Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz											
Modulation	Channel	RB Conf	iguration	Occupied Bandwidth	26dB Bandwidth	Verdict					
wouldtion	Channel	Size	Offset	(MHz)	(MHz)	Verdici					
	LCH	6	0	1.0789	1.2390	PASS					
QPSK	MCH	6	0	1.0766	1.2850	PASS					
	HCH	6	0	1.0777	1.2900	PASS					
	LCH	6	0	1.0811	1.2490	PASS					
16QAM	MCH	6	0	1.0793	1.2450	PASS					
	НСН	6	0	1.0791	1.2590	PASS					

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz											
Modulation	Channel	RB Conf	iguration	Occupied Bandwidth	26dB Bandwidth	Verdict					
Wouldtion	Gliaillei	Size	Offset	(MHz)	(MHz)	veruici					
	LCH	15	0	2.6822	2.8950	PASS					
QPSK	MCH	15	0	2.6684	2.9210	PASS					
	HCH	15	0	2.6871	2.9050	PASS					
	LCH	15	0	2.6857	2.8770	PASS					
16QAM	MCH	15	0	2.6894	2.9160	PASS					
	HCH	15	0	2.6821	2.9010	PASS					

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz											
Modulation	Channel	RB Conf	iguration	Occupied Bandwidth	26dB Bandwidth	Verdict					
Modulation	Gliannei	Size	Offset	(MHz)	(MHz)	Verdict					
	LCH	25	0	4.4746	4.8290	PASS					
QPSK	MCH	25	0	4.4707	4.8230	PASS					
	HCH	25	0	4.4906	4.8660	PASS					
	LCH	25	0	4.4771	4.7880	PASS					
16QAM	MCH	25	0	4.4800	4.8650	PASS					
	HCH	25	0	4.4903	4.860	PASS					

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Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz											
Modulation	Channel	RB Conf	iguration	Occupied Bandwidth	26dB Bandwidth	Verdict					
Wouldtion	Gliaillei	Size	Offset	(MHz)	(MHz)	Veruici					
	LCH	50	0	8.9253	9.4750	PASS					
QPSK	MCH	50	0	8.9857	9.5250	PASS					
	HCH	50	0	8.9822	9.6590	PASS					
	LCH	50	0	8.9411	9.4890	PASS					
16QAM	MCH	50	0	8.9478	9.4820	PASS					
	HCH	50	0	8.989	9.6210	PASS					

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz											
Modulation	Channel	RB Conf	iguration	Occupied Bandwidth	26dB Bandwidth	Verdict					
Modulation	Channel	Size	Offset	(MHz)	(MHz)	Verdict					
	LCH	75	0	13.3730	13.9800	PASS					
QPSK	MCH	75	0	13.4260	14.0000	PASS					
	HCH	75	0	13.4820	14.3600	PASS					
	LCH	75	0	13.3640	13.9700	PASS					
16QAM	MCH	75	0	13.4210	14.2200	PASS					
	HCH	75	0	13.4730	14.1900	PASS					

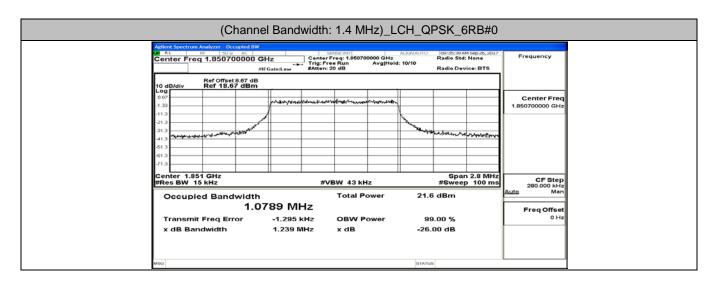
Channel Bandwidth: 20 MHz

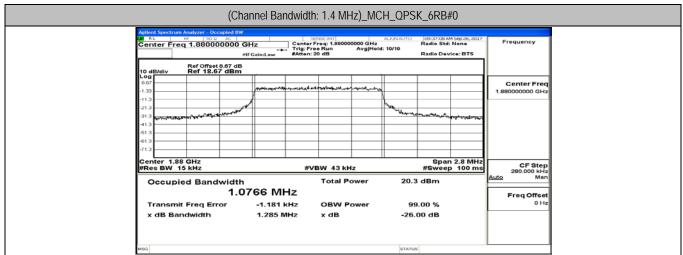
Channel Bandwidth: 20 MHz											
Modulation	Channel	RB Conf	iguration	Occupied Bandwidth	26dB Bandwidth	Verdict					
Modulation	Glialine	Size	Offset	(MHz)	(MHz)	Verdict					
	LCH	100	0	17.8480	18.6500	PASS					
QPSK	MCH	100	0	17.8780	18.6500	PASS					
	HCH	100	0	17.8660	18.5700	PASS					
	LCH	100	0	17.8500	18.6100	PASS					
16QAM	MCH	100	0	17.8800	18.5800	PASS					
	НСН	100	0	17.8390	18.5900	PASS					

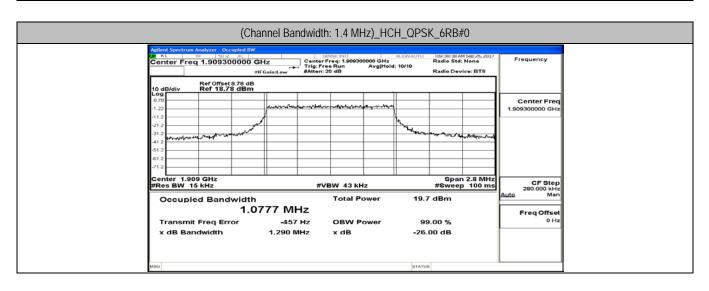
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Test Graphs

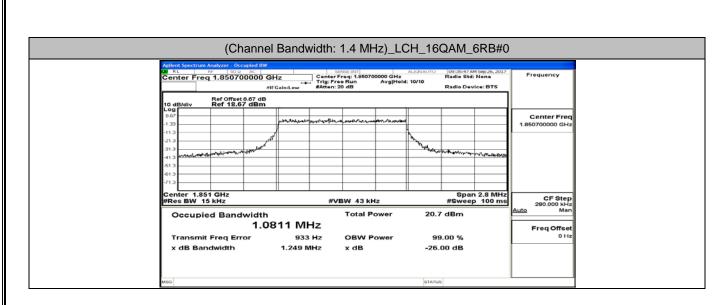
Channel Bandwidth: 1.4 MHz

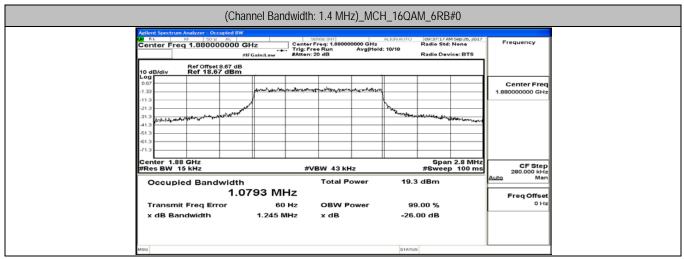






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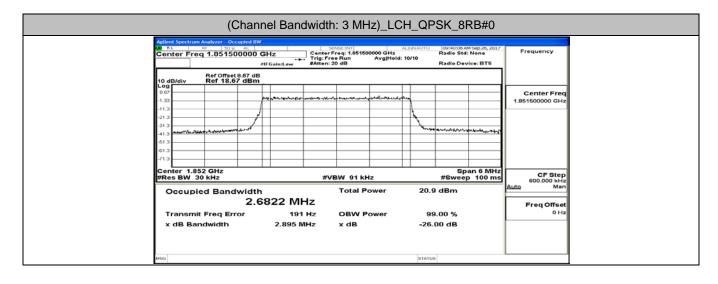


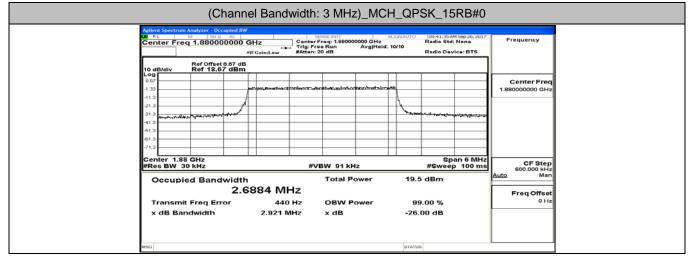


(Ch Agilent Spectrum Analyzer - Occupied BV				
Center Freq 1.909300000	GHz Center Fre #IFGain:Low #Atten: 20	eq: 1.909300000 GHz Run Avg Held	Radio Std: None	Frequency
1.22 -11.2	and the second states	antiger and a discourse of the		Center Freq 1.909300000 GHz
-21.2 -31.2 -41.2 -51.2			Not and a second second and a second	
-61.2 -71.2 Center 1.909 GHz			Span 2.8 MH	CF Step
#Res BW 15 kHz Occupied Bandwidth 1.(W 43 kHz Total Power	#Sweep_100 m 18.5 dBm	280.000 kHz Auto Man
Transmit Freq Error x dB Bandwidth		OBW Power x dB	99.00 % -26.00 dB	0 Hz
MSG			STATUS	

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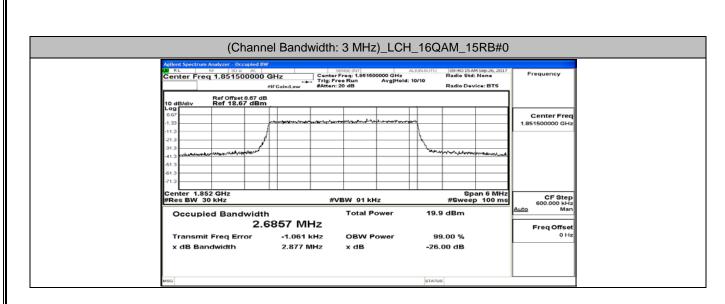
Channel Bandwidth: 3 MHz

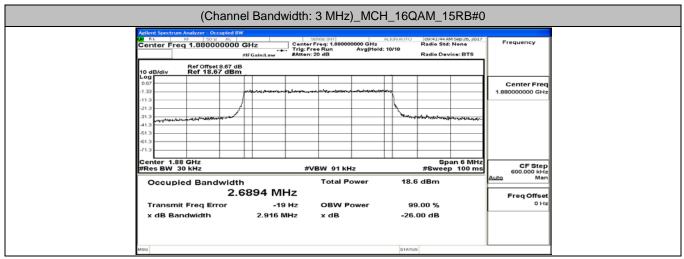




	Analyzer - Occupied				-				
	q 1.90850000 Ref Offset 8.78 Ref 18.78 dE	0 GHz #IFGain:Low		NSE:INT req: 1.908500 e Run 0 dB		0/10	Radio Std: Radio Dev		Frequency
0.70 -1.22 -11.2 -21.2	1000 000 000 0000000000000000000000000		ghat the subset	a ta nana ma	lexant 5 กละ ได้ไรก		emergencentery.	defer yb Awer	Center Freq 1.908500000 GHz
-61.2 -71.2 -71.2 #Res BW 3 Occupi	ed Bandwid			3W 91 kHz Total Po		19.0		an 6 MHz p 100 ms	CF Step 600.000 kHz Auto Man
Transmi x dB Bar	t Freq Error	2.6871 MI 654 2.905 N	Hz	OBW Po x dB	wer		00 % 00 dB		Freq Offset 0 Hz

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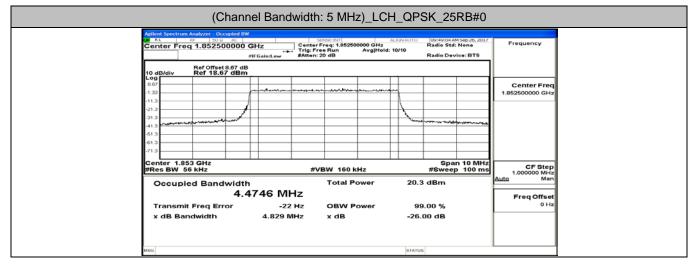


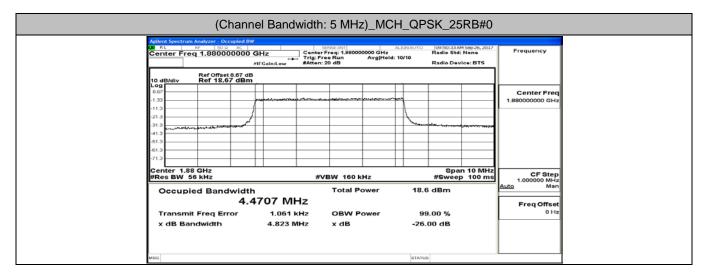
(Channel Bandwidth: 3 MHz)_HCH_1	6QAM	15RB#0
----------------------------------	------	--------

UX R	L	Malyzer - Oce ₪ 50 ឆ 1.90850	AC.			Center F Trig: Fre	req: 1.90850			NAUTO	09:43:13 A Radio Std:	M 5ep 26, 2017 : None	F	requency
		Ref Offset	8.78 dB	#IFGai	in:Low	#Atten: 2	0 dB	Avginoid.	107		Radio Dev	rice: BTS		
10 d Log 0.70 -1.22	B/div	Ref 18.7	s aBm	,	-	ئونىغۇر بىراخىرام			~					Center Freq 08500000 GHz
-11.2 -21.2 -31.2			hard		_					\	atoma wayat	- Marilloutedayough		
-41.2 -51.2 -61.2														
-71.2 Cen #Re	ter 1.90	9 GHz				#VI	BW 91 kH	z			Sp #Sweet	an 6 MHz 5 100 ms		CF Step
		d Band			21 MF		Total P			18.0) dBm		Auto	
	ransmit dB Ban	Freq Err dwidth			2.643 k 2.901 M	Hz	OBW P x dB	ower			0.00 % 00 dB			Freq Offset 0 Hz
MSG										STATUS	5			

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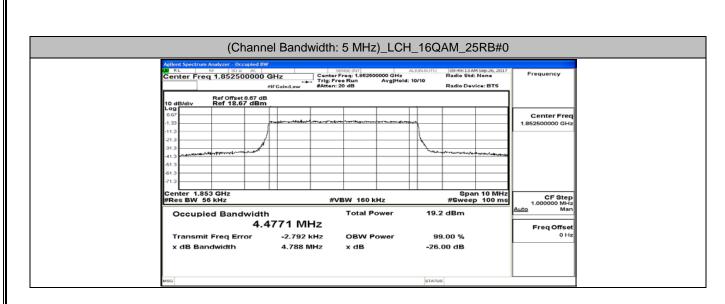
Channel Bandwidth: 5 MHz

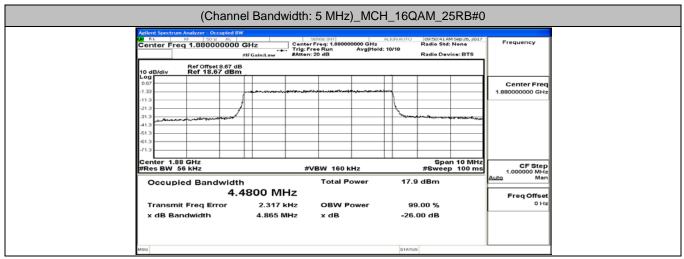




Agilent Spect	rum Analyzer - Occu	ipied BW	l Band	width:	5 MHz	z)_HCF	I_QP	SK_25	5RB#0	
	req 1.907500	0000 GH	lz Gain:Low	Center F Trig: Fre #Atten: 2	req: 1.90750 e Run 0 dB	Avg Hold: 1	0/10	Radio Std: Radio Dev		Frequency
10 dB/div 0.70 1.22 11.2 21.2 31.2 41.2 51.2 51.2 01.2 01.2	Ref 18.78		· · · · · · · · · · · · · · · · · · ·	***			Lever and a	دلماها درود. در ما		Center Freq 1.907500000 GHz
Center 1 #Res BW	.908 GHz 56 kHz pied Bandy				BW 160 k Total Po		18.2		n 10 MHz p 100 ms	CF Step 1.000000 MHz <u>Auto</u> Man
	mit Freq Erro Bandwidth		6.731 k 4.866 M	Hz	OBW Po x dB	ower		.00 % 00 dB		Freq Offset 0 Hz
MSG							STATUS			

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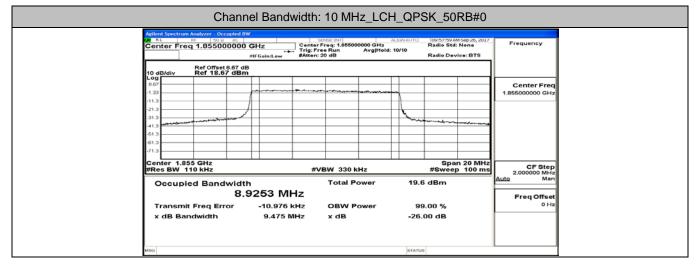


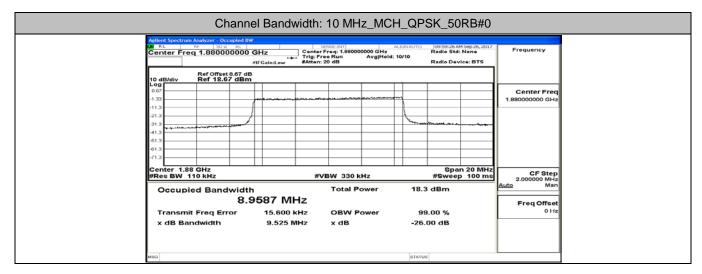
(Channel Bandwidth: 5 MHz)_HC	CH 16QAM 25RB#0
-------------------------------	-----------------

_		1.9075		#1FGe	ain:Low	Trig: Fre #Atten: 2	req: 1.90750 e Run 0 dB	Avg Hold	10/	10	Radio Std: Radio Dev			
10 dB Log	3/div	Ref Offse Ref 18.7	t 8.78 dB 78 dBm											
0.70 -1.22			-	4		**			•••					Center Freq 7500000 GHz
-11.2 -21.2				1						4				
-31.2 -41.2	*****		and a star							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		an Ward and server		
-51.2 -61.2			-	Ħ										
-71.2	er 1.90										0			
	BW 56					#V	BW 160 k	Hz			spa #Sweep	n 10 MHz > 100 ms	1	CF Step
0	ccupie	d Band			оз мн	1-	Total Po	ower		17.3	dBm		Auto	Man
Tra	ansmit	Freq Er			6.010 k		OBW P	ower		99	.00 %		I '	Freq Offset 0 Hz
×	dB Ban	dwidth			4.826 M	Hz	x dB			-26.	00 dB			
MSG										STATUS				

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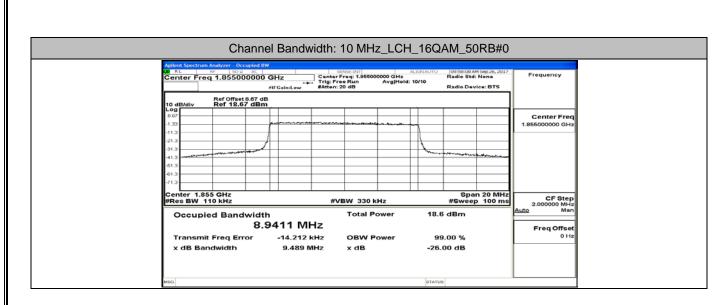
Channel Bandwidth: 10 MHz

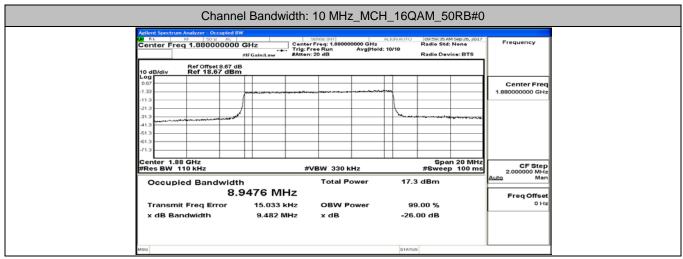




Center Freq 1.905000000 GHz Center Freq 1.005000000 GHz Radio Stel: None Radio Stel: None 10 dB/div Ref 07set 37 dB Ref 07set 37 dB Center Freq 1.00500000 GHz Ref 07set 37 dB 10 dB/div Ref 18.78 dBm Center Freq 1.00500000 GHz Ref 07set 37 dB 12 2 Image: Center Freq 1.00500000 GHz Image: Center Freq 1.00500000 GHz 12 2 Image: Center Freq 1.00500000 GHz Image: Center Freq 1.00500000 GHz 12 2 Image: Center Freq 1.00500000 GHz Image: Center Freq 1.00500000 GHz 12 2 Image: Center Freq 1.00500000 GHz Image: Center Freq 1.00500000 GHz 12 2 Image: Center Freq 1.00500000 GHz Image: Center Freq 1.00500000 GHz 12 2 Image: Center Freq 1.00500000 GHz Image: Center Freq 0.0000 GHz 12 2 Image: Center Freq 0.0000 GHz Image: Center Freq 0.0000 GHz 12 2 Image: Center Freq 0.0000 GHz Image: Center Freq 0.0000 GHz 12 2 Image: Center Freq 0.0000 GHz Image: Center Freq 0.0000 GHz 12 2 Image: Center Freq 0.0000 GHz Image: Center Freq 0.0000 GHz 12 2 Image: Center Freq 0.0000 GHz Image: Center Freq 0.0000 GHz 12 2 Image: Center Freq 0.0000 GHz Image: Center Freq 0.00000 GHz 12 2 Image: Center Freq 0.00000 GHz Image: Center Freq 0.00000 GHz	Agilent Spectr	um Analyzer - Occ	upied BW	l Bandv		10 MH		H_QP			
Log Center Freq 12 1.0000000 GHz 110 KHz #VBW 330 KHz #Se822 MHz Total Power Transmit Freq Error 5.219 KHz OBW Power 99.00 % 0 Hz	Center Fi	Ref Offset	0000 G	-+	Center F	Freq: 1.905000 te Run	000 GHz		Radio Std:	: None	Frequency
#Res BW 110 kHz #VBW 330 kHz #Sweep 100 ms Occupied Bandwidth Total Power 17.8 dBm 8.9822 MHz Freq Offset Transmit Freq Error 5.219 kHz OBW Power 99.00 %	Log 0.70 -1.22 -11.2 -21.2 -31.2 -41.2 -51.2 -61.2						4	and the second		4 m.,4,4 m.	
Transmit Freq Error 5.219 kHz OBW Power 99.00 %	#Res BW	110 kHz						17.5	#Sweep	n 20 MHz p 100 ms	2.000000 MHz
				5.219	Hz		ower	_			

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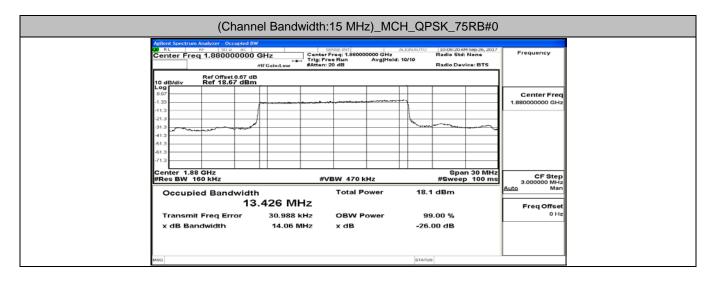
Channel	Bandwidth:	10 MHz	HCH	160AM	50RB#0	

LOU R	L	RF	50 R	0000	GHz	in:Low	Center Fr Trig: Free #Atten: 20	eq: 1.90500 Run dB	0000 GHz Avg Hold: 1	IGN AUTO 0/10	10:01:02 AM Radio Std: Radio Dev		Frequency
10 d Log	B/div	Re Re	f Offset	8.78 dB 8 dBm	·					,			
0.70 -1.22		-						*******		1			Center Freq 1.905000000 GHz
-11.2 -21.2 -31.2										1		montoformation	
-41.2 -51.2		-											
-61.2 -71.2													
	nter 1. s BW						#VE	W 330 k	Hz		Spai #Sweep	n 20 MHz > 100 ms	CF Step 2.000000 MHz
°	occup	oied	Band	width 8.9		э м⊦	Iz	Total P	ower	16.8	3 dBm		Auto Man Freq Offset
	ransn dB B		eq Err idth	or		1.194 k 9.621 M		OBW P x dB	ower		9.00 % 00 dB		0 Hz
MSG										STATU	5		I

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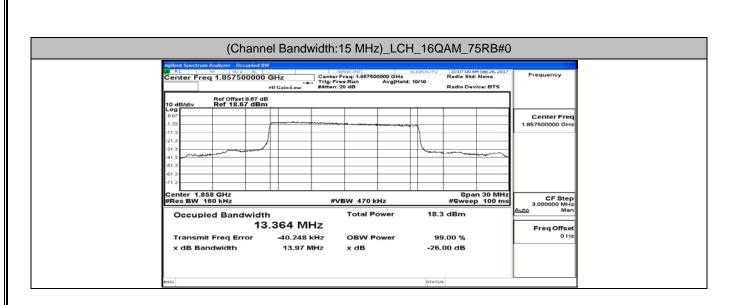
Channel Bandwidth: 15 MHz

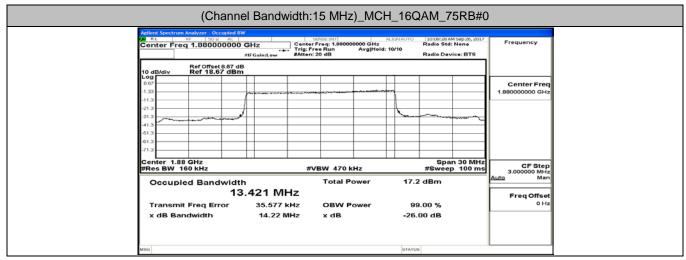
		15 MHz)_LC	H_QPSK_75RB#0	
 Addient Spectrum Analyzer Occupied I RL RP 50 9 AC Center Freq 1.857500000	GHz Center Fi #IFGain:Low #Atten: 20	req: 1.857500000 GHz Run Avg Hold	ALIONAUTO 10:06:52 AM Sep 26, 2017 Radio Std: None : 10/10 Radio Device: BTS	Frequency
Ref Offset 8.67 d Ref 18.67 dBr Log 0.67	B.			Center Freq 1.857500000 GHz
-11.3 -21.3 -31.3				
-41.3 -51.3 -61.3 -71.3				
Center 1.858 GHz #Res BW 160 kHz		3W 470 kHz	Span 30 MHz #Sweep 100 ms	CF Step 3.000000 MHz Auto Man
Occupied Bandwidt 1: Transmit Freg Error	th 3.373 MHz -39.465 kHz	Total Power OBW Power	19.4 dBm 99.00 %	Freq Offset 0 Hz
x dB Bandwidth	13.98 MHz	x dB	-26.00 dB	
MSG			STATUS	



	um Analyzer - Occu		Bandwi							
	Ref Offset 8 Ref 18.78	0000 GHz #IFGai 8,78 dB	1	Center Freq Trig: Free R Atten: 20 d	: 1.9025000 un		10/10	Radio Std		Frequency
Log 0.70 -1.22 -112 -21.2 -112 -21.2 -31.2 -41.2 -51.2 -61.2 -71.2 -71.2										Center Freq 1.902500000 GHz
Center 1. #Res BW				т	/ 470 kH	-	17.7	Spa #Sweep dBm	n 30 MHz p 100 ms	CF Step 3.000000 MHz <u>Auto</u> Man
	nit Freq Erro andwidth	or -1	2 MHz 8.738 kH 14.36 MH	z C	BW Pov	ver		.00 % 00 dB		Freq Offset 0 Hz
MSG							STATUS			

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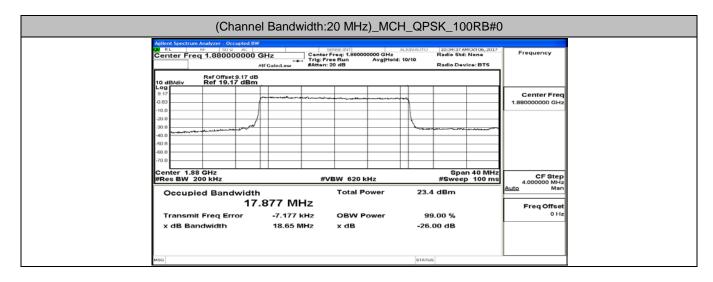


#ff Gaint.ew #Atten: 20 dB Radio Device: BTS 10 dB/div Ref Offset8.76 dB Ref 18.78 dB	
Log	
0.70 1.22	Center Freq 1.902500000 GHz
212	
112	
712 Span 30 MHz Center 1.903 GHz \$Span 30 MHz #Res BW 160 kHz #VBW 470 kHz \$Span 30 MHz	CF Step
	3.000000 MHz <u>Auto</u> Man
Transmit Freq Error -23.310 kHz OBW Power 99.00 % x dB Bandwidth 14.19 MHz x dB -26.00 dB	Freq Offset 0 Hz

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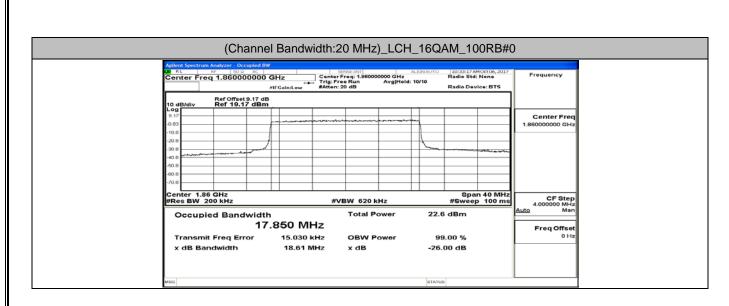
Channel Bandwidth: 20 MHz

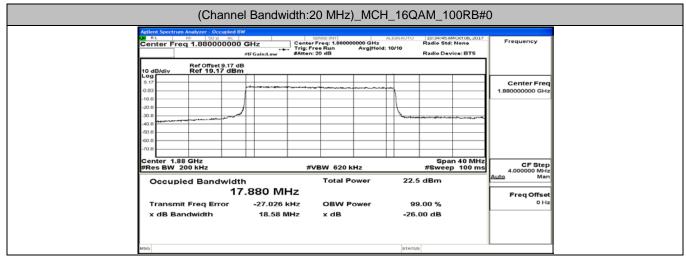
				I Bandv	vidth:2	20 MHz	z)_LCH	I_QF	PSK_10	00RB#0	
č.	enter Fr	m Analyzer - Occ 10 50 Ω eq 1.86000 Ref Offset:	AC 0000 G #1 9.17 dB	iHz FGain:Low	Center F Trig: Fre #Atten: 2	NHEINT req: 1.86000 e Run 0 dB	0000 GHz Avg Held:	10/10	Radio St	AMOCTOS, 2017 d: None evice: BTS	Frequency
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	17 83 0.0 0.8 0.8 0.8 0.8	Ref 19.17	7 dBm		0-4-5-4 						Center Freq 1.86000000 GHz
#	enter 1.8 Res BW Occup					BW 620 k Total Pe		2		an 40 MHz ap 100 ms	CF Step 4.000000 MHz Auto Man
		nit Freq Erra andwidth		22.919 I 18.65 M	kHz	OBW P x dB	ower		99.00 % 6.00 dB		Freq Offset 0 Hz
MS	а							STA	TUS		



Ref Offset 9.28 dB Center Freq 0.72 0.72 0.72 0.72 10.72 0.72 0.72 0.72 0.72 10.72 0.72 0.72 0.72 0.72 0.72 10.72 0.72	CO RL	(Ch m Analyzer - 0cc № 50 % eq 1.90000	upled BW AC 0000 C	el Bandv 3Hz ⊓FGain:Low	5	Freq: 1.90000	_	ALIONAUTO		MOCT06, 2017 I: None	Frequency
#Res BW 200 kHz #VBW 620 kHz #Sweep 100 ms CF Step CP Step 400000 MHz Occupied Bandwidth Total Power 23.5 dBm 17.866 MHz Freq Offset Transmit Freq Error -15.347 kHz OBW Power 99.00 %	Log 9.20 -0.72 -10.7 -20.7 -30.7 -40.7 -50.7 -60.7	Ref 19.23	9.28 dB 3 dBm								
	#Res BW Occup Transm	200 kHz bied Band bit Freq Erro	17.	-15.347	Нz кнz	Total P OBW P	ower	9	#Swee 5 dBm 9.00 %	n 40 MHz p 100 ms	4.000000 MHz Auto Man Freq Offset

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(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0

Center Fi	req 1.90000	"	SHZ IFGain:Low	Center Trig: F #Atten	Freq: 1,90000 ree Run : 20 dB	Avg Held	: 10/10	Radio Std: Radio Dev		Frequency
10 dB/div Log 9.20	Ref Offset Ref 19.2	9.28 dB 8 dBm								Center Freq
-0.72 -10.7 -20.7										1.90000000 GH2
-30.7 -40.7 -50.7									and the second sec	
-60.7										
Center 1. #Res BW				#	/BW 620 k	Hz		Spa #Sweep	n 40 MHz 5 100 ms	CF Step 4.000000 MHz Auto Man
Occur	oied Band		839 MI	Ηz	Total P	ower	22.	5 dBm		Freq Offset
	nit Freq Err andwidth	or	-22.342 k 18.59 N		OBW P x dB	ower		9.00 % .00 dB		0 Hz
MSG							STATU	15		1

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