Appendix B: Test Data For E-UTRA Band 4

B.1: RF Output Power

			Channel	Bandwidth 1.4 MHz		
Modulation	Channel	RB Conf	iguration	Average Power [dBm]	E.i.r.p [dBm]	Verdict
Modulation	Onamiei	Size	Offset	Average I ower [ubin]	L.i.i.p [dbiii]	Verdict
		1	0	22.51		PASS
		1	3	22.61		PASS
		1	5	22.40		PASS
	LCH	3	0	22.57		PASS
		3	2	22.50		PASS
		3	3	22.52		PASS
		6	0	21.60		PASS
		1	0	21.43		PASS
		1	3	21.44		PASS
		1	5	21.45		PASS
QPSK	MCH	3	0	21.55		PASS
		3	2	21.43		PASS
		3	3	21.42		PASS
		6	0	21.30		PASS
		1	0	21.76		PASS
		1	3	21.62		PASS
		1	5	21.63		PASS
	HCH	3	0	21.74		PASS
		3	2	21.66		PASS
		3	3	21.57		PASS
		6	0	21.31		PASS
		1	0	21.75		PASS
		1	3	21.93		PASS
		1	5	21.72		PASS
	LCH	3	0	21.67		PASS
		3	2	21.66		PASS
		3	3	21.65		PASS
		6	0	20.52		PASS
		1	0	21.79		PASS
16QAM		1	3	21.72		PASS
		1	5	21.75		PASS
	MCH	3	0	21.49		PASS
		3	2	20.47		PASS
		3	3	20.46		PASS
		6	0	20.28		PASS
		1	0	20.78		PASS
	нсн	1	3	20.77		PASS
	-	1	5	20.71		PASS

3	3	20.63	PASS
3	2	20.63	PASS
3	0	20.72	PASS

	Channel Bandwidth 3 MHz							
Modulation	Channel	RB Con	figuration	Average Power [dBm]	E.i.r.p [dBm]	Verdict		
Modulation	Onamici	Size	Offset	Average i ower [ubin]	<u> </u>	Verdict		
		1	0	22.47		PASS		
		1	7	22.50		PASS		
		1	14	22.30		PASS		
	LCH	8	0	21.55		PASS		
		8	4	21.47		PASS		
		8	7	21.41		PASS		
		15	0	21.50		PASS		
		1	0	22.35		PASS		
		1	7	22.38		PASS		
		1	14	22.38		PASS		
QPSK	MCH	8	0	21.51		PASS		
		8	4	21.48		PASS		
		8	7	21.49		PASS		
		15	0	21.51		PASS		
		1	0	22.92		PASS		
		1	7	22.75		PASS		
		1	14	22.65		PASS		
	HCH	8	0	21.97		PASS		
		8	4	21.84		PASS		
		8	7	21.83		PASS		
		15	0	21.73		PASS		
		1	0	21.73		PASS		
		1	7	21.74		PASS		
		1	14	21.55		PASS		
	LCH	8	0	20.60		PASS		
		8	4	20.63		PASS		
		8	7	20.49		PASS		
		15	0	20.44		PASS		
16QAM		1	0	21.61		PASS		
		1	7	21.65		PASS		
		1	14	21.61		PASS		
	MCH	8	0	20.49		PASS		
		8	4	20.55		PASS		
		8	7	20.49		PASS		
		15	0	20.45		PASS		
	HCH	1	0	21.76		PASS		

SHENZHEN LCS COMPLIAN	Report No.: LCS1601261992E			
	1	7	21.90	PASS
	1	14	21.85	PASS
	8	0	20.81	PASS
	8	4	20.72	PASS
	8	7	20.73	PASS
	15	0	20.65	PASS
	15	U	20.03	FASS

			Channe	el Bandwidth 5 MHz		
Modulation	Channel		figuration	Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset	-		
		1	0	22.49		PASS
		1	12	22.40		PASS
		1	24	22.11		PASS
	LCH	12	0	21.58		PASS
		12	6	21.48		PASS
		12	13	21.32		PASS
		25	0	21.41		PASS
		1	0	22.45		PASS
		1	12	22.49		PASS
		1	24	22.42		PASS
QPSK	MCH	12	0	21.48		PASS
		12	6	21.53		PASS
		12	13	21.45		PASS
		25	0	21.47		PASS
	нсн	1	0	22.93		PASS
		1	12	22.85		PASS
		1	24	22.70		PASS
		12	0	22.04		PASS
		12	6	21.96		PASS
		12	13	21.80		PASS
		25	0	21.90		PASS
		1	0	21.91		PASS
		1	12	21.80		PASS
		1	24	21.42		PASS
	LCH	12	0	20.66		PASS
		12	6	20.57		PASS
		12	13	20.44		PASS
16QAM		25	0	20.35		PASS
		1	0	21.78		PASS
		1	12	21.83		PASS
	MOLL	1	24	21.69		PASS
	MCH	12	0	20.62		PASS
		12	6	20.57		PASS
		12	13	20.63		PASS

SHENZHEN LC	S COMPLIANCE	E TESTING L	ABORATORY	LTD. FCC ID: 2AG5L-FTU152A	A Report No.: LCS1601261992E
		25	0	20.41	PASS
		1	0	21.81	PASS
		1	12	21.84	PASS
		1	24	21.56	PASS
	HCH	12	0	21.01	PASS
		12	6	20.95	PASS
		12	13	20.75	PASS
		25	0	20.80	PASS

			Channe	I Bandwidth 10 MHz		
Modulation	Channel	RB Con	figuration	Average Dower [dPm]	E.i.r.p [dBm]	Verdict
Modulation	Channel	Size	Offset	Average Power [dBm]	E.i.i.p [dbiii]	verdict
		1	0	22.84		PASS
		1	24	22.79		PASS
		1	49	22.35		PASS
	LCH	25	0	22.32		PASS
		25	12	22.02		PASS
		25	25	21.75		PASS
		50	0	21.99		PASS
		1	0	22.47		PASS
		1	24	22.34		PASS
		1	49	22.46		PASS
QPSK	MCH	25	0	21.51		PASS
		25	12	21.46		PASS
		25	25	21.40		PASS
		50	0	21.31		PASS
	нсн	1	0	22.79		PASS
		1	24	22.77		PASS
		1	49	22.55		PASS
		25	0	21.52		PASS
		25	12	21.41		PASS
		25	25	21.41		PASS
		50	0	21.22		PASS
		1	0	21.68		PASS
		1	24	21.33		PASS
		1	49	20.56		PASS
	LCH	25	0	20.26		PASS
		25	12	20.38		PASS
16QAM		25	25	20.24		PASS
		50	0	20.15		PASS
		1	0	21.70		PASS
	MOLL	1	24	21.61		PASS
	MCH	1	49	21.70		PASS
		25	0	20.49		PASS

SHENZHEN LC	SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.			LTD. FCC ID: 2AG5L-FTU152A	Report No.: LCS1601261992E
		25	12	20.43	PASS
		25	25	20.40	PASS
		50	0	20.27	PASS
		1	0	21.38	PASS
		1	24	21.30	PASS
		1	49	20.87	PASS
	HCH	25	0	20.44	PASS
		25	12	20.69	PASS
		25	25	20.45	PASS
		50	0	20.24	PASS

			Channe	l Bandwidth 15 MHz		
Modulation	Channel	RB Con Size	figuration Offset	Average Power [dBm]	E.i.r.p [dBm]	Verdict
		1	0	22.56		PASS
		1	37	22.30		PASS
		1	74	22.18		PASS
	LCH	37	0	21.56		PASS
		37	18	21.37		PASS
		37	38	21.28		PASS
		75	0	21.14		PASS
		1	0	22.63		PASS
		1	37	22.41		PASS
		1	74	22.57		PASS
QPSK	MCH	37	0	21.64		PASS
		37	18	21.52		PASS
		37	38	21.59		PASS
		75	0	21.26		PASS
		1	0	22.57		PASS
		1	37	22.41		PASS
		1	74	22.33		PASS
	HCH	37	0	21.46		PASS
		37	18	21.56		PASS
		37	38	21.48		PASS
		75	0	21.19		PASS
		1	0	21.91		PASS
		1	37	21.84		PASS
		1	74	21.69		PASS
	LCH	37	0	20.71		PASS
16QAM		37	18	20.69		PASS
		37	38	20.48		PASS
		75	0	20.17		PASS
	MCH	1	0	21.88		PASS
	IVIOII	1	37	21.58		PASS

<u>SHENZHEN LC</u>	S COMPLIANCE	E TESTING L	ABORATORY I	LTD. FCC ID: 2AG5L-FTU152A	Report No.: LCS1601261992E
		1	74	21.91	PASS
		37	0	20.58	PASS
		37	18	20.48	PASS
		37	38	20.52	PASS
		75	0	20.42	PASS
		1	0	21.59	PASS
		1	37	21.35	PASS
		1	74	21.32	PASS
	HCH	37	0	21.06	PASS
		37	18	20.58	PASS
		37	38	20.47	PASS
		75	0	20.25	PASS

	Channel Bandwidth 20 MHz								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	E.i.r.p [dBm]	Verdict			
Wodulation	Chamilei	Size	Offset	Average Fower [ubin]	E.i.i.p [dbiii]	verdict			
		1	0	22.48		PASS			
		1	49	21.45		PASS			
		1	99	21.43		PASS			
	LCH	50	0	21.95		PASS			
		50	25	21.37		PASS			
		50	50	21.26		PASS			
		100	0	21.36		PASS			
		1	0	22.70		PASS			
		1	49	21.52		PASS			
		1	99	21.41		PASS			
QPSK	MCH	50	0	21.65		PASS			
		50	25	21.40		PASS			
		50	50	21.54		PASS			
		100	0	21.61		PASS			
		1	0	22.53		PASS			
		1	49	21.58		PASS			
		1	99	21.55		PASS			
	HCH	50	0	21.68		PASS			
		50	25	21.61		PASS			
		50	50	21.49		PASS			
		100	0	21.34		PASS			
		1	0	20.67		PASS			
		1	49	20.57		PASS			
		1	99	20.53		PASS			
16QAM	LCH	50	0	20.93		PASS			
		50	25	20.30		PASS			
		50	50	20.27		PASS			
		100	0	20.38		PASS			

SHENZHEN LC.	S COMPLIANCE	E TESTING L	ABORATORY .	LTD. FCC ID: 2AG5L-FTU152A	Report No.: LCS1601261992E
		1	0	20.71	PASS
		1	49	20.61	PASS
		1	99	20.55	PASS
	MCH	50	0	20.53	PASS
		50	25	20.38	PASS
		50	50	20.53	PASS
		100	0	20.42	PASS
		1	0	20.77	PASS
		1	49	20.62	PASS
		1	99	20.56	PASS
	HCH	50	0	20.46	PASS
		50	25	20.18	PASS
		50	50	20.28	PASS
		100	0	20.20	PASS

B.2: Peak-to-Average Ratio

			Channel I	Bandwidth 1.4 MHz		
Modulation	Channel	RB Conf	iguration	Peak-to-Average Ratio	Limit	Verdict
Modulation	Chamei	Size	Offset	(dB)	(dB)	verdict
		1	0	4.42	<13	PASS
		1	3	4.35	<13	PASS
		1	5	4.26	<13	PASS
	LCH	3	0	4.18	<13	PASS
		3	2	4.13	<13	PASS
		3	3	4.1	<13	PASS
		6	0	5.26	<13	PASS
		1	0	3.61	<13	PASS
		1	3	3.73	<13	PASS
		1	5	3.76	<13	PASS
QPSK	MCH	3	0	3.62	<13	PASS
		3	2	3.64	<13	PASS
		3	3	3.68	<13	PASS
		6	0	4.8	<13	PASS
		1	0	2.94	<13	PASS
		1	3	2.96	<13	PASS
		1	5	2.97	<13	PASS
	HCH	3	0	3.01	<13	PASS
		3	2	2.93	<13	PASS
		3	3	3.03	<13	PASS
		6	0	4.14	<13	PASS
		1	0	5.28	<13	PASS
		1	3	5.24	<13	PASS
		1	5	5.16	<13	PASS
	LCH	3	0	5.06	<13	PASS
		3	2	5	<13	PASS
		3	3	4.99	<13	PASS
		6	0	6.05	<13	PASS
		1	0	4.53	<13	PASS
16QAM		1	3	4.67	<13	PASS
		1	5	4.68	<13	PASS
	MCH	3	0	4.42	<13	PASS
		3	2	4.45	<13	PASS
		3	3	4.53	<13	PASS
		6	0	5.57	<13	PASS
		1	0	3.91	<13	PASS
	HCH	1	3	3.91	<13	PASS
		1	5	3.92	<13	PASS

<u>SHENZHEN LCS COMPLI</u>	<u>ANCE TESTING L</u>	<u>ABORATORY L'</u>	TD. FCC ID: 2AG5L-FTU152A	Report No.: LCS1	<u>601261992E</u>
	3	0	3.77	<13	PASS
	3	2	3.74	<13	PASS
	3	3	3.79	<13	PASS
	6	0	4.95	<13	PASS

			Channel	Bandwidth 3 MHz		
Moduletie	Characal	RB Conf	iguration	Peak-to-Average Ratio	Limit	\/a malia t
Modulation	Channel	Size	Offset	[dB]	[dB]	verdict
		1	0	4.53	<13	PASS
		1	7	4.3	<13	PASS
		1	14	4.14	<13	PASS
	LCH	8	0	5.15	<13	PASS
		8	4	5.05	<13	PASS
		8	7	5.09	<13	PASS
		15	0	5.39	<13	PASS
		1	0	3.67	<13	PASS PASS PASS PASS PASS
		1	7	3.82	<13	PASS
		1	14	4.03	<13	PASS
QPSK	MCH	8	0	4.58	<13	PASS
		8	4	4.6	<13	PASS
		8	7	4.75	<13	PASS
		15	0	5.08	<13	PASS
		1	0	2.87	<13	PASS
		1	7	2.91	<13	PASS
		1	14	2.99	<13	PASS
	HCH	8	0	3.93	<13	PASS
		8	4	3.79	<13	PASS
		8	7	3.94	<13	PASS
		15	0	4.56	<13	PASS
		1	0	5.33	<13	PASS
		1	7	5.14	<13	PASS
		1	14	4.98	<13	PASS
	LCH	8	0	5.81	<13	PASS
		8	4	5.72	<13	PASS
		8	7	5.77	<13	PASS
		15	0	6.14	<13	PASS
16QAM		1	0	4.53	<13	PASS
		1	7	4.66	<13	PASS
		1	14	4.91	<13	PASS
	MCH	8	0	5.32	<13	PASS
		8	4	5.36	<13	PASS
		8	7	5.47	<13	PASS
		15	0	5.87	<13	PASS
	HCH	1	0	3.89	<13	PASS

NCE TESTING L	ABORATORY LTI	D. FCC ID: 2AG5L-FTU152A	Report No.: LCS	<u>1601261992E</u>
1	7	3.94	<13	PASS
1	14	3.91	<13	PASS
8	0	4.77	<13	PASS
8	4	4.66	<13	PASS
8	7	4.79	<13	PASS
15	0	5.32	<13	PASS
	1 1 8 8 8	1 7 1 14 8 0 8 4 8 7	1 7 3.94 1 14 3.91 8 0 4.77 8 4 4.66 8 7 4.79	1 7 3.94 <13

			Channel	Bandwidth 5 MHz		
Modulation	Channel	RB Conf	iguration	Peak-to-Average Ratio	Limit	Vardiat
iviodulation	Channel	Size	Offset	[dB]	[dB]	verdict
		1	0	4.38	<13	PASS
		1	12	4.08	<13	PASS
		1	24	3.81	<13	PASS
	LCH	12	0	5.11	<13	PASS
		12	6	4.99	<13	PASS
		12	13	4.87	<13	PASS
		25	0	5.33	<13	PASS
		1	0	3.61	<13	PASS
		1	12	3.68	<13	PASS
		1	24	4.06	<13	PASS
QPSK	MCH	12	0	4.63	<13	PASS
		12	6	4.59	<13	PASS
		12	13	4.85	<13	PASS
		25	0	5.18	<13	PASS
		1	0	3.17	<13	PASS
		1	12	2.95	<13	PASS
		1	24	3.02	<13	PASS
	HCH	12	0	4.07	<13	PASS
		12	6	3.88	<13	PASS PASS PASS PASS PASS PASS PASS PASS
		12	13	3.94	<13	PASS
		25	0	4.55	<13	PASS
		1	0	5.18	<13	PASS
		1	12	4.96	<13	PASS
		1	24	4.71	<13	PASS
	LCH	12	0	5.89	<13	PASS
		12	6	5.78	<13	PASS
		12	13	5.66	<13	PASS
16QAM		25	0	6.09	<13	PASS
		1	0	4.52	<13	PASS
		1	12	4.57	<13	PASS
	MOLL	1	24	4.93	<13	PASS
	MCH	12	0	5.39	<13	PASS
		12	6	5.37	<13	PASS
		12	13	5.6	<13	PASS

<u>SHENZHEN</u>	<u>LCS COMPLIAN</u>	<u>CE TESTING L</u>	<u>ABORATORY LTD.</u>	FCC ID: 2AG5L-FTU152A	Report No.: LCS	<u>1601261992E</u>
		25	0	5.88	<13	PASS
		1	0	3.98	<13	PASS
		1	12	3.72	<13	PASS
		1	24	3.85	<13	PASS
	HCH	12	0	5	<13	PASS
		12	6	4.79	<13	PASS
		12	13	4.84	<13	PASS
		25	0	5.34	<13	PASS

			Channel I	Bandwidth 10 MHz		
Modulation	Channel	RB Conf	iguration	Peak-to-Average Ratio	Limit	Verdict
Modulation	Gilailie	Size	Offset	[dB]	[dB]	verdict
		1	0	4.43	<13	PASS
		1	24	3.8	<13	PASS
		1	49	3.29	<13	PASS
	LCH	25	0	5.14	<13	PASS
		25	12	4.84	<13	PASS
		25	25	4.71	<13	PASS
		50	0	5.12	<13	PASS
		1	0	3.52	<13	PASS
		1	24	3.77	<13	PASS
		1	49	4.23	<13	PASS
QPSK	MCH	25	0	4.76	<13	PASS
		25	12	4.89	<13	PASS
		25	25	5.03	<13	PASS
		50	0	5.21	<13	PASS
		1	0	3.9	<13	PASS
		1	24	3.14	<13	PASS
		1	49	2.98	<13	PASS
	HCH	25	0	4.79	<13	PASS
		25	12	4.39	<13	PASS
		25	25	4.32	<13	PASS
		50	0	4.9	<13	PASS
		1	0	5.26	<13	PASS
		1	24	4.68	<13	PASS
		1	49	4.18	<13	PASS
	LCH	25	0	5.93	<13	PASS
		25	12	5.67	<13	PASS
16QAM		25	25	5.55	<13	PASS
		50	0	5.91	<13	PASS
		1	0	4.37	<13	PASS
	MOLL	1	24	4.58	<13	PASS
	MCH	1	49	5.14	<13	PASS
		25	0	5.57	<13	PASS

<u>SHENZHEN I</u>	LCS COMPLIAN	<u>CE TESTING L</u>	<u>ABORATORY LTD.</u>	FCC ID: 2AG5L-FTU152A	Report No.: LCS1601261992E	
1		1			T	
		25	12	5.64	<13	PASS
		25	25	5.84	<13	PASS
		50	0	5.89	<13	PASS
		1	0	4.82	<13	PASS
		1	24	4.12	<13	PASS
		1	49	3.89	<13	PASS
	HCH	25	0	5.59	<13	PASS
		25	12	5.24	<13	PASS
		25	25	5.14	<13	PASS
		50	0	5.67	<13	PASS

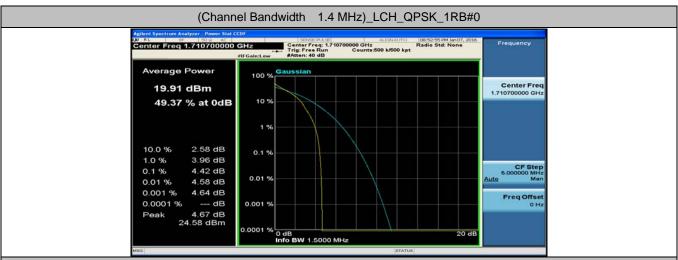
			Channel	Bandwidth 15 MHz		
Modulation	Channel	RB Conf	iguration	Peak-to-Average Ratio	Limit	Verdict
iviodulation	Channel	Size	Offset	[dB]	[dB]	verdict
		1	0	7.96	<13	PASS
		1	37	3.53	<13	PASS
		1	74	10.78	<13	PASS
	LCH	37	0	4.45	<13	PASS
		37	18	4.75	<13	PASS
		37	38	4.57	<13	PASS
		75	0	4.86	<13	PASS
		1	0	8.47	<13	PASS
		1	37	3.82	<13	PASS
		1	74	9.61	<13	PASS
QPSK	MCH	37	0	4.44	<13	PASS
		37	18	5.04	<13	PASS
		37	38	4.77	<13	PASS
		75	0	4.97	<13	PASS
		1	0	7.94	<13	PASS
		1	37	3.71	<13	PASS
		1	74	10.48	<13	PASS
	HCH	37	0	4.64	<13	PASS
		37	18	4.88	<13	PASS
		37	38	4.57	<13	PASS
		75	0	4.9	<13	PASS
		1	0	8.07	<13	PASS
		1	37	4.45	<13	PASS
		1	74	11.13	<13	PASS
	LCH	37	0	5.65	<13	PASS
16QAM		37	18	5.59	<13	PASS
		37	38	5.74	<13	PASS
		75	0	6	<13	PASS
	MOLL	1	0	8.44	<13	PASS
	MCH	1	37	4.6	<13	PASS

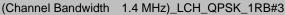
<u>SHENZHEN I</u>	LCS COMPLIAN	<u>CE TESTING L</u>	<u>ABORATORY LT</u>	TD. FCC ID: 2AG5L-FTU152A	Report No.: LCS1	<u>601261992E</u>
		1	74	10.27	<13	PASS
		37	0	5.65	<13	PASS
		37	18	5.8	<13	PASS
		37	38	5.91	<13	PASS
		75	0	6.15	<13	PASS
		1	0	8.24	<13	PASS
		1	37	4.59	<13	PASS
		1	74	10.99	<13	PASS
	HCH	37	0	5.88	<13	PASS
		37	18	5.71	<13	PASS
		37	38	5.77	<13	PASS
		75	0	6.11	<13	PASS

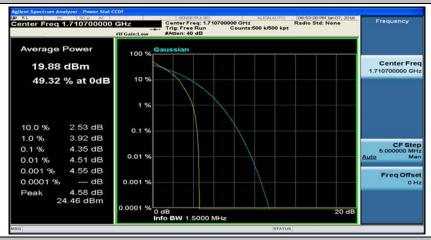
			Channel	Bandwidth 20 MHz		
Modulation	Channel	RB Conf	iguration	Peak-to-Average Ratio	Limit	Verdict
Woddiation	Charine	Size	Offset	[dB]	[dB]	Veruici
		1	0	8.91	<13	PASS
		1	49	3.19	<13	PASS
		1	99	8.93	<13	PASS
	LCH	50	0	5.2	<13	PASS
		50	25	4.94	<13	PASS
		50	50	5.61	<13	PASS
		100	0	5.66	<13	PASS
		1	0	8.57	<13	PASS
		1	49	3.71	<13	PASS
		1	99	8.68	<13	PASS
QPSK	MCH	50	0	5.4	<13	PASS
		50	25	5.23	<13	PASS
		50	50	5.76	<13	PASS
		100	0	5.71	<13	PASS
		1	0	8.3	<13	PASS
		1	49	4.04	<13	PASS
		1	99	8.31	<13	PASS
	HCH	50	0	5.51	<13	PASS
		50	25	5.28	<13	PASS
		50	50	5.86	<13	PASS
		100	0	5.72	<13	PASS
		1	0	9.04	<13	PASS
		1	49	4.07	<13	PASS
		1	99	8.76	<13	PASS
16QAM	LCH	50	0	6.28	<13	PASS
		50	25	5.68	<13	PASS
		50	50	6.41	<13	PASS
		100	0	6.58	<13	PASS

<u>SHENZHEN L</u>	.CS COMPLIAN	CE TESTING L	ABORATORY LTD.	FCC ID: 2AG5L-FTU152A	Report No.: LCS	<u>1601261992E</u>
		1	0	8.55	<13	PASS
		1	49	4.54	<13	PASS
		1	99	8.73	<13	PASS
	MCH	50	0	6.47	<13	PASS
		50	25	5.94	<13	PASS
		50	50	6.66	<13	PASS
		100	0	6.75	<13	PASS
		1	0	8.78	<13	PASS
		1	49	4.81	<13	PASS
		1	99	8.33	<13	PASS
	HCH	50	0	6.61	<13	PASS
		50	25	5.97	<13	PASS
		50	50	6.68	<13	PASS
		100	0	6.68	<13	PASS

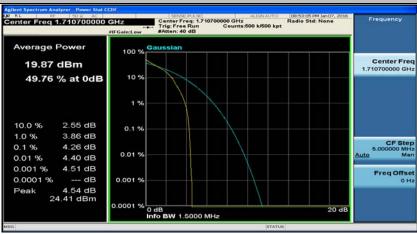
Test Graphs



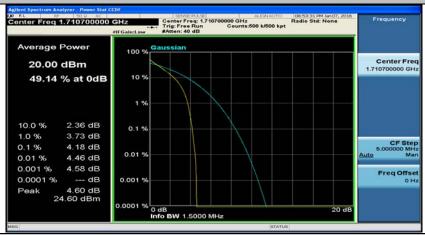




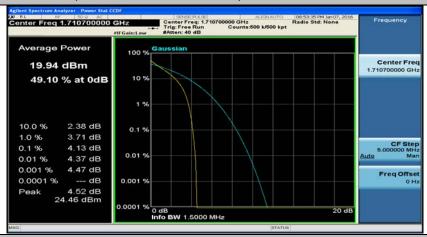
(Channel Bandwidth 1.4 MHz)_LCH_QPSK_1RB#5



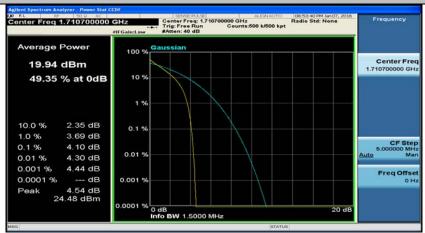
(Channel Bandwidth 1.4 MHz)_LCH_QPSK_3RB#0



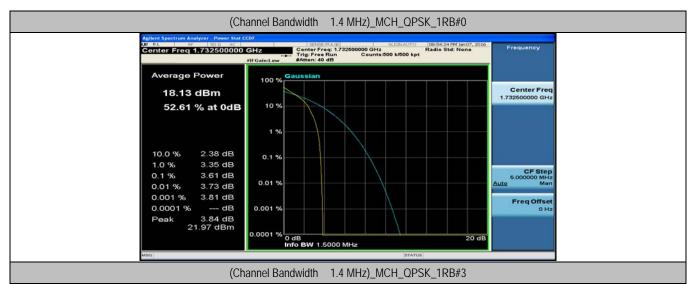
(Channel Bandwidth 1.4 MHz)_LCH_QPSK_3RB#2

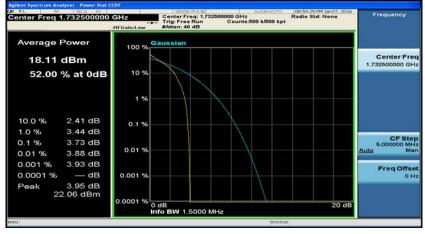


(Channel Bandwidth 1.4 MHz)_LCH_QPSK_3RB#3



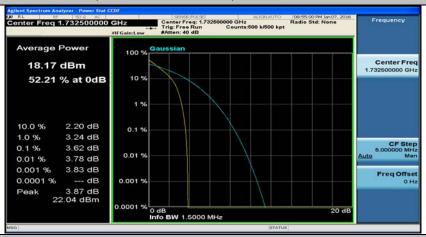
(Channel Bandwidth 1.4 MHz)_LCH_QPSK_6RB#0 | Center Freq: 1,710700000 GHz | Radio Std: None | #Atten: 40 dB | Radio Std: None | ter Freq 1.710700000 GHz Average Power 100 % Center Freq 1.710700000 GHz 18.88 dBm 47.12 % at 0dB 10 % 1 % 10.0 % 2.61 dB 0.1 % 4.35 dB 1.0 % CF Step 5.000000 MHz Man 0.1 % 5.26 dB 0.01 % 0.01 % 5.73 dB 0.001 % 6.02 dB Freq Offse 0.0001 % --- dB 0.001 9 6.09 dB 24.97 dBm 0.0001 % 0 dB Info BW 1.5000 MHz 20 dB



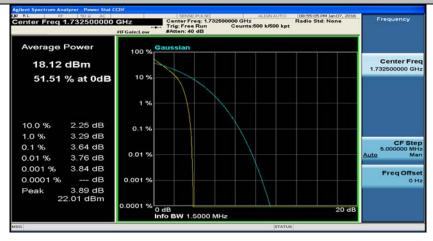


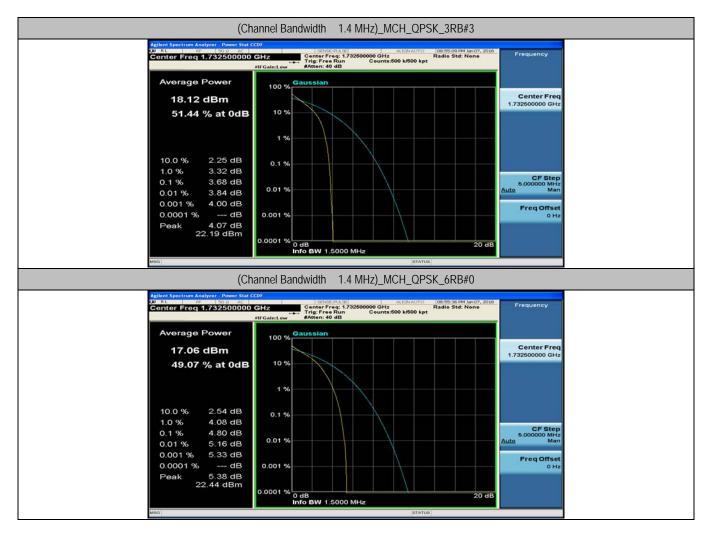
(Channel Bandwidth 1.4 MHz)_MCH_QPSK_1RB#5 | SENSE PLASE | ALIONALITO | OB-54:34 PM 3an07, | Center Freq: 1.732800000 GHz | Radio Std: None | Trig: Free Run | Counts:500 k/500 kpt | MAtten: 40 dB | Radio Std: None | R ter Freq 1.732500000 GHz Average Power 100 % Center Freq 1.732500000 GHz 18.12 dBm 52.09 % at 0dB 10 % 1 % 10.0 % 2.40 dB 0.1 % 3.46 dB CF Step 5.000000 MHz Mar 1.0 % 0.1 % 3.76 dB 0.01 % 0.01 % 3.89 dB 0.001 % 3.96 dB Freq Offs 0.0001 % --- dB 0.001 9 3.97 dB 22.09 dBm 0.0001 9 0 dB Info BW 1.5000 MHz 20 dB

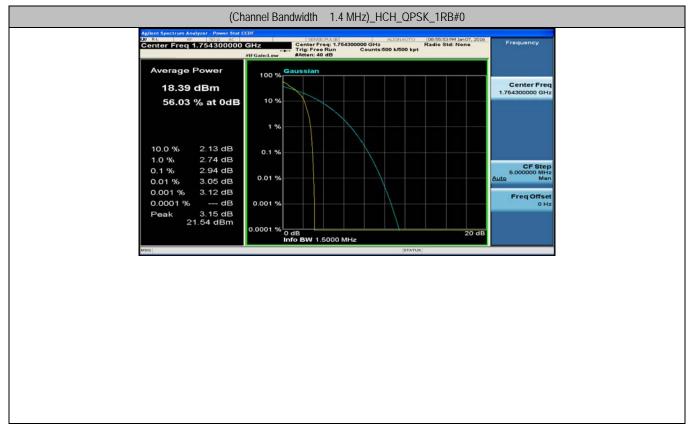
(Channel Bandwidth 1.4 MHz)_MCH_QPSK_3RB#0



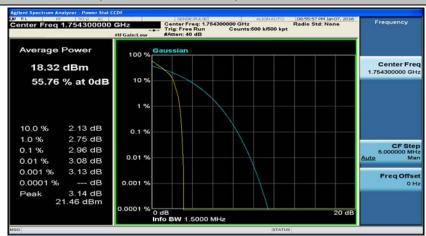
(Channel Bandwidth 1.4 MHz)_MCH_QPSK_3RB#2







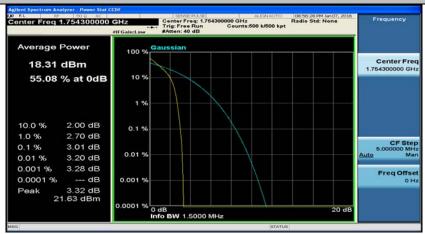
(Channel Bandwidth 1.4 MHz)_HCH_QPSK_1RB#3



(Channel Bandwidth 1.4 MHz)_HCH_QPSK_1RB#5

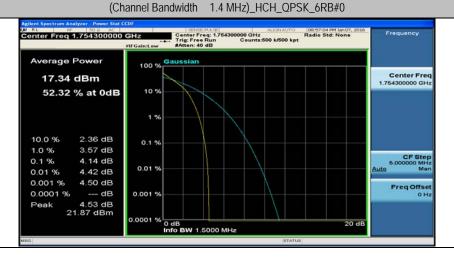


(Channel Bandwidth 1.4 MHz)_HCH_QPSK_3RB#0

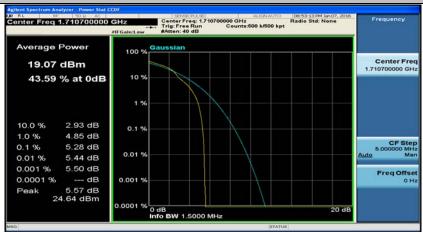


(Channel Bandwidth 1.4 MHz)_HCH_QPSK_3RB#2 ter Freq 1.754300000 GHz Average Power 100 % Center Freq 1.754300000 GHz 18.27 dBm 55.09 % at 0dB 10 % 1 % 10.0 % 2.00 dB 0.1 % 2.67 dB 1.0 % CF Step 5.000000 MHz Man 0.1 % 2.93 dB 0.01 % 3.04 dB 0.01 % 0.001 % 3.09 dB Freq Offse 0.0001 % --- dB 0.001 9 3.12 dB 21.39 dBm 0 dB Info BW 1.5000 MHz 20 dB (Channel Bandwidth 1.4 MHz)_HCH_QPSK_3RB#3 Center Freq: 1.764300000 GHz Trig: Free Run Counts:500 k/500 kpt #Atten: 40 dB ter Freq 1.754300000 GHz

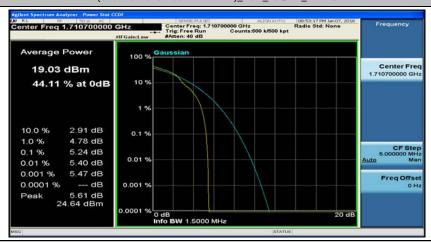




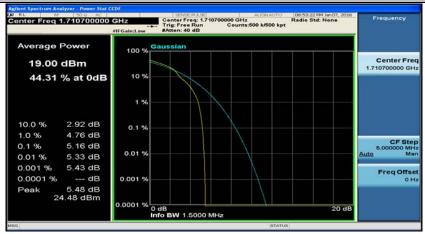
(Channel Bandwidth 1.4 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth 1.4 MHz)_LCH_16QAM_1RB#3

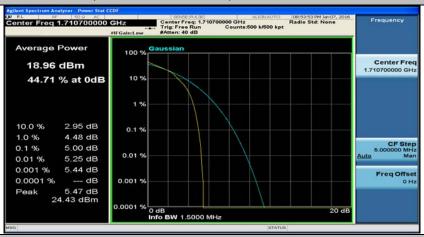


(Channel Bandwidth 1.4 MHz)_LCH_16QAM_1RB#5

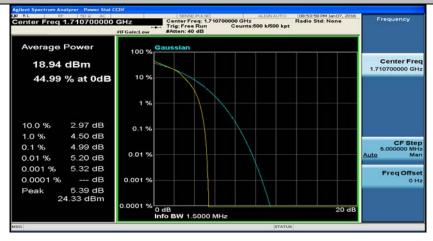


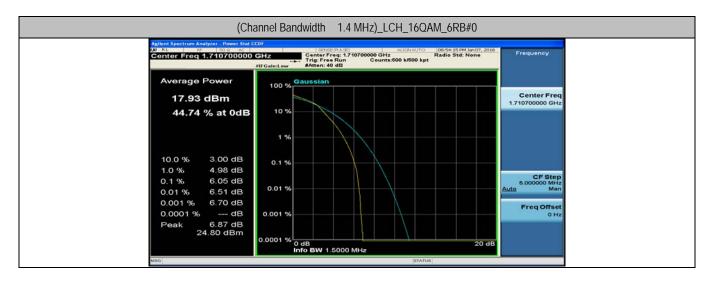
(Channel Bandwidth 1.4 MHz)_LCH_16QAM_3RB#0 | SENSE FULSE | ALIONALITO | OB-52148 FM 3an07, | Center Freq: 1.710700000 GHz | Radio Std: None | Trig: Free Run | Counts:500 k/500 kpt | MAtten: 40 dB | Radio Std: None | R ter Freq 1.710700000 GHz Average Power 100 % 19.00 dBm Center Freq 1.710700000 GHz 44.96 % at 0dB 10 % 1 % 10.0 % 2.97 dB 0.1 % 4.53 dB CF Step 5.000000 MHz Mar 1.0 % 0.1 % 5.06 dB 0.01 % 5.29 dB 0.01 % 0.001 % 5.46 dB Freq Offs 0.0001 % --- dB 0.001 9 5.51 dB 24.51 dBm 0 dB Info BW 1.5000 MHz 20 dB

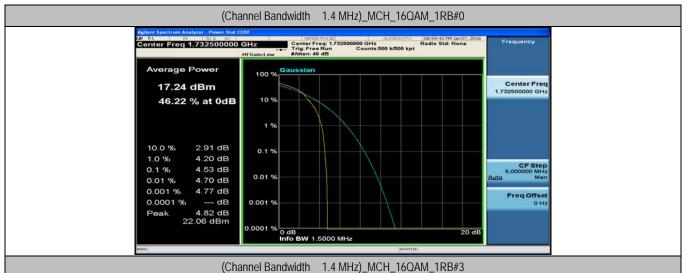
(Channel Bandwidth 1.4 MHz)_LCH_16QAM_3RB#2

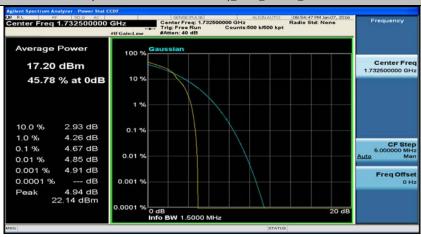


(Channel Bandwidth 1.4 MHz)_LCH_16QAM_3RB#3



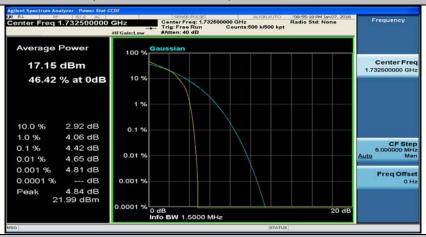




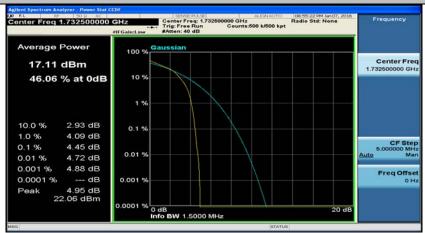


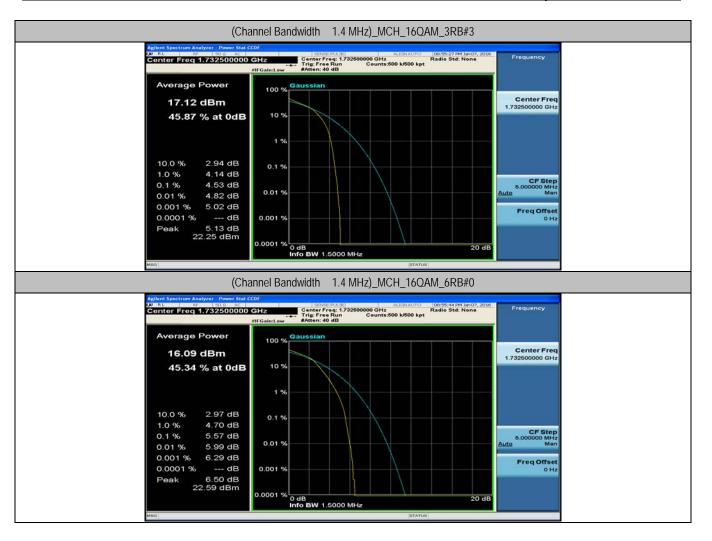
(Channel Bandwidth 1.4 MHz)_MCH_16QAM_1RB#5 | SENSE PLUSE | ALIONALITO | OB-54:51 PM Jan07, | Center Freq: 1.732800000 GHz | Radio Std: None | Trig: Free Run | Counts:500 k/500 kpt | MAtten: 40 dB | Radio Std: None | R ter Freq 1.732500000 GHz Average Power 100 % Center Freq 1.732500000 GHz 17.24 dBm 45.59 % at 0dB 10 % 1 % 10.0 % 2.92 dB 0.1 % 4.33 dB 1.0 % CF Step 5.000000 MHz Man 4.68 dB 0.1 % 0.01 % 4.85 dB 0.01 % 0.001 % 4.93 dB Freq Offs 0.0001 % --- dB 0.001 9 4.97 dB 22.21 dBm 0 dB Info BW 1.5000 MHz 20 dB

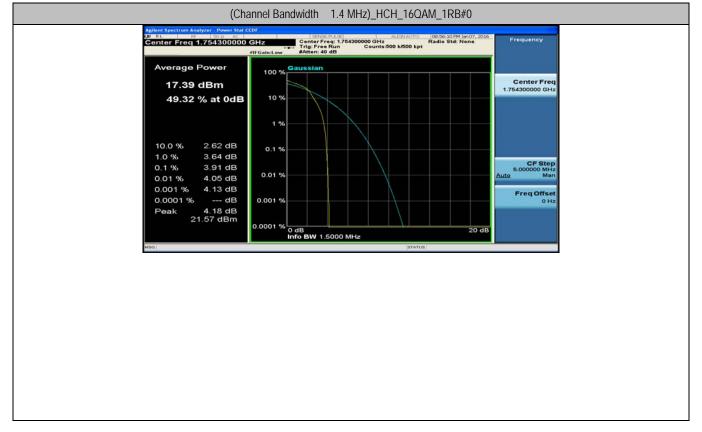
(Channel Bandwidth 1.4 MHz)_MCH_16QAM_3RB#0



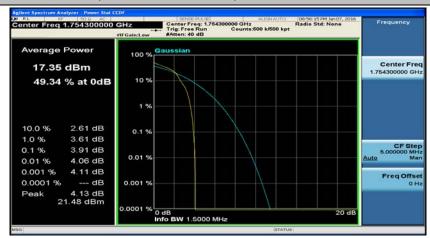
(Channel Bandwidth 1.4 MHz)_MCH_16QAM_3RB#2



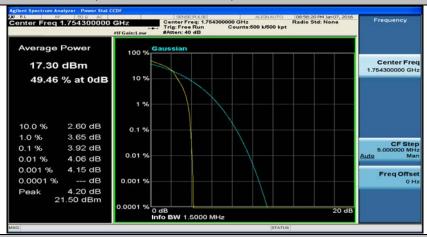




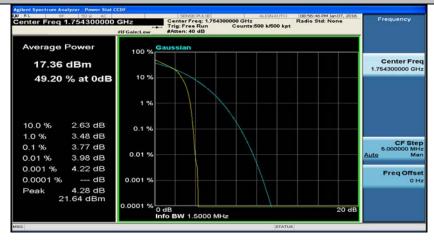
(Channel Bandwidth 1.4 MHz)_HCH_16QAM_1RB#3



(Channel Bandwidth 1.4 MHz)_HCH_16QAM_1RB#5



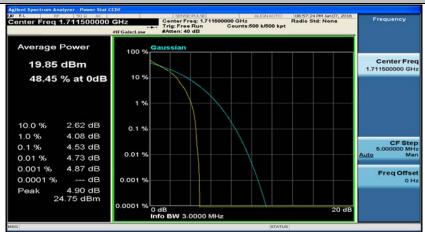
(Channel Bandwidth 1.4 MHz)_HCH_16QAM_3RB#0



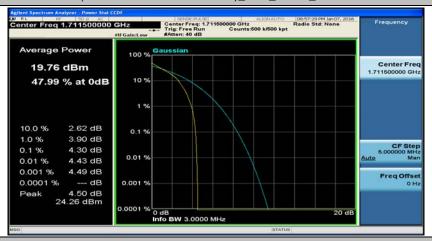
(Channel Bandwidth 1.4 MHz)_HCH_16QAM_3RB#2 | SENSE PLASE | ALIONALITO | OB-56:50 PM Jan07, | Center Freq: 1.754300000 GHz | Radio Std: None | Trig: Free Run | Counts:500 k/500 kpt | MAtten: 40 dB | Radio Std: None | R ter Freq 1.754300000 GHz Average Power 100 % Center Freq 1.754300000 GHz 17.32 dBm 49.09 % at 0dB 10 % 1 % 10.0 % 2.63 dB 0.1 % 3.47 dB 1.0 % CF Step 5.000000 MHz Man 3.74 dB 0.1 % 0.01 % 3.88 dB 0.01 % 0.001 % 3.98 dB Freq Offse 0.0001 % --- dB 0.001 % 4.13 dB 21.45 dBm 0.0001 % 0 dB Info BW 1.5000 MHz 20 dB (Channel Bandwidth 1.4 MHz)_HCH_16QAM_3RB#3 Average Power Center Freq 1.754300000 GHz 17.30 dBm 49.04 % at 0dB 10 % 1 % 10.0 % 2.62 dB 0.1 % 1.0 % 3.48 dB CF Step 5.000000 MHz Mar 0.1 % 3.79 dB 0.01 % 0.01 % 3.97 dB 0.001 % 4.14 dB Freq Offset 0.0001 % --- dB 0.001 4.20 dB 21.50 dBm 0 dB Info BW 1.5000 MHz (Channel Bandwidth 1.4 MHz)_HCH_16QAM_6RB#0



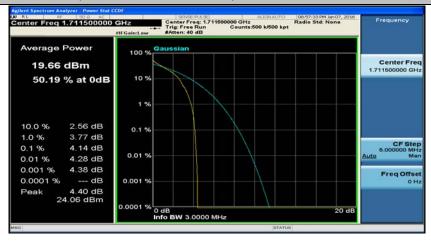
(Channel Bandwidth 3 MHz)_LCH_QPSK_1RB#0



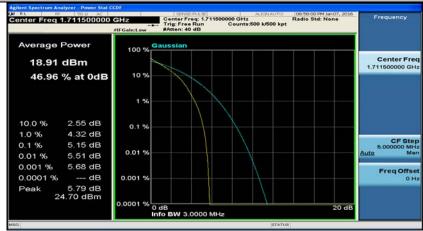
(Channel Bandwidth 3 MHz)_LCH_QPSK_1RB#7



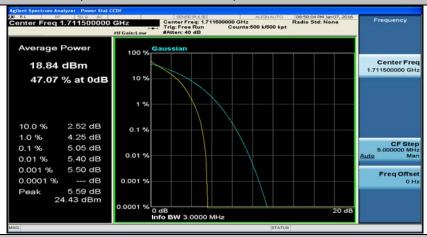
(Channel Bandwidth 3 MHz)_LCH_QPSK_1RB#14



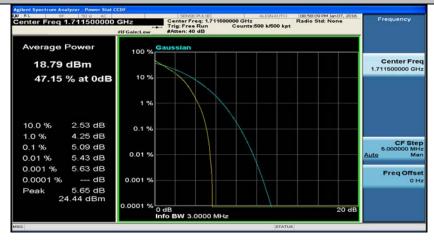
(Channel Bandwidth 3 MHz)_LCH_QPSK_8RB#0

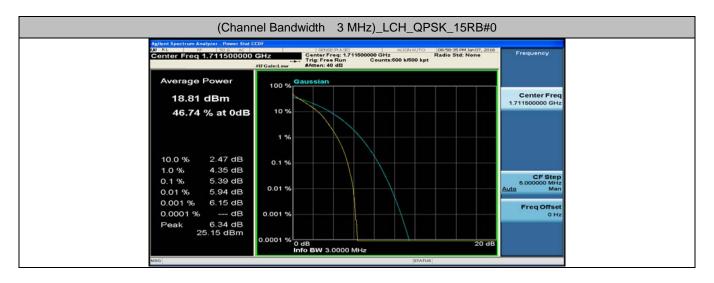


(Channel Bandwidth 3 MHz)_LCH_QPSK_8RB#4

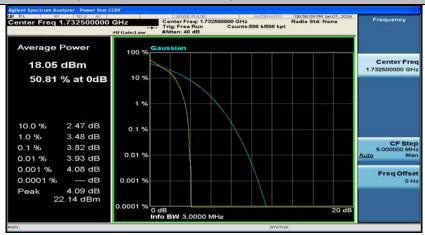


(Channel Bandwidth 3 MHz)_LCH_QPSK_8RB#7





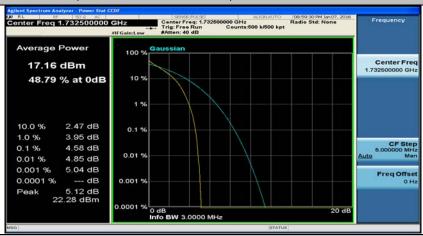




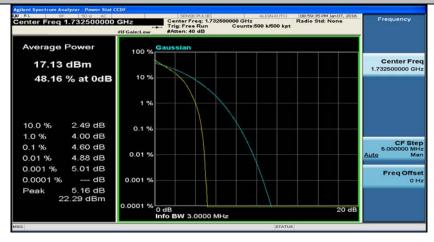
(Channel Bandwidth 3 MHz)_MCH_QPSK_1RB#14

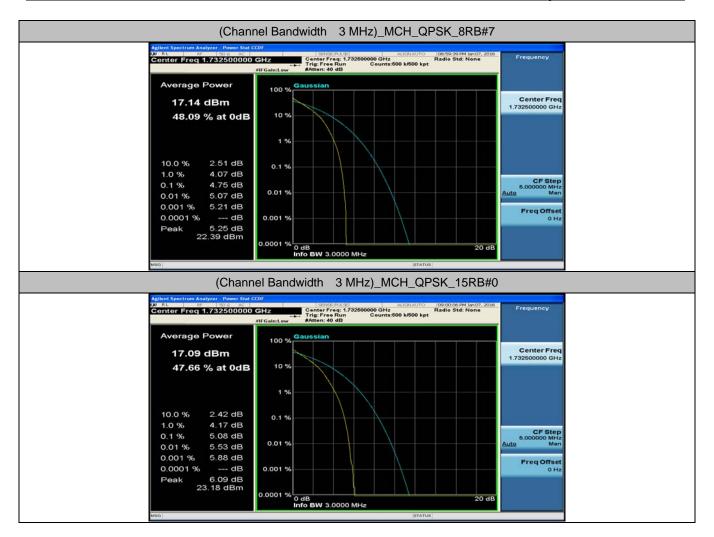


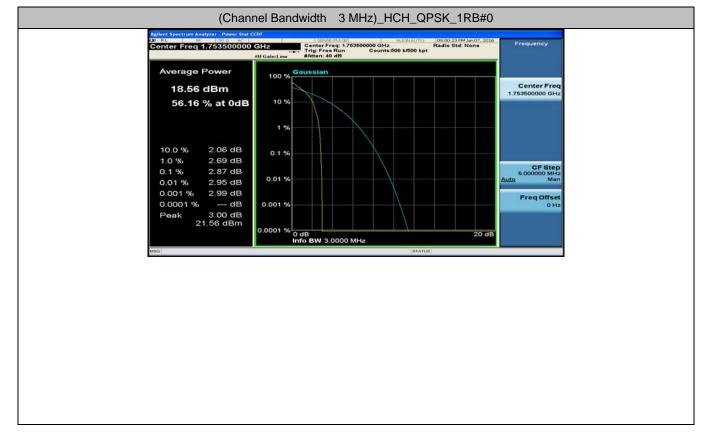
(Channel Bandwidth 3 MHz)_MCH_QPSK_8RB#0



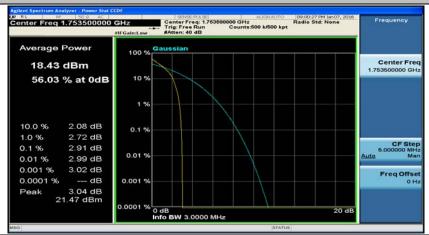
(Channel Bandwidth 3 MHz)_MCH_QPSK_8RB#4



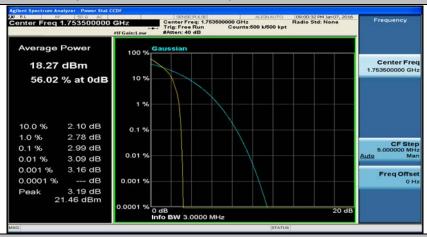




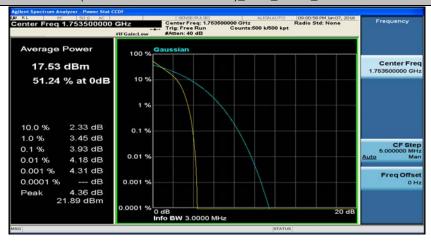
(Channel Bandwidth 3 MHz)_HCH_QPSK_1RB#7



(Channel Bandwidth 3 MHz)_HCH_QPSK_1RB#14

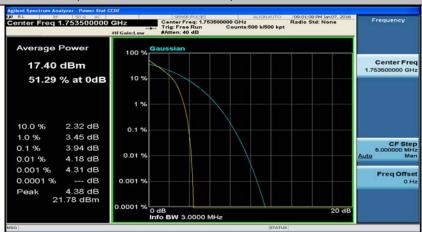


(Channel Bandwidth 3 MHz)_HCH_QPSK_8RB#0

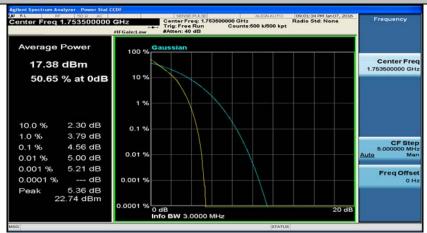


(Channel Bandwidth 3 MHz)_HCH_QPSK_8RB#4 | Center Freq: 1.763500000 GHz | Radio Std: None | #Atten: 40 dB | Radio Std: None | Average Power 100 % 17.46 dBm Center Freq 1.753500000 GHz 51.47 % at 0dB 10 % 1 % 10.0 % 2.32 dB 0.1 % 3.38 dB 1.0 % CF Step 5.000000 MHz Man 0.1 % 3.79 dB 0.01 % 3.96 dB 0.01 % 0.001 % 4.11 dB Freq Offs 0.0001 % --- dB 0.001 % 4.13 dB 21.59 dBm 0.0001 % 0 dB Info BW 3.0000 MHz

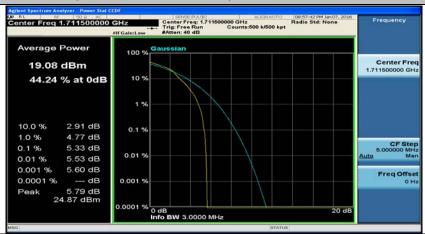
(Channel Bandwidth 3 MHz)_HCH_QPSK_8RB#7



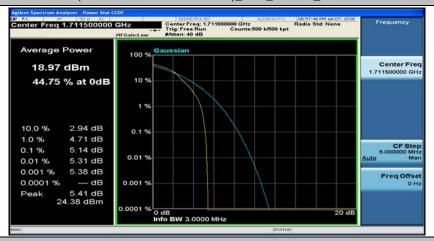
(Channel Bandwidth 3 MHz)_HCH_QPSK_15RB#0



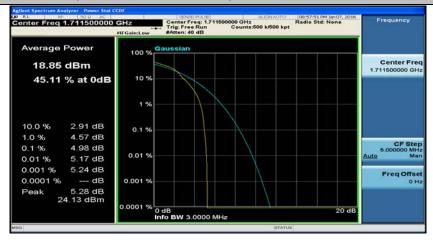
(Channel Bandwidth 3 MHz)_LCH_16QAM_1RB#0



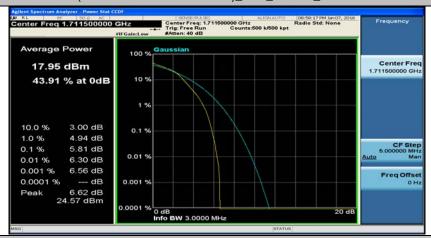
(Channel Bandwidth 3 MHz)_LCH_16QAM_1RB#7



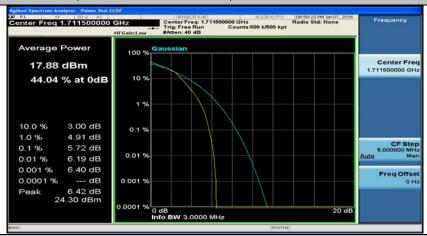
(Channel Bandwidth 3 MHz)_LCH_16QAM_1RB#14



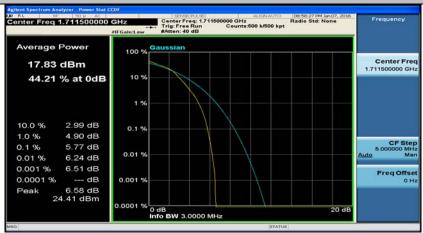
(Channel Bandwidth 3 MHz)_LCH_16QAM_8RB#0



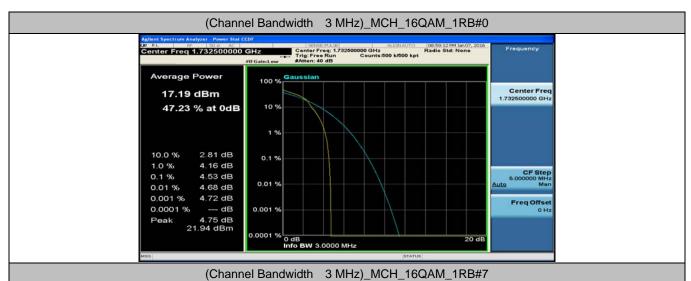
(Channel Bandwidth 3 MHz)_LCH_16QAM_8RB#4

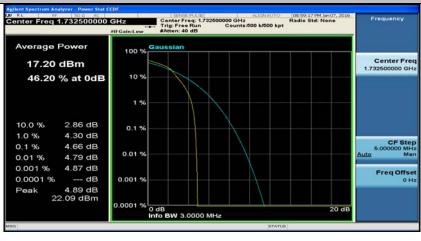


(Channel Bandwidth 3 MHz)_LCH_16QAM_8RB#7

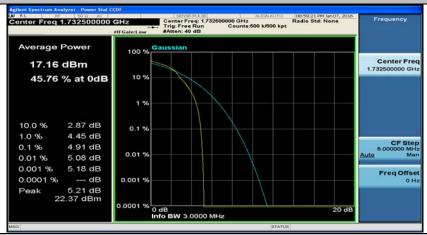


(Channel Bandwidth 3 MHz)_LCH_16QAM_15RB#0 | Center Freq: 1.711500000 GHz | Radio Std: None | Trig: Free Run | Counts:500 k/500 kpt | #Atten: 40 dB | ter Freq 1.711500000 GHz Average Power 100 % Center Freq 1.711500000 GHz 17.82 dBm 44.27 % at 0dB 10 % 1 % 10.0 % 2.94 dB 0.1 % 5.00 dB 1.0 % CF Step 5.000000 MHz Mar 0.1 % 6.14 dB 0.01 % 6.79 dB 0.01 % 0.001 % 7.20 dB Freq Offse 0.0001 % --- dB 7.32 dB 25.14 dBm 0 dB Info BW 3.0000 MHz 20 dB

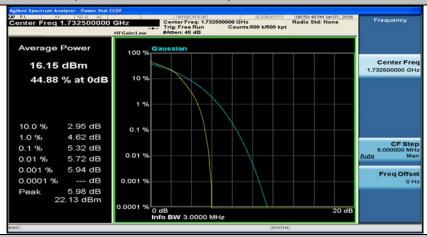




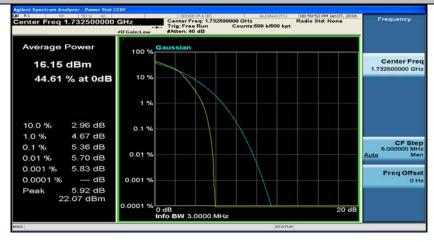
(Channel Bandwidth 3 MHz)_MCH_16QAM_1RB#14

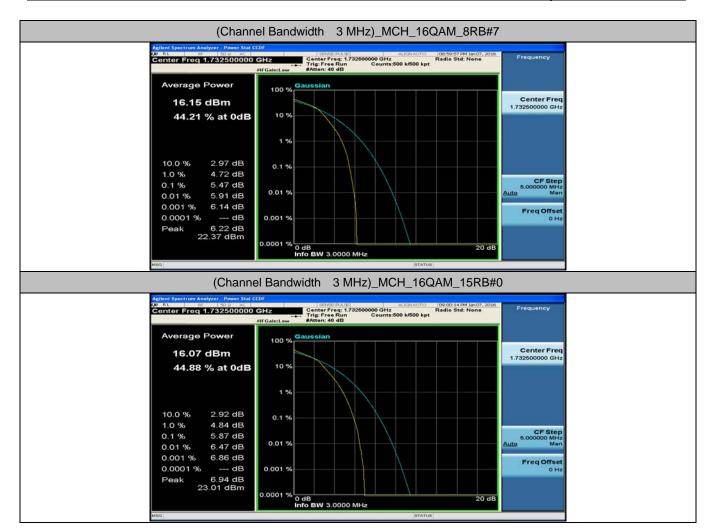


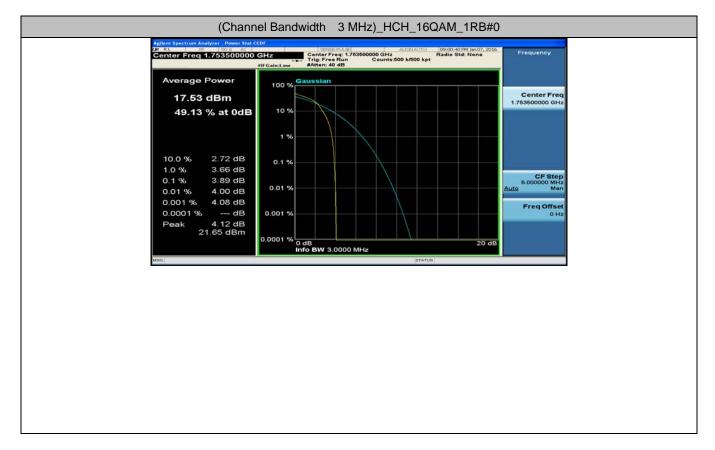
(Channel Bandwidth 3 MHz)_MCH_16QAM_8RB#0



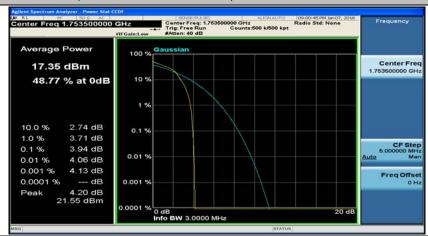
(Channel Bandwidth 3 MHz)_MCH_16QAM_8RB#4



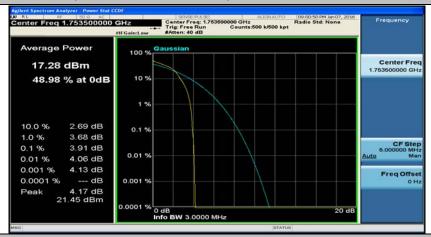




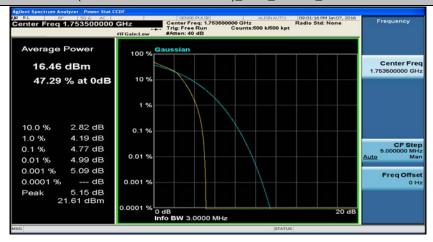
(Channel Bandwidth 3 MHz)_HCH_16QAM_1RB#7



(Channel Bandwidth 3 MHz)_HCH_16QAM_1RB#14

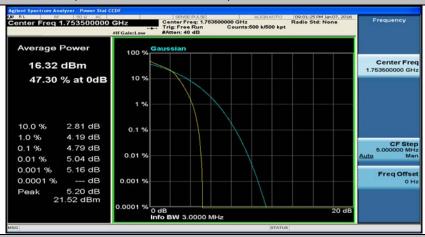


(Channel Bandwidth 3 MHz)_HCH_16QAM_8RB#0

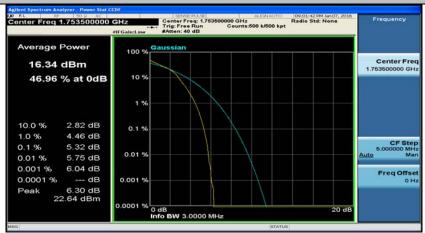


(Channel Bandwidth 3 MHz)_HCH_16QAM_8RB#4 | Center Freq: 1.763500000 GHz | Radio Std: None | #Atten: 40 dB | Radio Std: None | Average Power 100 % Center Freq 1.753500000 GHz 16.38 dBm 47.47 % at 0dB 10 % 1 % 10.0 % 2.80 dB 0.1 % 4.13 dB 1.0 % CF Step 5.000000 MHz Man 4.66 dB 0.1 % 0.01 % 4.88 dB 0.01 % 0.001 % 5.00 dB Freq Offs 0.0001 % --- dB 5.06 dB 21.44 dBm 0.0001 % 0 dB Info BW 3.0000 MHz 20 dB

(Channel Bandwidth 3 MHz)_HCH_16QAM_8RB#7



(Channel Bandwidth 3 MHz)_HCH_16QAM_15RB#0

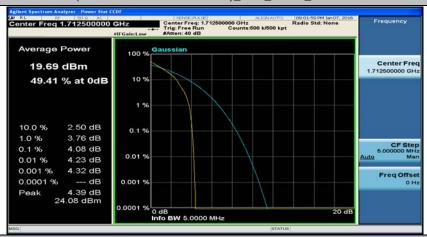


(Channel Bandwidth 5 MHz)_LCH_QPSK_1RB#0 Center Freq: 1.712500000 GHz Trig: Free Run Counts:500 k/500 kpt Center Freq 1.712500000 GHz Average Power Center Freq 1.712500000 GHz 19.88 dBm 10 % 48.42 % at 0dB 10.0 % 2.55 dB 3.97 dB CF Step 5.000000 MH: 0.1 % 4.38 dB 0.01 % 0.01 % 4.53 dB Freq Offset 0.001 % 4.60 dB % --- dB 4.63 dB 24.51 dBm 0.0001 % 0.001 % Peak

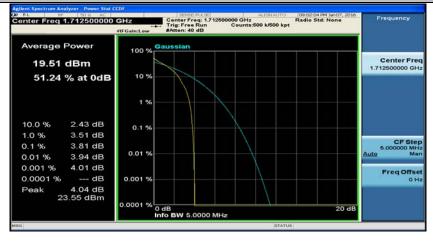
(Channel Bandwidth 5 MHz)_LCH_QPSK_1RB#12

0 dB Info BW 5,0000 MHz

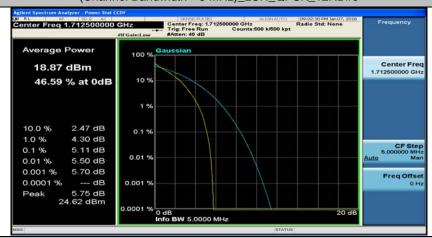
0.0001 %



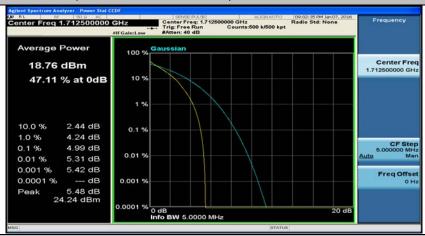
(Channel Bandwidth 5 MHz)_LCH_QPSK_1RB#24



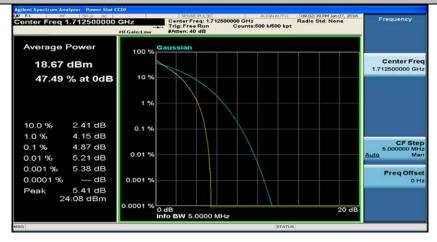
(Channel Bandwidth 5 MHz)_LCH_QPSK_12RB#0

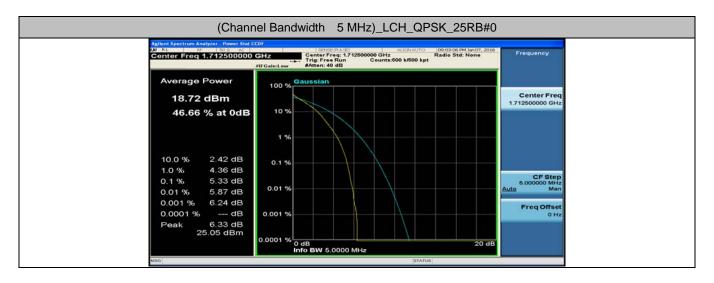


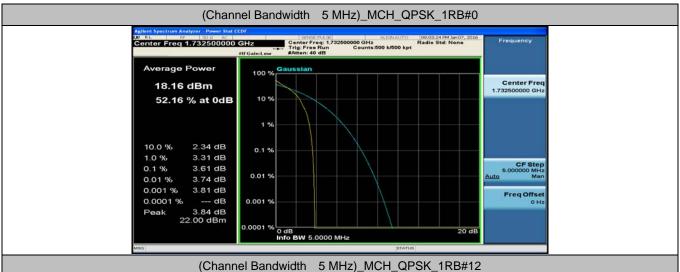
(Channel Bandwidth 5 MHz)_LCH_QPSK_12RB#6

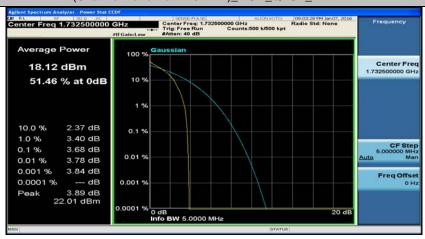


(Channel Bandwidth 5 MHz)_LCH_QPSK_12RB#13

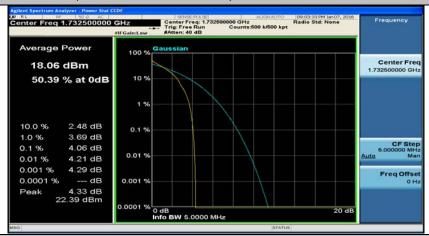




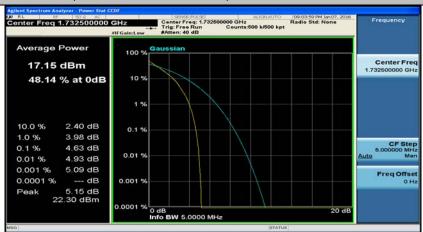




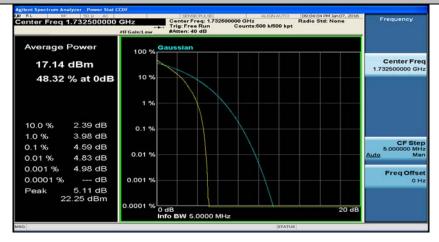
(Channel Bandwidth 5 MHz)_MCH_QPSK_1RB#24

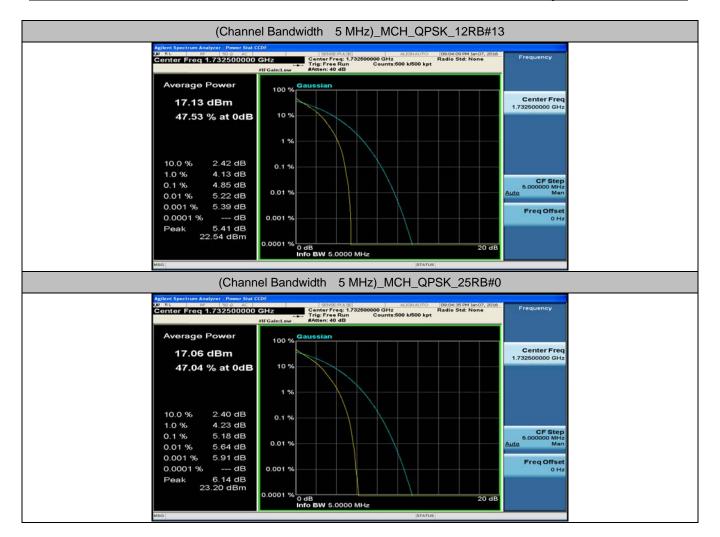


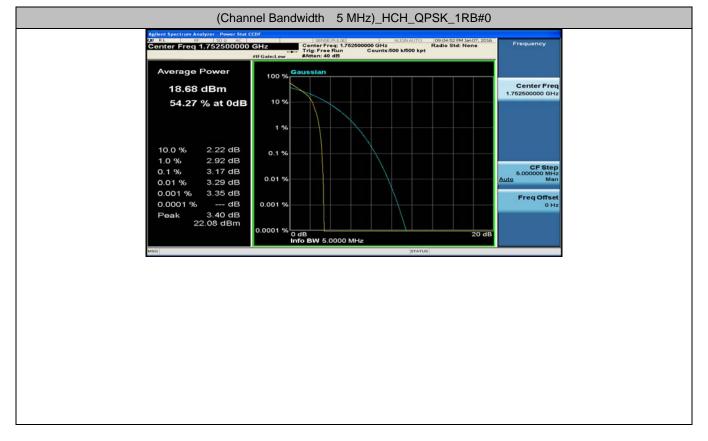
(Channel Bandwidth 5 MHz)_MCH_QPSK_12RB#0



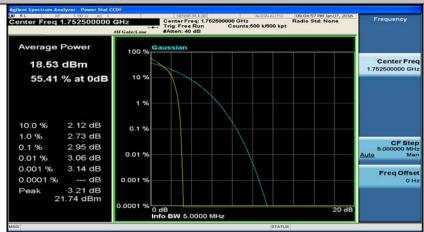
(Channel Bandwidth 5 MHz)_MCH_QPSK_12RB#6



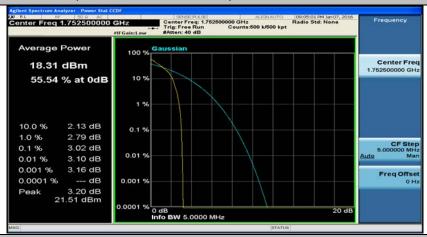




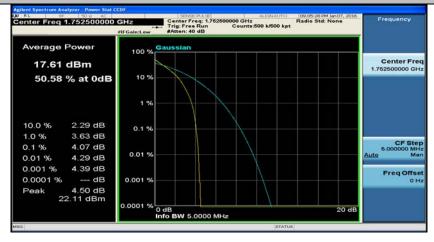
(Channel Bandwidth 5 MHz)_HCH_QPSK_1RB#12



(Channel Bandwidth 5 MHz)_HCH_QPSK_1RB#24

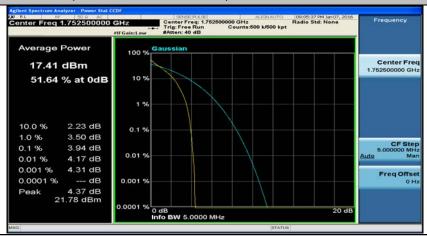


(Channel Bandwidth 5 MHz)_HCH_QPSK_12RB#0

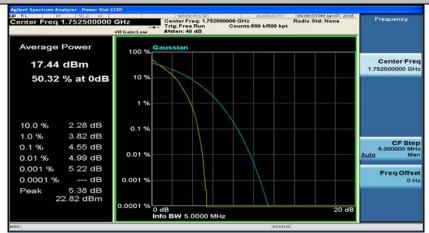


(Channel Bandwidth 5 MHz)_HCH_QPSK_12RB#6 | Center Freq: 1.762500000 GHz | Radio Std: None | #Atten: 40 dB | Radio Std: None | Average Power 100 % Center Freq 1.752500000 GHz 17.51 dBm 51.41 % at 0dB 10 % 1 % 10.0 % 2.25 dB 0.1 % 3.48 dB 1.0 % CF Step 5.000000 MHz Man 0.1 % 3.88 dB 0.01 % 4.07 dB 0.01 % 0.001 % 4.21 dB Freq Offs 0.0001 % --- dB 0.001 % 4.25 dB 21.76 dBm 0.0001 % 0 dB Info BW 5.0000 MHz

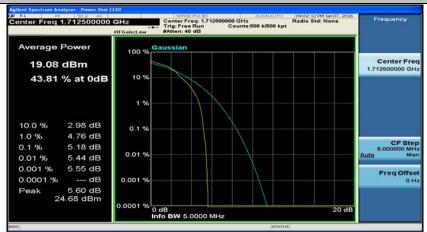
(Channel Bandwidth 5 MHz)_HCH_QPSK_12RB#13



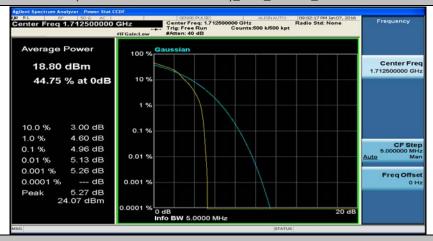
(Channel Bandwidth 5 MHz)_HCH_QPSK_25RB#0



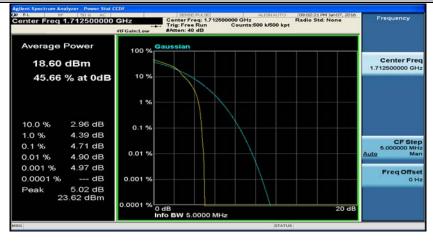
(Channel Bandwidth 5 MHz)_LCH_16QAM_1RB#0



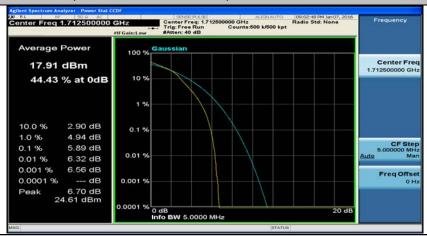
(Channel Bandwidth 5 MHz)_LCH_16QAM_1RB#12



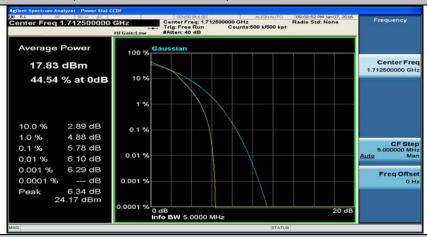
(Channel Bandwidth 5 MHz)_LCH_16QAM_1RB#24



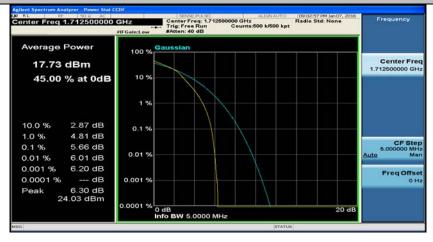
(Channel Bandwidth 5 MHz)_LCH_16QAM_12RB#0



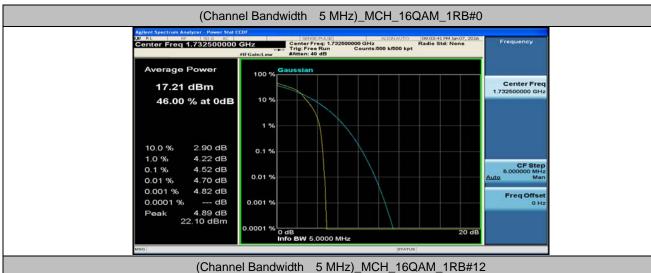
(Channel Bandwidth 5 MHz)_LCH_16QAM_12RB#6

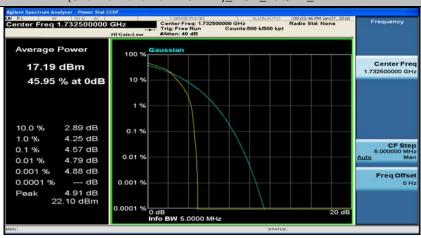


(Channel Bandwidth 5 MHz)_LCH_16QAM_12RB#13

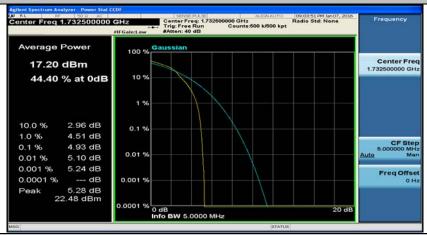


(Channel Bandwidth 5 MHz)_LCH_16QAM_25RB#0 Average Power 100 % Center Freq 1.712500000 GHz 17.75 dBm 44.57 % at 0dB 10 % 1 % 10.0 % 2.87 dB 0.1 % 4.97 dB 1.0 % CF Step 5.000000 MHz Mar 0.1 % 6.09 dB 0.01 % 0.01 % 6.72 dB 0.001 % 6.96 dB Freq Offse 0.0001 % --- dB 7.08 dB 24.83 dBm 0 dB Info BW 5,0000 MHz 20 dB

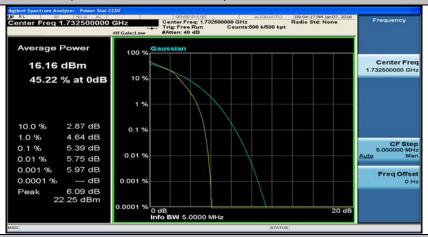




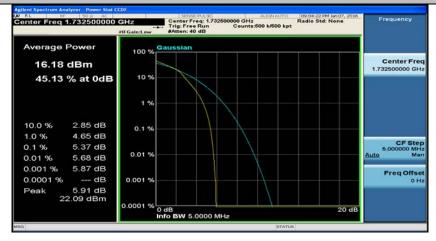
(Channel Bandwidth 5 MHz)_MCH_16QAM_1RB#24

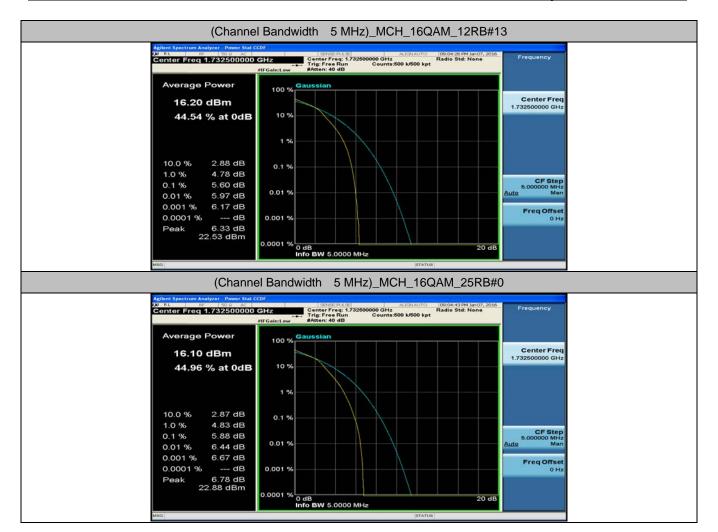


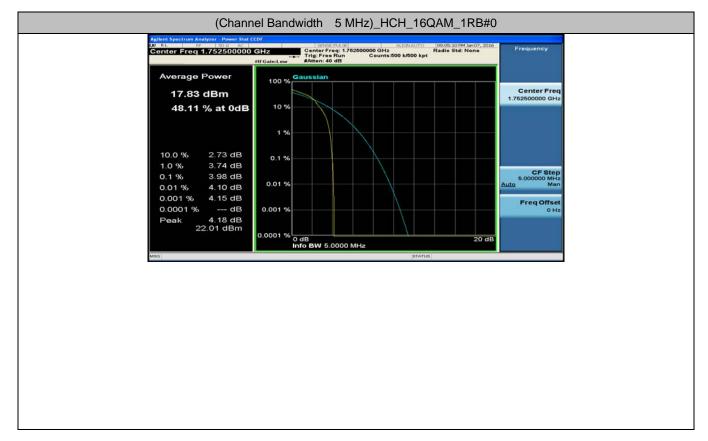
(Channel Bandwidth 5 MHz)_MCH_16QAM_12RB#0



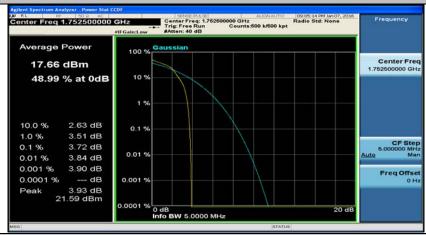
(Channel Bandwidth 5 MHz)_MCH_16QAM_12RB#6



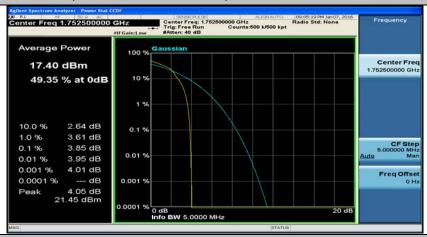




(Channel Bandwidth 5 MHz)_HCH_16QAM_1RB#12



(Channel Bandwidth 5 MHz)_HCH_16QAM_1RB#24



(Channel Bandwidth 5 MHz)_HCH_16QAM_12RB#0

