Band 4 Appendix B Section B.2: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 1.4 MHz

			Channel B	andwidth: 1.4 MHz		
		RB Conf	iguration	Peak-to-Average Ratio	Limit	
Modulation	Channel	Size	Offset	(dB)	(dB)	Verdict
		1	0	5.15	<13	PASS
		1	3	5.24	<13	PASS
		1	5	5.26	<13	PASS
	LCH	3	0	5.11	<13	PASS
		3	2	5.15	<13	PASS
		3	3	5.17	<13	PASS
		6	0	6.04	<13	PASS
		1	0	5.36	<13	PASS
		1	3	5.15	<13	PASS
		1	5	5.09	<13	PASS
QPSK	MCH	3	0	4.81	<13	PASS
		3	2	4.7	<13	PASS
		3	3	4.69	<13	PASS
		6	0	5.69	<13	PASS
		1	0	4.9	<13	PASS
		1	3	4.88	<13	PASS
		1	5	4.89	<13	PASS
	HCH	3	0	4.85	<13	PASS
		3	2	4.83	<13	PASS
		3	3	4.81	<13	PASS
		6	0	5.63	<13	PASS
		1	0	5.98	<13	PASS
		1	3	6.15	<13	PASS
		1	5	6.17	<13	PASS
	LCH	3	0	5.97	<13	PASS
		3	2	6.06	<13	PASS
		3	3	6.13	<13	PASS
16QAM		6	0	6.9	<13	PASS
		1	0	6.19	<13	PASS
		1	3	5.96	<13	PASS
	MCH	1	5	5.95	<13	PASS
	IVICH	3	0	5.73	<13	PASS
		3	2	5.66	<13	PASS
		3	3	5.66	<13	PASS

	6	0	6.69	<13	PASS
	1	0	5.55	<13	PASS
	1	3	5.5	<13	PASS
	1	5	5.52	<13	PASS
HCH	3	0	5.75	<13	PASS
	3	2	5.72	<13	PASS
	3	3	5.68	<13	PASS
	6	0	6.55	<13	PASS

Channel Bandwidth: 3 MHz

			Channel I	Bandwidth: 3 MHz		
Modulation	Channel	RB Conf	iguration	Peak-to-Average Ratio	Limit	Verdict
Modulation	Charmer	Size	Offset	[dB]	[dB]	verdict
		1	0	5.28	<13	PASS
		1	7	5.34	<13	PASS
		1	14	5.45	<13	PASS
	LCH	8	0	5.87	<13	PASS
		8	4	5.95	<13	PASS
		8	7	5.94	<13	PASS
		15	0	5.82	<13	PASS
		1	0	5.2	<13	PASS
		1	7	4.91	<13	PASS
		1	14	4.72	<13	PASS
QPSK	MCH	8	0	5.73	<13	PASS
		8	4	5.62	<13	PASS
		8	7	5.56	<13	PASS
		15	0	5.66	<13	PASS
		1	0	4.98	<13	PASS
		1	7	4.95	<13	PASS
		1	14	4.96	<13	PASS
	HCH	8	0	5.52	<13	PASS
		8	4	5.49	<13	PASS
		8	7	5.57	<13	PASS
		15	0	5.54	<13	PASS
		1	0	6.14	<13	PASS
		1	7	6.4	<13	PASS
		1	14	6.52	<13	PASS
16QAM	LCH	8	0	6.73	<13	PASS
		8	4	6.7	<13	PASS
		8	7	6.72	<13	PASS
		15	0	6.9	<13	PASS

		1	0	6.28	<13	PASS
		1	7	5.92	<13	PASS
		1	14	5.82	<13	PASS
	MCH	8	0	6.49	<13	PASS
		8	4	6.4	<13	PASS
		8	7	6.4	<13	PASS
		15	0	6.74	<13	PASS
		1	0	6	<13	PASS
		1	7	5.97	<13	PASS
		1	14	5.85	<13	PASS
	HCH	8	0	6.27	<13	PASS
		8	4	6.31	<13	PASS
		8	7	6.27	<13	PASS
		15	0	6.36	<13	PASS

Channel Bandwidth: 5 MHz

	Channel Bandwidth: 5 MHz										
Madulation	Channel	RB Conf	iguration	Peak-to-Average Ratio	Limit	\					
Modulation	Channel	Size	Offset	[dB]	[dB]	Verdict					
		1	0	5.26	<13	PASS					
		1	12	5.49	<13	PASS					
		1	24	5.57	<13	PASS					
	LCH	12	0	5.98	<13	PASS					
		12	6	5.99	<13	PASS					
		12	13	6.01	<13	PASS					
		25	0	5.95	<13	PASS					
		1	0	5.41	<13	PASS					
	МСН	1	12	4.99	<13	PASS					
		1	24	4.65	<13	PASS					
QPSK		12	0	5.82	<13	PASS					
		12	6	5.7	<13	PASS					
		12	13	5.54	<13	PASS					
		25	0	5.72	<13	PASS					
		1	0	4.94	<13	PASS					
		1	12	4.83	<13	PASS					
		1	24	4.83	<13	PASS					
	HCH	12	0	5.66	<13	PASS					
		12	6	5.53	<13	PASS					
		12	13	5.6	<13	PASS					
		25	0	5.54	<13	PASS					
16QAM	LCH	1	0	6.23	<13	PASS					

		1	12	6.47	<13	PASS
		1	24	6.61	<13	PASS
		12	0	6.87	<13	PASS
		12	6	6.88	<13	PASS
		12	13	6.85	<13	PASS
		25	0	6.72	<13	PASS
		1	0	6.4	<13	PASS
		1	12	6.04	<13	PASS
		1	24	5.69	<13	PASS
	MCH	12	0	6.79	<13	PASS
		12	6	6.63	<13	PASS
		12	13	6.53	<13	PASS
		25	0	6.58	<13	PASS
		1	0	5.9	<13	PASS
		1	12	5.76	<13	PASS
	нсн	1	24	5.83	<13	PASS
		12	0	6.45	<13	PASS
		12	6	6.33	<13	PASS
		12	13	6.44	<13	PASS
		25	0	6.41	<13	PASS

Channel Bandwidth: 10 MHz

			Channel B	andwidth: 10 MHz		
Modulation	Channel	RB Configuration		Peak-to-Average Ratio	Limit	Verdict
Modulation	Criarine	Size	Offset	[dB]	[dB]	verdict
		1	0	5.09	<13	PASS
		1	24	5.4	<13	PASS
		1	49	5.36	<13	PASS
	LCH	25	0	5.91	<13	PASS
		25	12	5.95	<13	PASS
		25	25	5.73	<13	PASS
		50	0	5.73	<13	PASS
QPSK		1	0	5.52	<13	PASS
QFSN		1	24	4.94	<13	PASS
		1	49	4.32	<13	PASS
	MCH	25	0	5.83	<13	PASS
		25	12	5.73	<13	PASS
		25	25	5.52	<13	PASS
		50	0	5.75	<13	PASS
	HCH	1	0	4.66	<13	PASS
	псп	1	24	4.98	<13	PASS

		1	49	4.86	<13	PASS
		25	0	5.61	<13	PASS
		25	12	5.6	<13	PASS
		25	25	5.49	<13	PASS
		50	0	5.52	<13	PASS
		1	0	6.24	<13	PASS
		1	24	6.51	<13	PASS
		1	49	6.47	<13	PASS
	LCH	25	0	6.62	<13	PASS
		25	12	6.64	<13	PASS
		25	25	6.57	<13	PASS
		50	0	6.62	<13	PASS
		1	0	6.66	<13	PASS
		1	24	6.07	<13	PASS
		1	49	5.38	<13	PASS
16QAM	MCH	25	0	6.56	<13	PASS
		25	12	6.58	<13	PASS
		25	25	6.34	<13	PASS
		50	0	6.57	<13	PASS
		1	0	5.64	<13	PASS
		1	24	5.94	<13	PASS
		1	49	5.85	<13	PASS
	HCH	25	0	6.47	<13	PASS
		25	12	6.47	<13	PASS
		25	25	6.34	<13	PASS
		50	0	6.39	<13	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz									
Mandadation	Channel	RB Conf	iguration	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Chamilei	Size	Offset	[dB]	[dB]	verdict			
		1	0	7.26	<13	PASS			
		1	37	5.41	<13	PASS			
	LCH	1	74	8.97	<13	PASS			
		37	0	5.08	<13	PASS			
QPSK		37	18	5.82	<13	PASS			
QFSN		37	38	4.98	<13	PASS			
		75	0	4.85	<13	PASS			
		1	0	6.7	<13	PASS			
	MCH	1	37	4.93	<13	PASS			
		1	74	8.7	<13	PASS			

				,		
		37	0	4.94	<13	PASS
		37	18	5.79	<13	PASS
		37	38	4.98	<13	PASS
		75	0	5.03	<13	PASS
		1	0	7.39	<13	PASS
		1	37	4.85	<13	PASS
		1	74	9.63	<13	PASS
	HCH	37	0	4.93	<13	PASS
		37	18	5.62	<13	PASS
		37	38	4.87	<13	PASS
		75	0	5.1	<13	PASS
		1	0	8.51	<13	PASS
		1	37	6.63	<13	PASS
		1	74	9.76	<13	PASS
	LCH	37	0	6.35	<13	PASS
		37	18	6.55	<13	PASS
		37	38	6.23	<13	PASS
		75	0	6.34	<13	PASS
		1	0	7.68	<13	PASS
		1	37	6.02	<13	PASS
		1	74	9.48	<13	PASS
16QAM	MCH	37	0	6.29	<13	PASS
		37	18	6.59	<13	PASS
		37	38	6.18	<13	PASS
		75	0	6.31	<13	PASS
		1	0	7.94	<13	PASS
		1	37	5.65	<13	PASS
		1	74	10.15	<13	PASS
	HCH	37	0	6.12	<13	PASS
		37	18	6.46	<13	PASS
		37	38	6.25	<13	PASS
		75	0	6.5	<13	PASS

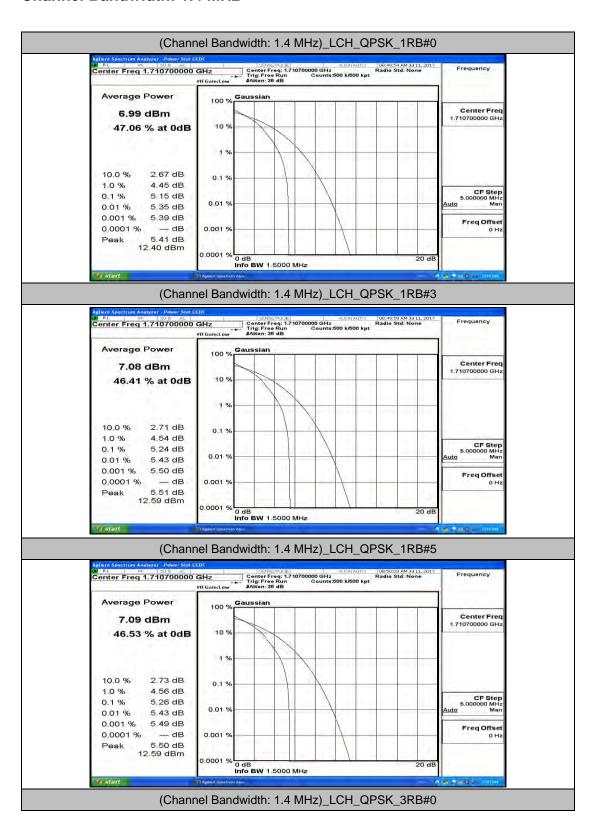
Channel Bandwidth: 20 MHz

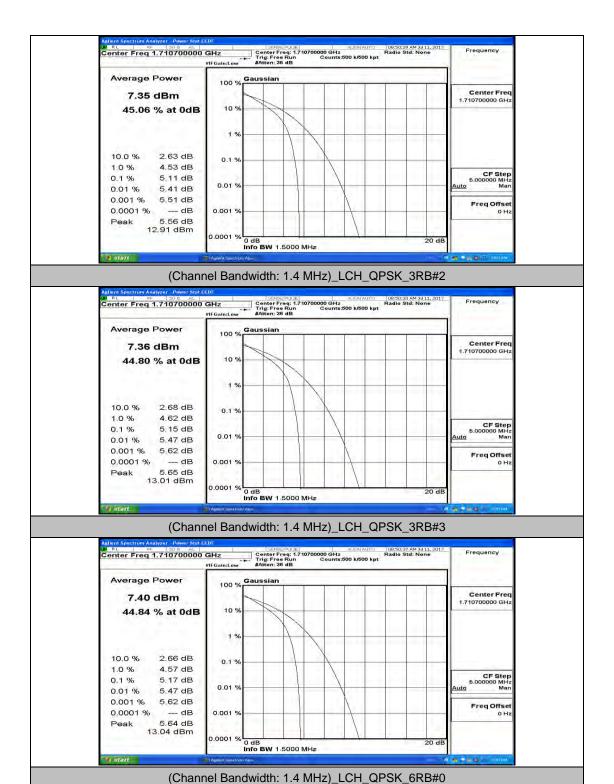
Channel Bandwidth: 20 MHz									
Modulation Channel	Channal	RB Conf	iguration	Peak-to-Average Ratio	Limit	Verdict			
	Charmer	Size	Offset	[dB]	[dB]	verdict			
QPSK LCF		1	0	8.44	<13	PASS			
	LCH	1	49	5.27	<13	PASS			
	LCH	1	99	8.43	<13	PASS			
		50	0	5.64	<13	PASS			

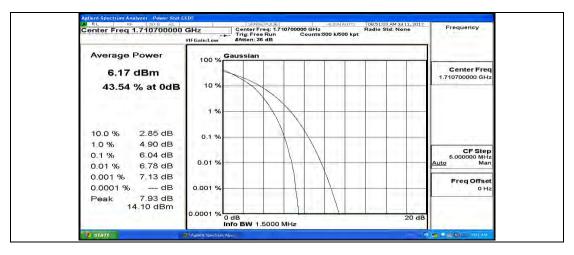
		50	25	5.71	<13	PASS
		50	50	5.96	<13	PASS
		100	0	5.52	<13	PASS
		1	0	8.44	<13	PASS
		1	49	4.92	<13	PASS
		1	99	8.43	<13	PASS
	MCH	50	0	5.46	<13	PASS
		50	25	5.77	<13	PASS
		50	50	5.95	<13	PASS
		100	0	5.67	<13	PASS
		1	0	8.36	<13	PASS
		1	49	4.49	<13	PASS
		1	99	8.42	<13	PASS
	HCH	50	0	5.7	<13	PASS
		50	25	5.65	<13	PASS
		50	50	6.05	<13	PASS
		100	0	5.87	<13	PASS
		1	0	8.41	<13	PASS
		1	49	6.15	<13	PASS
		1	99	8.32	<13	PASS
	LCH	50	0	6.73	<13	PASS
		50	25	6.53	<13	PASS
		50	50	6.92	<13	PASS
		100	0	6.75	<13	PASS
		1	0	8.4	<13	PASS
		1	49	5.74	<13	PASS
		1	99	8.4	<13	PASS
16QAM	MCH	50	0	6.74	<13	PASS
		50	25	6.58	<13	PASS
		50	50	6.88	<13	PASS
		100	0	6.8	<13	PASS
		1	0	8.42	<13	PASS
		1	49	5.64	<13	PASS
		1	99	8.4	<13	PASS
	HCH	50	0	6.68	<13	PASS
		50	25	6.52	<13	PASS
		50	50	6.88	<13	PASS
]		100	0	6.86	<13	PASS

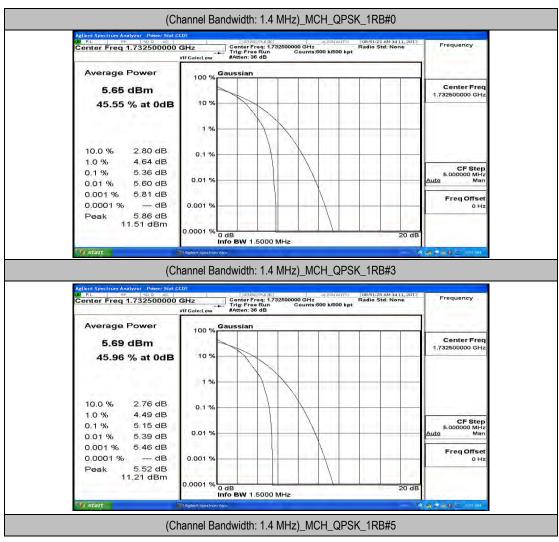
Test Graphs

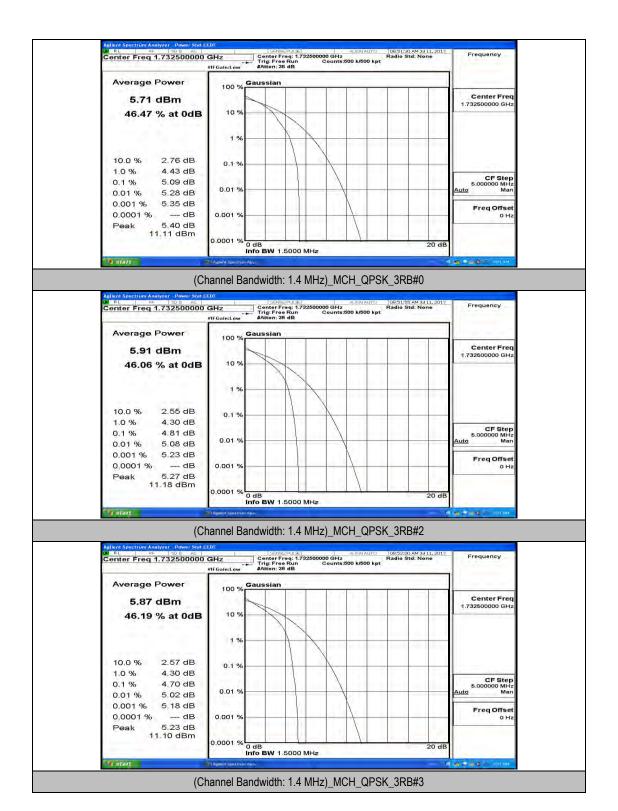
Channel Bandwidth: 1.4 MHz

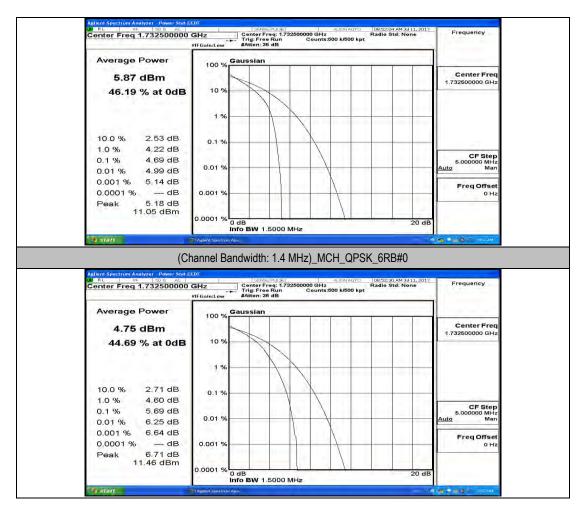


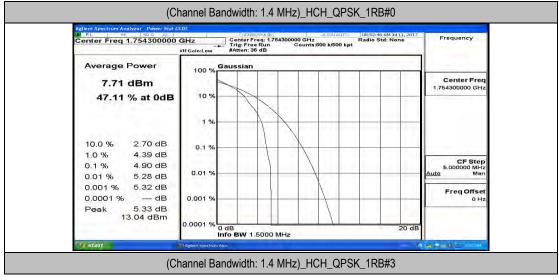


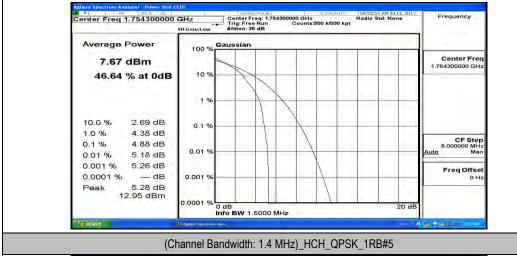


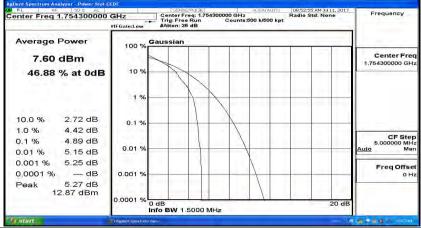




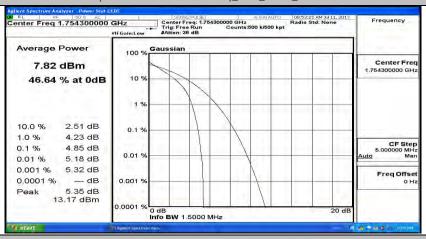




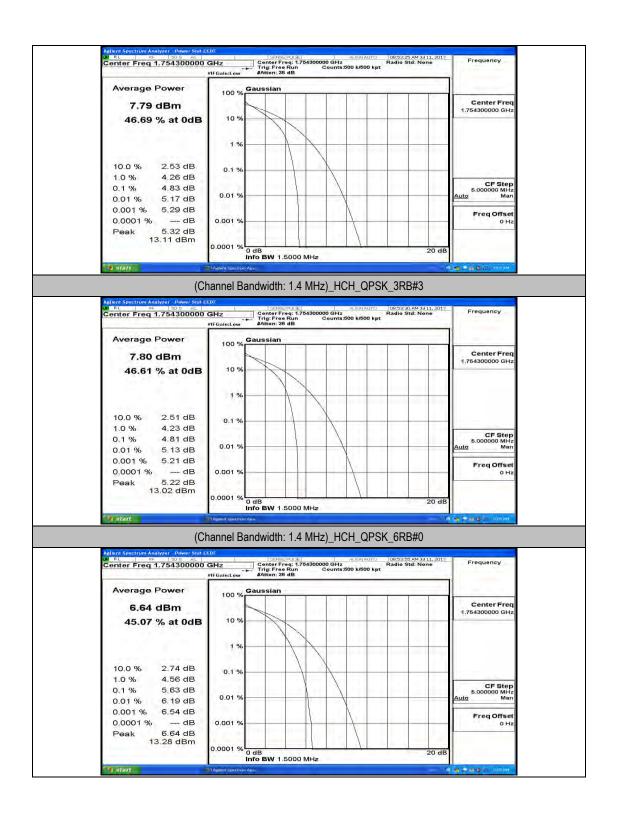


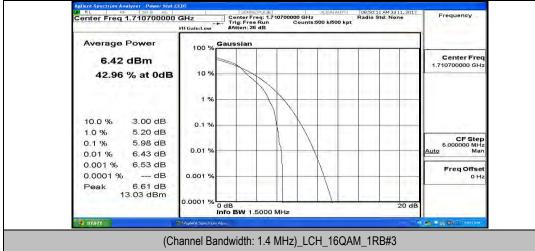


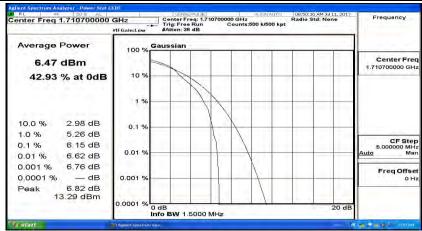
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



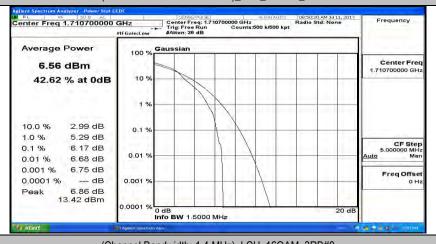
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



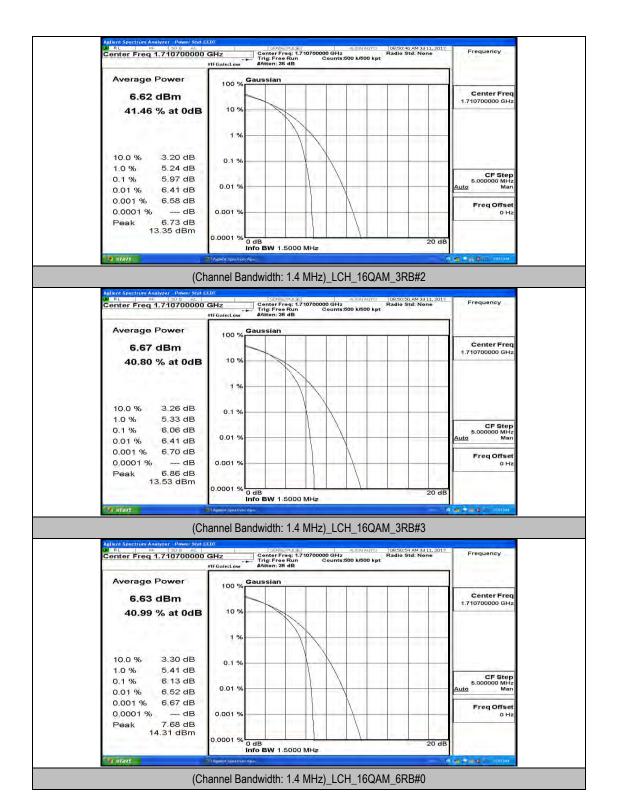


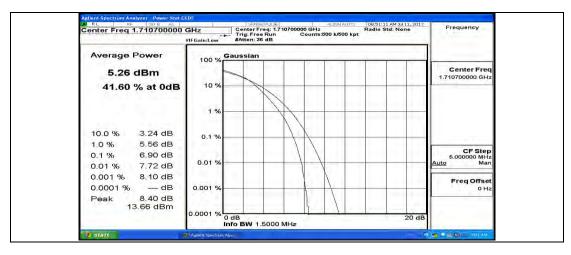


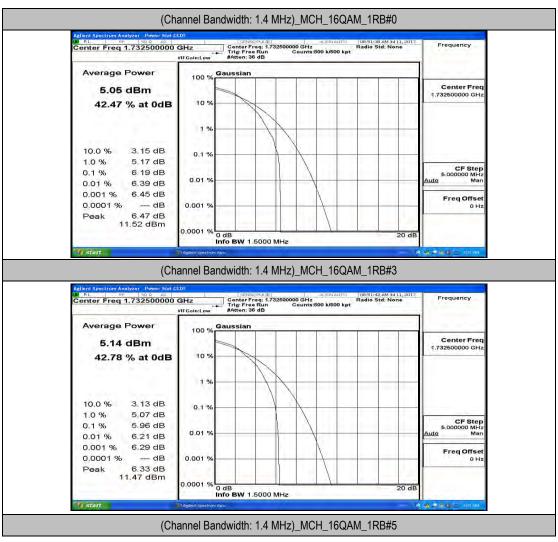
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5

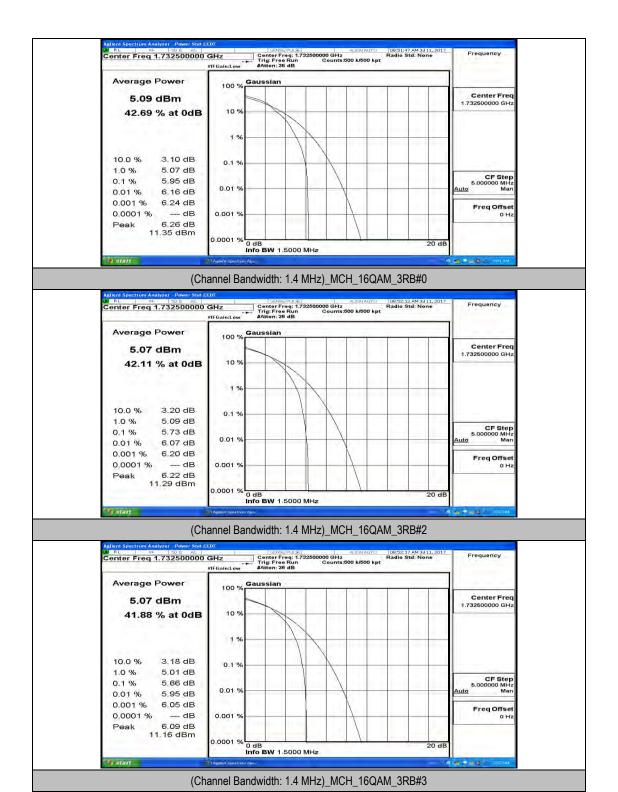


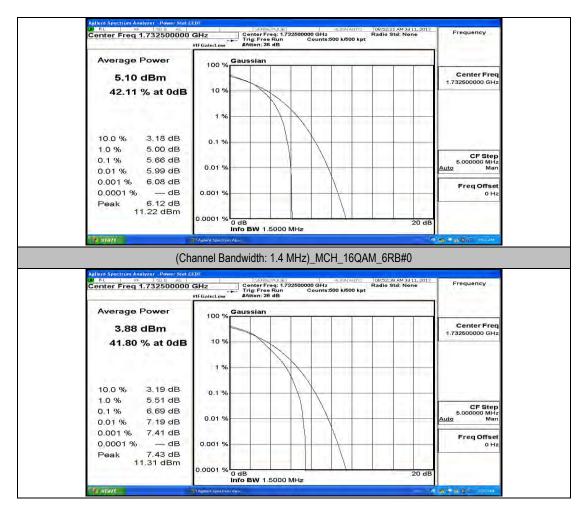
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0

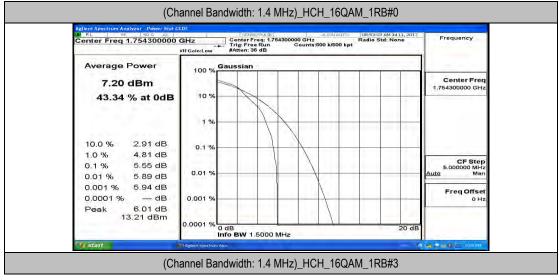


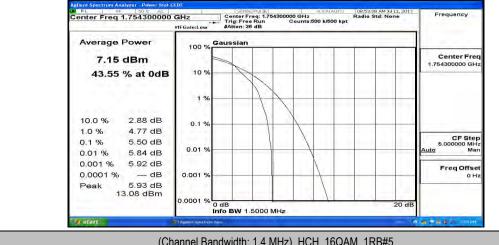




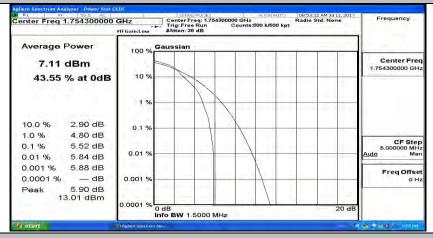




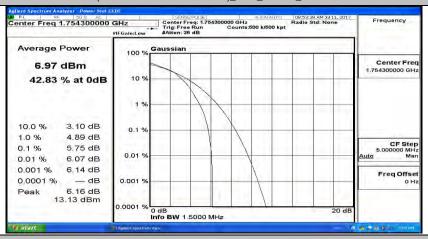




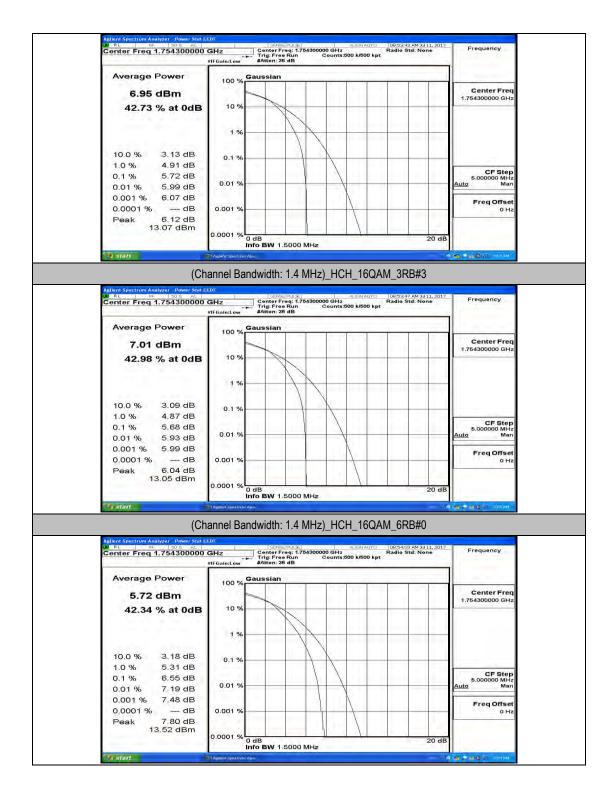
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



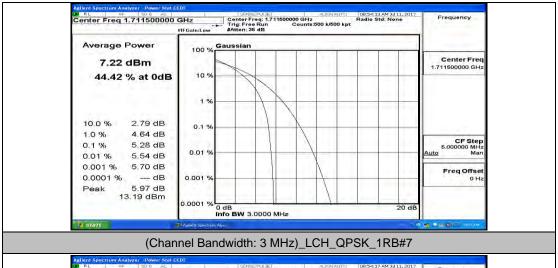
(Channel Bandwidth: 1.4 MHz) HCH 16QAM 3RB#0

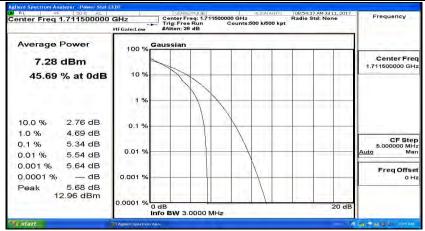


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2

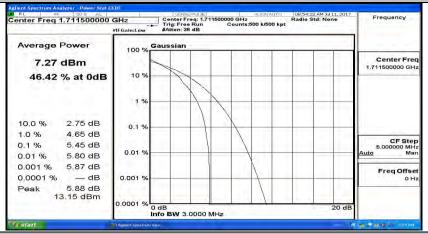


Channel Bandwidth: 3 MHz

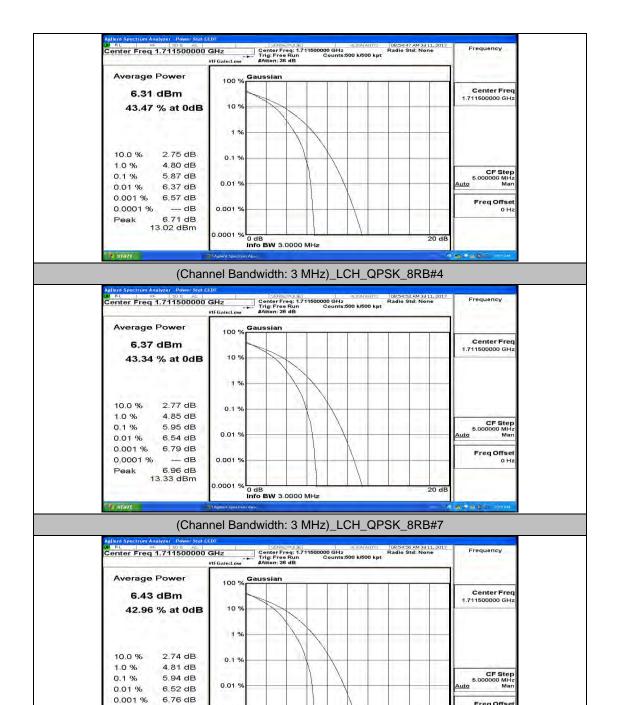




(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



0.0001 %

Peak 6.83 dB 13.26 dBm

--- dB

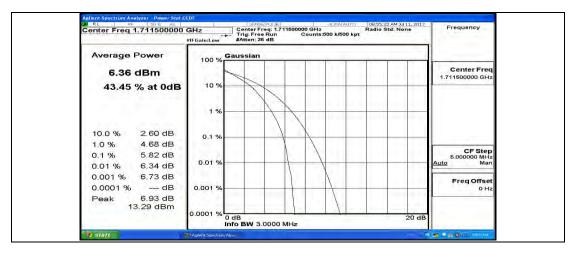
0.001 %

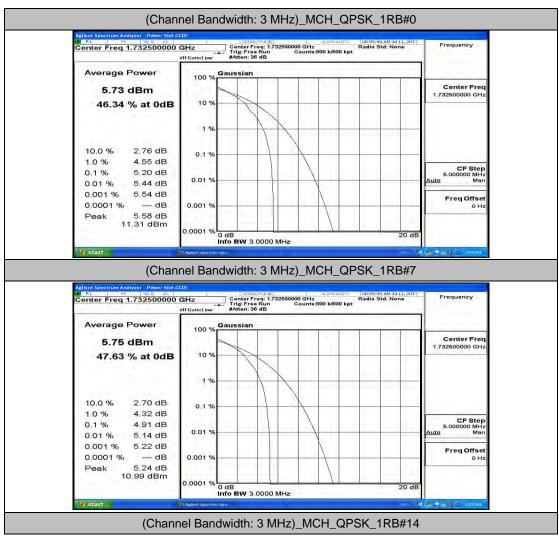
0.0001 %

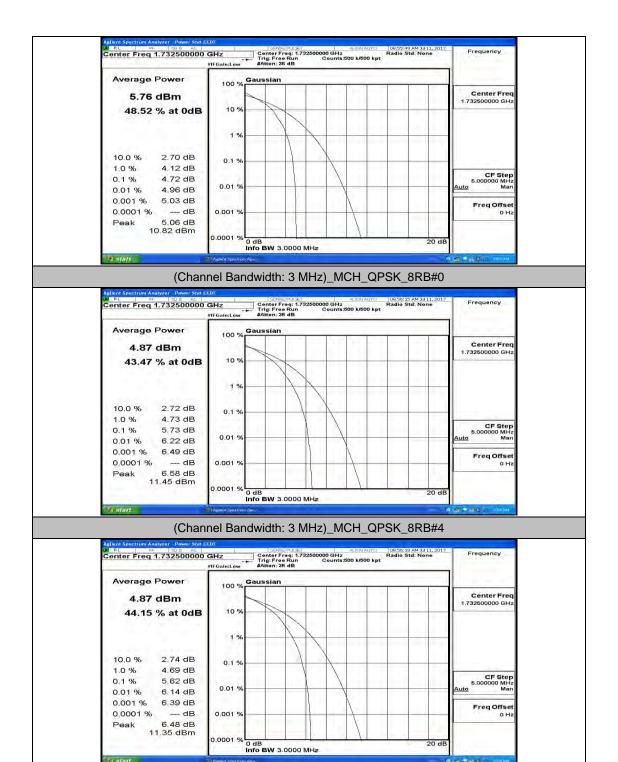
0 dB Info BW 3.0000 MHz

(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0

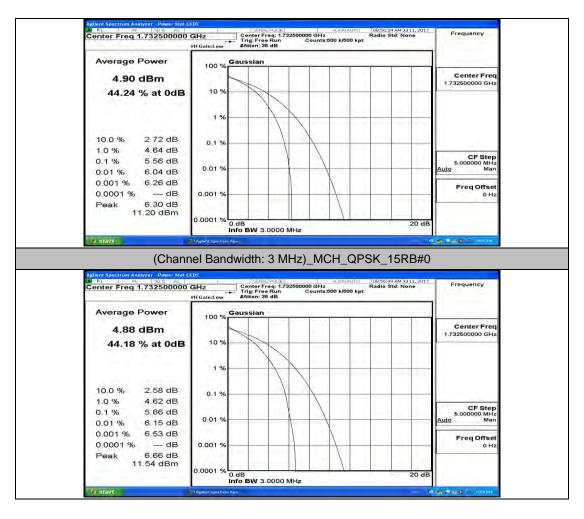
Freq Offset 0 Hz

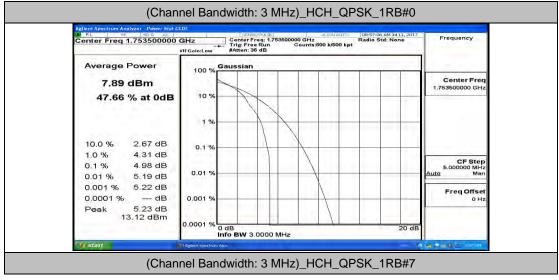


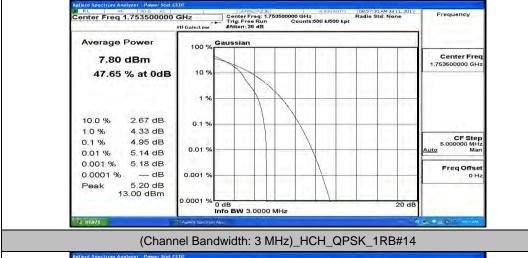


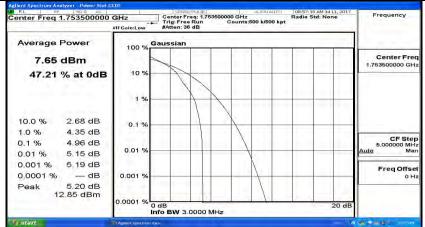


(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7

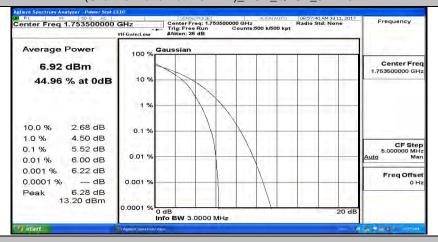




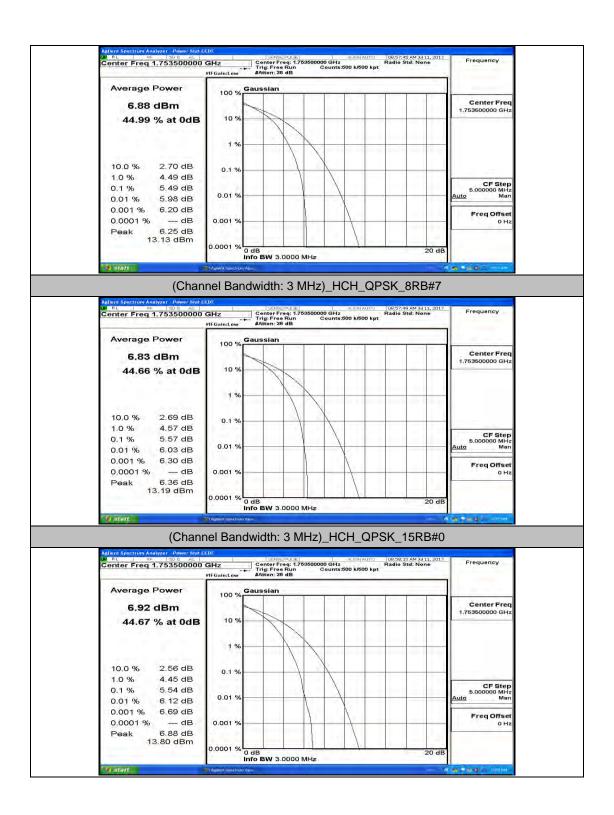


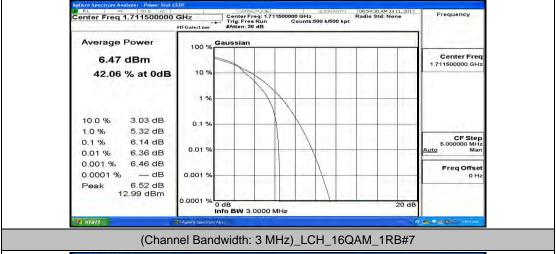


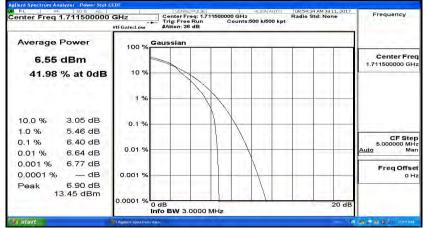
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



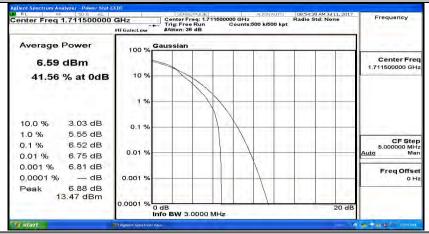
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



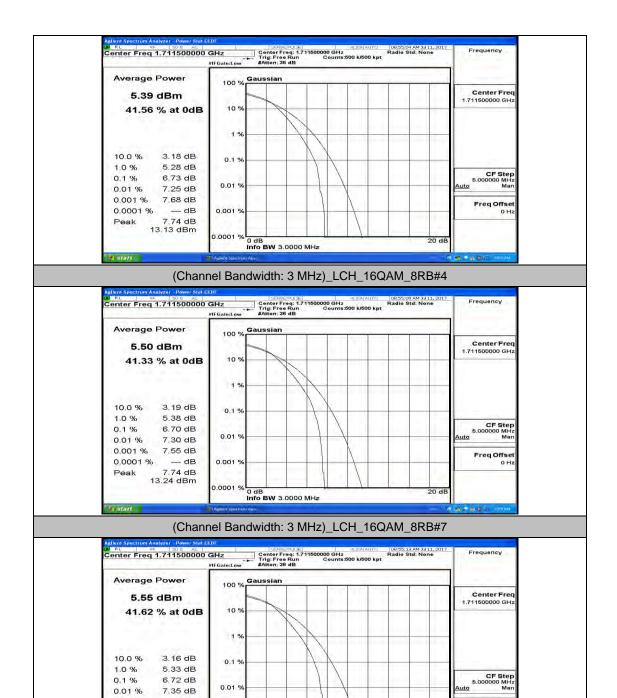




(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



Freq Offset 0 Hz

0.001 % 7.75 dB 0.0001 % — dB Peak 7.81 dB

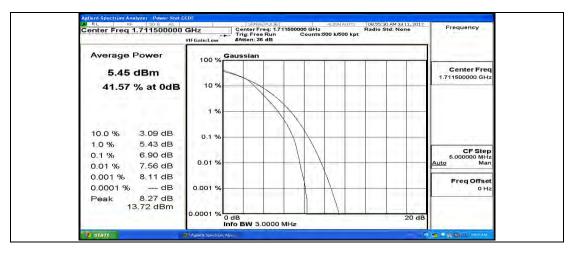
13.36 dBm

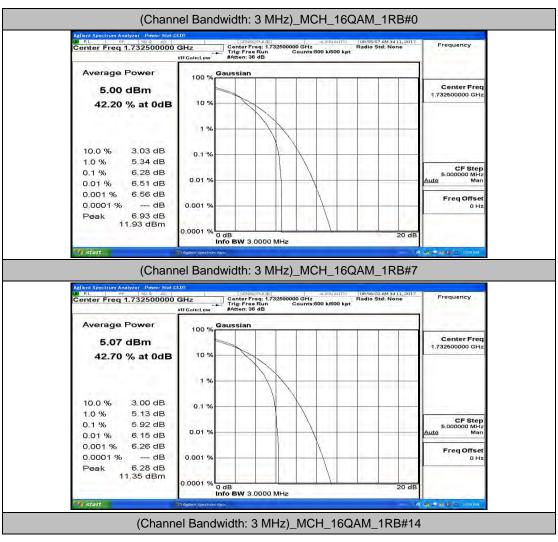
0.001 %

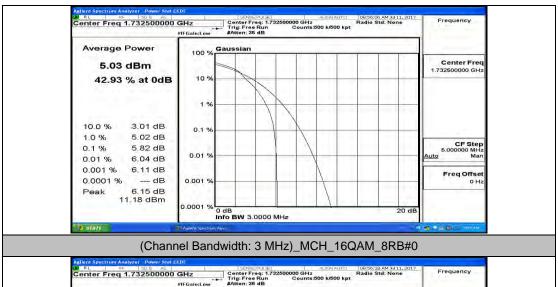
0.0001 %

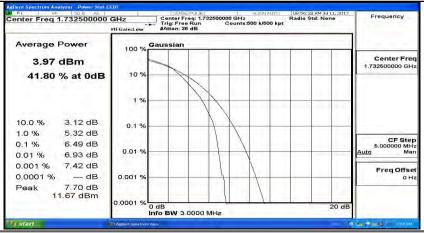
0 dB Info BW 3.0000 MHz

(Channel Bandwidth: 3 MHz)_LCH_16QAM_15RB#0

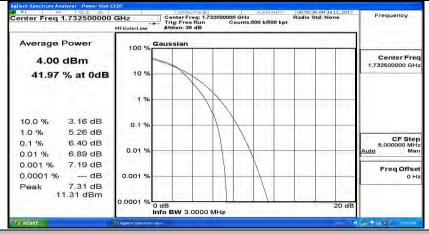




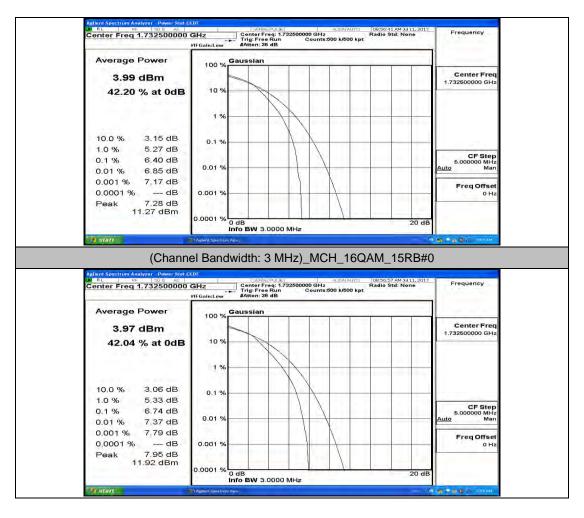


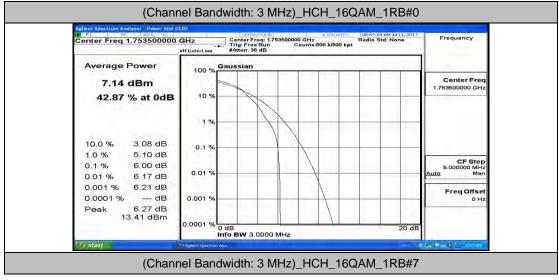


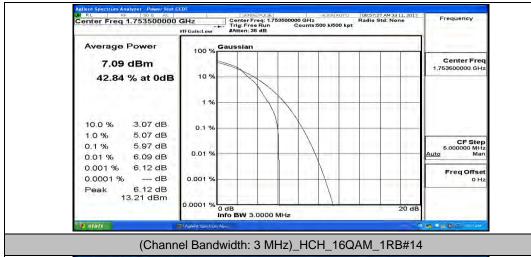
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#4

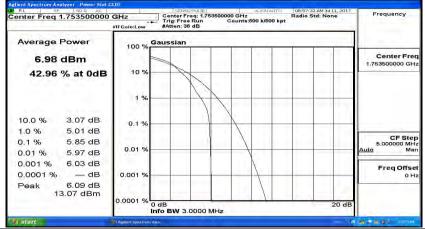


(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7

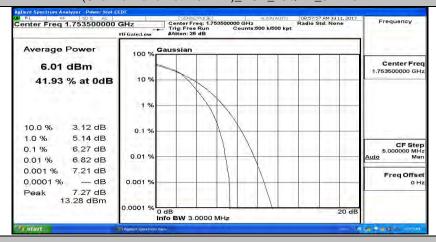




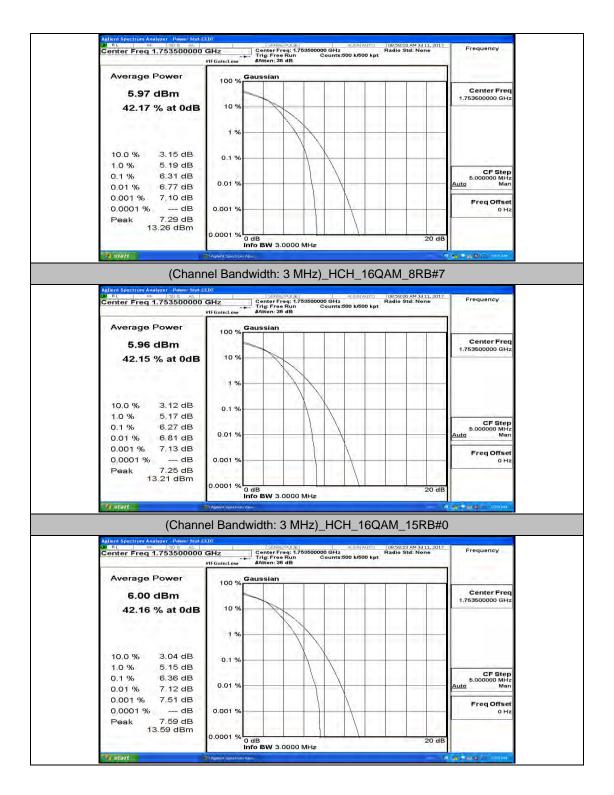




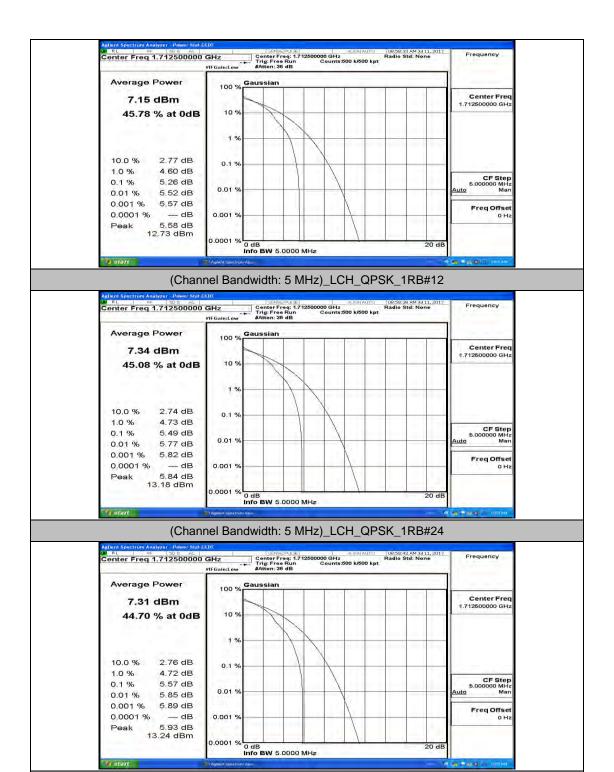
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



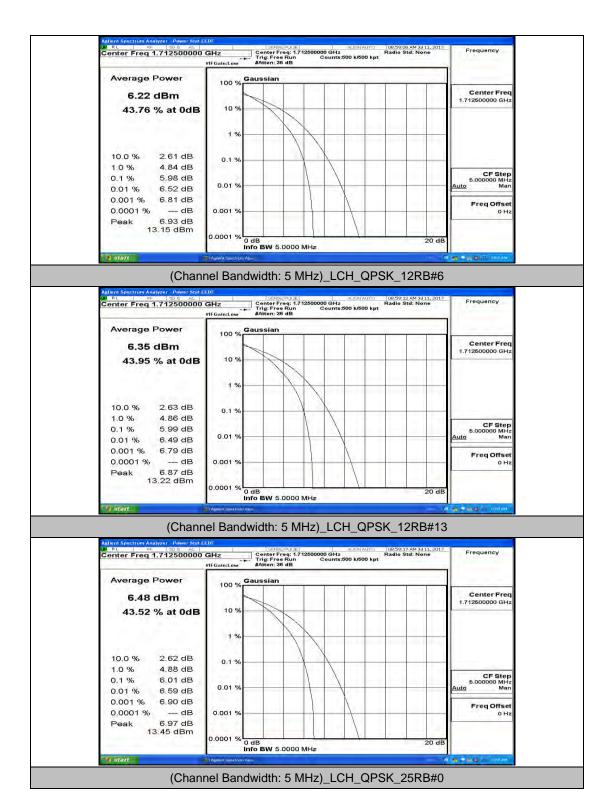
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4

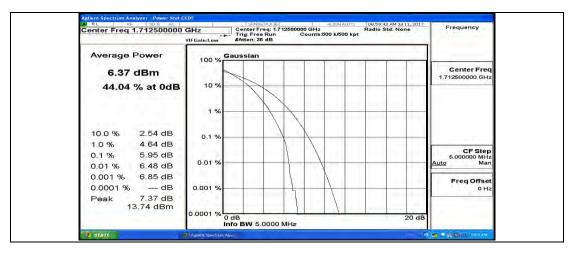


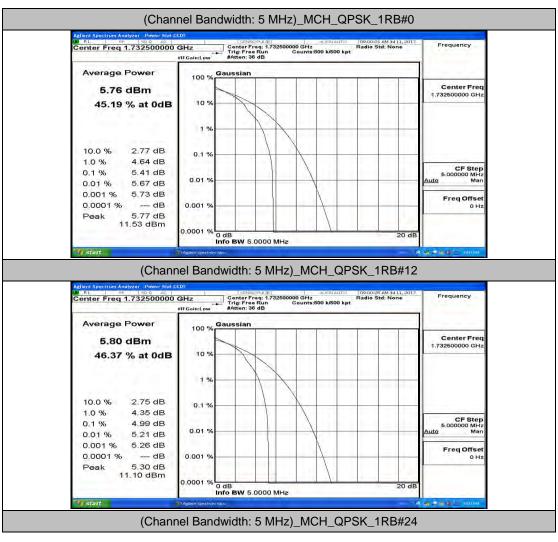
Channel Bandwidth: 5 MHz

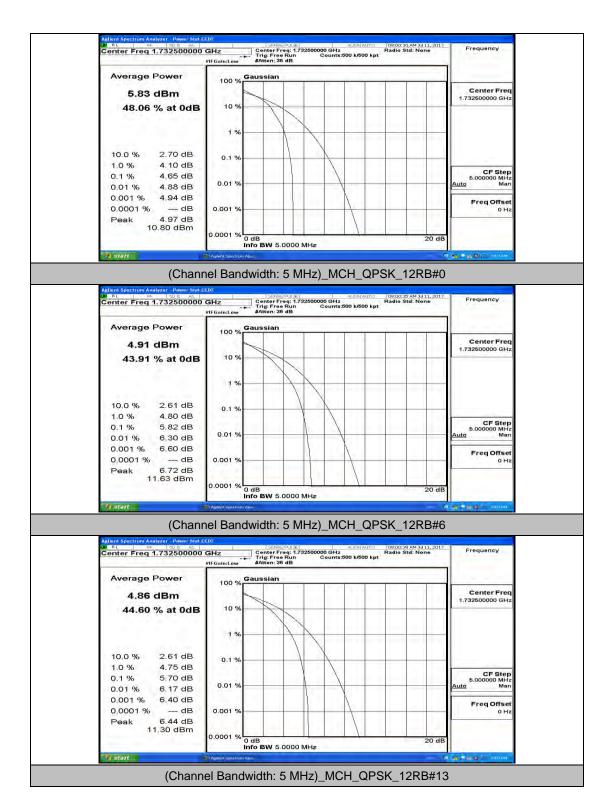


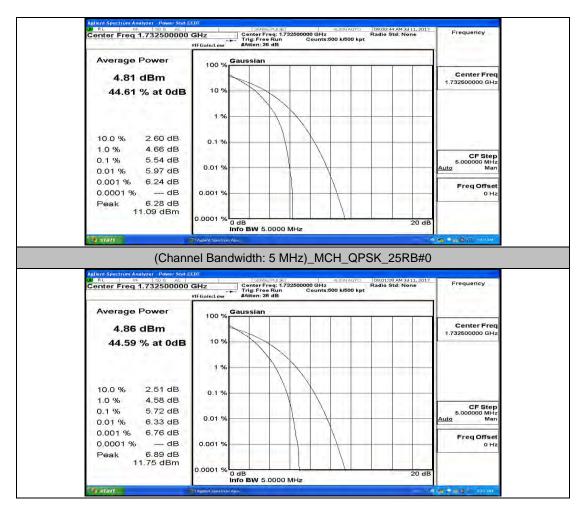
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0

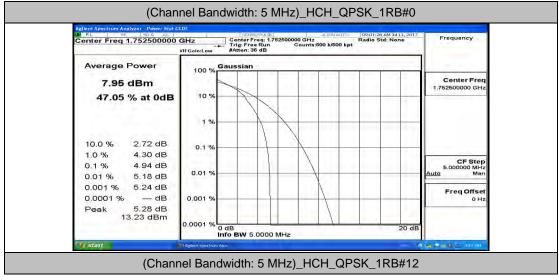


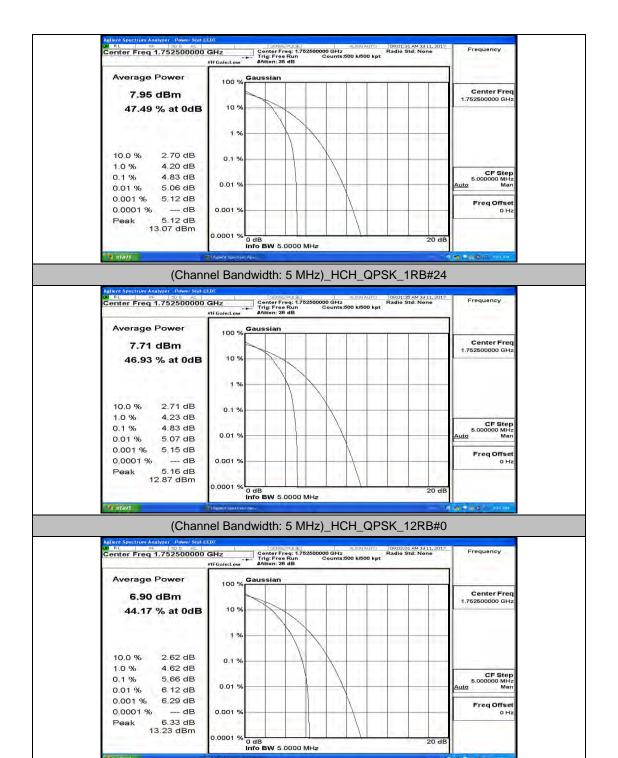




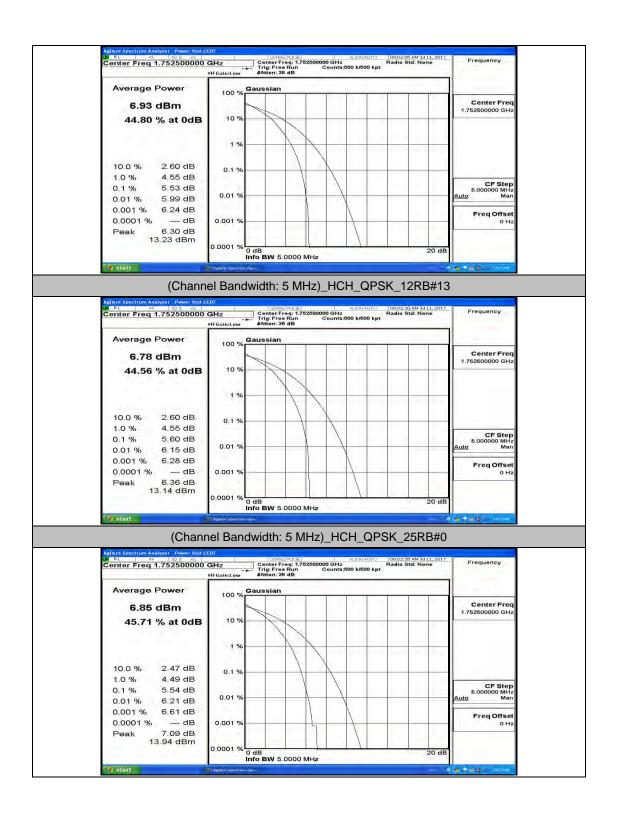


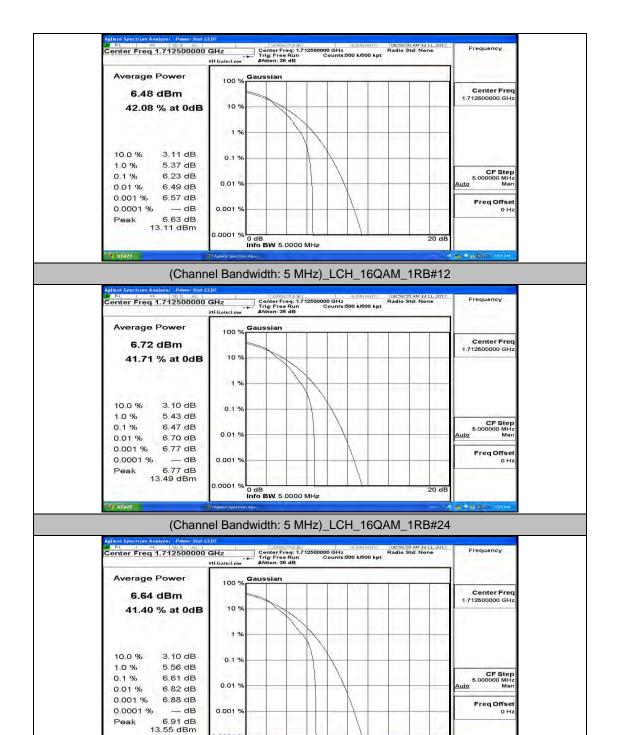






(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6

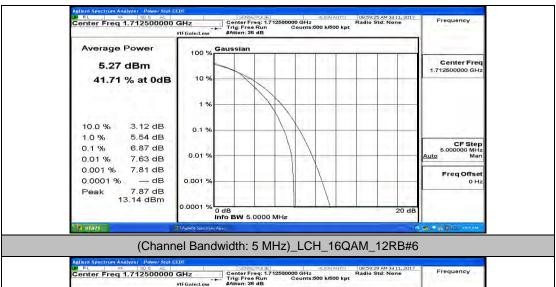


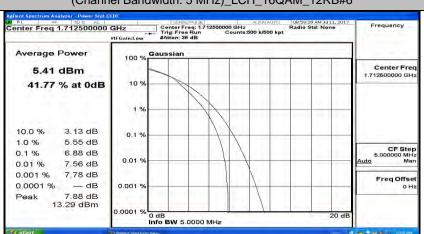


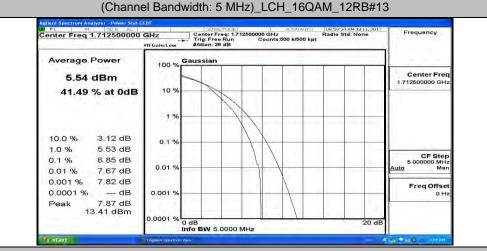
0.0001 %

0 dB Info BW 5.0000 MHz

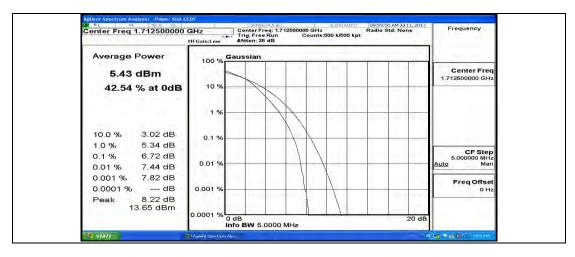
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#0

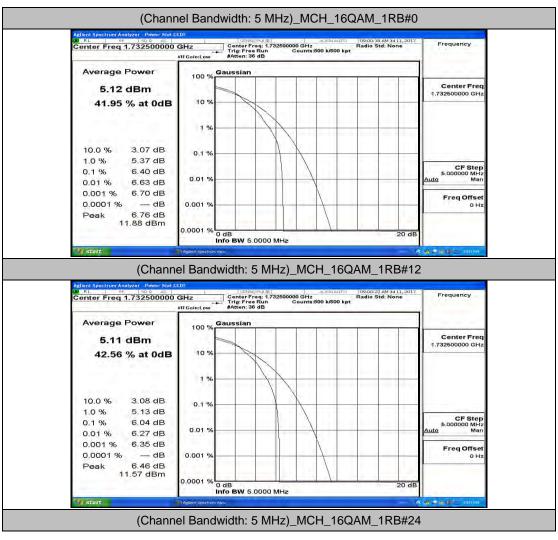


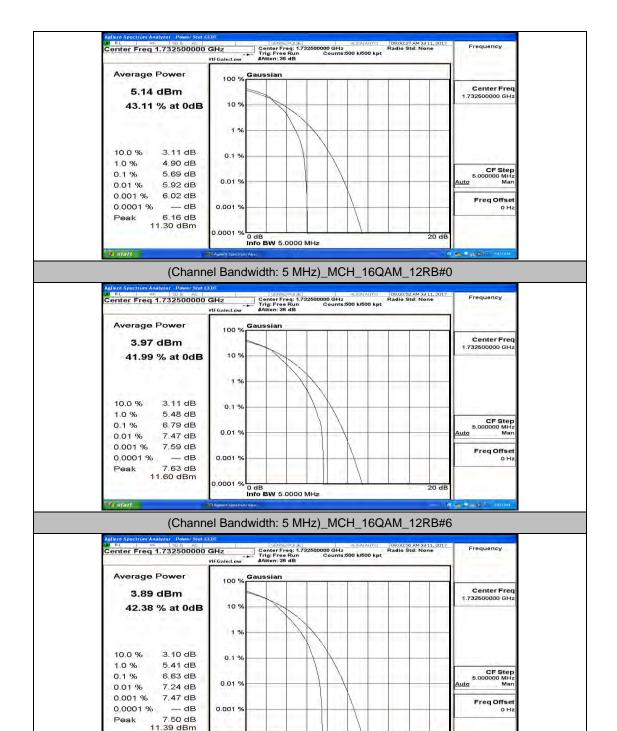




(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0







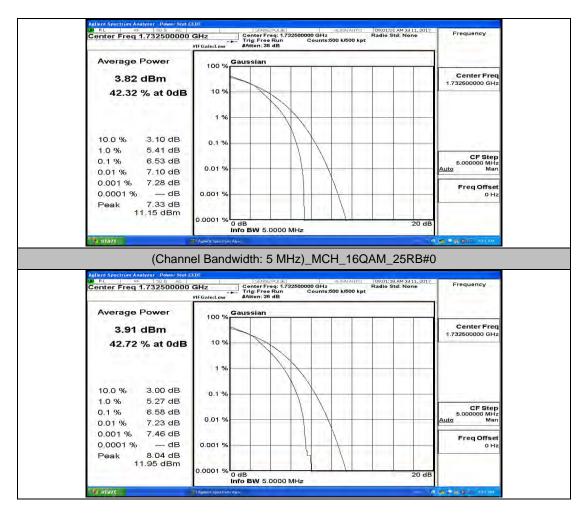
0.001 9

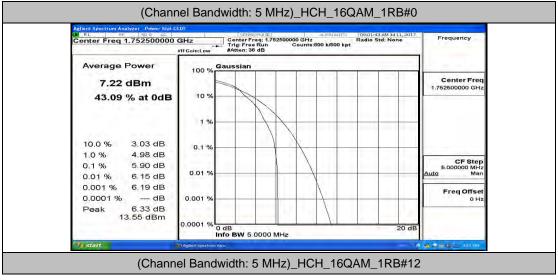
0.0001 %

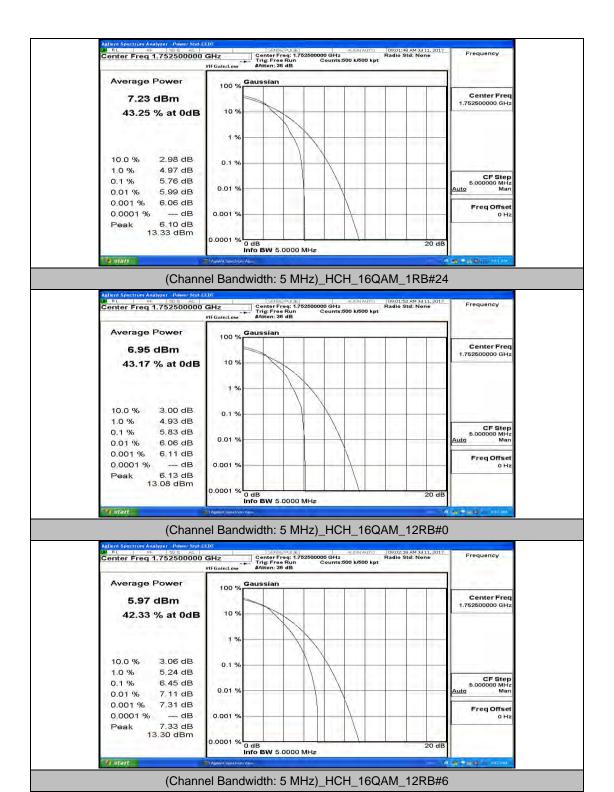
0 dB Info BW 5.0000 MHz

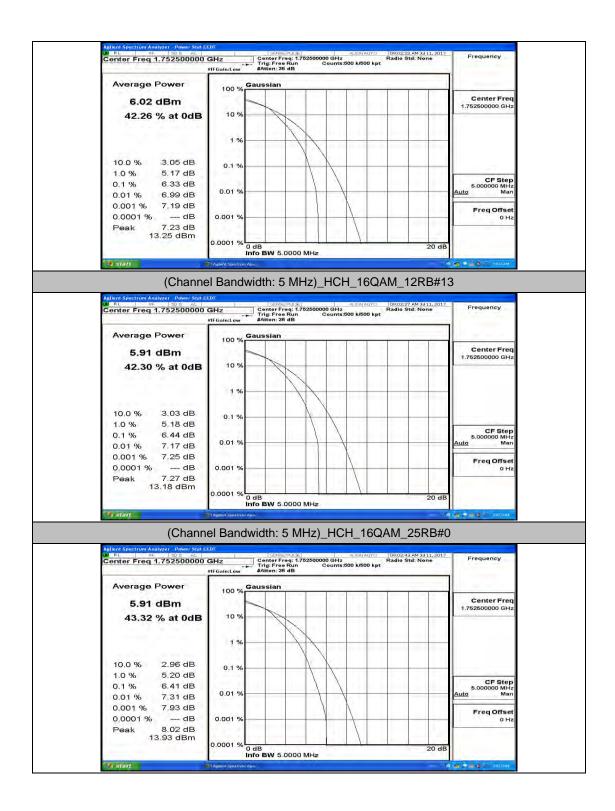
(Channel Bandwidth: 5 MHz)_MCH_16QAM_12RB#13

11.39 dBm

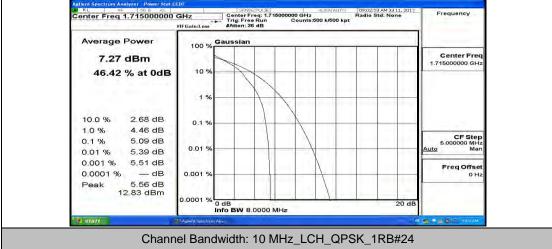


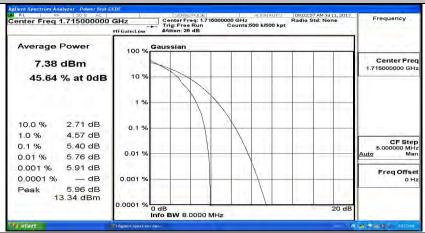




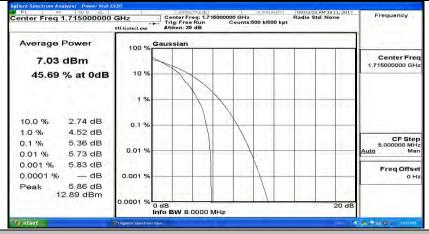


Channel Bandwidth: 10 MHz





Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0