

## NR Band n5



Plot 7-81. Occupied Bandwidth Plot (n5 5MHz BPSK-DFT-s-OFDM - Full RB Configuration)



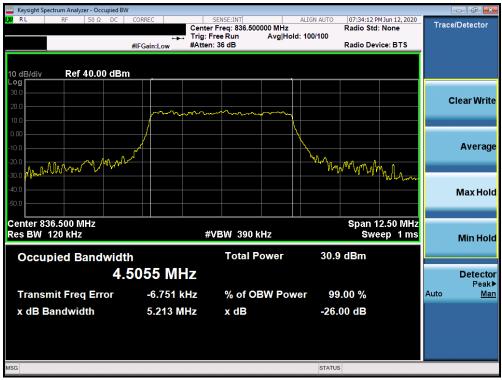
Plot 7-82. Occupied Bandwidth Plot (n5 5MHz QPSK-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble period	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 58 of 467
1M2005040080-03.A3L	05/04 - 07/11/2020	Portable Handset		Fage 58 01 407
© 2020 PCTEST	-			V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied B	W				
<b>LX RL RF 50 Ω DC</b>	CORREC	SENSE:INT	ALIGN AUTO	07:33:59 PM Jun 12	
		enter Freq: 836.5000 rig: Free Run	00 MHz Avg Hold:>100/100	Radio Std: None	The off beteeld
		Atten: 36 dB	Avginola.>100/100	Radio Device: B	тя
	In Guilleow				
10 dB/div Ref 40.00 dB	m				
Log					
30.0					Clear Write
20.0					Cical Write
10.0					
0.00	1				
			X		<b>A</b>
-10.0					Average
-20.0				a DA4	
-20.0 Jan Man an			M	Mm	~~
-40.0					
					Max Hold
-50.0					
Center 836.500 MHz				Onen 43.50	Ball
Res BW 120 kHz		#VBW 390 kH	1-	Span 12.50 Sweep	1 mo
Res BW 120 KH2		#VDW J9UKF	12	Sweep	Min Hold
Occupied Bandwid	<b>4b</b>	Total Po	wor 31.1	dBm	
Occupied Bandwid			Wei 31.1	чыпг	
4	.5261 MHz				Detector
					Peak▶
Transmit Freq Error	-5.139 kHz	% of OB	W Power 99	.00 %	Auto <u>Man</u>
x dB Bandwidth	5.206 MHz	x dB	26	00 dB	
	5.200 MHZ	хав	-20.		
MSG			STATUS	<u> </u>	

Plot 7-83. Occupied Bandwidth Plot (n5 5MHz 16QAM-CP-OFDM - Full RB Configuration)



Plot 7-84. Occupied Bandwidth Plot (n5 5MHz 64QAM-CP-OFDM- Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Prove to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 59 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 59 01 407
© 2020 PCTEST				V 9.0 02/01/2019





Plot 7-85. Occupied Bandwidth Plot (n5 5MHz 256QAM-CP-OFDM- Full RB Configuration)



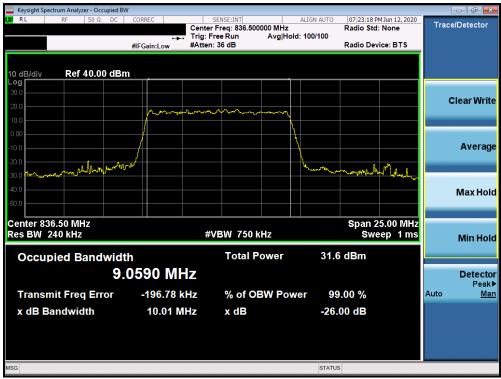
Plot 7-86. Occupied Bandwidth Plot (n5 10MHz BPSK-DFT-s-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 60 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 60 01 467
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupie	ed BW						- # <b>X</b>
<mark>(X)</mark> RL RF 50Ω D		SENSE:INT	ALIGN AUTO		Jun 12, 2020	Tracel	Detector
		nter Freq: 836.500000 MH; g: Free Run Avg H	z lold: 100/100	Radio Std:	None	macen	50100101
		ten: 36 dB		Radio Devi	ce: BTS		
10 dB/div Ref 40.00 d	Bm		•				
30.0							
						CI	ear Write
20.0	and a second and	or and the second and the second s					
10.0							
0.00	<mark>/</mark>						
-10.0							Average
-20.0							-
W m [ wm/]	Y water		Monsomeror	mon	athread		
-30.0 Manuta							
-40.0						1	Max Hold
-50.0							
Center 836.50 MHz					5.00 MHz		
Res BW 240 kHz		#VBW 750 kHz		Swe	ep 1 ms		Min Hold
Occupied Bandwi	idth	Total Power	32.3	3 dBm			
	9.0013 MHz						Detector
							Peak►
Transmit Freq Error	-198.31 kHz	% of OBW Po	ower 99	9.00 %		Auto	Man
x dB Bandwidth	9.942 MHz	x dB	-26.	00 dB			
				-			
MSG			STATU	S			

Plot 7-87. Occupied Bandwidth Plot (n5 10MHz QPSK-CP-OFDM - Full RB Configuration)



Plot 7-88. Occupied Bandwidth Plot (n5 10MHz 16QAM-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Rout ble period	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dege 61 of 467	
1M2005040080-03.A3L	05/04 - 07/11/2020	Portable Handset		Page 61 of 467	
© 2020 PCTEST				V 9.0 02/01/2019	



Keysight Spectrum Analyzer - Occupied BW										
LX/RL RF 50Ω DC COR	REC		SE:INT			ALIGN AUTO		M Jun 12, 2020	Trac	e/Detector
			eq: 836.500			100/100	Radio Std	: None	mac	erbetector
#IE(	Gain:Low	#Atten: 36		~value	oiu.	100/100	Radio Dev	ice: BTS		
	Junie									
10 dB/div Ref 40.00 dBm					_					
30.0										
										Clear Write
20.0	~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m						
10.0										
0.00					L					
-10.0					1					Average
af a						6.0 h	_			Average
-20.0 ml MM word M hummen M.						WW WW	MM MANNAH	⊾ս/1Ու		
-30.0 Mail Mr. 10000 a diri a maari						v	In a Manual A	WY WILLA		
-40.0										Max Hold
-50.0										
-30.0									_	
Center 836.50 MHz					_		Span 2	5.00 MHz		
Res BW 240 kHz		#VB	W 750 k	Hz				ep 1 ms		Min Hold
										Min Hold
Occupied Bandwidth			Total P	ower		30.9	) dBm			
		-								
8.96	03 MI	1Z								Detector
	400 70		0/ of OF			- 00	00.0/		Auto	Peak▶ Man
Transmit Freq Error	198.76		% of OE	SW PO	we	99	.00 %		Auto	<u>Iviari</u>
x dB Bandwidth	9.725 M	Hz	x dB			-26.	00 dB			
MSG						STATUS	5			

Plot 7-89. Occupied Bandwidth Plot (n5 10MHz 64QAM-CP-OFDM- Full RB Configuration)



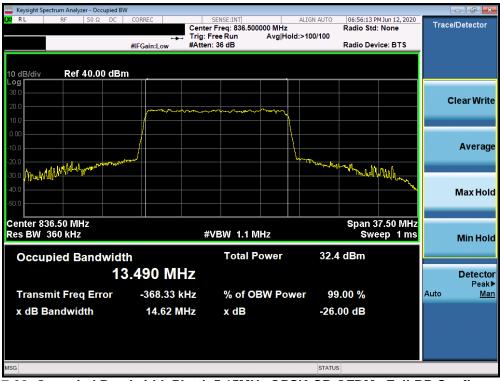
Plot 7-90. Occupied Bandwidth Plot (n5 10MHz 256QAM-CP-OFDM- Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble period	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 62 of 467
1M2005040080-03.A3L	05/04 - 07/11/2020	Portable Handset		Fage 62 01 467
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occup	ied BW				
<b>(X)</b> RL RF 50 Ω	DC CORREC	SENSE:INT enter Freg: 836.500000 MHz	ALIGN AUTO	06:55:22 PM Jun 12, 2 Radio Std: None	020 Trace/Detector
			old: 100/100	Radio Std: None	
		Atten: 36 dB		Radio Device: BTS	
10 dB/div Ref 40.00	dBm				
Log					
30.0					
20.0					Clear Write
10.0		March Marchen			
0.00					
-10.0			have a		Average
-20.0				month wild for the	
-20.0 -30.0				" "Wwwwwwww	
-40.0				۳Ų	Max Hold
-50.0					Max Hold
-50.0					
Center 836.50 MHz				Span 37.50 N	Hz
Res BW 360 kHz		#VBW 1.1 MHz		Sweep 1	
					WIIII HOIG
Occupied Bandw	vidth	Total Power	32.6	dBm	
	13.439 MHz	,			Detector
	13.433 MINZ				Detector Peak►
Transmit Freq Erro	r -373.92 kHz	% of OBW Po	wer 99	.00 %	Auto <u>Man</u>
x dB Bandwidth	14.62 MHz	x dB	-26	00 dB	
	11.02 11112		20.		
MSG			STATUS		

Plot 7-91. Occupied Bandwidth Plot (n5 15MHz BPSK-DFT-s-OFDM - Full RB Configuration)



Plot 7-92. Occupied Bandwidth Plot (n5 15MHz QPSK-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble period	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 63 of 467
1M2005040080-03.A3L	05/04 - 07/11/2020	Portable Handset		Fage 03 01 407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied BW	/				
XX RL RF 50Ω DC		SENSE:INT		06:56:28 PM Jun 12, 2020 adio Std: None	Trace/Detector
		Freq: 836.500000 MHz ree Run Avg Hold	i: 100/100	adio Std: None	
		: 36 dB		adio Device: BTS	
10 dB/div Ref 40.00 dBn					
10 dB/div Ref 40.00 dBn					
30.0					
20.0					Clear Write
10.0	mon	munition			
0.00					
-10.0					Average
-20.0	~		have in	n All-	
-20.0			- It was the second	4 Younger	
-40.0				and the second second	
					Max Hold
-50.0					
Center 836.50 MHz				Span 37.50 MHz	
Res BW 360 kHz	#	VBW 1.1 MHz		Sweep 1 ms	
	"			онсер тиз	Min Hold
Occupied Bandwidt	h	Total Power	31.6 d	Bm	
13	3.501 MHz				Detector Peak▶
Transmit Freq Error	-381.01 kHz	% of OBW Pow	er 99.0	0 %	Auto <u>Man</u>
-					
x dB Bandwidth	14.71 MHz	x dB	-26.00	aB	
MSG			STATUS		

Plot 7-93. Occupied Bandwidth Plot (n5 15MHz 16QAM-CP-OFDM - Full RB Configuration)



Plot 7-94. Occupied Bandwidth Plot (n5 15MHz 64QAM-CP-OFDM- Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proved to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 64 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 64 01 467
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied	BW				
<b>LX RL RF 50 Ω DC</b>		SENSE:INT	ALIGN AUTO	06:57:39 PM Jun 12, 20	20 Trace/Detector
		enter Freq: 836.500000 rig: Free Run A	) MHz Avg Hold: 100/100	Radio Std: None	Theorem
		Atten: 36 dB	avginola. Toortoo	Radio Device: BTS	
10 dB/div Ref 40.00 dE	3m				
30.0					
					Clear Write
20.0					
10.0	pr		~~		
0.00					
-10.0			$  \rangle$		Averag
					Average
-20.0	have		WWW ML	New mary alles in	
-30.0 -30.0	11-01			- more plant and and a straight	
-40.0				- 4	Max Hol
-50.0					
-30.0					
Center 836.50 MHz				Span 37.50 MH	17
Res BW 360 kHz		#VBW 1.1 MHz		Sweep 1 m	
					5 Min Hole
Occupied Bandwig	dth	Total Pov	ver 29.1	dBm	
	3.515 MHz				Detecto
	005 47 111	0/ - C O D I	( D	00 0/	Peak
Transmit Freq Error	-395.47 kHz	% of OBW	Power 99	0.00 %	Auto <u>Mar</u>
x dB Bandwidth	14.58 MHz	x dB	-26.	00 dB	
MSG			STATU	3	

Plot 7-95. Occupied Bandwidth Plot (n5 15MHz 256QAM-CP-OFDM- Full RB Configuration)



Plot 7-96. Occupied Bandwidth Plot (n5 20MHz BPSK-DFT-s-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Pout to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 65 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 05 01 407
© 2020 PCTEST				V 9.0 02/01/2019





Plot 7-97. Occupied Bandwidth Plot (n5 20MHz QPSK-CP-OFDM - Full RB Configuration)



Plot 7-98. Occupied Bandwidth Plot (n5 20MHz 16QAM-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Pout to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 66 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 00 01 407
© 2020 PCTEST				V 9.0 02/01/2019





Plot 7-99. Occupied Bandwidth Plot (n5 20MHz 64QAM-CP-OFDM- Full RB Configuration)



Plot 7-100. Occupied Bandwidth Plot (n5 20MHz 256QAM-CP-OFDM- Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 67 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 07 01 407
© 2020 PCTEST	V 9.0 02/01/2019			



## Band 66/4



Plot 7-101. Occupied Bandwidth Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)



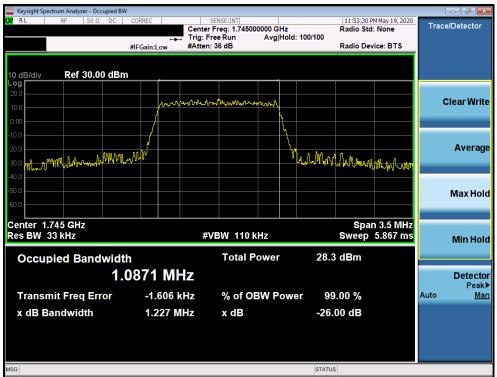
Plot 7-102. Occupied Bandwidth Plot (Band 66/4 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 68 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 00 01 407
© 2020 PCTEST	-	·		V 9.0 02/01/2019





Plot 7-103. Occupied Bandwidth Plot (Band 66/4 - 1.4MHz 64-QAM - Full RB Configuration)



Plot 7-104. Occupied Bandwidth Plot (Band 66/4 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Prout to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 69 of 467	
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 09 01 407	
© 2020 PCTEST V 9.0 02/01/2019					





Plot 7-105. Occupied Bandwidth Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-106. Occupied Bandwidth Plot (Band 66/4 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 70 of 467	
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Page 70 of 467	
© 2020 PCTEST				V 9.0 02/01/2019	



Keysight Spectrum Analyzer - Occupied	BW				
(X) RL RF 50Ω DC	Trig:	SENSE:INT er Freq: 1.745000000 GHz Free Run Avg Hold: n: 36 dB	Radio Std:		Trace/Detector
	#IFGain:Low #Atte	n. 36 db	Radio Devi	CE. BTS	
10 dB/div Ref 40.00 dB	3m				
30.0					
20.0					Clear Write
10.0	Mangurat Minthograd	monton www. With which			
0.00					
-10.0			}		Average
-20.0	man		Juna	- <b>1</b>	
-30.0				Mar College	
-50.0					Max Hold
Center 1.745 GHz Res BW 68 kHz	4	≠VBW 220 kHz		7.5 MHz 12.53 ms	
Res DW VO RHZ			омеер	12.33 1113	Min Hold
Occupied Bandwic	ith	Total Power	29.0 dBm		
2	.7040 MHz				Detector Peak▶
Transmit Freq Error	-1.039 kHz	% of OBW Powe	r 99.00 %		Auto <u>Man</u>
x dB Bandwidth	3.004 MHz	x dB	-26.00 dB		
MSG			STATUS		

Plot 7-107. Occupied Bandwidth Plot (Band 66/4 - 3.0MHz 64-QAM - Full RB Configuration)



Plot 7-108. Occupied Bandwidth Plot (Band 66/4 - 3.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 71 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage / 1 01 407
© 2020 PCTEST	V 9.0 02/01/2019			



Keysight Spectrum Analyzer - Occupied BW	1					- 6	x
IX RL RF 50Ω DC		SENSE:INT nter Freq: 1.7450000 g: Free Run	000 GHz Avg Hold: 10	Radio Std	M May 19, 2020 : None	Trace/Detector	
	#IFGain:Low #At	ten: 36 dB		Radio Dev	rice: BTS		
10 dB/div Ref 40.00 dBm	1						
						Clear Wri	ite
10.0	Janna		- Contraction				
0.00 -10.0 -20.0 mmmmmmmhahma	~~/			mananaly	and the second s	Avera	ge
-30.0						Max Ho	bld
Center 1.745 GHz Res BW 120 kHz		#VBW 390 kF	lz		12.5 MHz ep 1 ms	Min Ho	bld
Occupied Bandwidt	h	Total Po	wer	32.1 dBm			
	4.5102 MHz					Detect Pea	
Transmit Freq Error	-1.495 kHz	% of OB	W Power	99.00 %		Auto <u>M</u>	lan
x dB Bandwidth	4.993 MHz	x dB		-26.00 dB			
MSG				STATUS			

Plot 7-109. Occupied Bandwidth Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-110. Occupied Bandwidth Plot (Band 66/4 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Prove to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 72 of 467	
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 72 01 407	
© 2020 PCTEST V 9.0 02/01/2019					



Keysight Spectrum Analyzer - Occupied BV	N				
XX RL RF 50Ω DC	Trig:		Radi ld:>100/100	42:24 PM May 19, 2020 o Std: None	Trace/Detector
	#IFGain:Low #Atte	en: 36 dB	Radi	io Device: BTS	
10 dB/div Ref 40.00 dBr	n				
Log 30.0					
20.0					Clear Write
10.0	promotion	- mar			
0.00					
-10.0			1		Average
			100	- Ô Ô	Averuge
-20.0			Jan Mary Mary	mon all marked	
-40.0					Max Hold
-50.0					
Center 1.745 GHz			s	pan 12.5 MHz	
Res BW 120 kHz		#VBW 390 kHz		Sweep 1 ms	Min Hold
Occupied Rendwidt	lla.	Total Power	31.3 dB	m	
Occupied Bandwidt		Totarrower	51.5 UD	••	
4.	5003 MHz				Detector Peak▶
Transmit Freq Error	1.007 kHz	% of OBW Pov	ver 99.00	%	Auto <u>Man</u>
x dB Bandwidth	4.989 MHz	x dB	-26.00 d	В	
MSG			STATUS		

Plot 7-111. Occupied Bandwidth Plot (Band 66/4 - 5.0MHz 64-QAM - Full RB Configuration)



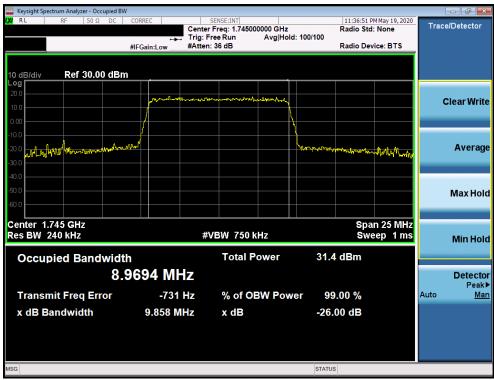
Plot 7-112. Occupied Bandwidth Plot (Band 66/4 - 5.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of &	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 73 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage / 5 01 407
© 2020 PCTEST		·		V 9.0 02/01/2019



OM RL RF 50 Ω DC CORREC SENSE:INT 11:36:37 PM May 19, 2020   Center Freq: 1.745000000 GHz Radio Std: None Trace/Deter   Trig: Free Run Avg Hold: 100/100 PTO
Trig: Free Run Avg Hold: 100/100
#FGain:Low #Atten: 36 dB Radio Device: BTS
10 dB/div Ref 30.00 dBm
200 Altthe War and and and a contract Area Area Area Area Area Area
40.0
-50.0 Max
-60.0
Center 1.745 GHz Span 25 MHz
Res BW 240 kHz #VBW 750 kHz Śweep 1 ms
Occupied Bandwidth Total Power 32.4 dBm
9.0199 MHz
Transmit Freq Error -314 Hz % of OBW Power 99.00 % Auto
x dB Bandwidth 9.883 MHz x dB -26.00 dB
MSG STATUS

Plot 7-113. Occupied Bandwidth Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-114. Occupied Bandwidth Plot (Band 66/4 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Nout to be part of @	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 74 of 467	
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset			
© 2020 PCTEST				V 9.0 02/01/2019	



Keysight Spectrum Analyzer - Occupied	d BW						ti X
LXI RL RF 50Ω DC		SENSE:INT enter Freg: 1.745000000 GI	<b></b>	11:37:08 PMI Radio Std: N		Trace/Det	tector
			Hold: 100/100	Raulo Stu. r	Tone		
	#IFGain:Low #A	tten: 36 dB		Radio Devic	e: BTS		
10 dB/div Ref 30.00 dl	Bm						
Log							
20.0	a di manaharin	~~~~~				Clea	r Write
10.0						Cicu	I WINC
0.00	/						
-10.0							
-20.0	0 0 ba			NPA LA JA		A	verage
-20.0 Julithan Marth Martin			www.		WULL		Ŭ
-40.0							
-50.0						Ma	x Hold
-60.0							
Center 1.745 GHz				Enan	25 MHz		
Res BW 240 kHz		#VBW 750 kHz			20 1 ms		
		WOW FOORIZ		OWCC	-p - 1 113	M	in Hold
Occupied Bandwi	dth	Total Power	29.	5 dBm			
						-	
	9.0043 MHz					D	etector Peak▶
Transmit Freq Error	1.309 kHz	% of OBW P	ower 99	0.00 %		Auto	Man
x dB Bandwidth	9.884 MHz	x dB	-26	00 dB			
			201	00 al			
MSG			STATU	5			

Plot 7-115. Occupied Bandwidth Plot (Band 66/4 - 10.0MHz 64-QAM - Full RB Configuration)



Plot 7-116. Occupied Bandwidth Plot (Band 66/4 - 10.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Prove to be part of B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 75 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 75 01 407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied BW						-	
LX/RL RF 50Ω DC		SENSE:INT		11:31:42 P Radio Std	May 19, 2020 None	Trace	/Detector
		:FreeRun Avg ł en:36 dB	Hold:>100/100	Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dBm			_				
30.0							
20.0	all					С	lear Write
10.0							
0.00	-/						
-20.0 mint Mrs20.0	and the second		unm				Average
-20.0 your Ar 150 years and the second				A CONTRACTOR OF A DIVISION OF A DIVISIONO OFTA DIVISTI O DIVISTO OFTA DIVISIONO OFTA DI DIVISTI	men marilen		
-40.0							
-50.0							Max Hold
Center 1.745 GHz Res BW 360 kHz		#VBW 1.1 MHz			37.5 MHz ep 1 ms		
							Min Hold
Occupied Bandwidth		Total Power	32.	6 dBm			
13	.525 MHz						Detector Peak▶
Transmit Freq Error	3.062 kHz	% of OBW P	ower 99	9.00 %		Auto	Peak► <u>Man</u>
x dB Bandwidth	14.82 MHz	x dB	-26	00 dB			
MSG			STATU	s			

Plot 7-117. Occupied Bandwidth Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-118. Occupied Bandwidth Plot (Band 66/4 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble part of B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 76 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 7001407
© 2020 PCTEST				V 9.0 02/01/2019





Plot 7-119. Occupied Bandwidth Plot (Band 66/4 - 15.0MHz 64-QAM - Full RB Configuration)



Plot 7-120. Occupied Bandwidth Plot (Band 66/4 - 15.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble per d	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 77 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage // 01407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied E	3W				- ē 🔀
IX RL RF 50Ω DC	Trig:	SENSE:INT ter Freq: 1.745000000 GHz : Free Run Avg Ho en: 36 dB	Radio S bld: 100/100	4 PM May 19, 2020 itd: None evice: BTS	Trace/Detector
10 dB/div Ref 40.00 dB	m				
20.0		landerstand and the state of th			Clear Write
0.00					
-20.0 -20.0 1	Ynduwr		4 Martin Martinglanger da	how when when	Average
-40.0					Max Hold
Center 1.745 GHz Res BW 470 kHz		#VBW 1.5 MHz		oan 50 MHz weep 1 ms	Min Hold
Occupied Bandwid		Total Power	32.1 dBm		Mintriold
1 Transmit Freq Error	7.958 MHz -19.865 kHz	% of OBW Po	wer 99.00 %		Detector Peak► Auto Man
x dB Bandwidth	19.51 MHz	x dB	-26.00 dB		
MSG			STATUS		

Plot 7-121. Occupied Bandwidth Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)



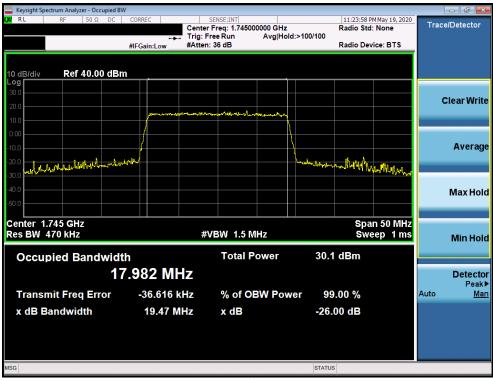
Plot 7-122. Occupied Bandwidth Plot (Band 66/4 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble period	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 78 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage / 8 01 407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied BW								- 6 💌
LXX RL RF 50Ω DC CC	ORREC	SENSE:INT nter Freq: 1.74500	0000 GHz		11:23:40 P	May 19, 2020	Trace	/Detector
	🛶 Trig	g: Free Run	Avg Hold	: 100/100				
#I	FGain:Low #At	tten: 36 dB			Radio Dev	ice: BTS		
10 dB/div Ref 40.00 dBm								
Log								
30.0							c	lear Write
20.0	1 Martine Lang	norther norther norther	howers				-	
10.0								
0.00			<u> </u>					
-10.0	1							Average
-20.0	<b>4</b>			Water mark	James 1	and trank of		
-30.0					1	and the William		
-40.0								Max Hold
-50.0								
Center 1.745 GHz					- Cno	o 60 MILI-		
Res BW 470 kHz		#VBW 1.5 M	Hz			n 50 MHz ep 1 ms		
		# <b>TDI</b>	112		0110	ср тпэ		Min Hold
Occupied Bandwidth		Total P	ower	31.7	dBm			
								P-44
18.0	019 MHz							Detector Peak▶
Transmit Freq Error	-14.636 kHz	% of OE	3W Powe	er 99	.00 %		Auto	Man
x dB Bandwidth	19.69 MHz	x dB		-26	00 dB			
	10.00 11112	x uD		20.				
MSG				STATUS				

Plot 7-123. Occupied Bandwidth Plot (Band 66/4 - 20.0MHz 64-QAM - Full RB Configuration)



Plot 7-124. Occupied Bandwidth Plot (Band 66/4 - 20.0MHz 256-QAM - Full RB Configuration)

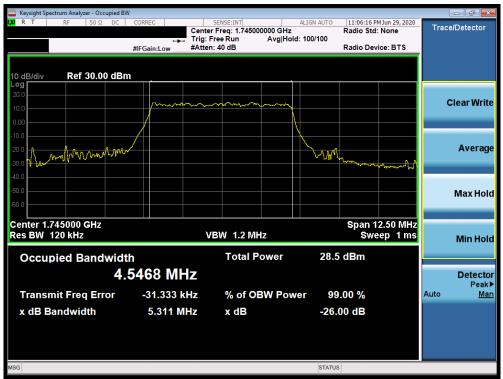
FCC ID: A3LSMF707U	PCTEST Prove to be part of B	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 79 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage / 9 01 407
© 2020 PCTEST				V 9.0 02/01/2019



## NR Band n66



Plot 7-125. Occupied Bandwidth Plot (n66 5MHz BPSK-DFT-s-OFDM - Full RB Configuration)



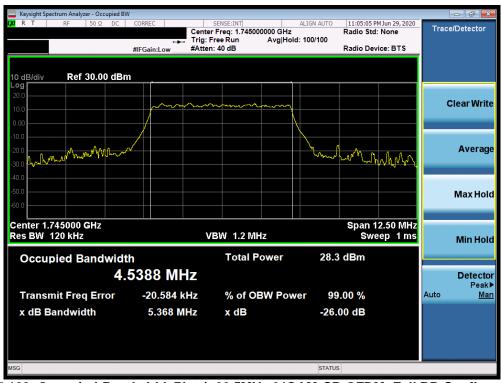
Plot 7-126. Occupied Bandwidth Plot (n66 5MHz QPSK-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble period	MEASUREMENTREPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 80 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 80 01 407
© 2020 PCTEST				V 9.0 02/01/2019





Plot 7-127. Occupied Bandwidth Plot (n66 5MHz 16QAM-CP-OFDM - Full RB Configuration)



Plot 7-128. Occupied Bandwidth Plot (n66 5MHz 64QAM-CP-OFDM- Full RB Configuration)

FCC ID: A3LSMF707U	Routible part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 81 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage of 01407
© 2020 PCTEST				V 9.0 02/01/2019





Plot 7-129. Occupied Bandwidth Plot (n66 5MHz 256QAM-CP-OFDM - Full RB Configuration)



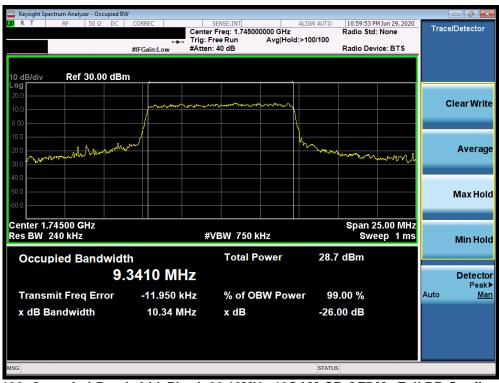
Plot 7-130. Occupied Bandwidth Plot (n66 10MHz BPSK-DFT-s-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble period	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 82 of 467
1M2005040080-03.A3L	05/04 - 07/11/2020	Portable Handset		Fage 02 01 407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied BW					
(XX R T   RF   50 Ω DC	Trig: I	SENSE:INT r Freq: 1.745000000 GHz Free Run Avg Hol n: 40 dB	Radio Sto d: 100/100	PM Jun 29, 2020 d: None vice: BTS	Trace/Detector
10 dB/div Ref 30.00 dBm					
Log 200 100 0.00		man and			Clear Write
-10.0 -20.0 -30.0			home way way way and a second	Munan	Average
-40.0					Max Hold
Center 1.74500 GHz Res BW 240 kHz	#	VBW 750 kHz	Sw	25.00 MHz eep 1 ms	Min Hold
	Occupied Bandwidth Total Power 28.6 dBm 9.3329 MHz Transmit Freg Error -14.943 kHz % of OBW Power 99.00 %				
x dB Bandwidth	10.14 MHz	x dB	-26.00 dB		Auto <u>Man</u>
MSG			STATUS		

Plot 7-131. Occupied Bandwidth Plot (n66 10MHz QPSK-CP-OFDM - Full RB Configuration)



Plot 7-132. Occupied Bandwidth Plot (n66 10MHz 16QAM-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble period	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 83 of 467
1M2005040080-03.A3L	05/04 - 07/11/2020	Portable Handset		Fage 63 01 407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied B\	N				
<b>(χ) R T</b>   RF   50 Ω DC	😛 Tri	SENSE:INT nter Freq: 1.745000000 g: Free Run Avg tten: 40 dB	3Hz Ra j Hold: 100/100	1:00:15 PM Jun 29, 2020 dio Std: None dio Device: BTS	Trace/Detector
10 dB/div Ref 30.00 dBr	n				
20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~ <u>_</u>		Clear Write
-10.0 -20.0 -30.0				have and the	Average
-40.0					Max Hold
Center 1.74500 GHz Res BW 240 kHz		#VBW 750 kHz		pan 25.00 MHz Sweep 1 ms	Min Hold
Occupied Bandwidd 9. Transmit Freg Error	th 3730 MHz -29.562 kHz	Total Powe % of OBW I			Detector Peak▶ Auto Man
x dB Bandwidth	10.25 MHz	x dB	-26.00		
MSG			STATUS		

Plot 7-133. Occupied Bandwidth Plot (n66 10MHz 64QAM-CP-OFDM- Full RB Configuration)



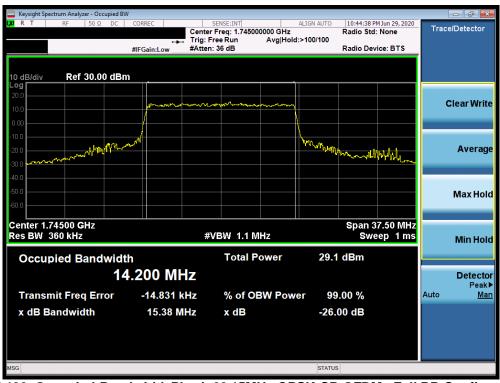
Plot 7-134. Occupied Bandwidth Plot (n66 10MHz 256QAM-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST'	MEASUREMENTREPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 84 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 64 01 407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied B <sup>1</sup>	N				
<b>(X) R T</b> RF 50 Ω DC	🛶 Trig	SENSE:INT ter Freq: 1.745000000 GH : Free Run Avg H en: 36 dB	Iz Radio Iold: 100/100	:22 PM Jun 29, 2020 Std: None Device: BTS	Trace/Detector
10 dB/div Ref 40.00 dBr	n				
30.0					Clear Write
10.0 0.00 10.0	kov		Museum		
-20.0					Average
-30.0					Max Hold
Center 1.74500 GHz Res BW 360 kHz				an 37.50 MHz	
Occupied Bandwidt		#VBW 1.1 MHz Total Power	32.0 dBn	Sweep 1ms n	Min Hold
	4.523 MHz				Detector Peak►
Transmit Freq Error x dB Bandwidth	558 Hz 26.93 MHz	% of OBW Po x dB	ower 99.00 % -26.00 dB		Auto <u>Man</u>
MSG			STATUS		

Plot 7-135. Occupied Bandwidth Plot (n66 15MHz BPSK-DFT-s-OFDM - Full RB Configuration)



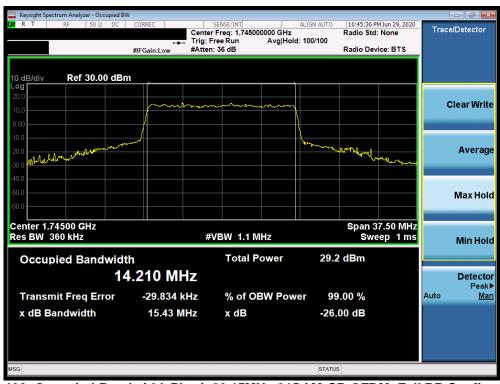
Plot 7-136. Occupied Bandwidth Plot (n66 15MHz QPSK-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 85 of 467
1M2005040080-03.A3L	05/04 - 07/11/2020	Portable Handset		Fage 03 01 407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Ana	alyzer - Occupied BW							
LXU R T RF	#1		SENSE:INT Center Freq: 1.74500 Frig: Free Run #Atten: 36 dB		Radio Std		Trace/De	etector
10 dB/div Re	f 30.00 dBm							
20.0		Jura maria	generation (1997)	m			Clea	ar Write
-10.0 -20.0	Um month				unter the the the	c. A	٨	verage
-30.0								
-60.0 Center 1.74500	CH2				Span	87.50 MHz	IVI	ax Hold
Res BW 360 kH	z		#VBW 1.1 № Total P			eep 1 ms	м	lin Hold
Occupied		209 MHz		ower	20.9 UBIII		D	etector Peak▶
Transmit Fre		-15.939 kH 16.08 MH		BW Power	99.00 % -26.00 dB		Auto	<u>Man</u>
MSG					STATUS			

Plot 7-137. Occupied Bandwidth Plot (n66 15MHz 16QAM-CP-OFDM - Full RB Configuration)



Plot 7-138. Occupied Bandwidth Plot (n66 15MHz 64QAM-CP-OFDM- Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 86 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 80 01 407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied BW	1					
UX R T RF 50 Ω DC	#IFGain:Low #/	SENSE:INT enter Freq: 1.745000 rig: Free Run Atten: 36 dB	ALIGN AUTO 000 GHz Avg Hold: 100/100	10:45:58 PM Ju Radio Std: No Radio Device	one	Trace/Detector
10 dB/div Ref 30.00 dBn Log 20.0 10.0 0.00		- Marine Marine Co				Clear Write
-10.0 -20.0 -30.0				home	Muran	Average
-60.0						Max Hold
Center 1.74500 GHz Res BW 360 kHz Occupied Bandwidt	h	#VBW 1.1 MH		Span 37. Sweep dBm	50 MHz 5 1 ms	Min Hold
	-10.661 kHz		W Power 99	0.00 %		Detector Peak≯ Auto Man
x dB Bandwidth	15.36 MHz			00 dB		
MSG			STATUS	3		

Plot 7-139. Occupied Bandwidth Plot (n66 15MHz 256QAM-CP-OFDM - Full RB Configuration)



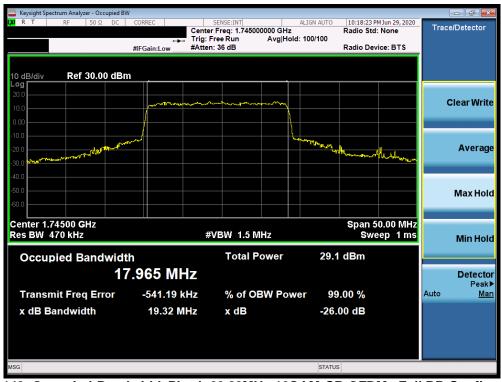
Plot 7-140. Occupied Bandwidth Plot (n66 20MHz BPSK-DFT-s-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 87 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage of 01407
© 2020 PCTEST				V 9.0 02/01/2019





Plot 7-141. Occupied Bandwidth Plot (n66 20MHz QPSK-CP-OFDM - Full RB Configuration)



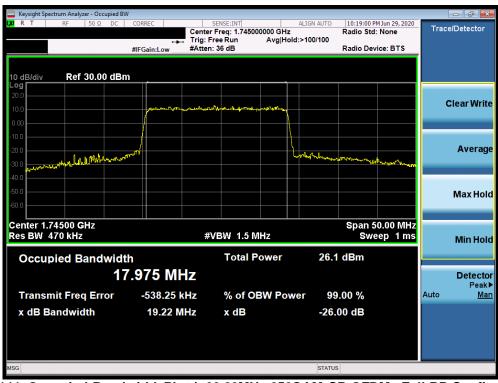
Plot 7-142. Occupied Bandwidth Plot (n66 20MHz 16QAM-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble period	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 88 of 467
1M2005040080-03.A3L	05/04 - 07/11/2020	Portable Handset		Fage 00 01 407
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied BW					
μα R T RF 50Ω DC	#IFGain:Low #Atte	SENSE:INT er Freq: 1.745000000 GH Free Run Avg H n: 36 dB	old: 100/100	10:18:43 PM Jun 29, 2020 Radio Std: None Radio Device: BTS	Trace/Detector
					Clear Write
-10.0 -20.0 -30.0 -40.0	~~^^			marcall	Average
-50.0					Max Hold
Center 1.74500 GHz Res BW 470 kHz Occupied Bandwidt		≇VBW 1.5 MHz Total Power	29.2	Span 50.00 MHz Sweep 1 ms dBm	Min Hold
	18.010 MHz				Detector Peak▶
Transmit Freq Error x dB Bandwidth	-521.56 kHz 19.26 MHz	% of OBW Po x dB	ower 99.( -26.0)	00 % 0 dB	Auto <u>Man</u>
MSG			STATUS		

Plot 7-143. Occupied Bandwidth Plot (n66 20MHz 64QAM-CP-OFDM- Full RB Configuration)



Plot 7-144. Occupied Bandwidth Plot (n66 20MHz 256QAM-CP-OFDM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 89 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 09 01 407
© 2020 PCTEST				V 9.0 02/01/2019



## Band 25/2



Plot 7-145. Occupied Bandwidth Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-146. Occupied Bandwidth Plot (Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Trout to be part of S	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 90 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 90 01 407
© 2020 PCTEST	·	·		V 9.0 02/01/2019





Plot 7-147. Occupied Bandwidth Plot (Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)



Plot 7-148. Occupied Bandwidth Plot (Band 25/2 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 91 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 91 01 407
© 2020 PCTEST		•		V 9.0 02/01/2019





Plot 7-149. Occupied Bandwidth Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-150. Occupied Bandwidth Plot (Band 25/2 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Nout to be part of B	MEASUREMENTREPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 92 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 92 01 467
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied BW					- ð ×
	🛶 Trig: F	SENSE:INT r Freq: 1.882500000 GHz Free Run Avg Hol n: 36 dB	Radio Sto d: 100/100	AM Jun 16, 2020 d: None vice: BTS	Trace/Detector
10 dB/div Ref 40.00 dBm					
30.0					Clear Write
10.0	Munchanner	mantenness	}		
-10.0					Average
-20.0 -30.0	n		munuhanny	war allow	
-40.0					Max Hold
Center 1.882500 GHz Res BW 68 kHz	#	VBW 220 kHz		7.500 MHz ep 3.8 ms	Min Hold
Occupied Bandwidth		Total Power	29.1 dBm		
	079 MHz				Detector Peak▶
Transmit Freq Error	1.022 kHz 2.992 MHz	% of OBW Pow x dB	ver 99.00 % -26.00 dB		Auto <u>Man</u>
MSG			STATUS		

Plot 7-151. Occupied Bandwidth Plot (Band 25/2 - 3.0MHz 64-QAM - Full RB Configuration)



Plot 7-152. Occupied Bandwidth Plot (Band 25/2 - 3.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Prove to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 93 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 93 01 467
© 2020 PCTEST				V 9.0 02/01/2019



Keysight Spectrum Analyzer - Occupied BW	1				
XV RL RF 50Ω DC		SENSE:INT A	LIGN AUTO 03:37:12 AM Radio Std:	4 Jun 16, 2020	Trace/Detector
	Here Trig: F	ree Run Avg Hold:		None	
	#IFGain:Low #Atten	: 36 dB	Radio Devi	ice: BTS	
10 dB/div Ref 40.00 dBm	1				
Log					
30.0					Clear Writ
20.0	mannen				
10.0					
0.00					
-10.0	_/				Averag
-20.0 Many month	w			All all	
-30.0				e 4 . 7 . 1. 4 . 4 . 4	
-40.0					Max Hol
-50.0					Max Hol
-30.0					
Center 1.882500 GHz				2.50 MHz	
Res BW 120 kHz	#1	VBW 390 kHz	Swe	ep 1 ms	Min Hol
		Total Power	31.9 dBm		
Occupied Bandwidt		Total Power	31.9 dBm		
4.4	5068 MHz				Detecto
	CC0 11-	0/ - f ODW/ D	- 00.00.0/		Peak Auto Ma
Transmit Freq Error	668 Hz	% of OBW Powe	r 99.00 %		Auto <u>Ma</u>
x dB Bandwidth	5.026 MHz	x dB	-26.00 dB		
MSG			STATUS		
			JIAIUS		

Plot 7-153. Occupied Bandwidth Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)



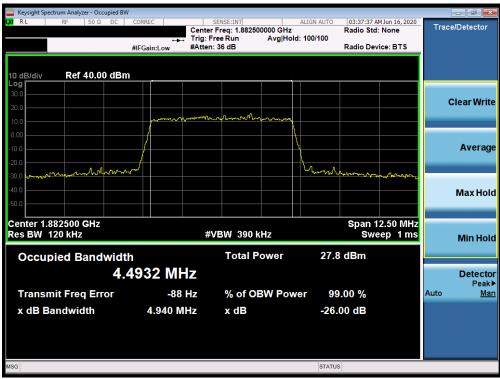
Plot 7-154. Occupied Bandwidth Plot (Band 25/2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Neut lo be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 94 of 467
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 94 01 407
© 2020 PCTEST				V 9.0 02/01/2019



🔤 Keysight Spectrum Analyzer - Occupied BW						×
<b>(X)</b> RL RF 50 Ω DC	Center	SENSE:INT Freq: 1.882500000 GHz ree Run Avg Hol : 36 dB	ld: 100/100	03:37:30 AM Jun 16, Radio Std: None Radio Device: BT	Trace/Detecto	or
10 dB/div Ref 40.00 dBm						
30.0 20.0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			ClearWi	rite
0.00					Avera	900
-10.0 -20.0 -30.0 Amerilan	-		hmm	ᡰᢦᠬᢦᡊᢇᢧᠧᡘᢆᡁᡐᡓᡬᡗᠧᢧ		aye
-40.0					MaxH	lold
Center 1.882500 GHz Res BW 120 kHz	#	VBW 390 kHz		Span 12.50 M Sweep 1		lold
Occupied Bandwidth	າ 5135 MHz	Total Power	29.4 c	lBm	Detec	
Transmit Freq Error	-6.798 kHz	% of OBW Pov				eak▶ <u>Man</u>
x dB Bandwidth	4.971 MHz	x dB	-26.00	JdB		
MSG			STATUS			
			2			_

Plot 7-155. Occupied Bandwidth Plot (Band 25/2 - 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-156. Occupied Bandwidth Plot (Band 25/2 - 5.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Pout to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 95 of 467	
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 95 01 467	
© 2020 PCTEST				V 9.0 02/01/2019	



Keysight Spectrum Analyzer - Occupied BW					- 6 <b>-</b>
XX RL RF 50Ω DC CC	Trig: F			2:01 AM Jun 16, 2020 o Std: None	Trace/Detector
#I	FGain:Low #Atter	1: 36 dB	Radi	o Device: BTS	
10 dB/div Ref 40.00 dBm					
Log 30.0					
20.0					Clear Write
10.0	the second second second	volunder were were a			
0.00	/				
-10.0	1		1		Average
-20.0 mph What more many hore also	/		Winner	All all all and a shall	
-30.0					
-40.0					Max Hold
-50.0					Μάλ ΠΟΙΟ
Center 1.88250 GHz Res BW 240 kHz	#	VBW 750 kHz		an 25.00 MHz Sweep 1 ms	
Res BW 240 KH2	#			Sweep This	Min Hold
Occupied Bandwidth		Total Power	32.2 dBr	n	
9.03	379 MHz				Detector
					Peak►
Transmit Freq Error	-5.641 kHz	% of OBW Pov	wer 99.00 9	%	Auto <u>Man</u>
x dB Bandwidth	9.901 MHz	x dB	-26.00 d	В	
MSG			STATUS		

Plot 7-157. Occupied Bandwidth Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-158. Occupied Bandwidth Plot (Band 25/2 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of B	MEASUREMENTREPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 96 of 467	
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 90 01 407	
© 2020 PCTEST				V 9.0 02/01/2019	



Keysight Spectrum Analyzer - Occupied BW						-	- 6 💌
	Trig: F	SENSE:INT r Freq: 1.882500000 GH Free Run Avg H h: 36 dB	ALIGN AUTO z old: 100/100	Radio Std: Radio Dev		Trace	/Detector
10 dB/div Ref 40.00 dBm			-				
30.0 20.0						с	lear Write
10.0	por whith the more	walness was a stated	<u> </u>				
-10.0							Average
300 m Mm M W Mon man have a she	N		howan	Manahalla	Munn		
-40.0 -50.0							Max Hold
Center 1.88250 GHz Res BW 240 kHz	#	VBW 750 kHz			5.00 MHz ep 1 ms		Min Hold
Occupied Bandwidth		Total Power	29.	5 dBm			
	072 MHz						Detector Peak▶
Transmit Freq Error	4.473 kHz	% of OBW Po	wer 99	9.00 %		Auto	<u>Man</u>
x dB Bandwidth	9.898 MHz	x dB	-26	.00 dB			
MSG			STATU	IS			

Plot 7-159. Occupied Bandwidth Plot (Band 25/2 - 10.0MHz 64-QAM - Full RB Configuration)



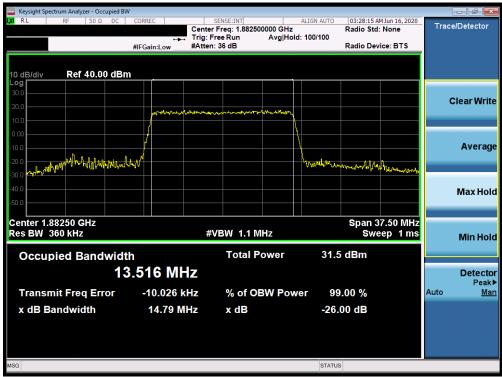
Plot 7-160. Occupied Bandwidth Plot (Band 25/2 - 10.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proved to be part of B	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 97 of 467	
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 97 01 407	
© 2020 PCTEST				V 9.0 02/01/2019	



Keysight Spectrum Analyzer - Occupied BW					- F	×
	Center		Radio d: 100/100	7:56 AM Jun 16, 2020 Std: None Device: BTS	Trace/Detect	or
10 dB/div Ref 40.00 dBm						
30.0	and the second s	Mary warang de Magliagaman (Phar) in			Clear W	Irite
10.0	+		ι			
-10.0			havenousto	haldhar an an an an an	Aver	rage
-20.0 -30.0 -40.0				า ายุงวุฬเจพทุเษยญ	MaxH	lold
Center 1.88250 GHz Res BW 360 kHz	#\	/BW 1.1 MHz		an 37.50 MHz Sweep 1 ms	Min H	Hold
Occupied Bandwidth		Total Power	31.9 dBn	n		
13.	519 MHz				Dete	ector eak ►
Transmit Freq Error	5.210 kHz	% of OBW Pow	ver 99.00 %	6		<u>Man</u>
x dB Bandwidth	14.85 MHz	x dB	-26.00 dE	3		
MSG			STATUS			

Plot 7-161. Occupied Bandwidth Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-162. Occupied Bandwidth Plot (Band 25/2 - 15.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Neut lo be part of B	MEASUREMENTREPORT (CERTIFICATION)	SAMSUNG	<b>Approved by:</b> Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 98 of 467	
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset			
© 2020 PCTEST				V 9.0 02/01/2019	



Keysight Spectrum Analyzer - Occupied BW							
	Trig: F	SENSE:INT r Freq: 1.882500000 GHz Free Run Avg Ho n: 36 dB	ALIGN AUTO z pld:>100/100	03:28:26 AM Radio Std: I Radio Devid		Trace	Detector
10 dB/div Ref 40.00 dBm							
30.0 20.0			<u> </u>			с	lear Write
0.00			<u></u>				Average
-10.0 -20.0 -30.0 Bundhartwork/Webaypprth.Maryloft/10/ms/pd/10/vith-	AUT		hannel and	Wyouns	y wayar Alihan ya		Average
-40.0							Max Hold
Center 1.88250 GHz Res BW 360 kHz	#	VBW 1.1 MHz			′.50 MHz ep 1 ms		Min Hold
Occupied Bandwidth		Total Power	31.2	dBm			
T3. Transmit Freq Error	507 MHz 894 Hz	% of OBW Po	wer 99.	.00 %		Auto	Detector Peak▶ <u>Man</u>
x dB Bandwidth	14.73 MHz	x dB	-26.0	00 dB			
MSG			STATUS				

Plot 7-163. Occupied Bandwidth Plot (Band 25/2 - 15.0MHz 64-QAM - Full RB Configuration)



Plot 7-164. Occupied Bandwidth Plot (Band 25/2 - 15.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	Rout ble period	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 99 of 467	
1M2005040080-03.A3L	05/04-07/11/2020	Portable Handset		Fage 99 01 407	
© 2020 PCTEST				V 9.0 02/01/2019	