.000 MHz	2.49002750		-43.36	dBm	-18.36	dB		
2	2	2.4905 GH	lz 2.4	4950 G	Hz	1.000 MHz	2.49482000	0 GHz	-41.50) dBm	-28.50	dB	Erea	Offse
3	3	2.4950 GH	lz 2.4	4960 G	Hz	1.000 MHz	2.49599833	3 GHz	-30.89	dBm	-17.89	dB	Fieq	
4		2.4960 GH		5960 G			2.55266666				-27.52			ОН
5		2.5960 GH		6010 G			2.59604166				-31.65			
6		2.6010 GH		6940 G			2.68656000				-25.48			
7	7	2.6940 GH	lz 2.0	6960 G	Hz	1.000 MHz	2.69408000	0 GHz	-42.3	3 dBm	-17.33	dB		
_			_	_	_			_	_	STATU				

Plot 7-582. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB)



Plot 7-583. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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7.5 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.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 5.7.1

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.

Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

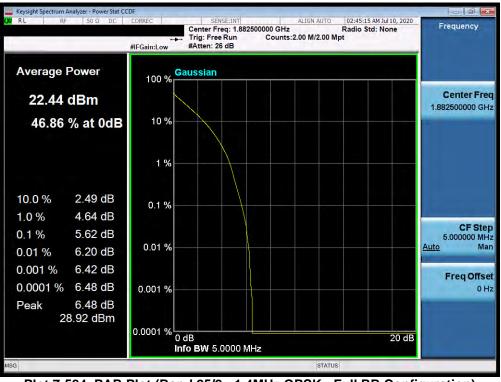
Test Notes

None.

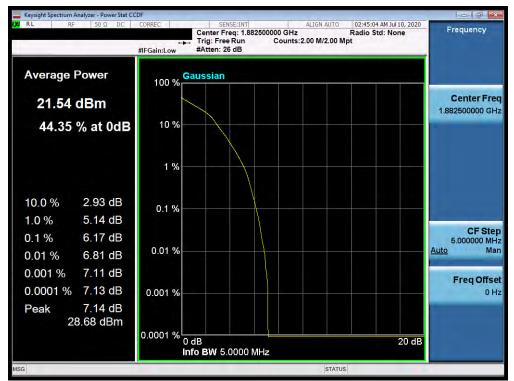
FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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Band 25/2



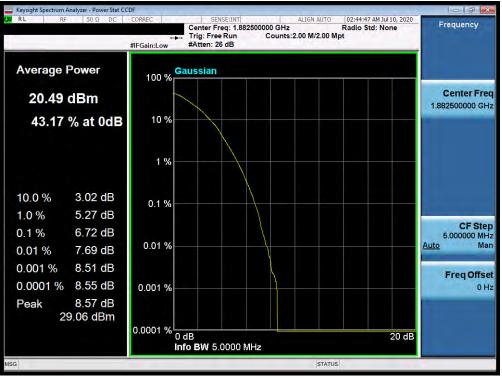
Plot 7-584. PAR Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



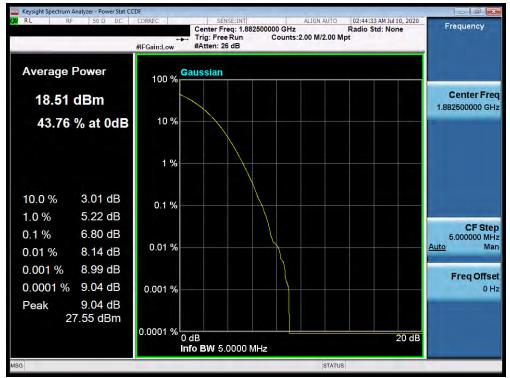
Plot 7-585. PAR Plot (Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF916U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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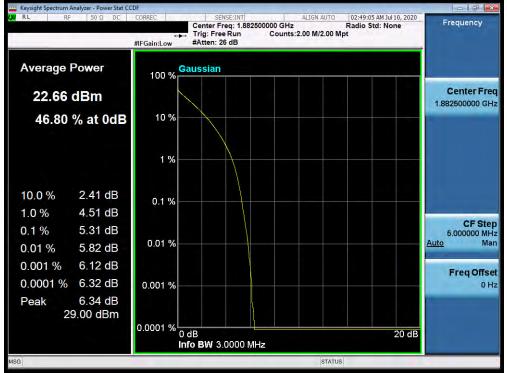
Plot 7-586. PAR Plot (Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)



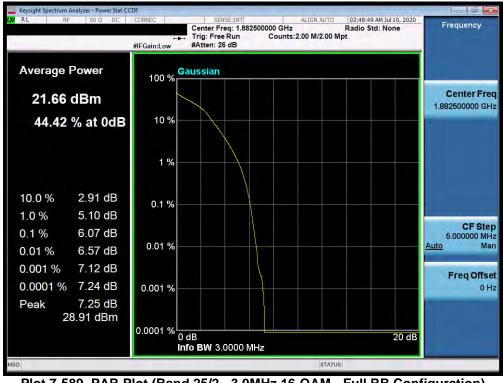
Plot 7-587. PAR Plot (Band 25/2 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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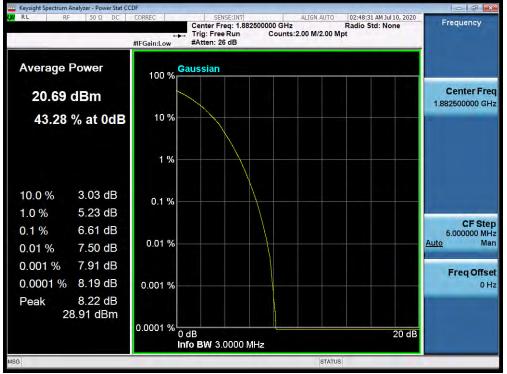




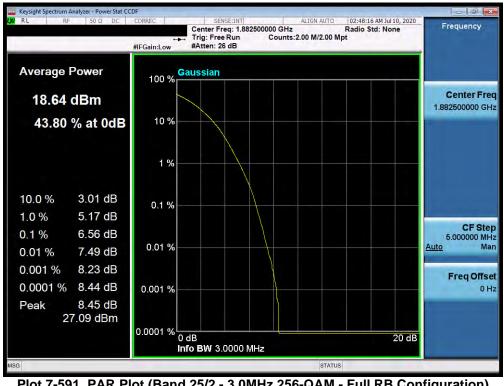
Plot 7-589. PAR Plot (Band 25/2 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
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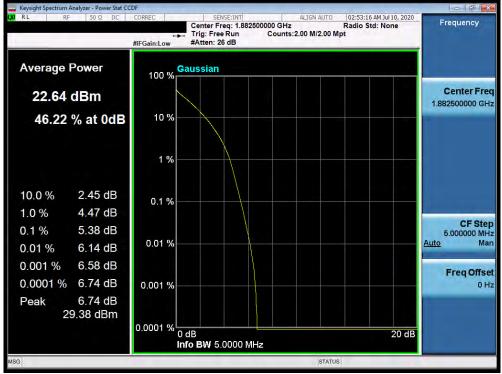
Plot 7-590. PAR Plot (Band 25/2 - 3.0MHz 64-QAM - Full RB Configuration)



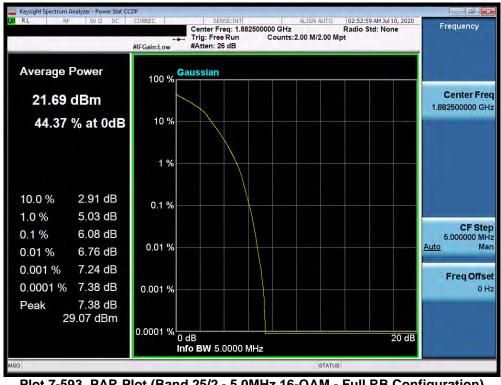
Plot 7-591. PAR Plot (Band 25/2 - 3.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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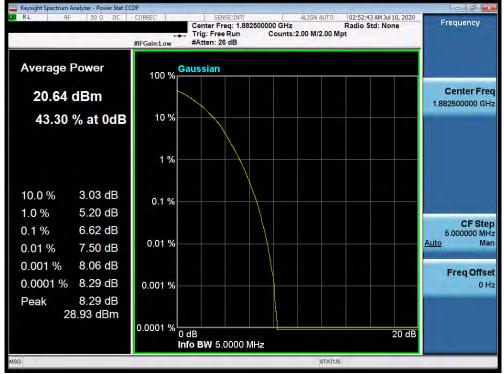
Plot 7-592. PAR Plot (Band 25/2 – 5.0MHz QPSK - Full RB Configuration)



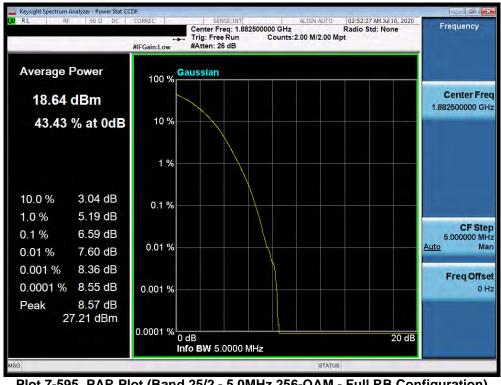
Plot 7-593. PAR Plot (Band 25/2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
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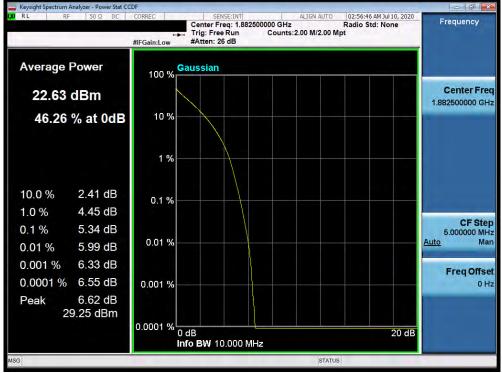




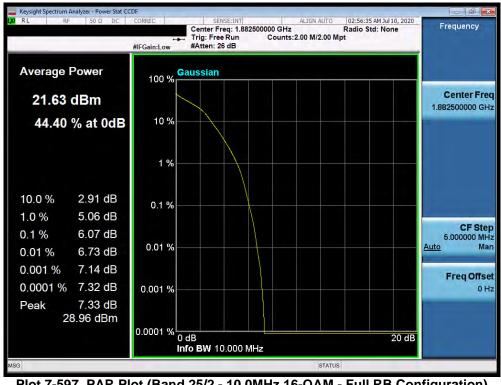
Plot 7-595. PAR Plot (Band 25/2 - 5.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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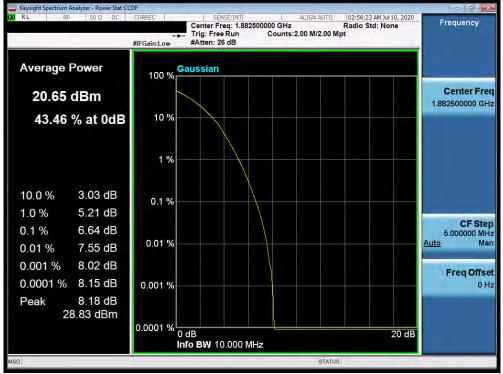
Plot 7-596. PAR Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)



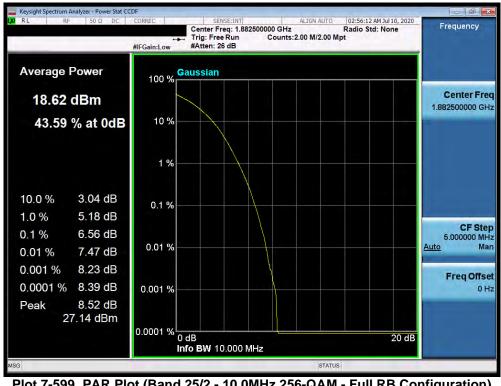
Plot 7-597. PAR Plot (Band 25/2 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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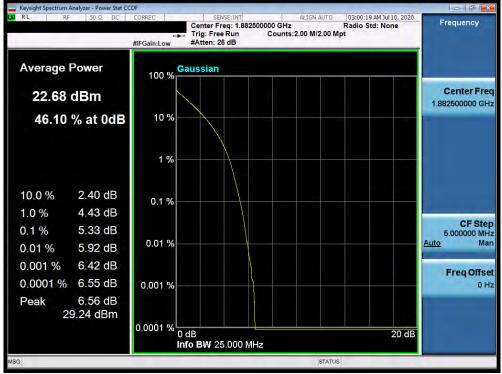




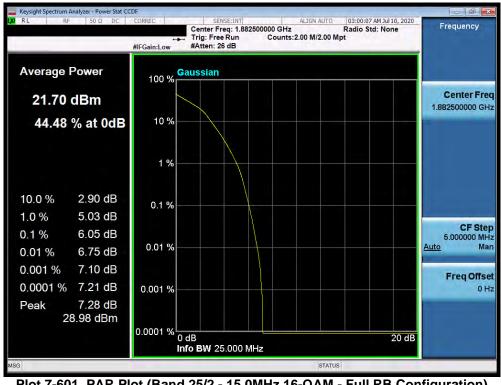
Plot 7-599. PAR Plot (Band 25/2 - 10.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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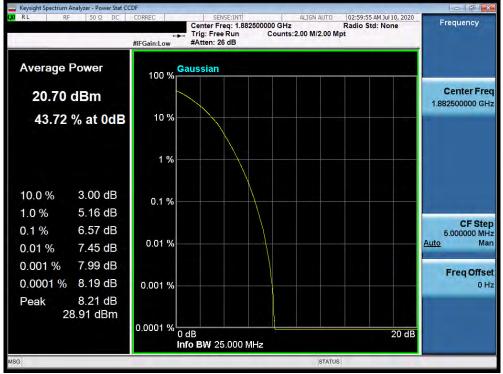




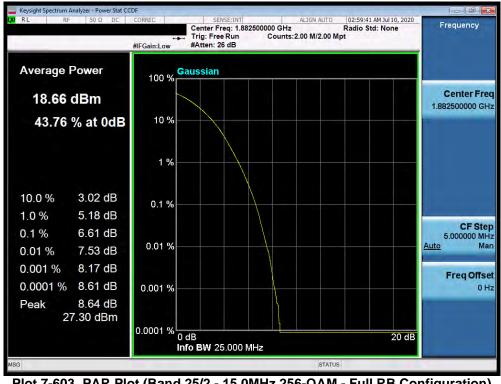
Plot 7-601. PAR Plot (Band 25/2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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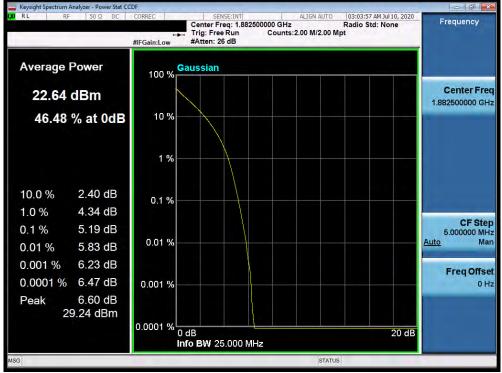




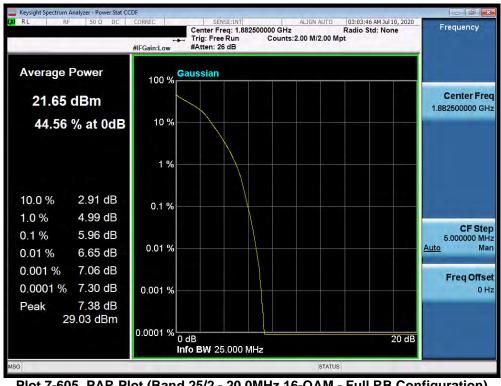
Plot 7-603. PAR Plot (Band 25/2 - 15.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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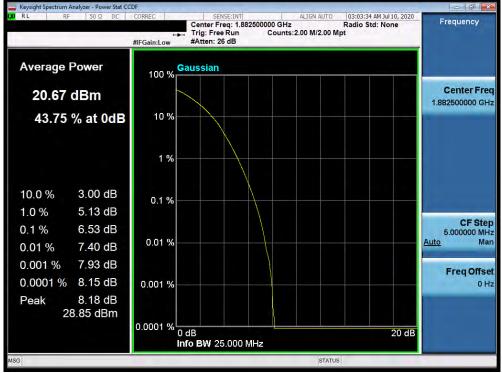
Plot 7-604. PAR Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)



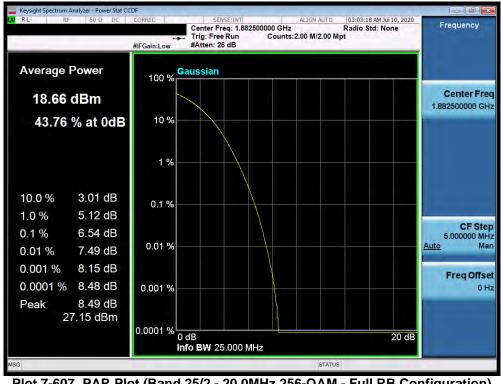
Plot 7-605. PAR Plot (Band 25/2 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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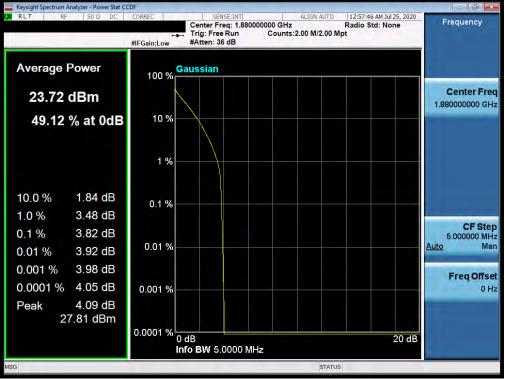


Plot 7-607. PAR Plot (Band 25/2 - 20.0MHz 256-QAM - Full RB Configuration)

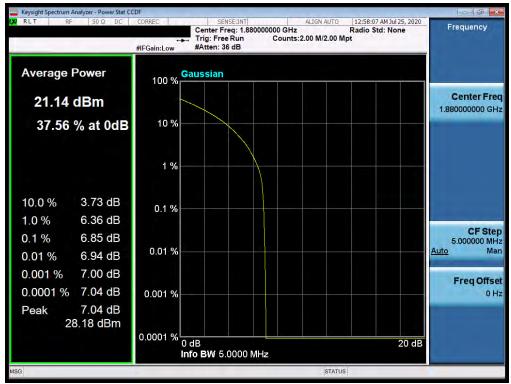
FCC ID: A3LSMF916U		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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NR Band n25/2



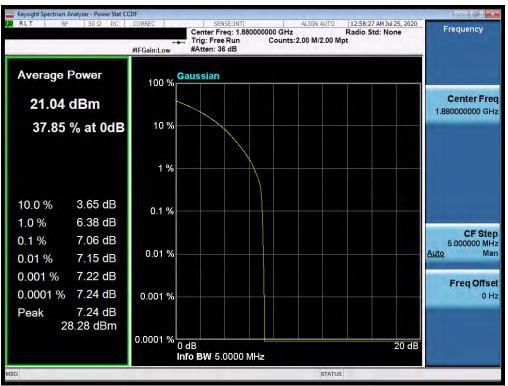
Plot 7-608. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB)



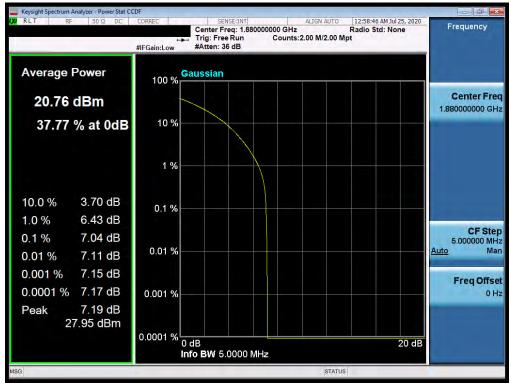
Plot 7-609. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

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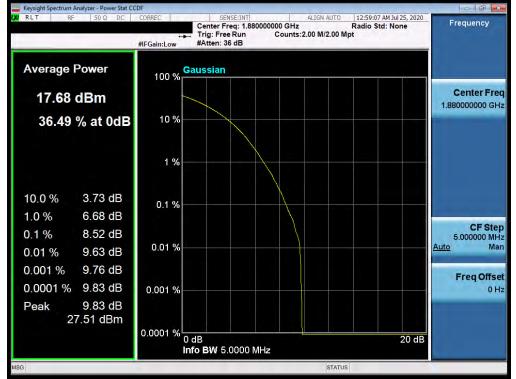
Plot 7-610. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)



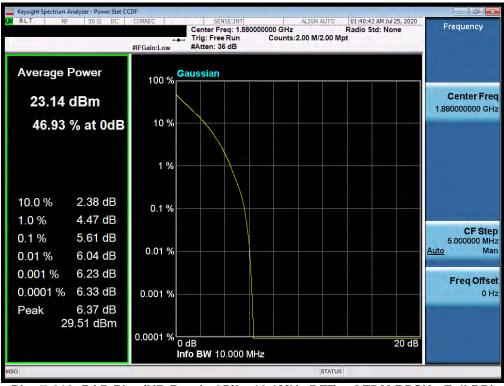
Plot 7-611. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

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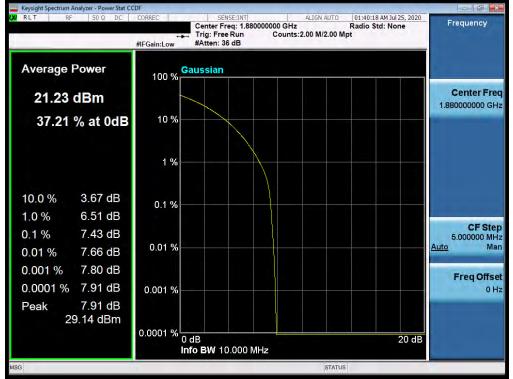
Plot 7-612. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)



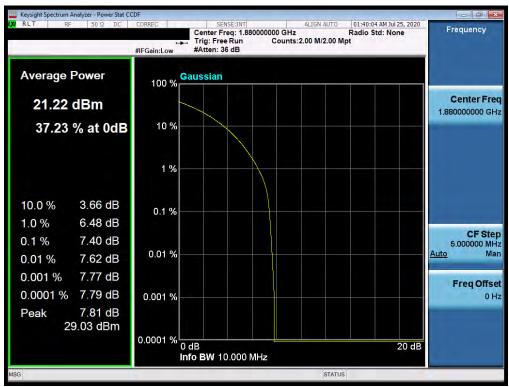
Plot 7-613. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB)

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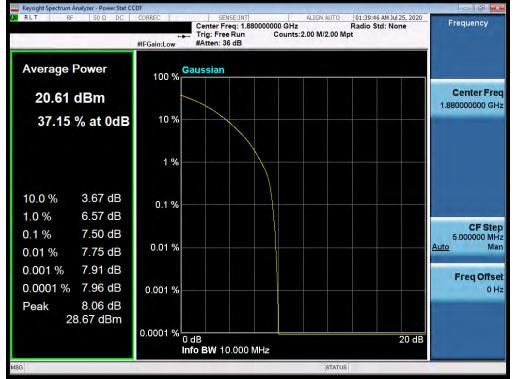
Plot 7-614. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)



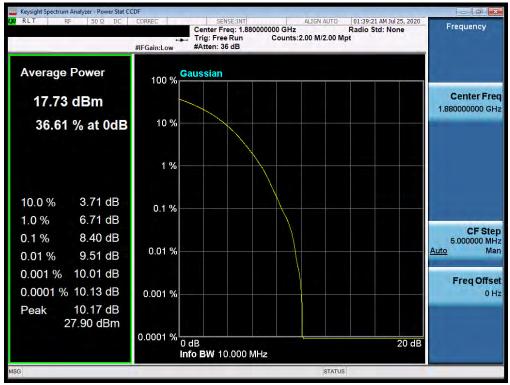
Plot 7-615. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

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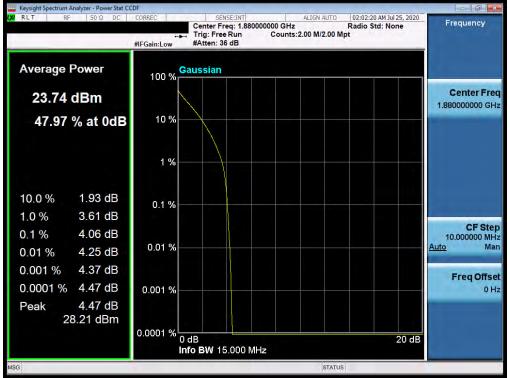
Plot 7-616. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

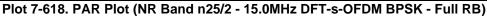


Plot 7-617. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

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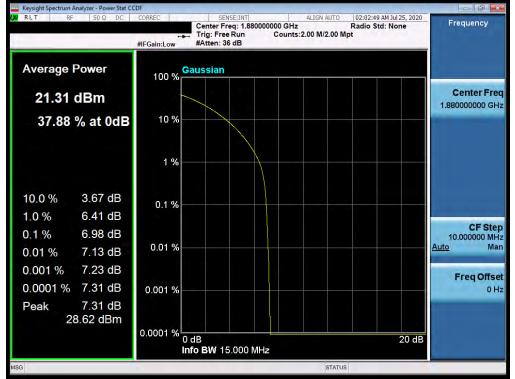




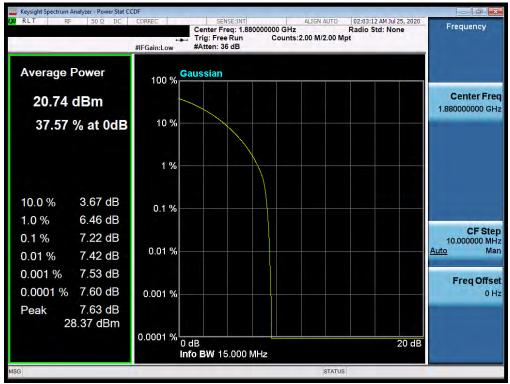
Plot 7-619. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF916U	Hout faite part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNE	Approved by: Quality Manager
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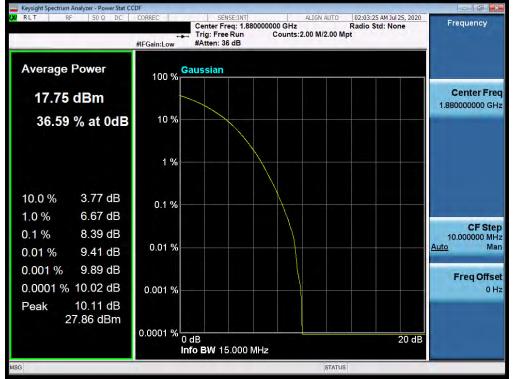
Plot 7-620. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)



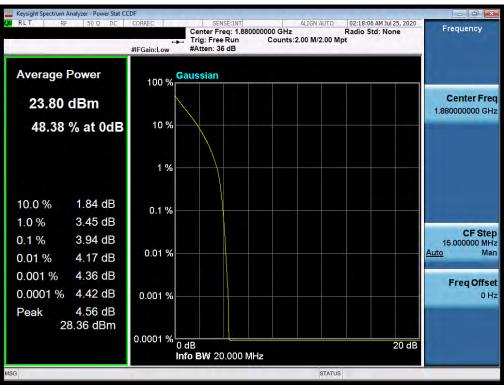
Plot 7-621. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

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Plot 7-622. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)



Plot 7-623. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB)

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