

## Appendix B.2: Peak-to-Average Ratio

### Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio (dB)	Limit (dB)	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.53	<13	PASS
		1	3	4.49	<13	PASS
		1	5	4.55	<13	PASS
		3	0	4.5	<13	PASS
		3	2	4.48	<13	PASS
		3	3	4.49	<13	PASS
		6	0	5.25	<13	PASS
	MCH	1	0	3.97	<13	PASS
		1	3	3.86	<13	PASS
		1	5	3.87	<13	PASS
		3	0	4.08	<13	PASS
		3	2	4	<13	PASS
		3	3	3.99	<13	PASS
		6	0	4.95	<13	PASS
	HCH	1	0	4.32	<13	PASS
		1	3	4.23	<13	PASS
		1	5	4.28	<13	PASS
		3	0	4.33	<13	PASS
		3	2	4.3	<13	PASS
		3	3	4.32	<13	PASS
		6	0	5.07	<13	PASS
16QAM	LCH	1	0	5.54	<13	PASS
		1	3	5.33	<13	PASS
		1	5	5.4	<13	PASS
		3	0	5.43	<13	PASS
		3	2	5.45	<13	PASS
		3	3	5.45	<13	PASS
		6	0	6.14	<13	PASS
	MCH	1	0	5	<13	PASS
		1	3	4.85	<13	PASS
		1	5	4.89	<13	PASS
		3	0	5.03	<13	PASS
		3	2	4.97	<13	PASS

		3	3	5.04	<13	PASS
		6	0	5.8	<13	PASS
	HCH	1	0	5.24	<13	PASS
		1	3	5.15	<13	PASS
		1	5	5.24	<13	PASS
		3	0	5.1	<13	PASS
		3	2	5.09	<13	PASS
		3	3	5.12	<13	PASS
		6	0	5.88	<13	PASS

**Channel Bandwidth: 3 MHz**

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.54	<13	PASS
		1	7	4.54	<13	PASS
		1	14	4.5	<13	PASS
		8	0	5.08	<13	PASS
		8	4	5.07	<13	PASS
		8	7	5.15	<13	PASS
		15	0	5.39	<13	PASS
	MCH	1	0	4.25	<13	PASS
		1	7	4.05	<13	PASS
		1	14	4.02	<13	PASS
		8	0	4.9	<13	PASS
		8	4	4.81	<13	PASS
		8	7	4.8	<13	PASS
		15	0	5.13	<13	PASS
	HCH	1	0	4.26	<13	PASS
		1	7	4.11	<13	PASS
		1	14	4.18	<13	PASS
		8	0	5.06	<13	PASS
		8	4	5.03	<13	PASS
		8	7	5.05	<13	PASS
		15	0	5.38	<13	PASS
16QAM	LCH	1	0	5.45	<13	PASS
		1	7	5.21	<13	PASS
		1	14	5.36	<13	PASS
		8	0	5.84	<13	PASS
		8	4	5.84	<13	PASS
		8	7	5.83	<13	PASS

	MCH	15	0	6.23	<13	PASS
		1	0	5.16	<13	PASS
		1	7	4.94	<13	PASS
		1	14	4.84	<13	PASS
		8	0	5.67	<13	PASS
		8	4	5.54	<13	PASS
		8	7	5.51	<13	PASS
		15	0	6.04	<13	PASS
	HCH	1	0	5.17	<13	PASS
		1	7	5.11	<13	PASS
		1	14	5.07	<13	PASS
		8	0	5.71	<13	PASS
		8	4	5.67	<13	PASS
		8	7	5.76	<13	PASS
		15	0	6.05	<13	PASS

**Channel Bandwidth: 5 MHz**

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.32	<13	PASS
		1	12	4.37	<13	PASS
		1	24	4.29	<13	PASS
		12	0	5.16	<13	PASS
		12	6	5.09	<13	PASS
		12	13	5.08	<13	PASS
		25	0	5.42	<13	PASS
	MCH	1	0	4.09	<13	PASS
		1	12	3.9	<13	PASS
		1	24	3.85	<13	PASS
		12	0	4.91	<13	PASS
		12	6	4.8	<13	PASS
		12	13	4.81	<13	PASS
		25	0	5.21	<13	PASS
	HCH	1	0	4.41	<13	PASS
		1	12	4.31	<13	PASS
		1	24	4.23	<13	PASS
		12	0	5.11	<13	PASS
		12	6	5.02	<13	PASS
		12	13	5.04	<13	PASS
		25	0	5.41	<13	PASS

16QAM	LCH	1	0	5.25	<13	PASS
		1	12	5.28	<13	PASS
		1	24	5.1	<13	PASS
		12	0	5.92	<13	PASS
		12	6	5.86	<13	PASS
		12	13	5.92	<13	PASS
		25	0	6.11	<13	PASS
	MCH	1	0	5.08	<13	PASS
		1	12	4.82	<13	PASS
		1	24	4.83	<13	PASS
		12	0	5.68	<13	PASS
		12	6	5.65	<13	PASS
		12	13	5.6	<13	PASS
		25	0	5.95	<13	PASS
	HCH	1	0	5.14	<13	PASS
		1	12	4.94	<13	PASS
		1	24	4.93	<13	PASS
		12	0	5.99	<13	PASS
		12	6	5.91	<13	PASS
		12	13	5.99	<13	PASS
		25	0	6.07	<13	PASS

**Channel Bandwidth: 10 MHz**

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.44	<13	PASS
		1	24	4.43	<13	PASS
		1	49	4.5	<13	PASS
		25	0	5.24	<13	PASS
		25	12	5.21	<13	PASS
		25	25	5.24	<13	PASS
		50	0	5.38	<13	PASS
	MCH	1	0	4.48	<13	PASS
		1	24	4.03	<13	PASS
		1	49	3.93	<13	PASS
		25	0	5.19	<13	PASS
		25	12	4.98	<13	PASS
		25	25	4.98	<13	PASS
		50	0	5.29	<13	PASS
	HCH	1	0	4.28	<13	PASS

		1	24	4.26	<13	PASS
		1	49	4.15	<13	PASS
		25	0	5.25	<13	PASS
		25	12	5.22	<13	PASS
		25	25	5.22	<13	PASS
		50	0	5.41	<13	PASS
16QAM	LCH	1	0	5.36	<13	PASS
		1	24	5.27	<13	PASS
		1	49	5.25	<13	PASS
		25	0	6.01	<13	PASS
		25	12	5.98	<13	PASS
		25	25	6.06	<13	PASS
		50	0	6.06	<13	PASS
	MCH	1	0	5.39	<13	PASS
		1	24	4.93	<13	PASS
		1	49	4.89	<13	PASS
		25	0	5.99	<13	PASS
		25	12	5.76	<13	PASS
		25	25	5.73	<13	PASS
		50	0	5.97	<13	PASS
	HCH	1	0	5.16	<13	PASS
		1	24	5.13	<13	PASS
		1	49	5.05	<13	PASS
		25	0	6.01	<13	PASS
		25	12	5.98	<13	PASS
		25	25	6.02	<13	PASS
		50	0	6.11	<13	PASS

**Channel Bandwidth: 15 MHz**

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	9.25	<13	PASS
		1	37	4.42	<13	PASS
		1	74	9.27	<13	PASS
		37	0	4.61	<13	PASS
		37	18	5.27	<13	PASS
		37	38	4.78	<13	PASS
		75	0	4.92	<13	PASS
	MCH	1	0	9.16	<13	PASS
		1	37	3.97	<13	PASS

		1	74	9.56	<13	PASS	
		37	0	4.74	<13	PASS	
		37	18	5.12	<13	PASS	
		37	38	4.8	<13	PASS	
		75	0	4.96	<13	PASS	
	HCH	1	0	9.22	<13	PASS	
		1	37	4.4	<13	PASS	
		1	74	9.32	<13	PASS	
		37	0	5.16	<13	PASS	
		37	18	5.5	<13	PASS	
		37	38	5.05	<13	PASS	
		75	0	5.37	<13	PASS	
	16QAM	LCH	1	0	9.36	<13	PASS
			1	37	5.29	<13	PASS
1			74	9.82	<13	PASS	
37			0	5.82	<13	PASS	
37			18	6.02	<13	PASS	
37			38	5.91	<13	PASS	
75			0	6.14	<13	PASS	
MCH		1	0	9.37	<13	PASS	
		1	37	4.9	<13	PASS	
		1	74	9.98	<13	PASS	
		37	0	5.82	<13	PASS	
		37	18	5.86	<13	PASS	
		37	38	5.78	<13	PASS	
		75	0	6.13	<13	PASS	
HCH		1	0	9.04	<13	PASS	
		1	37	5.34	<13	PASS	
		1	74	10.05	<13	PASS	
		37	0	6.09	<13	PASS	
		37	18	6.11	<13	PASS	
		37	38	6.11	<13	PASS	
		75	0	6.47	<13	PASS	

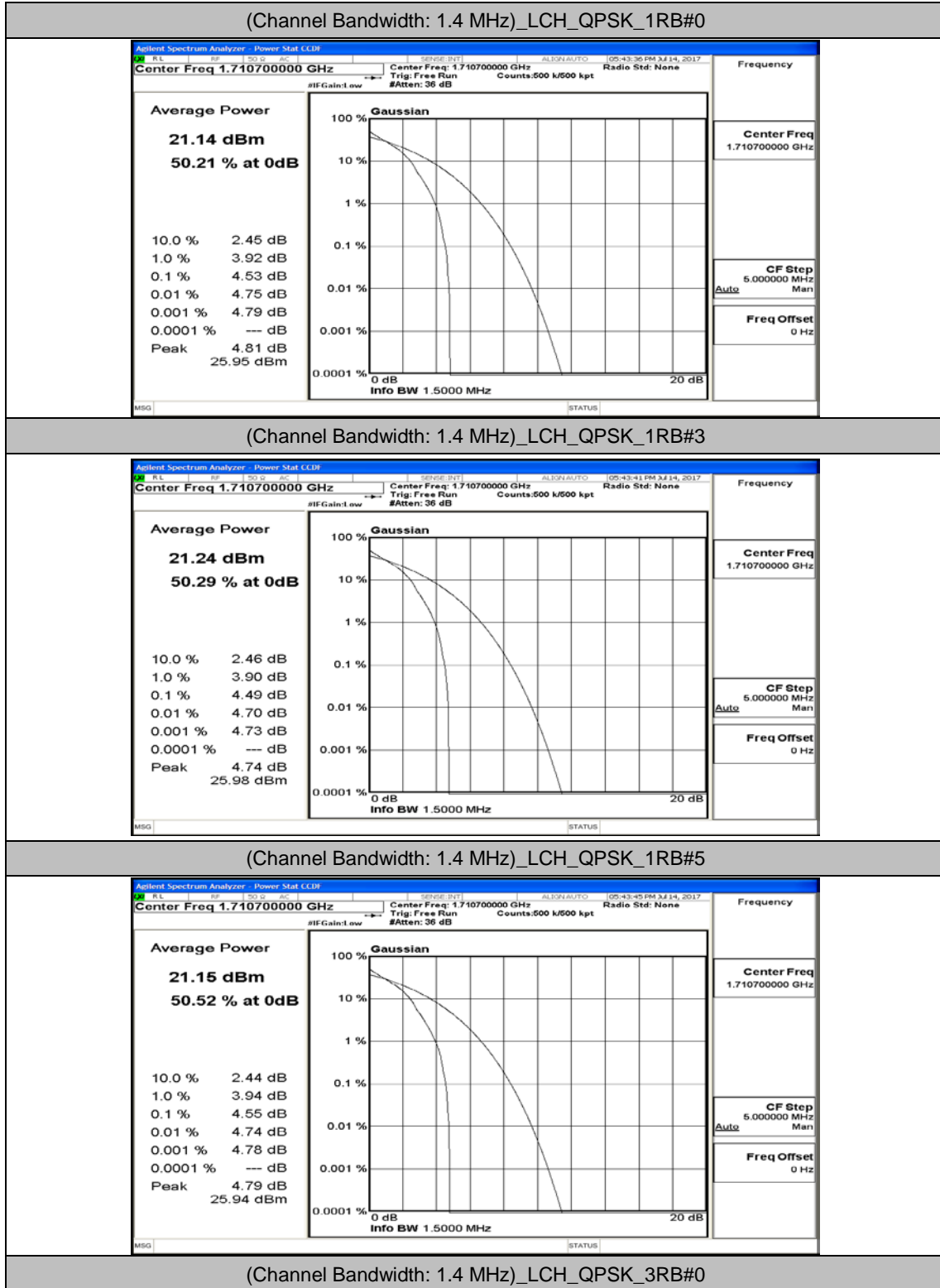
**Channel Bandwidth: 20 MHz**

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	6.47	<13	PASS
		1	49	4.5	<13	PASS
		1	99	6.83	<13	PASS

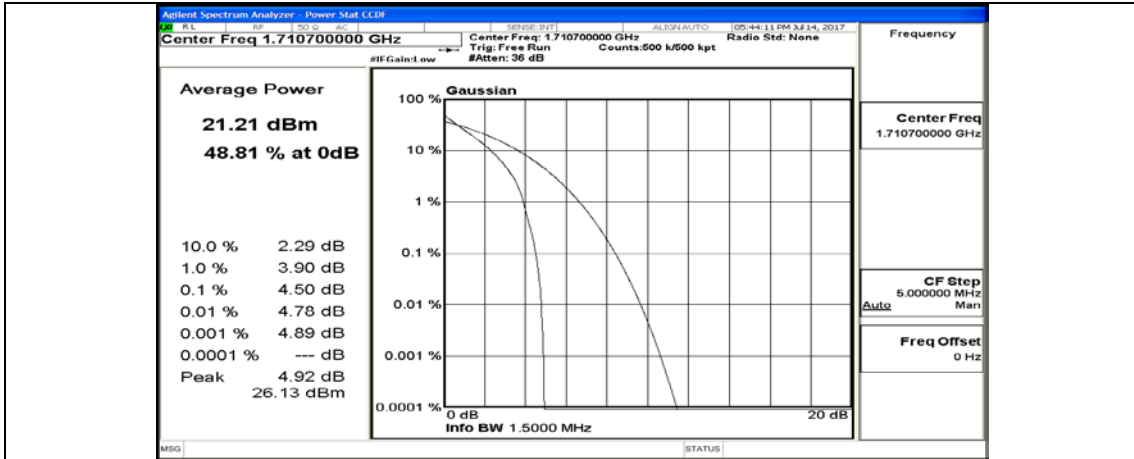
		50	0	5.8	<13	PASS
		50	25	5.63	<13	PASS
		50	50	6.15	<13	PASS
		100	0	6.08	<13	PASS
	MCH	1	0	7.13	<13	PASS
		1	49	3.94	<13	PASS
		1	99	7.44	<13	PASS
		50	0	5.48	<13	PASS
		50	25	5.35	<13	PASS
		50	50	5.76	<13	PASS
		100	0	6.05	<13	PASS
	HCH	1	0	7.13	<13	PASS
		1	49	4.58	<13	PASS
		1	99	7.59	<13	PASS
		50	0	5.49	<13	PASS
		50	25	5.39	<13	PASS
50		50	5.76	<13	PASS	
100		0	5.79	<13	PASS	
16QAM	LCH	1	0	7.01	<13	PASS
		1	49	5.37	<13	PASS
		1	99	6.9	<13	PASS
		50	0	6.74	<13	PASS
		50	25	6.2	<13	PASS
		50	50	6.64	<13	PASS
		100	0	6.79	<13	PASS
	MCH	1	0	7.23	<13	PASS
		1	49	4.84	<13	PASS
		1	99	6.81	<13	PASS
		50	0	6.65	<13	PASS
		50	25	6.09	<13	PASS
		50	50	6.6	<13	PASS
		100	0	6.8	<13	PASS
	HCH	1	0	7.05	<13	PASS
		1	49	5.16	<13	PASS
		1	99	7.22	<13	PASS
		50	0	6.47	<13	PASS
		50	25	6.27	<13	PASS
		50	50	6.72	<13	PASS
		100	0	6.77	<13	PASS

## Test Graphs

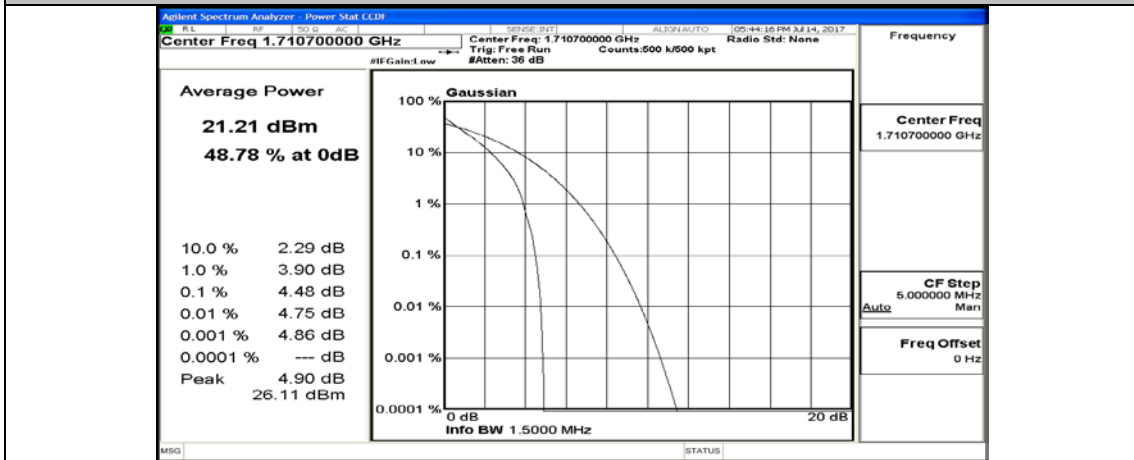
### Channel Bandwidth: 1.4 MHz



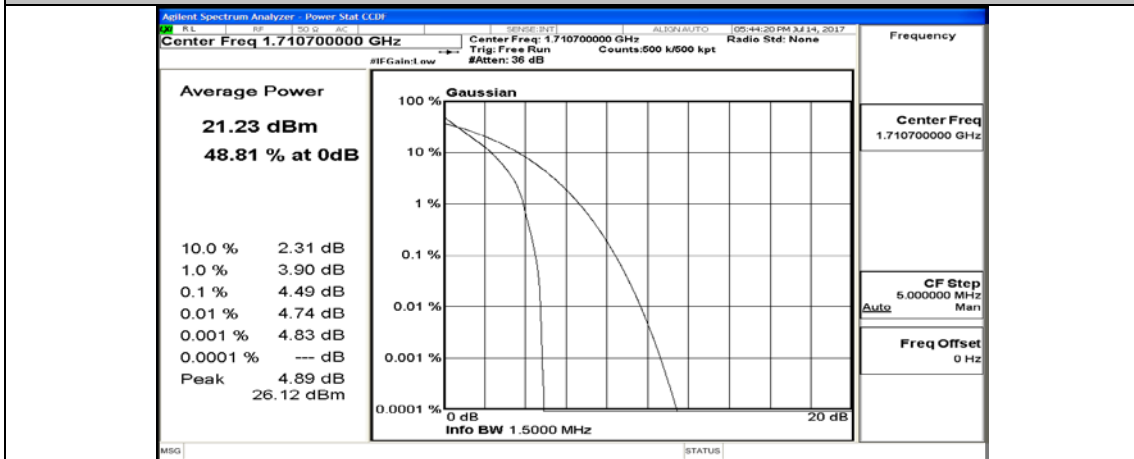




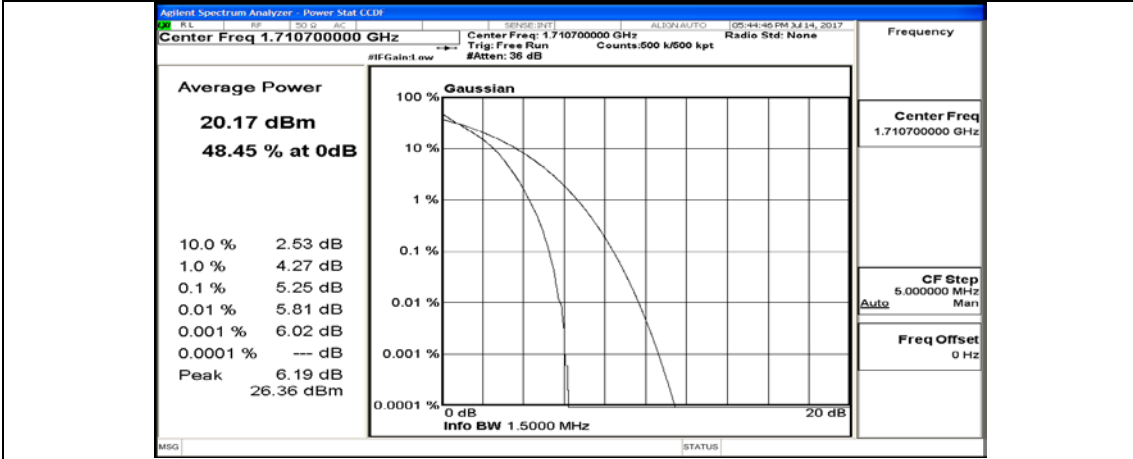
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_3RB#2



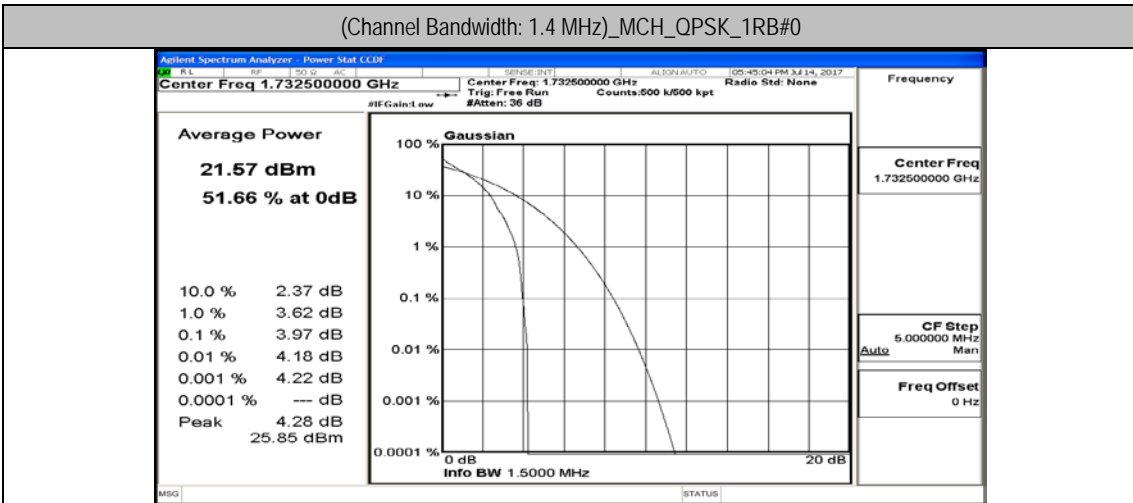
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_3RB#3



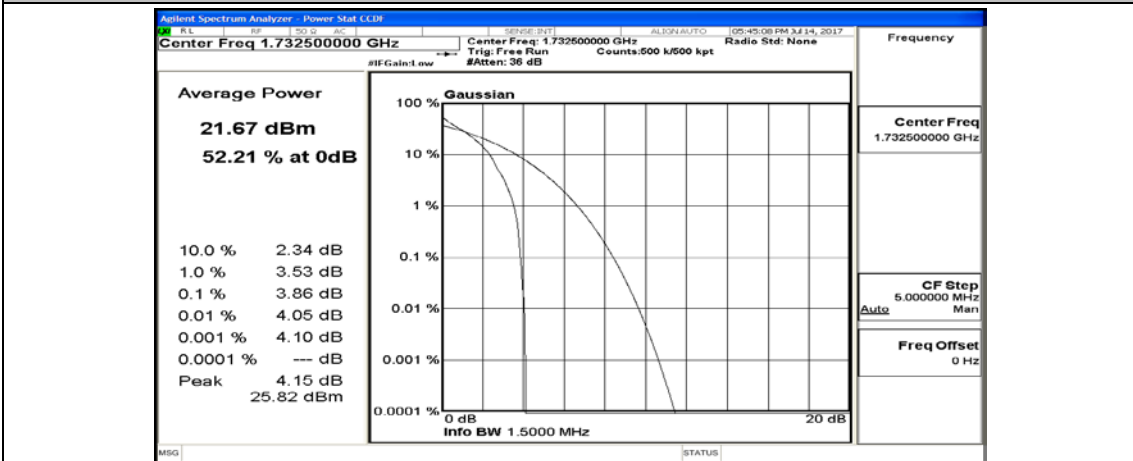
(Channel Bandwidth: 1.4 MHz)\_LCH\_QPSK\_6RB#0



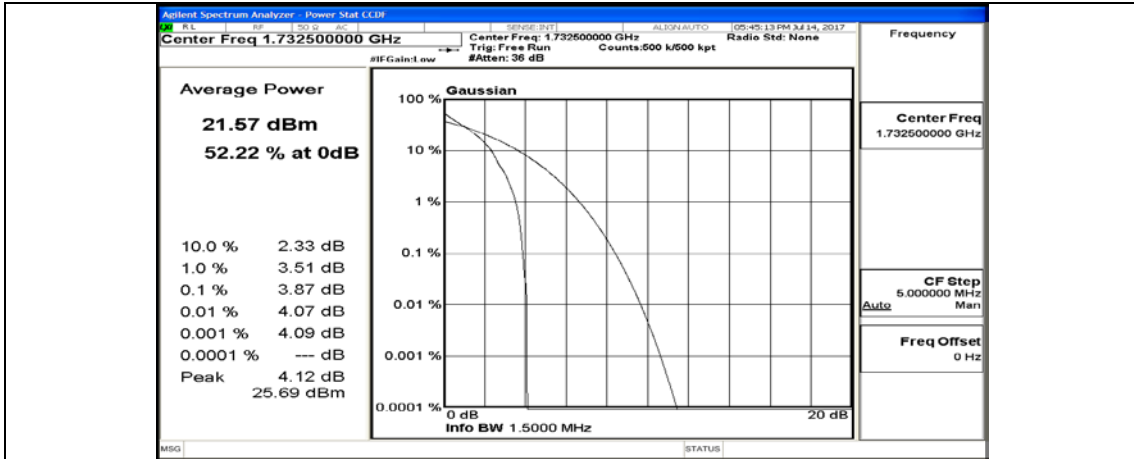
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#0



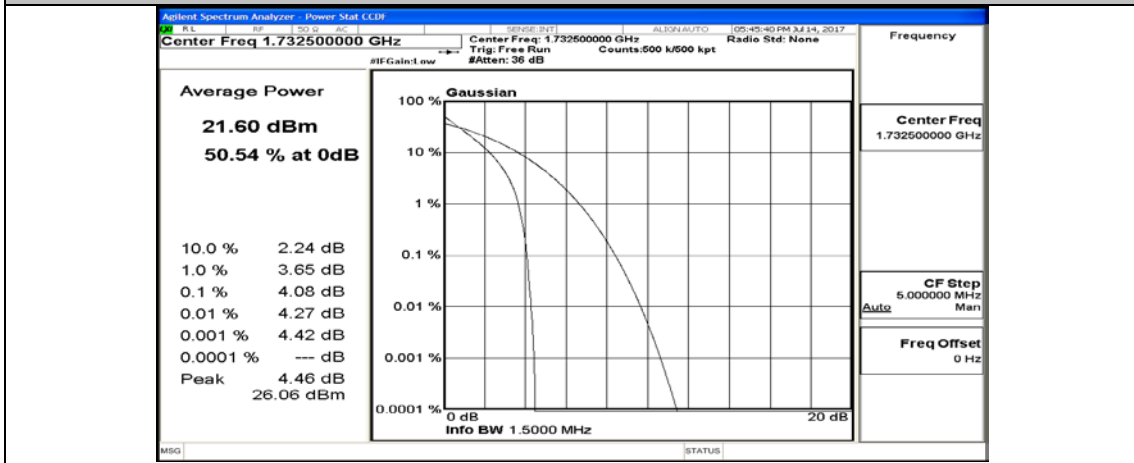
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#3



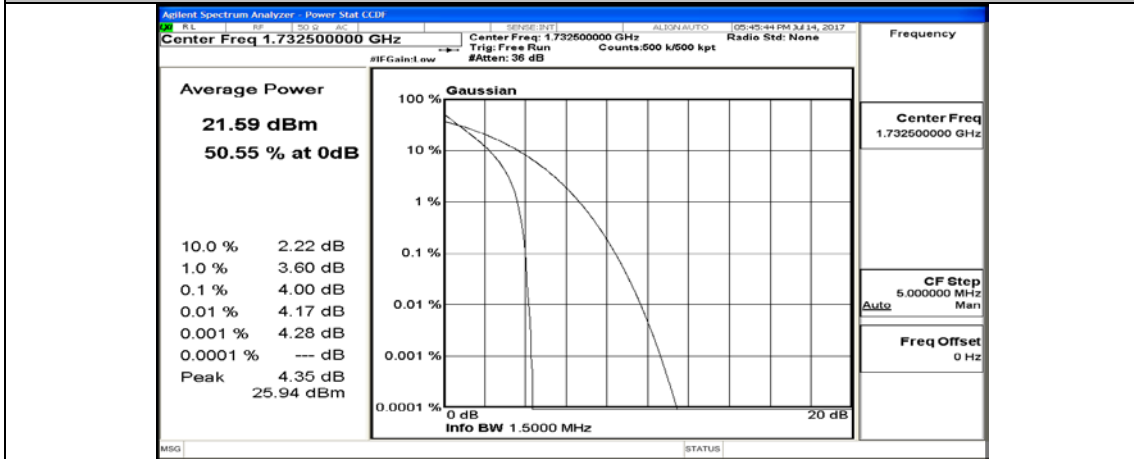
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_1RB#5



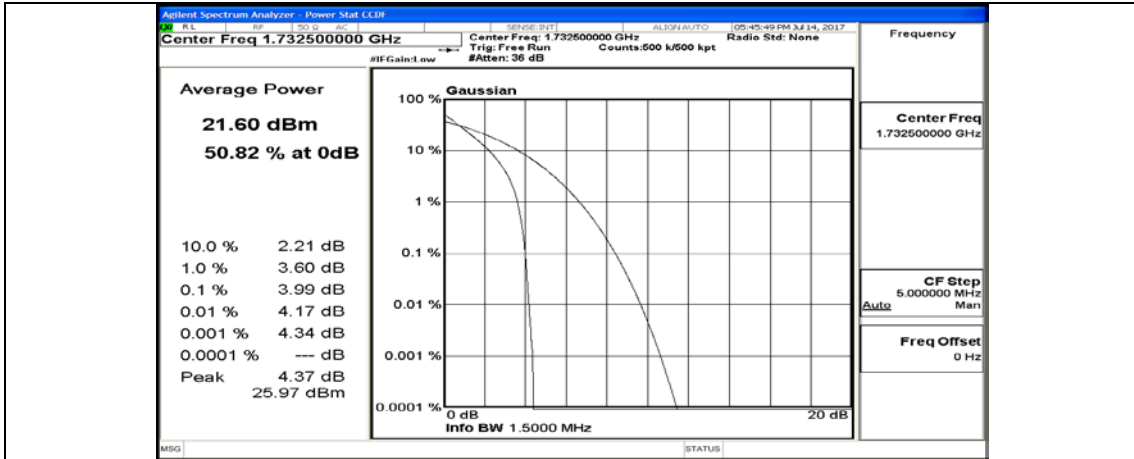
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#0



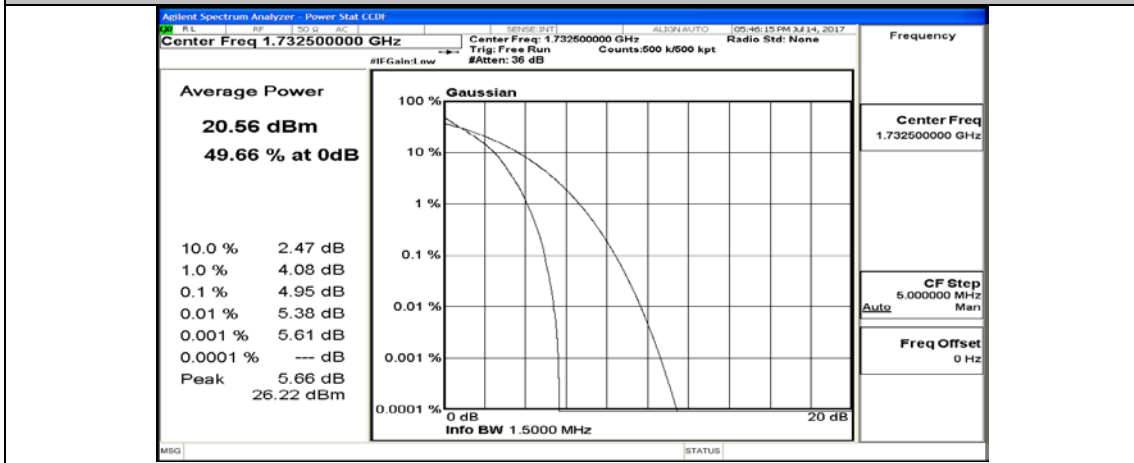
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#2



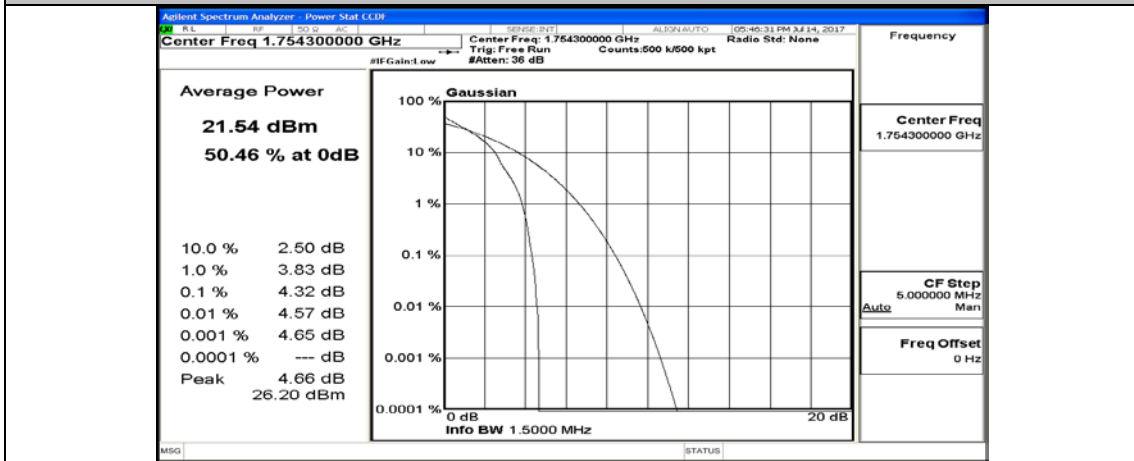
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_3RB#3



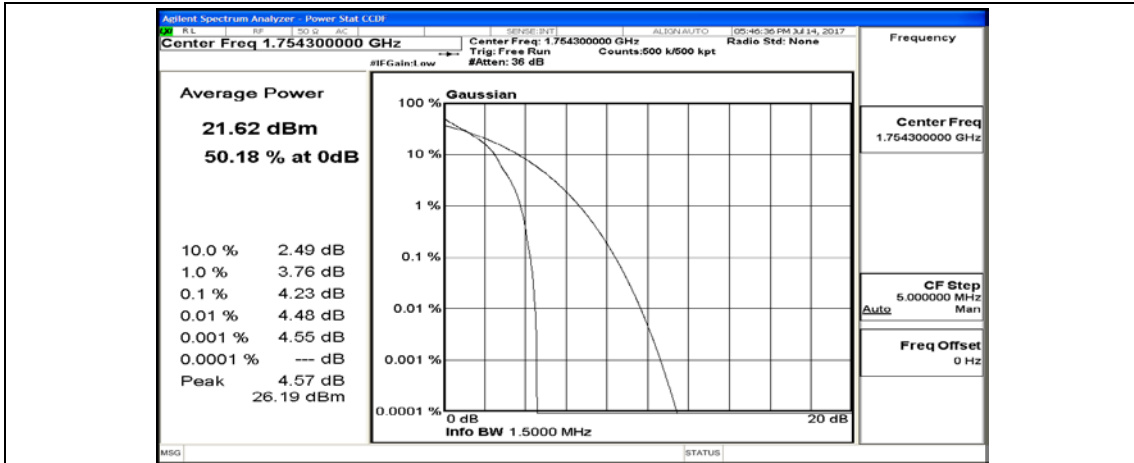
(Channel Bandwidth: 1.4 MHz)\_MCH\_QPSK\_6RB#0



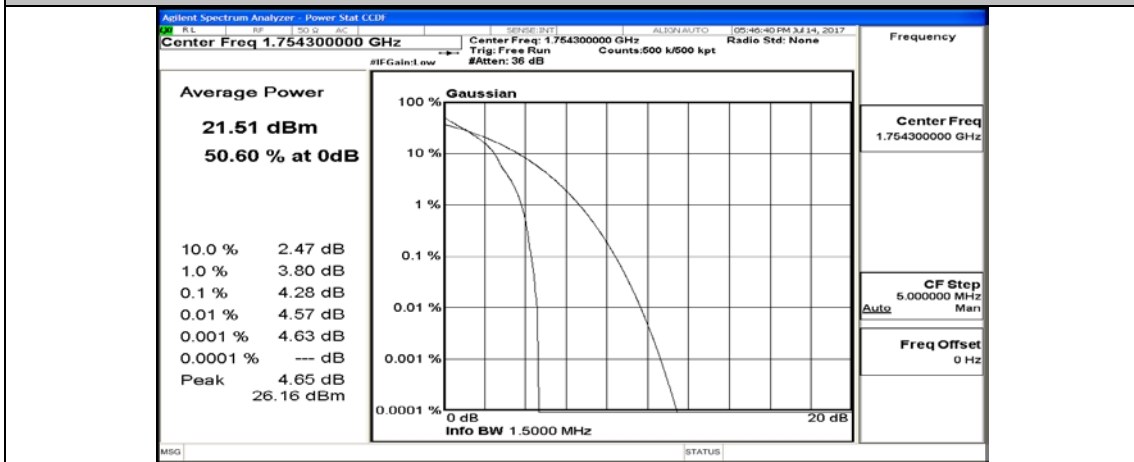
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#0



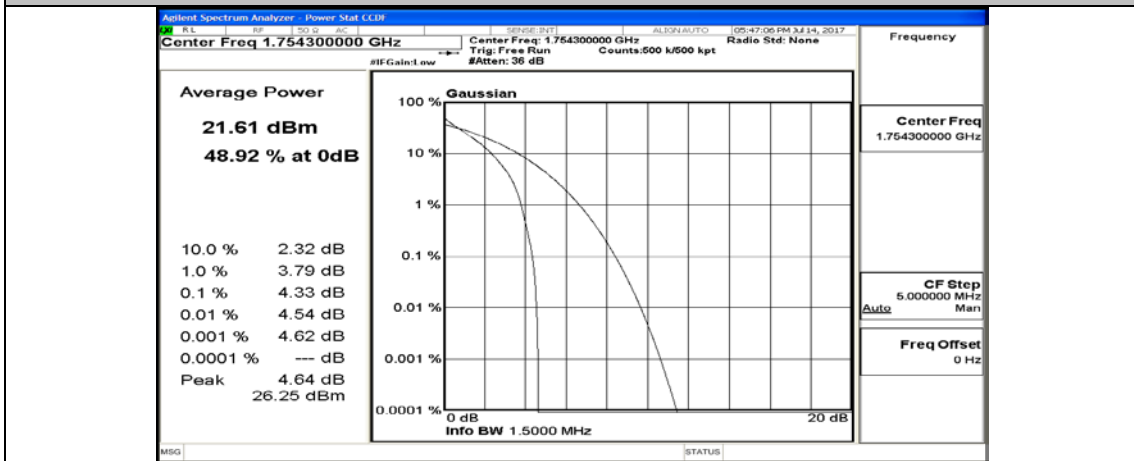
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#3



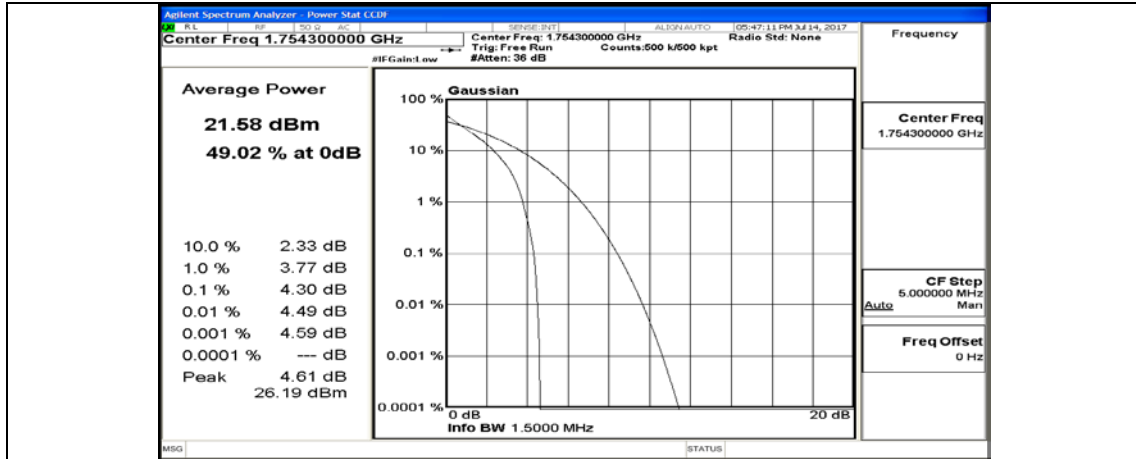
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_1RB#5



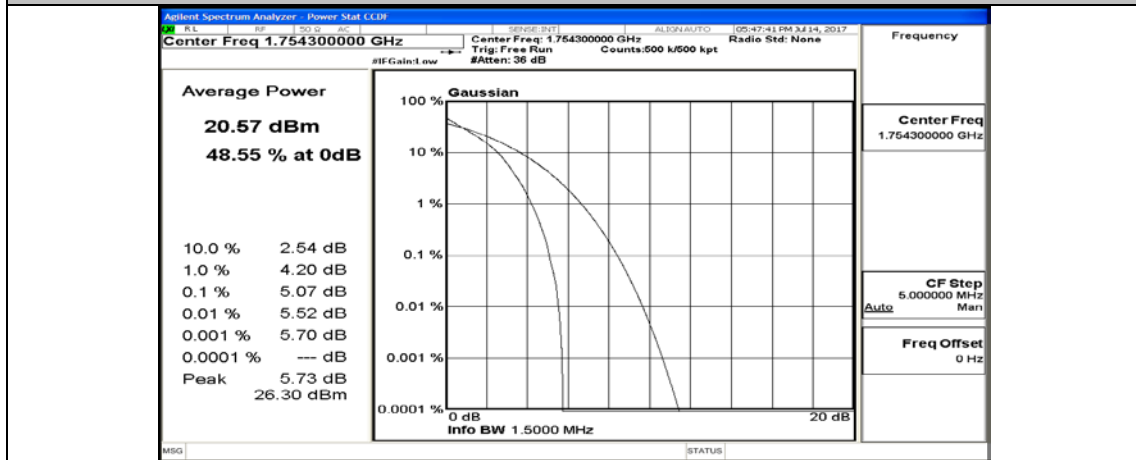
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#0



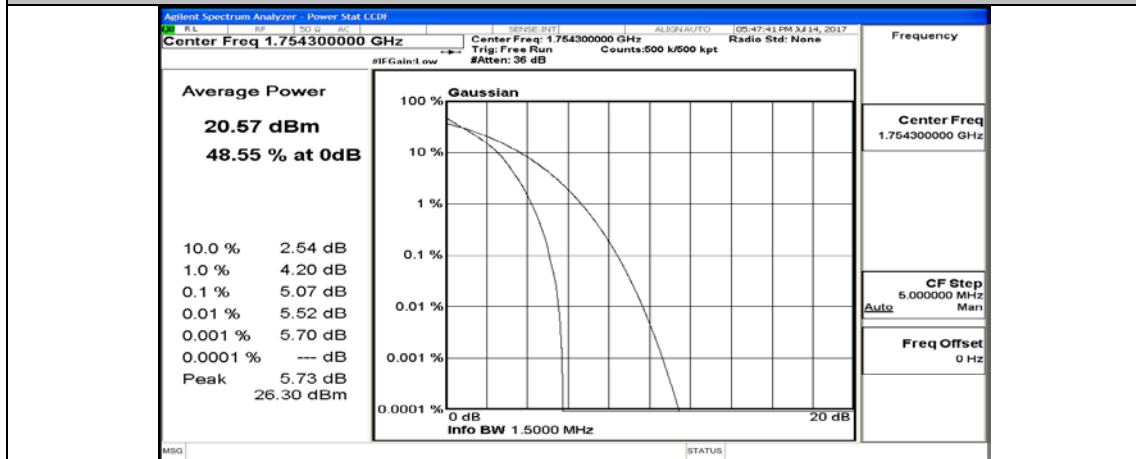
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#2



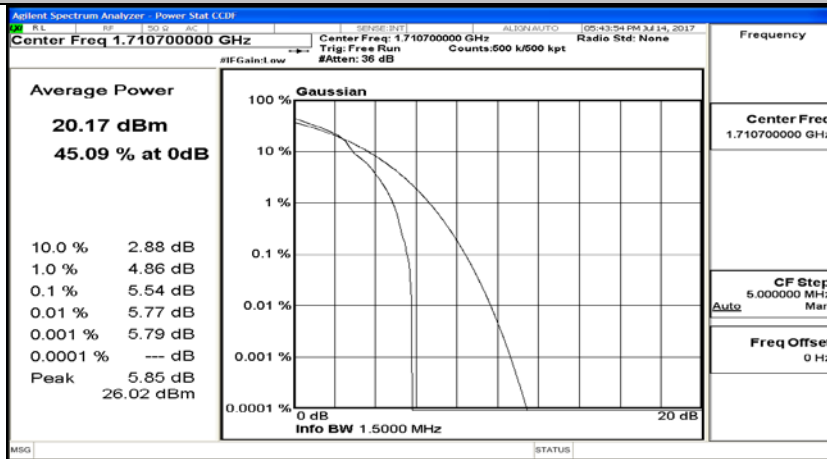
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_3RB#3



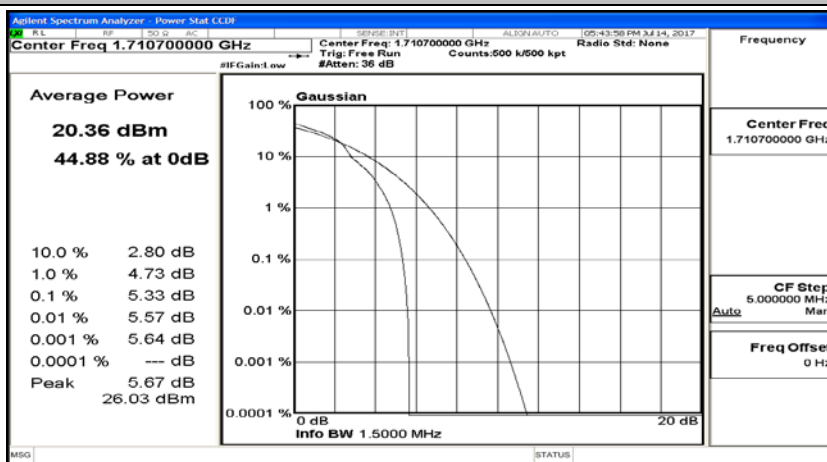
(Channel Bandwidth: 1.4 MHz)\_HCH\_QPSK\_6RB#0



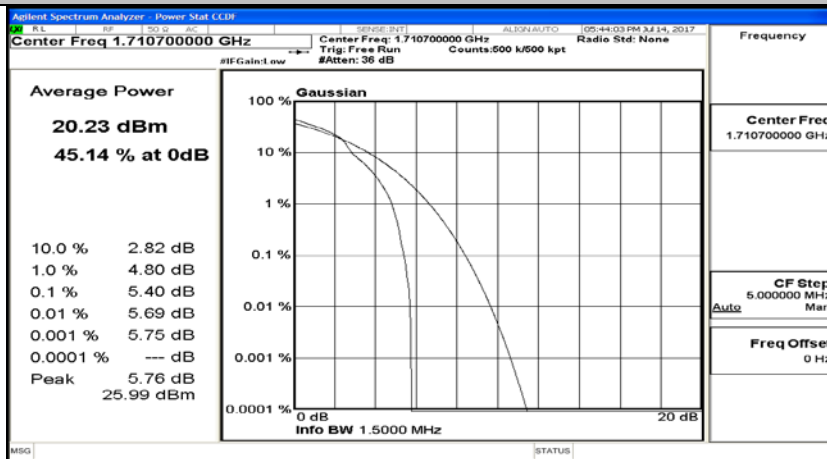
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#0



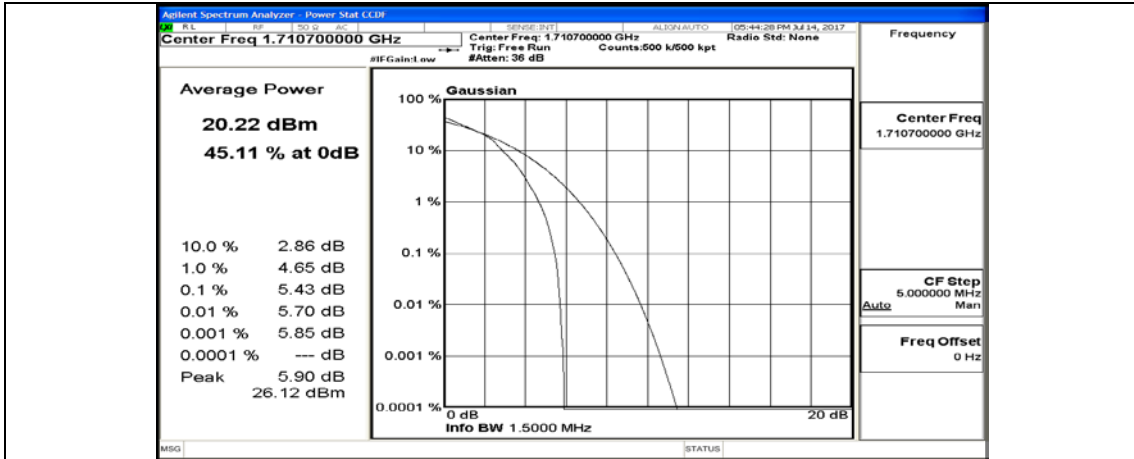
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#3



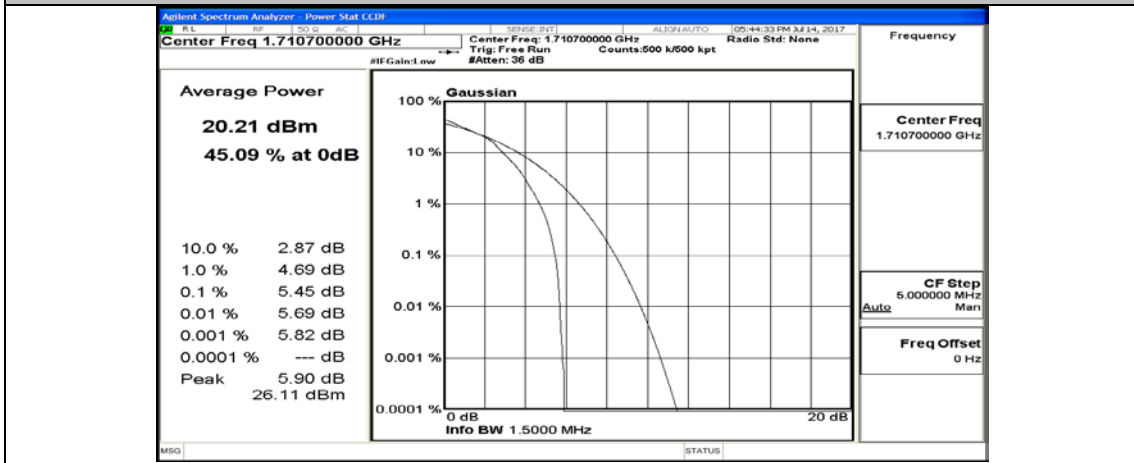
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_1RB#5



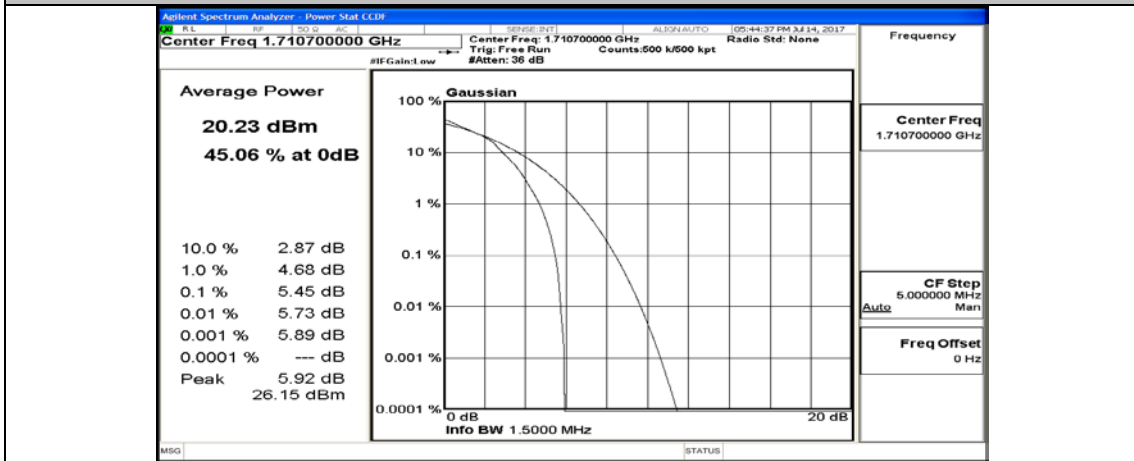
(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_3RB#0



(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_3RB#2

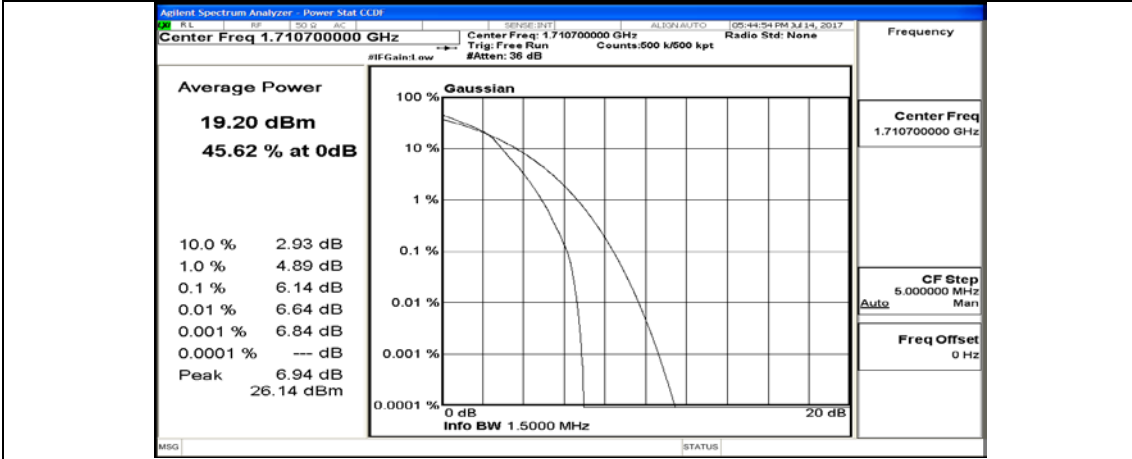


(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_3RB#3

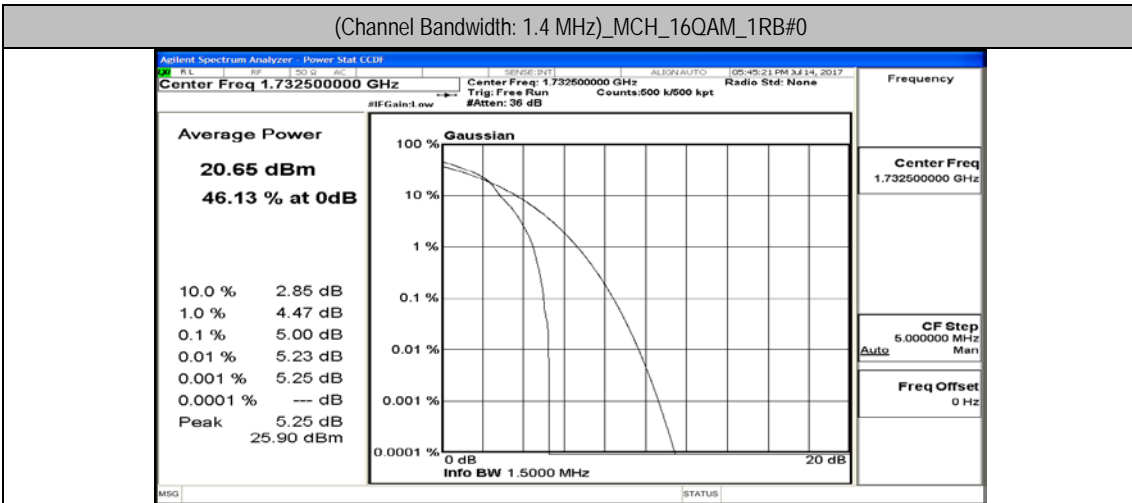


(Channel Bandwidth: 1.4 MHz)\_LCH\_16QAM\_6RB#0

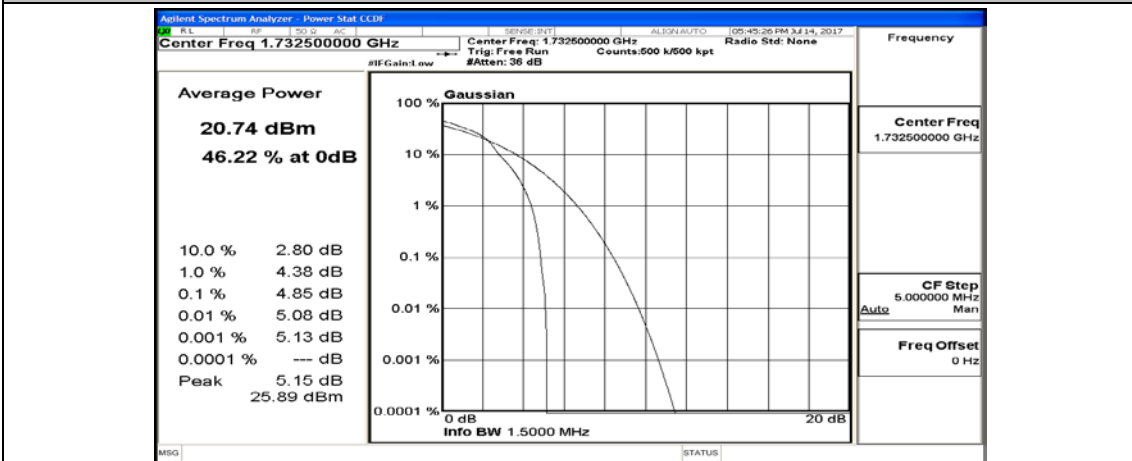




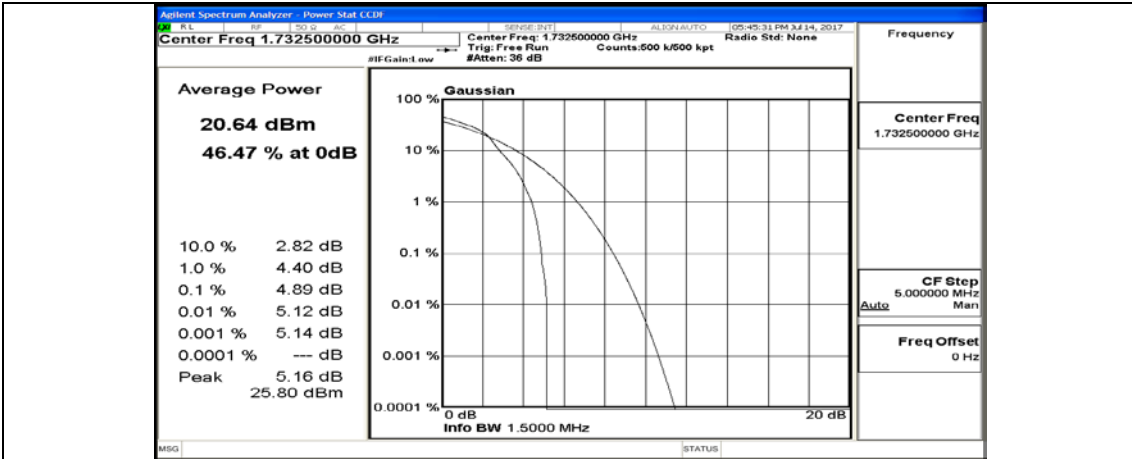
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#0



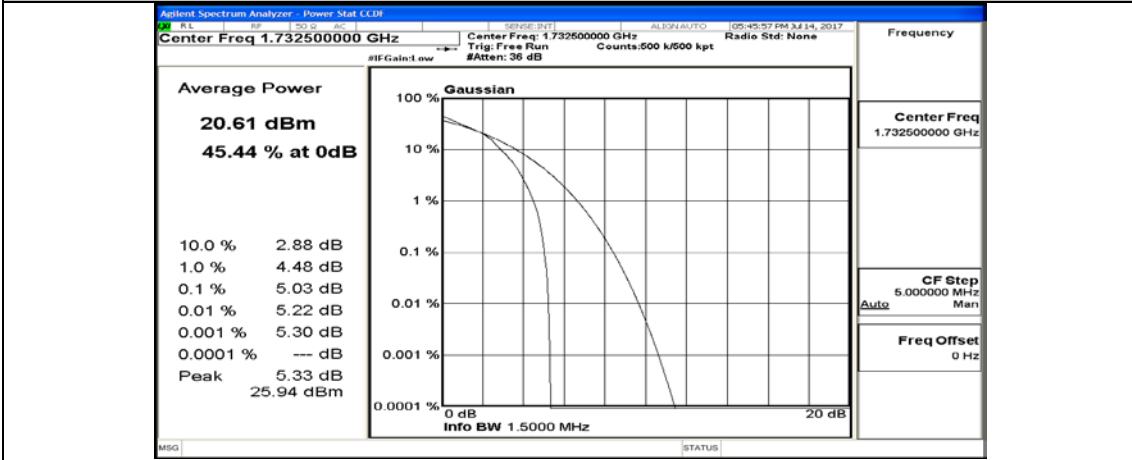
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#3



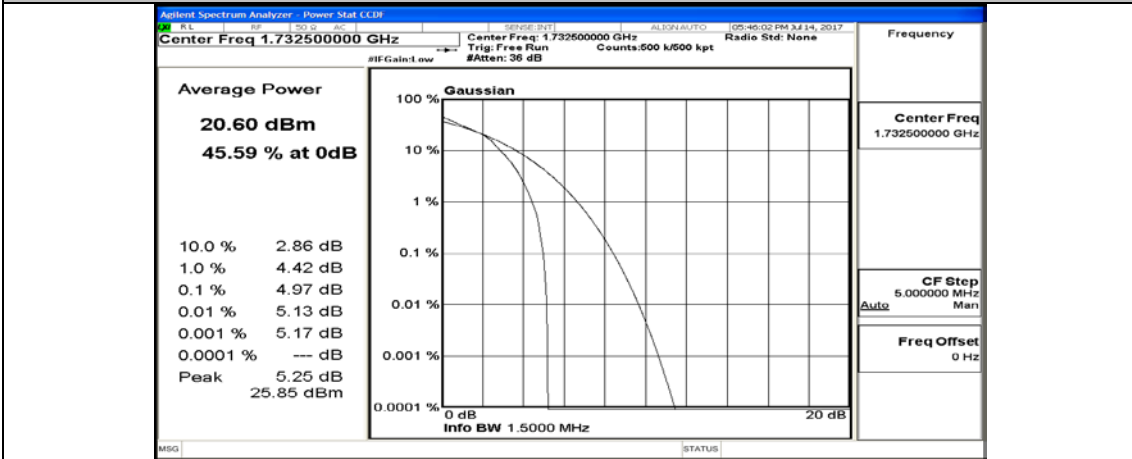
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_1RB#5



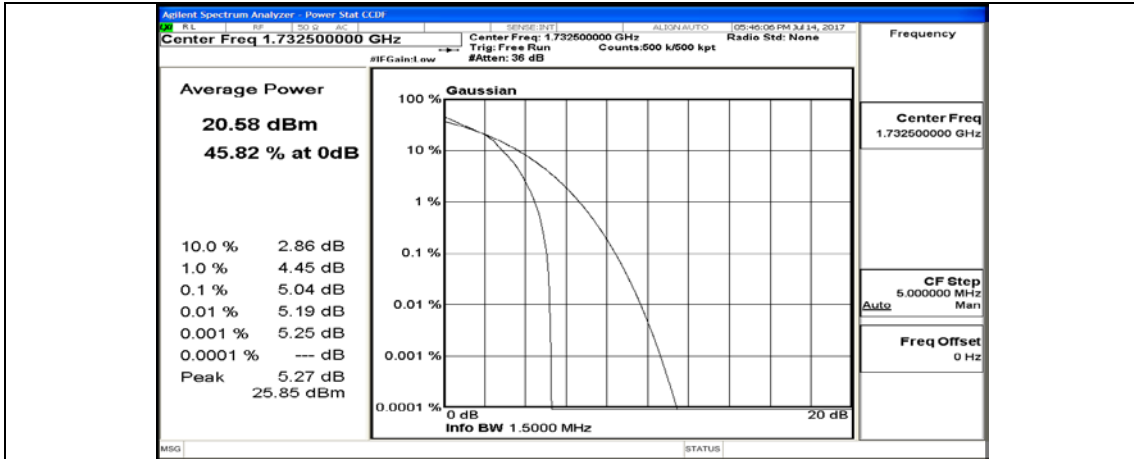
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#0



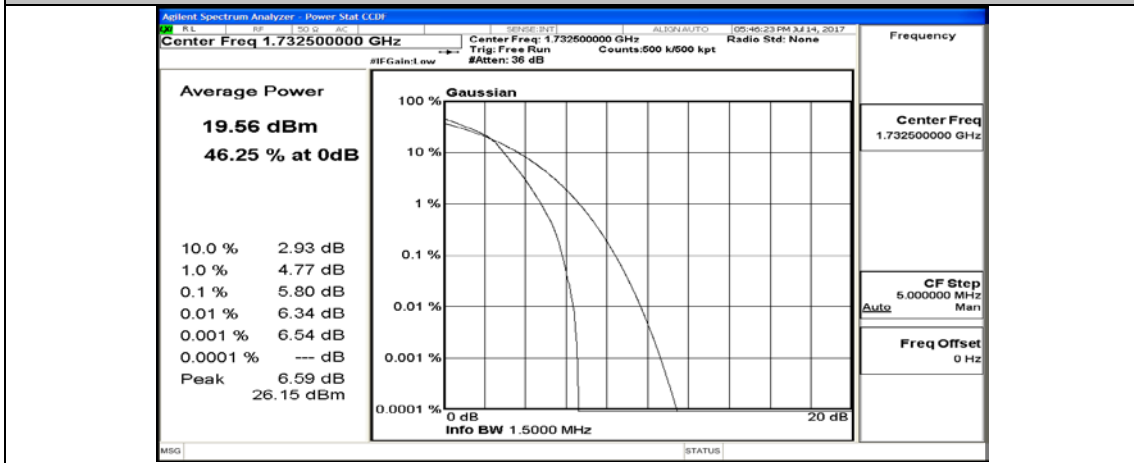
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#2



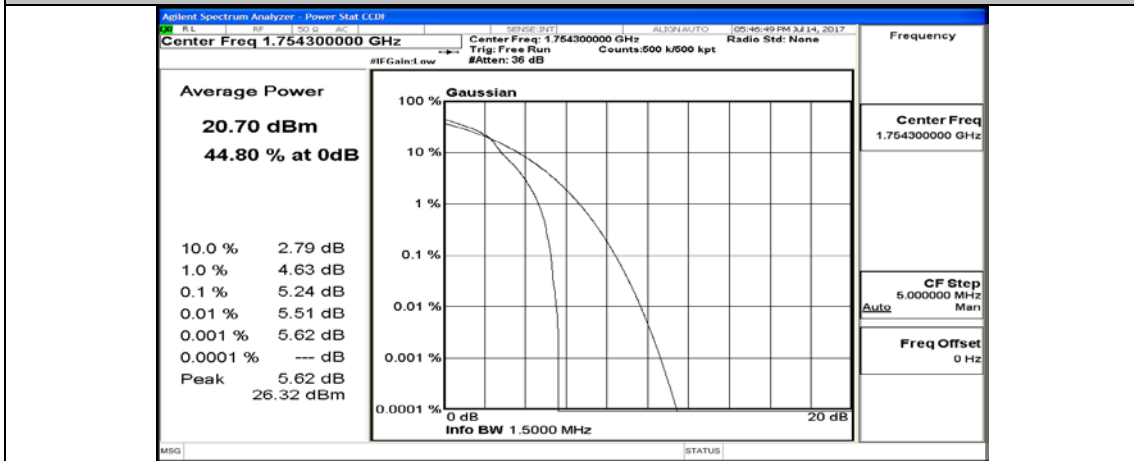
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_3RB#3



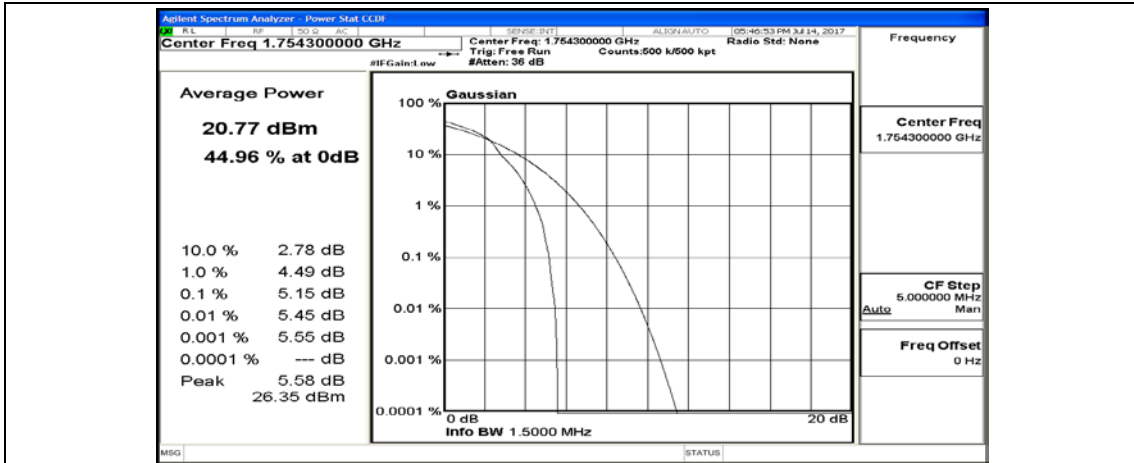
(Channel Bandwidth: 1.4 MHz)\_MCH\_16QAM\_6RB#0



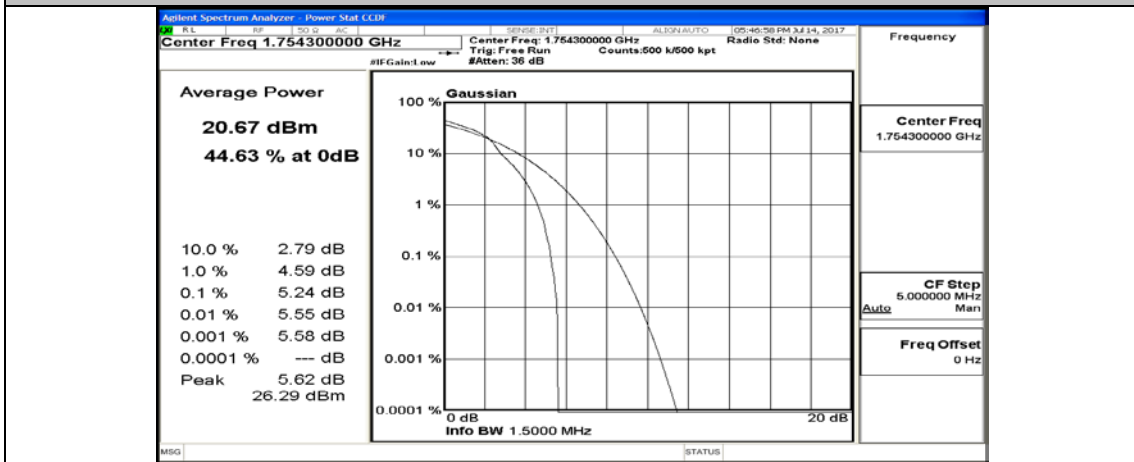
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#0



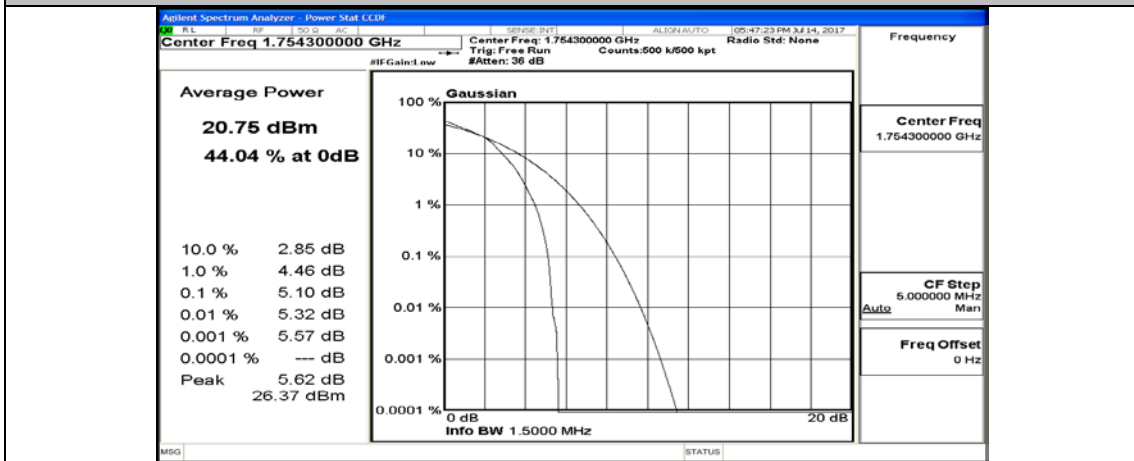
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#3



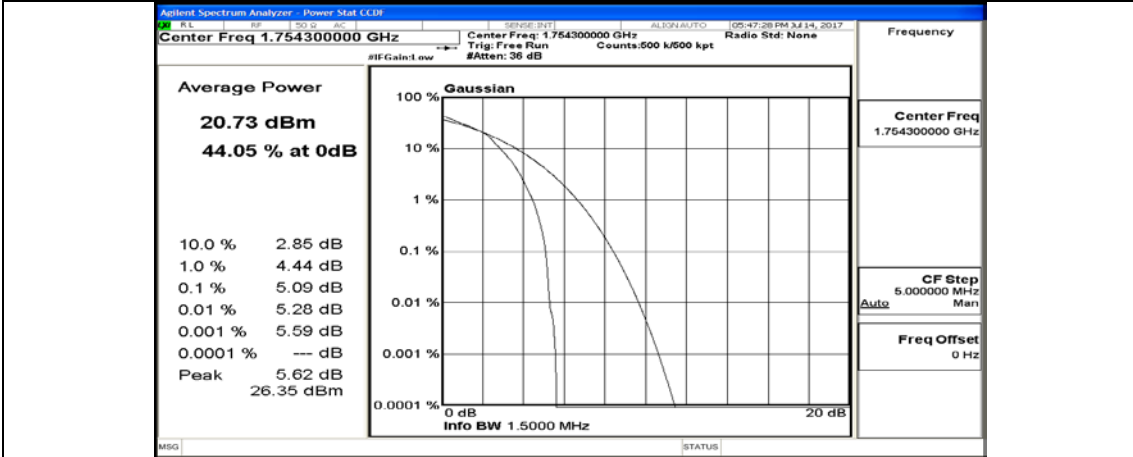
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_1RB#5



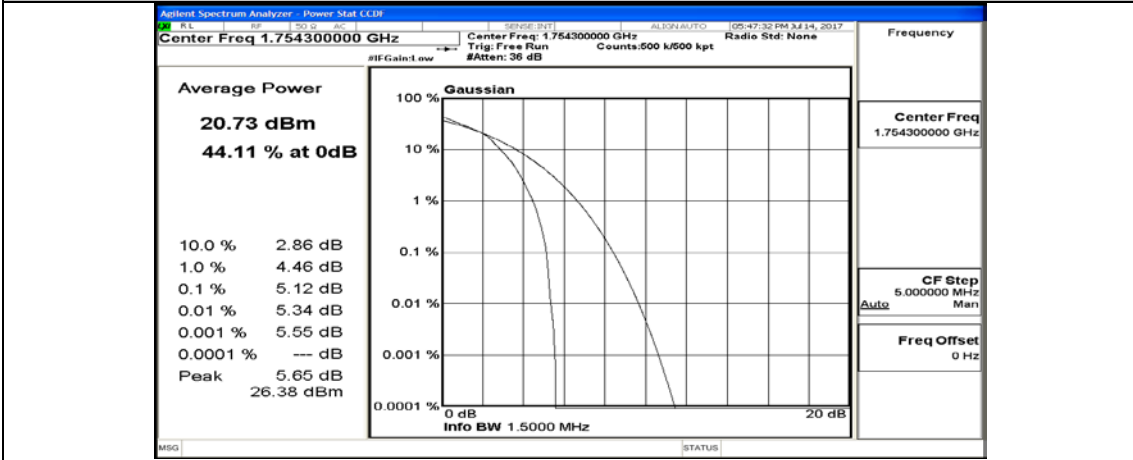
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#0



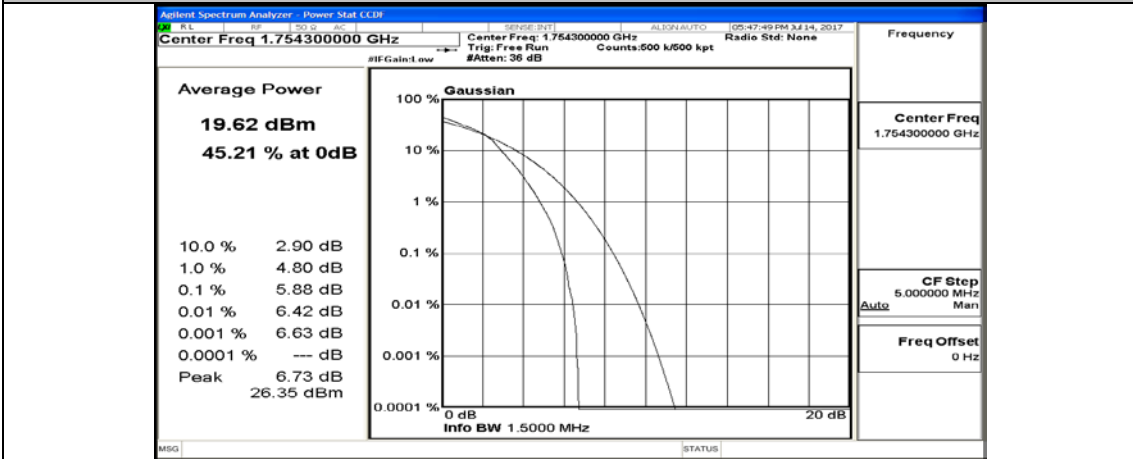
(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#2



(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_3RB#3

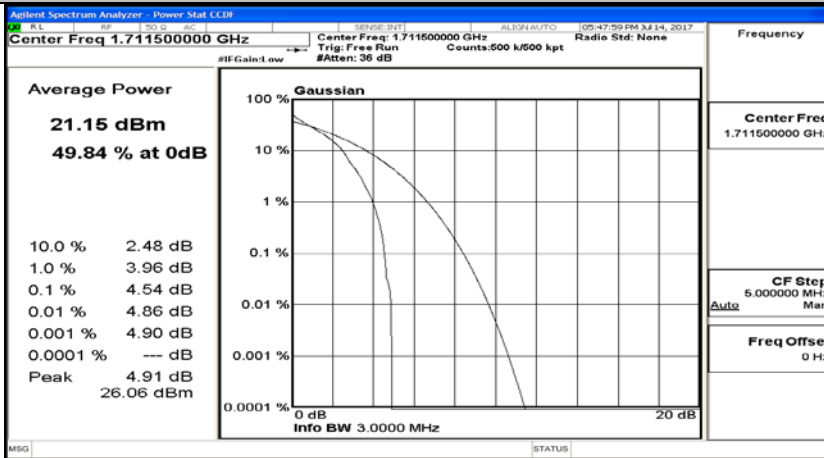


(Channel Bandwidth: 1.4 MHz)\_HCH\_16QAM\_6RB#0

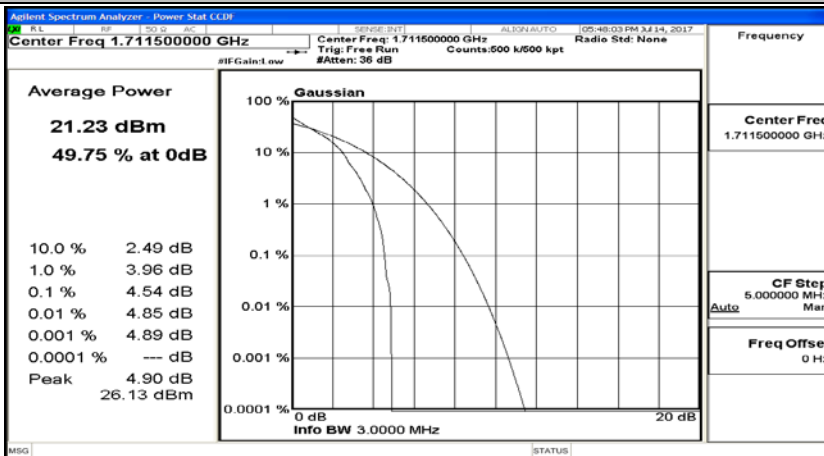


### Channel Bandwidth: 3 MHz

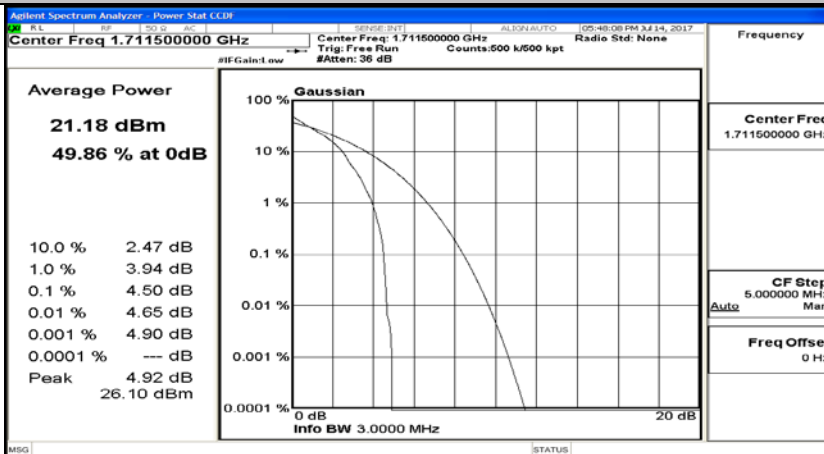
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#0



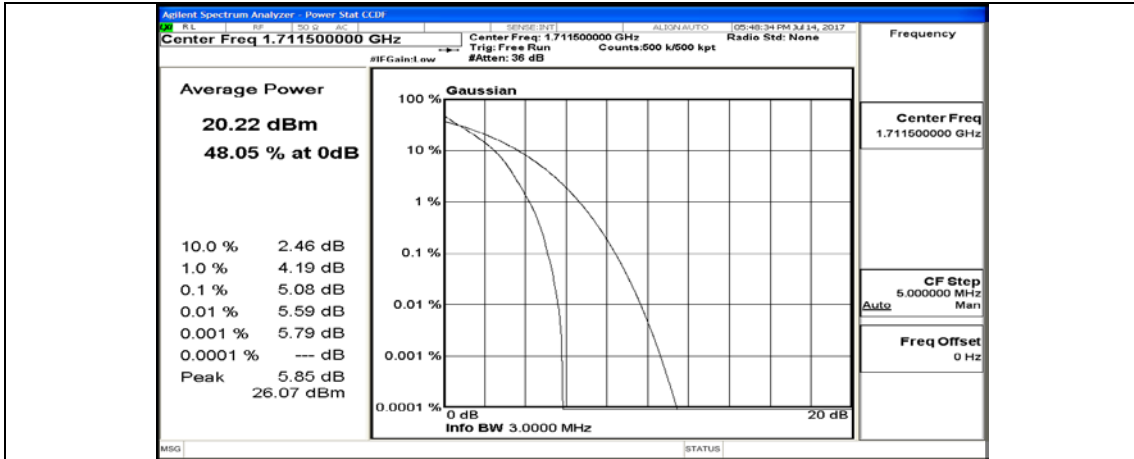
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#7



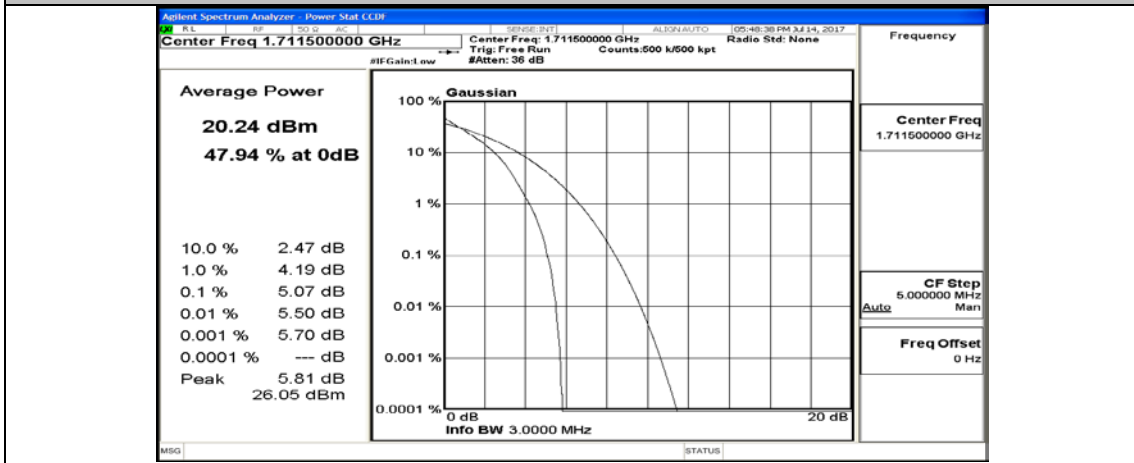
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_1RB#14



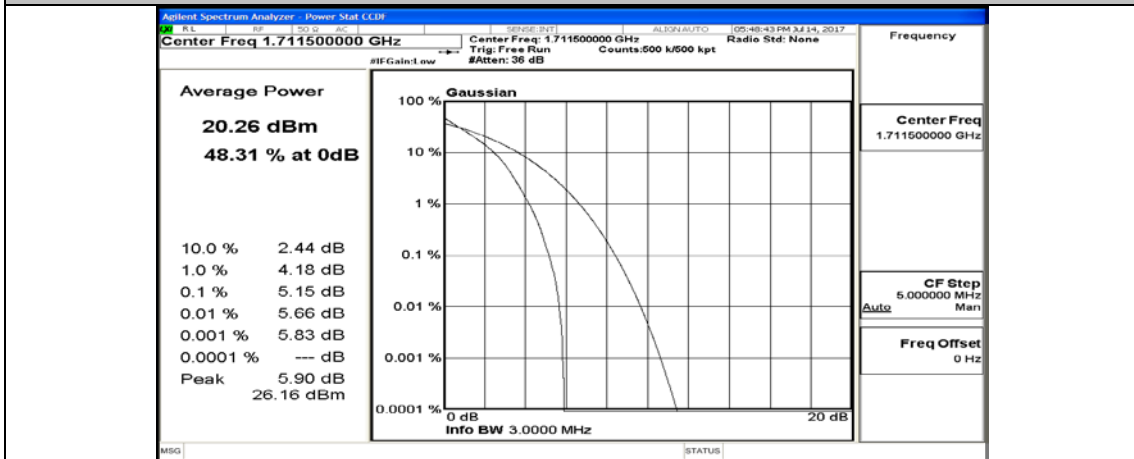
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_8RB#0



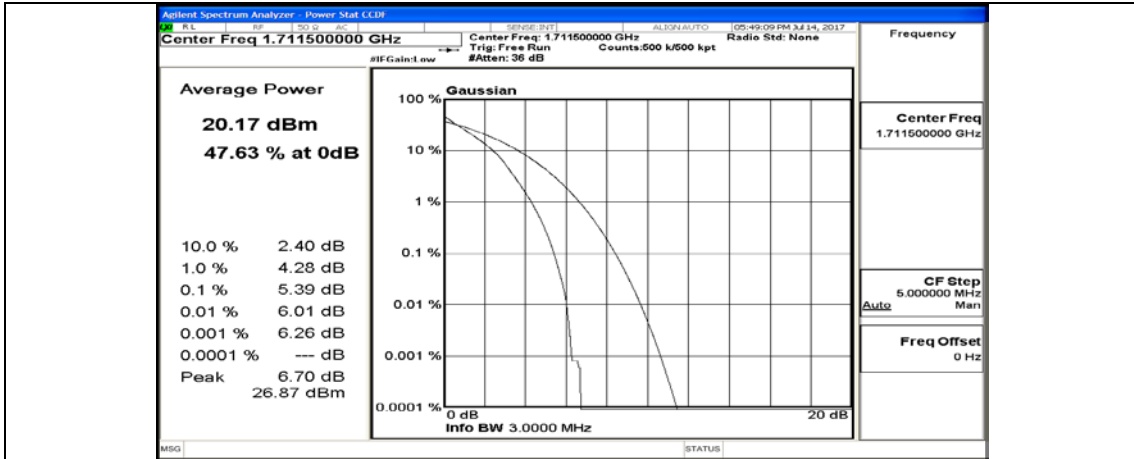
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_8RB#4



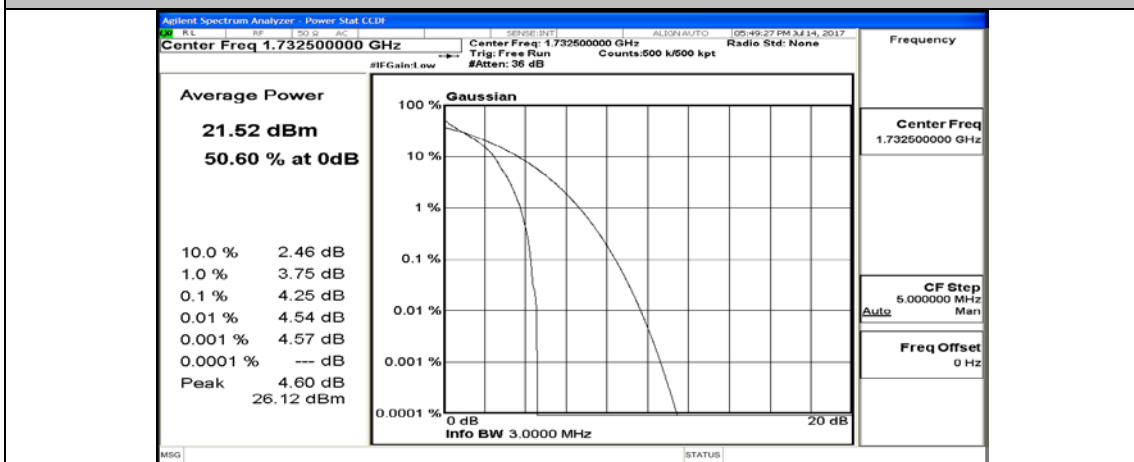
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_8RB#7



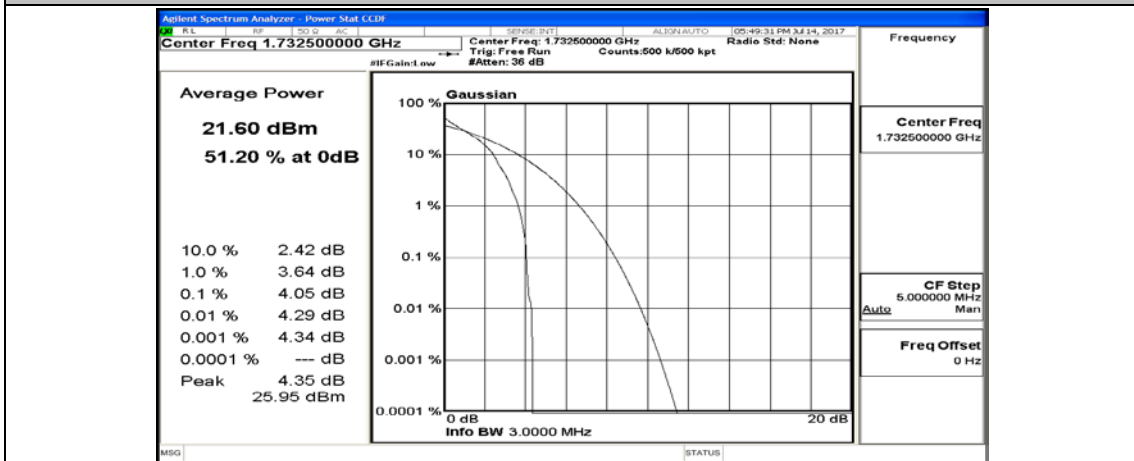
(Channel Bandwidth: 3 MHz)\_LCH\_QPSK\_15RB#0



(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#0

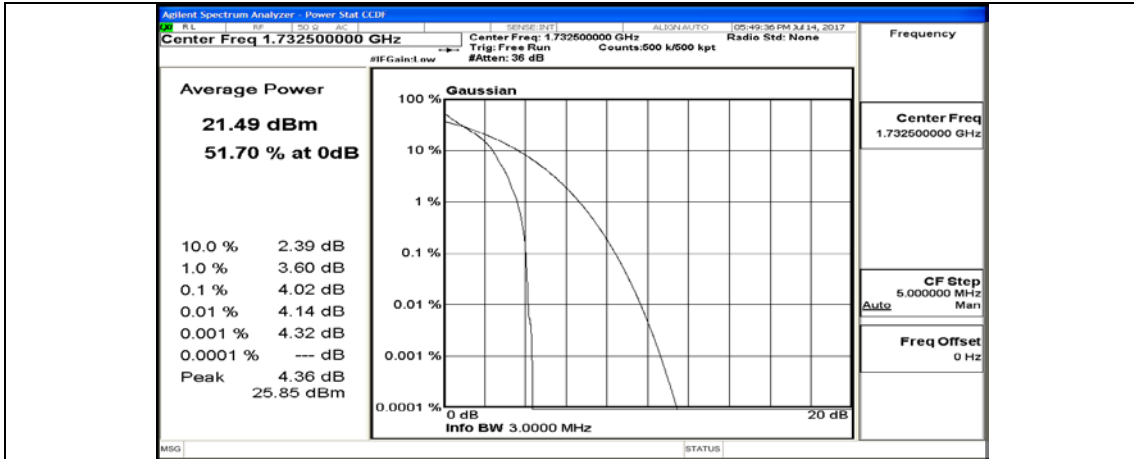


(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#7

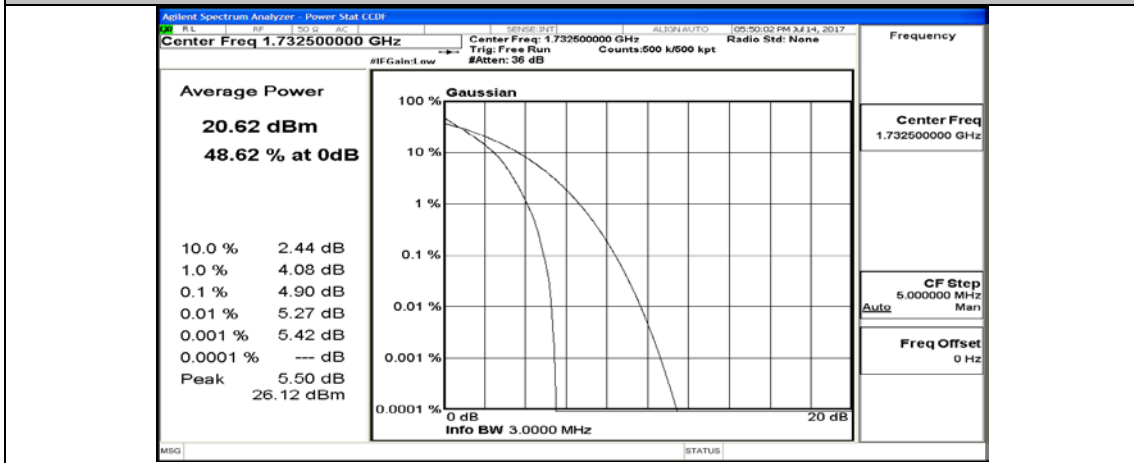


(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_1RB#14

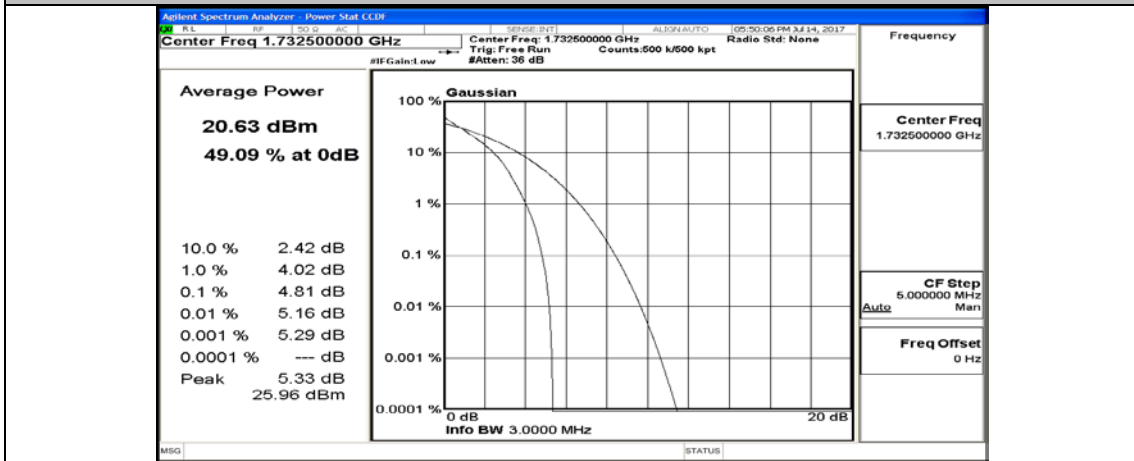




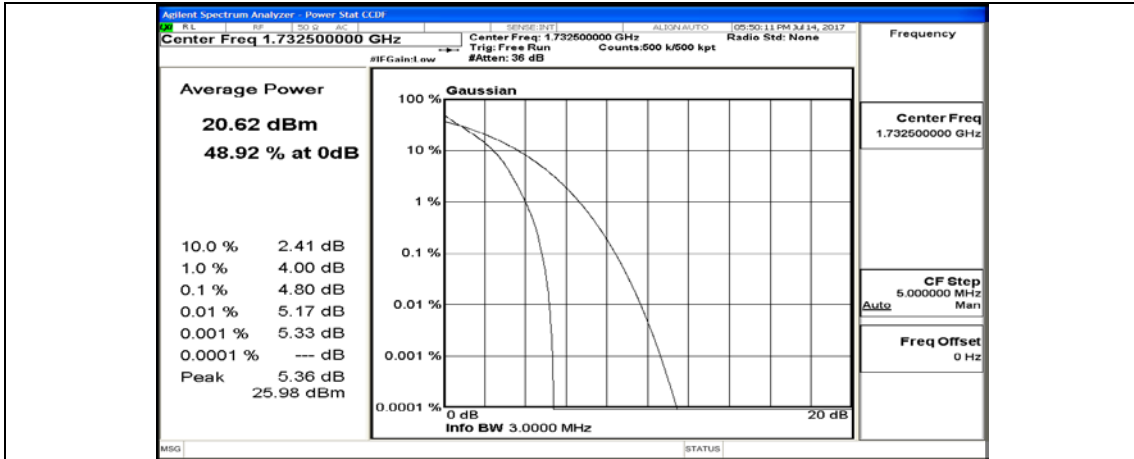
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#0



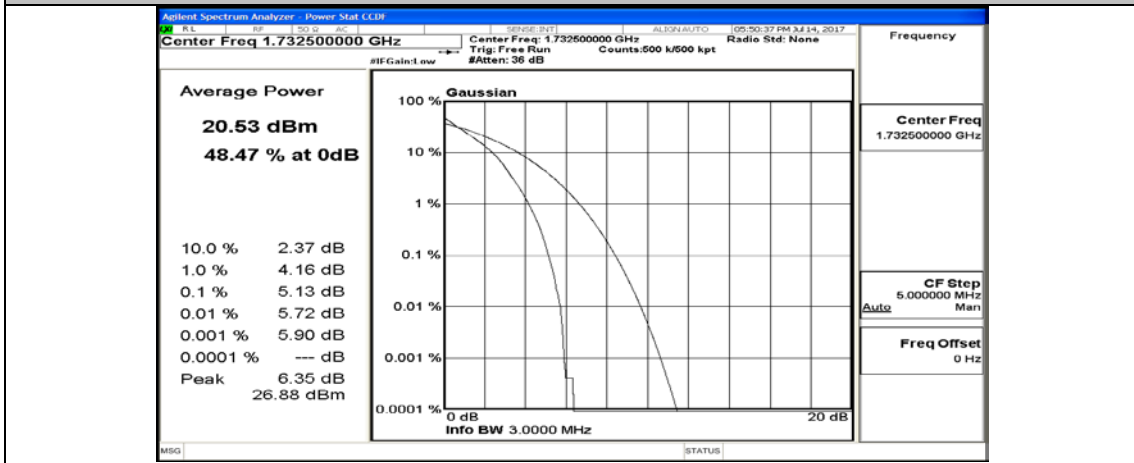
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#4



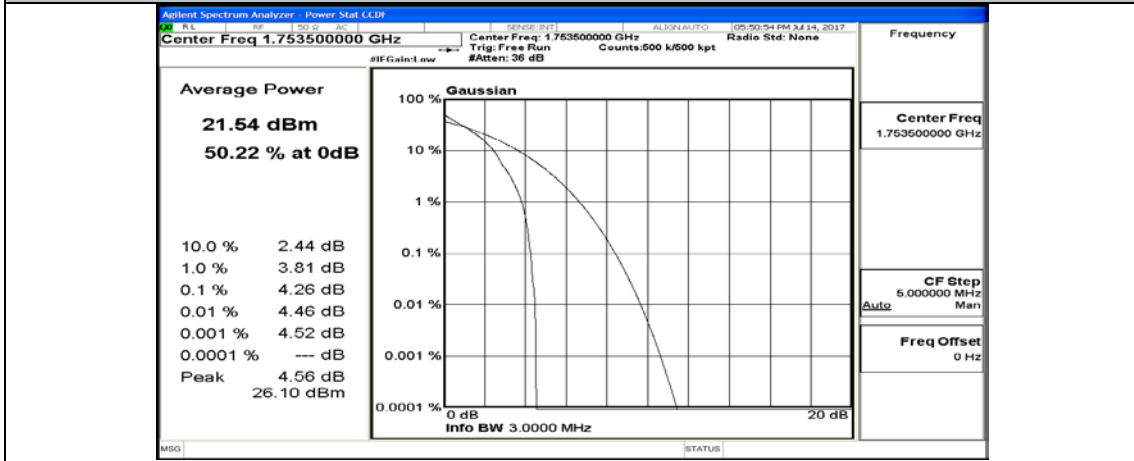
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_8RB#7



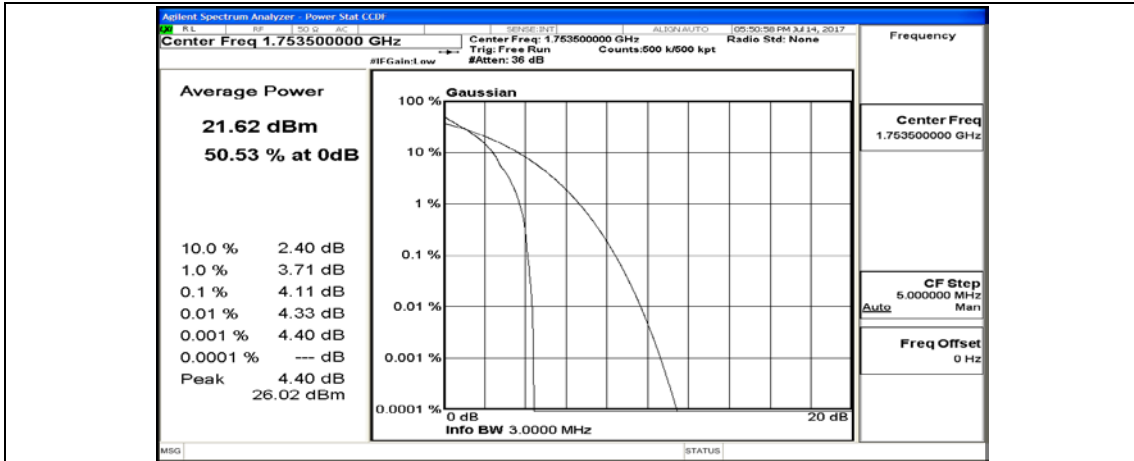
(Channel Bandwidth: 3 MHz)\_MCH\_QPSK\_15RB#0



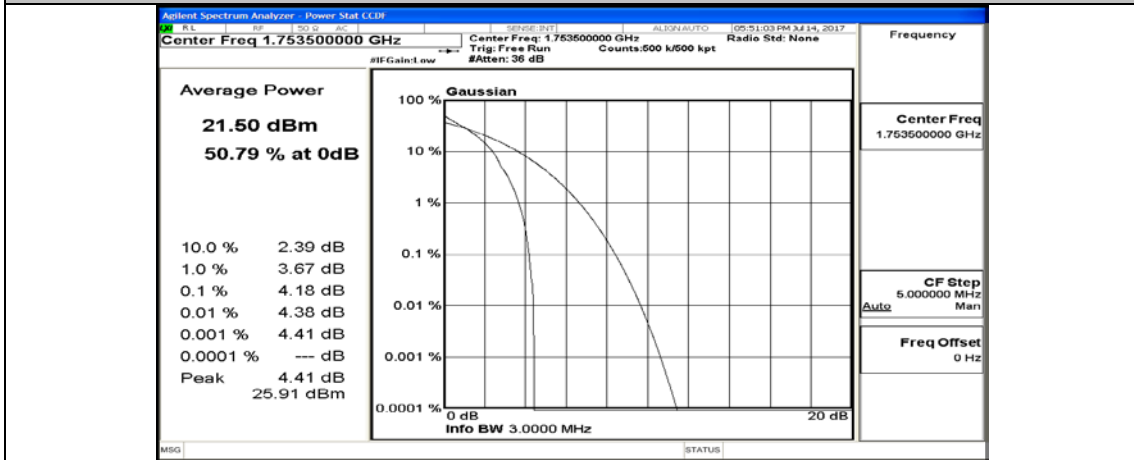
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#0



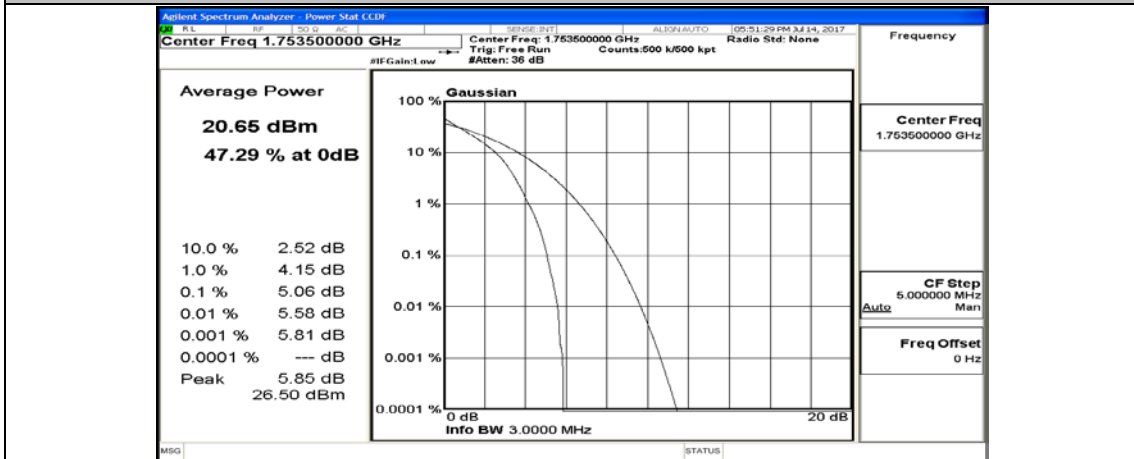
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#7



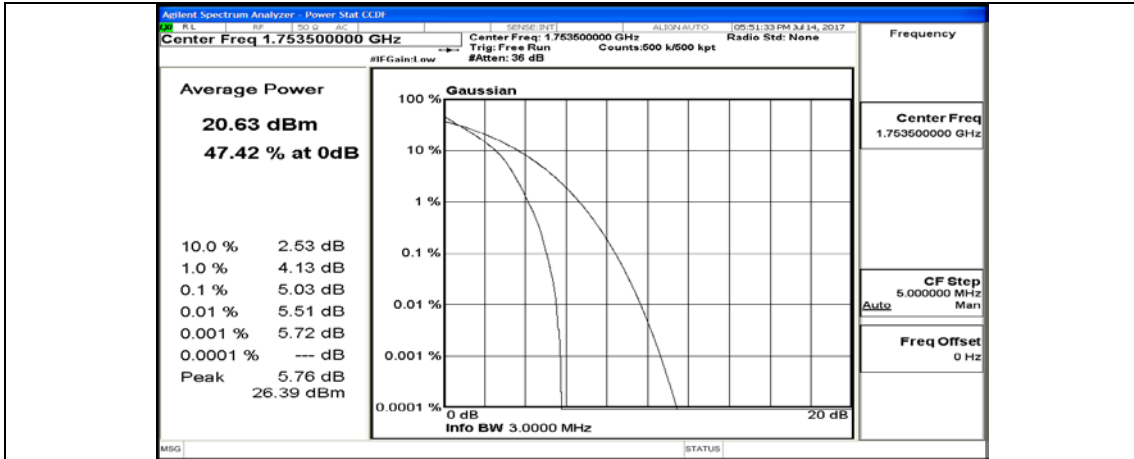
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_1RB#14



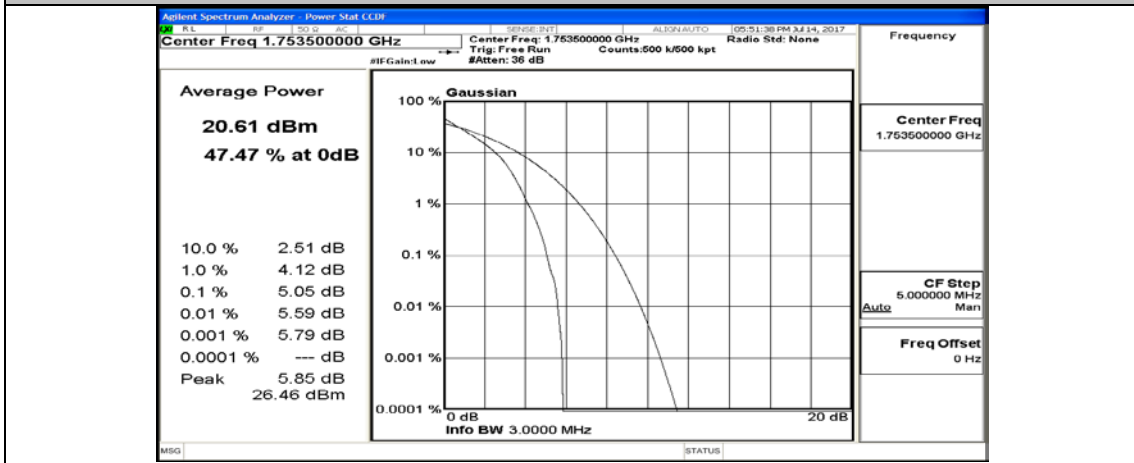
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_8RB#0



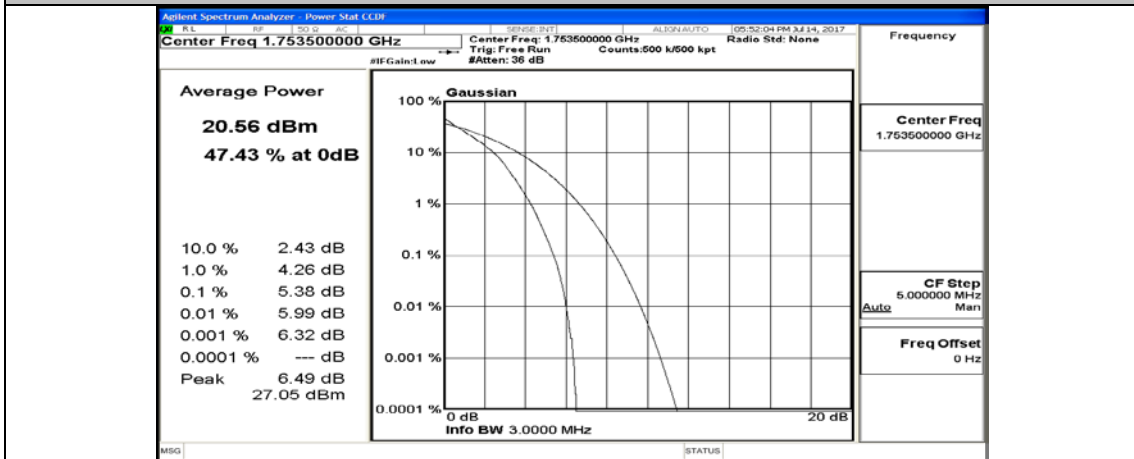
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_8RB#4



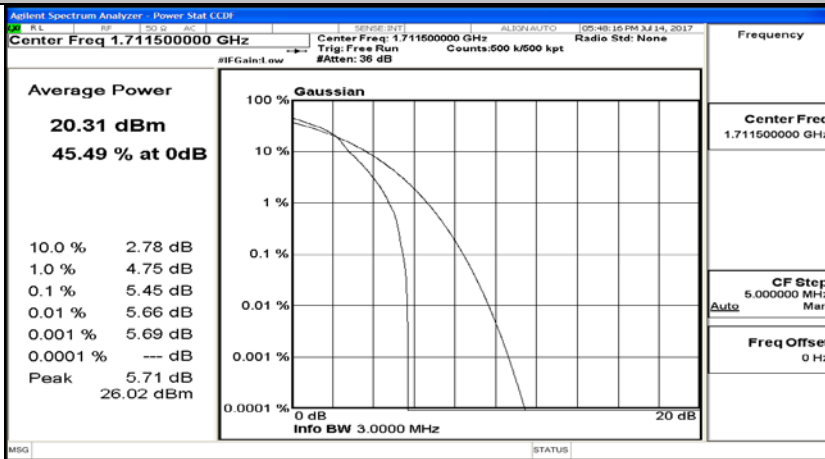
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_8RB#7



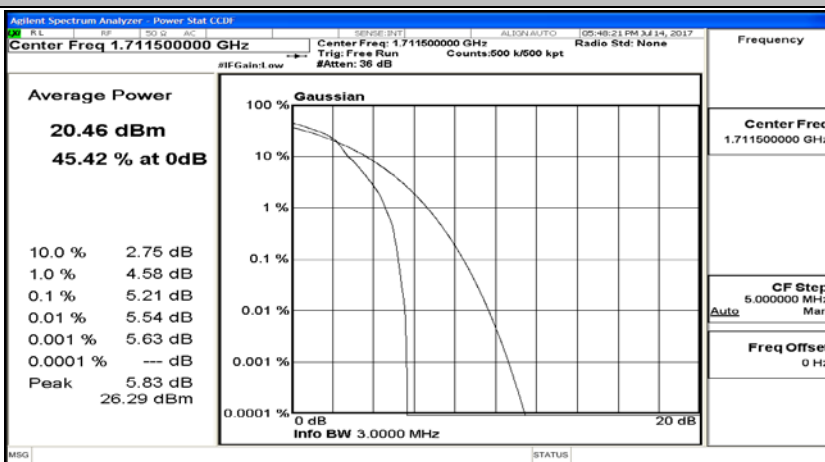
(Channel Bandwidth: 3 MHz)\_HCH\_QPSK\_15RB#0



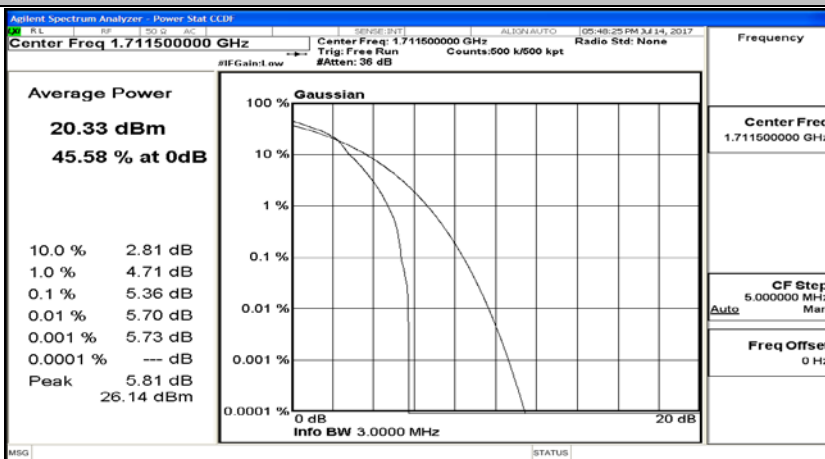
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#0



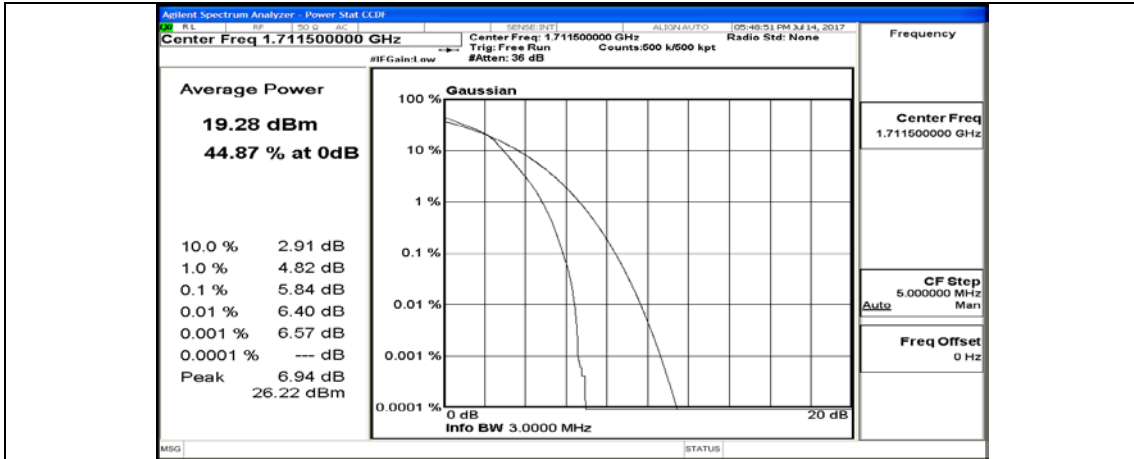
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#7



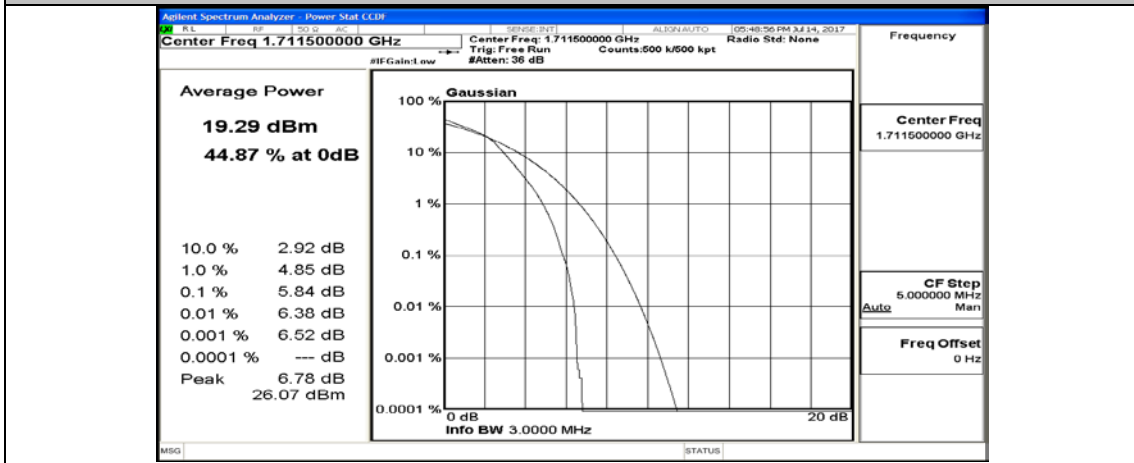
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_1RB#14



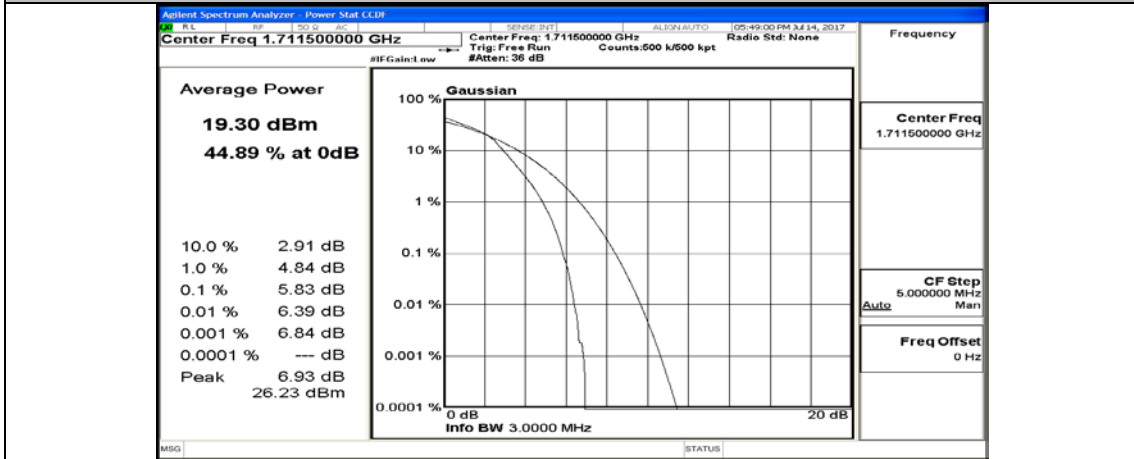
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#0



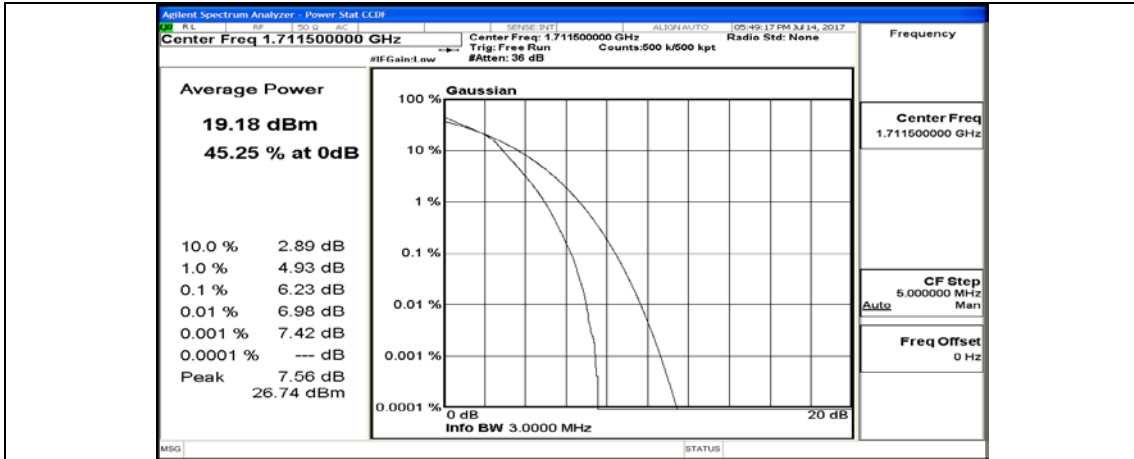
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#4



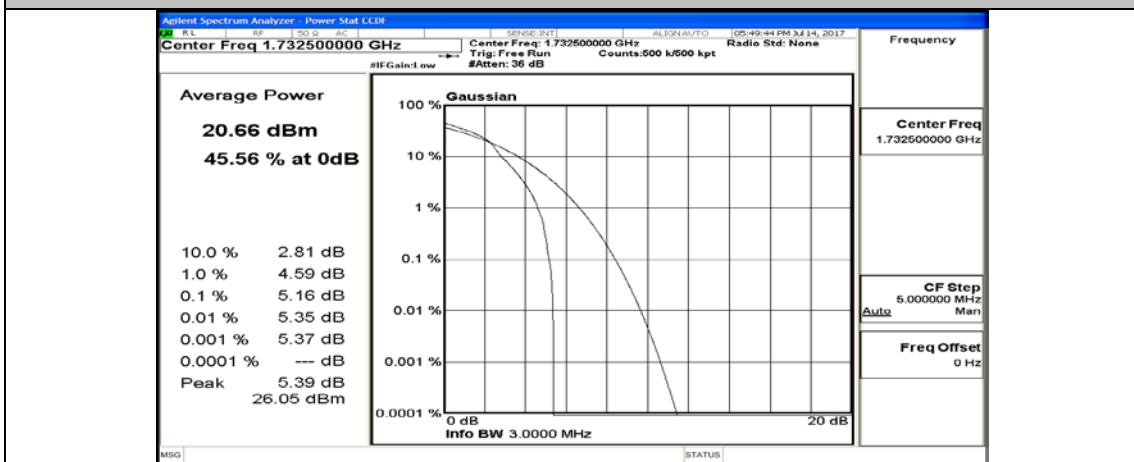
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_8RB#7



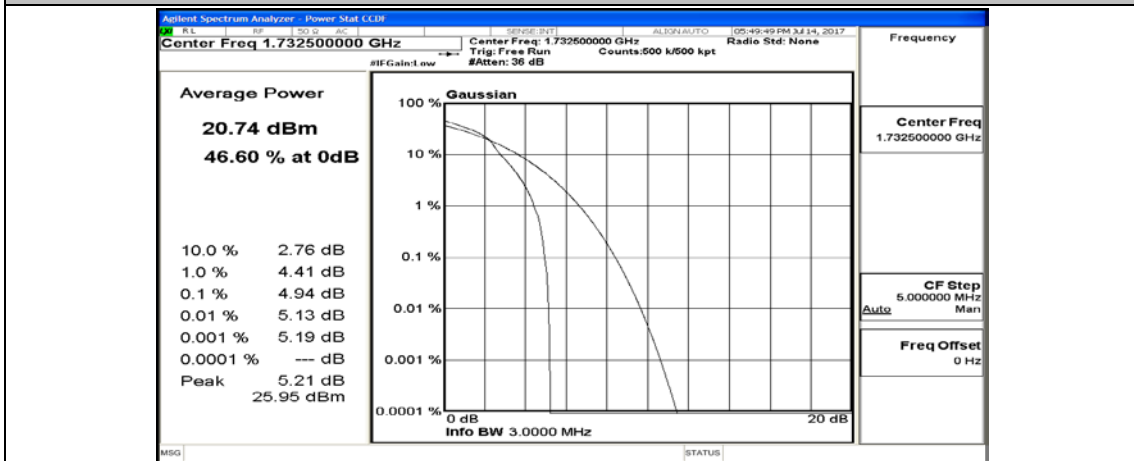
(Channel Bandwidth: 3 MHz)\_LCH\_16QAM\_15RB#0



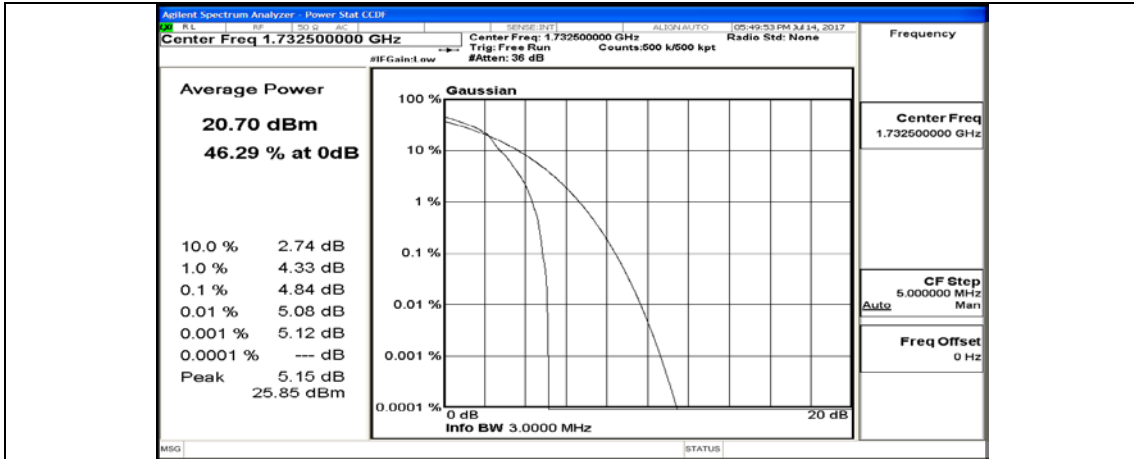
(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#0



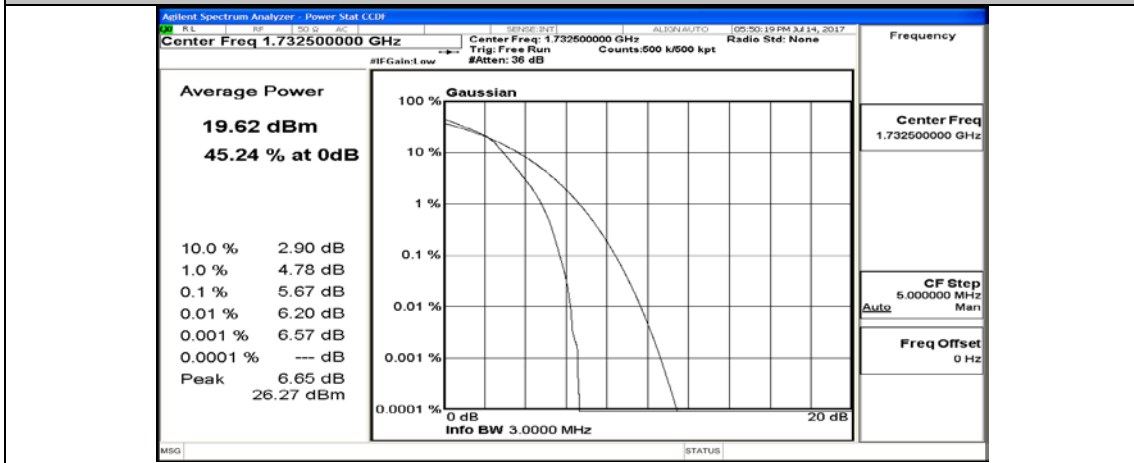
(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#7



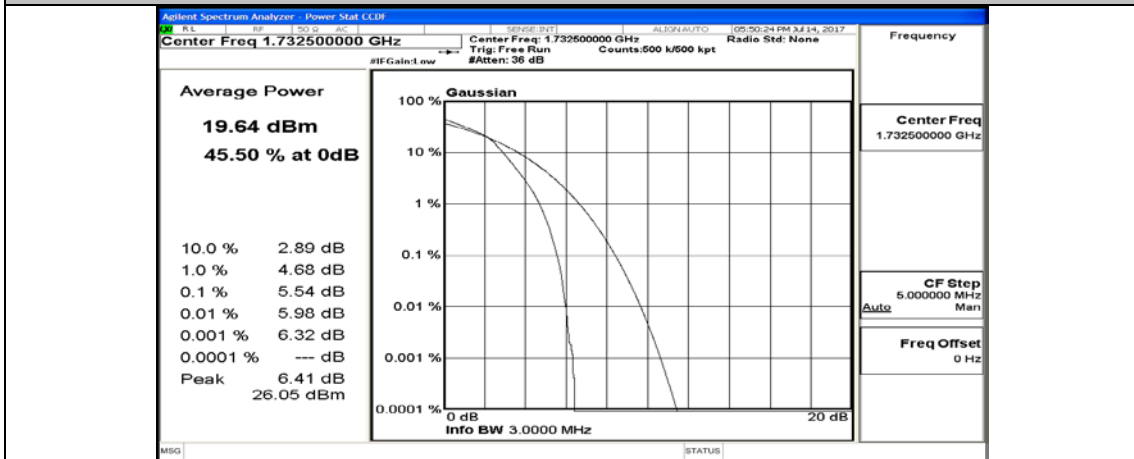
(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_1RB#14



(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#0

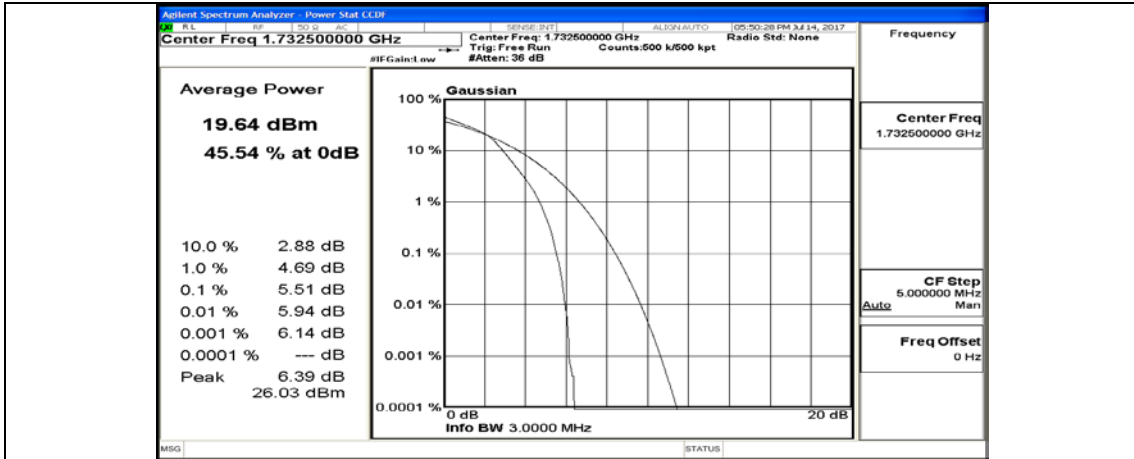


(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#4

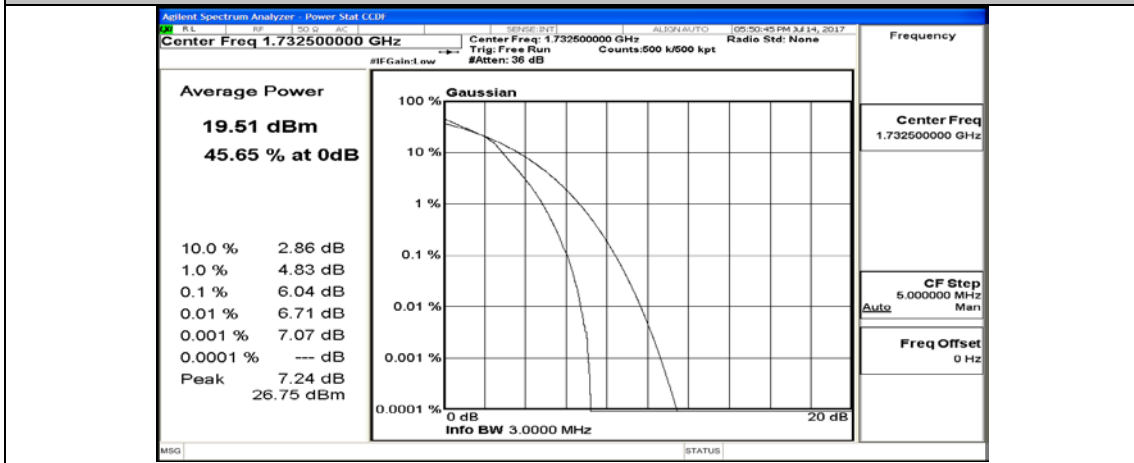


(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_8RB#7

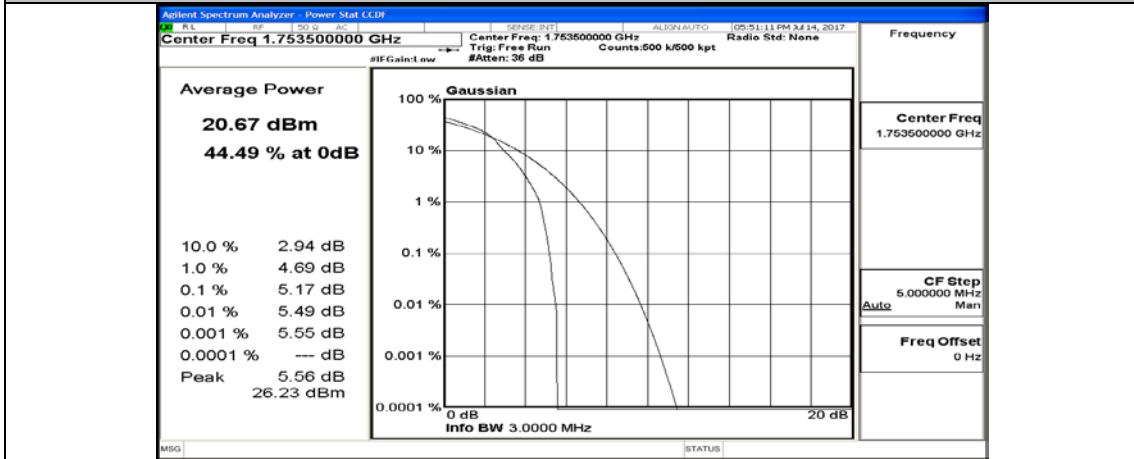




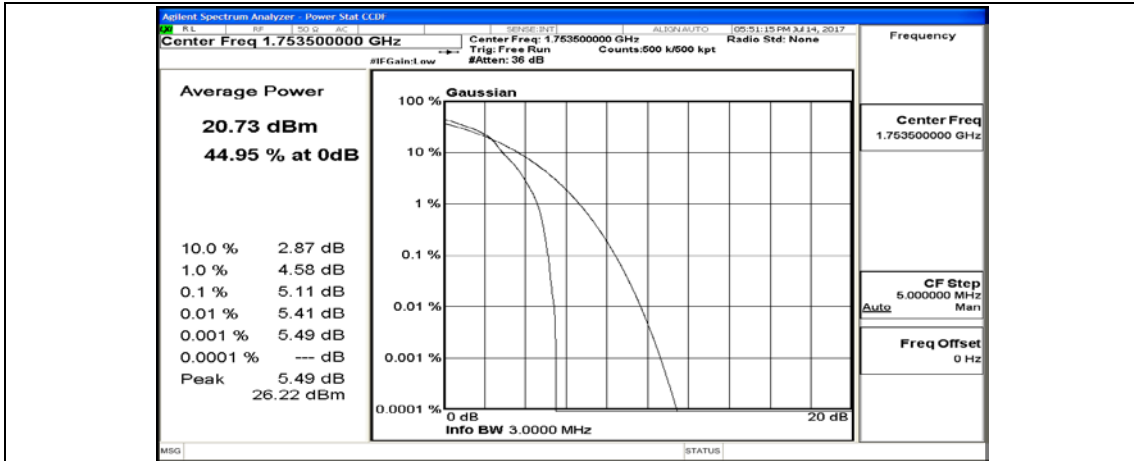
(Channel Bandwidth: 3 MHz)\_MCH\_16QAM\_15RB#0



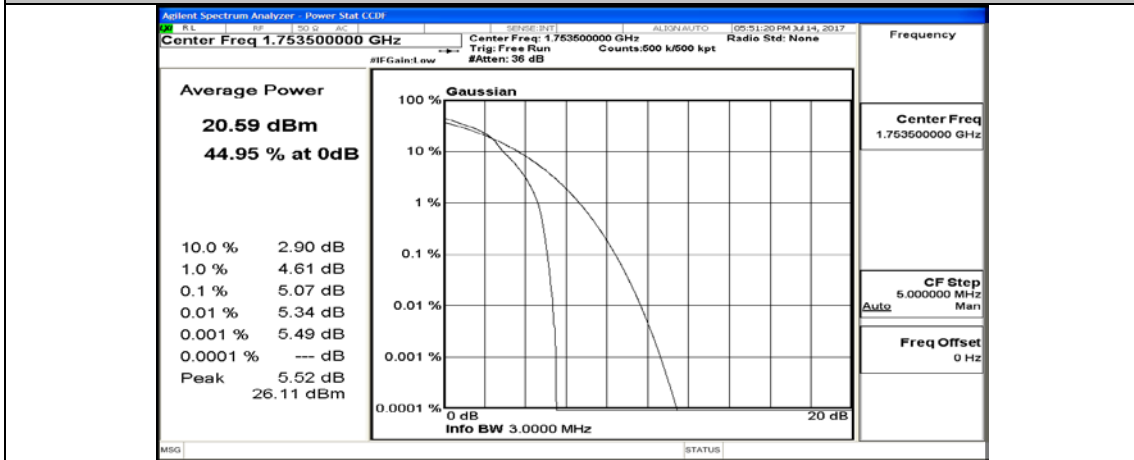
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#0



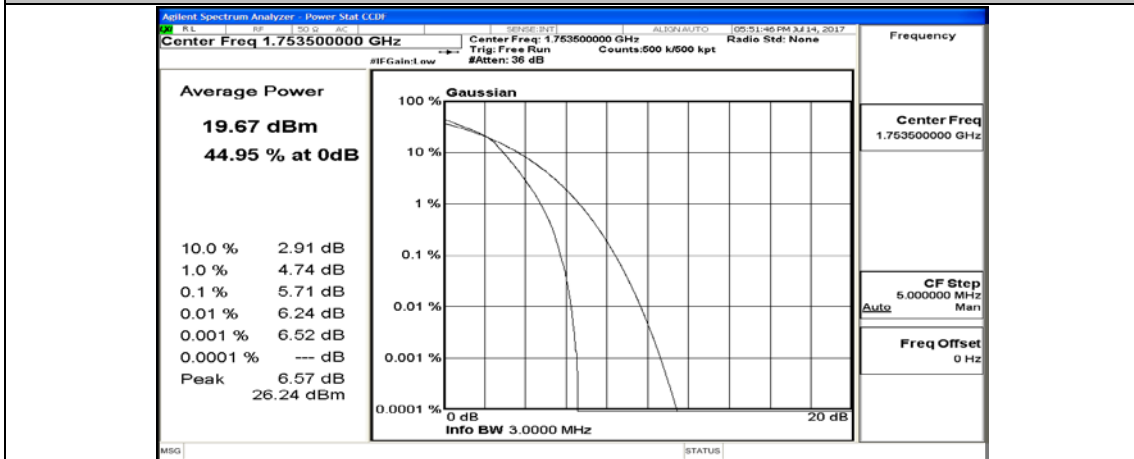
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#7



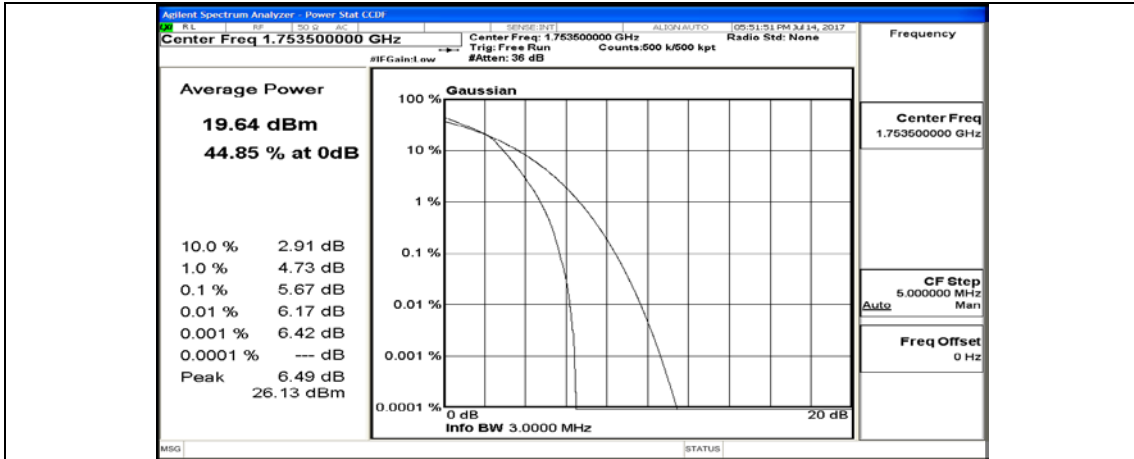
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_1RB#14



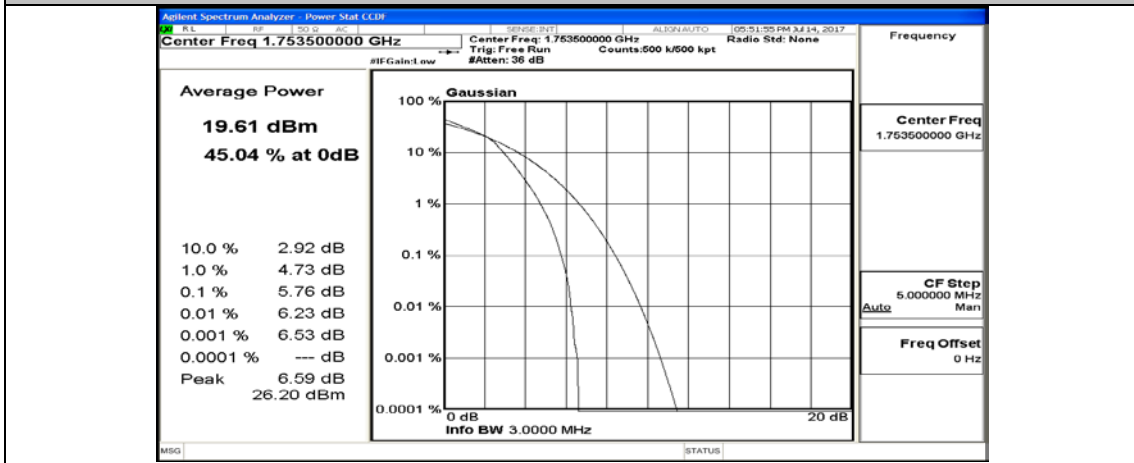
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#0



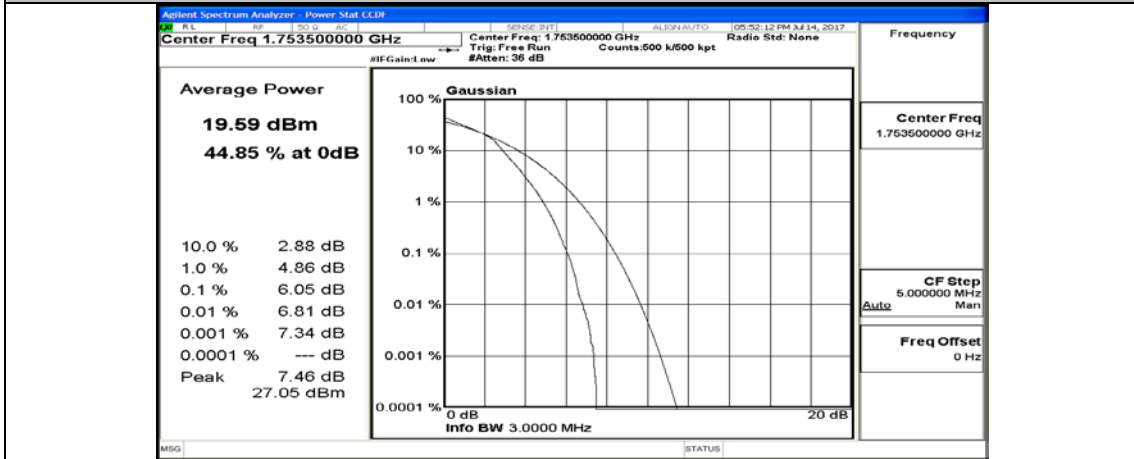
(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#4



(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_8RB#7

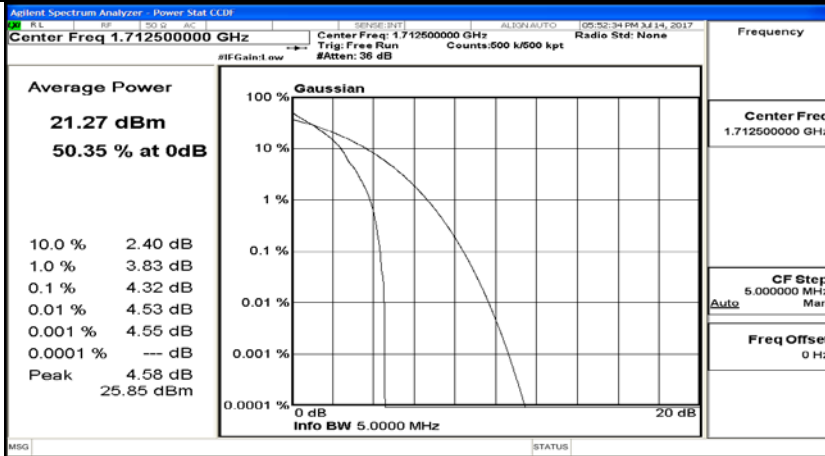


(Channel Bandwidth: 3 MHz)\_HCH\_16QAM\_15RB#0

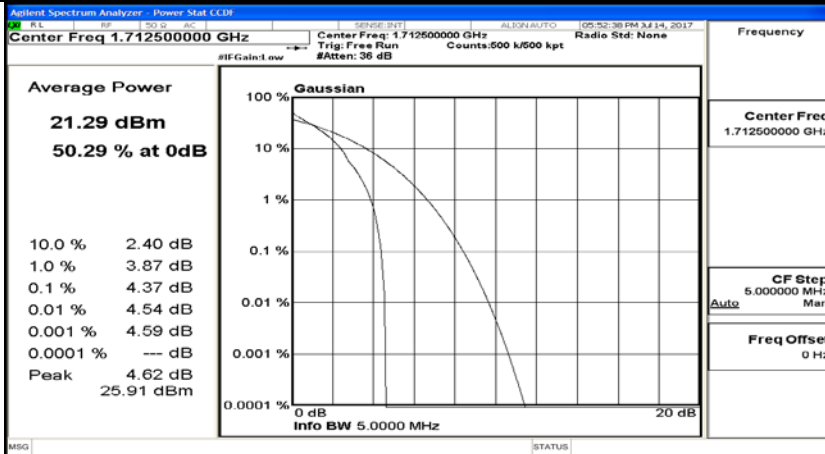


### Channel Bandwidth: 5 MHz

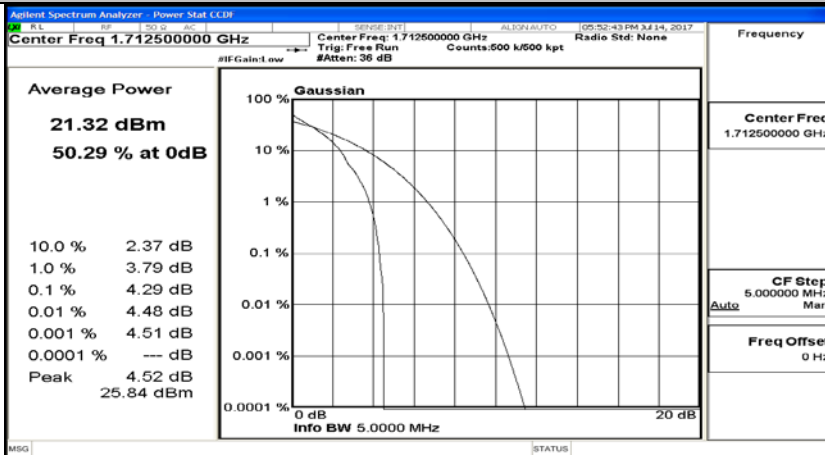
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#0



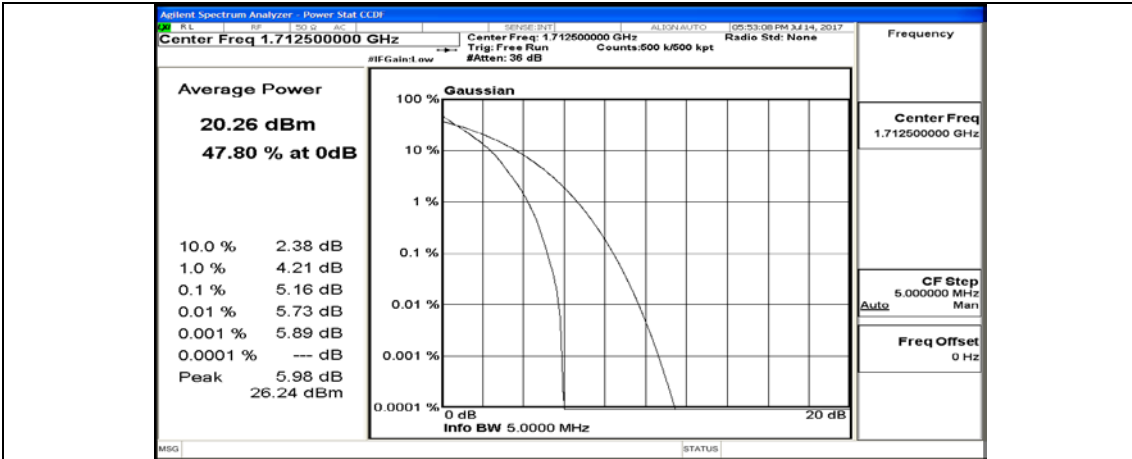
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#12



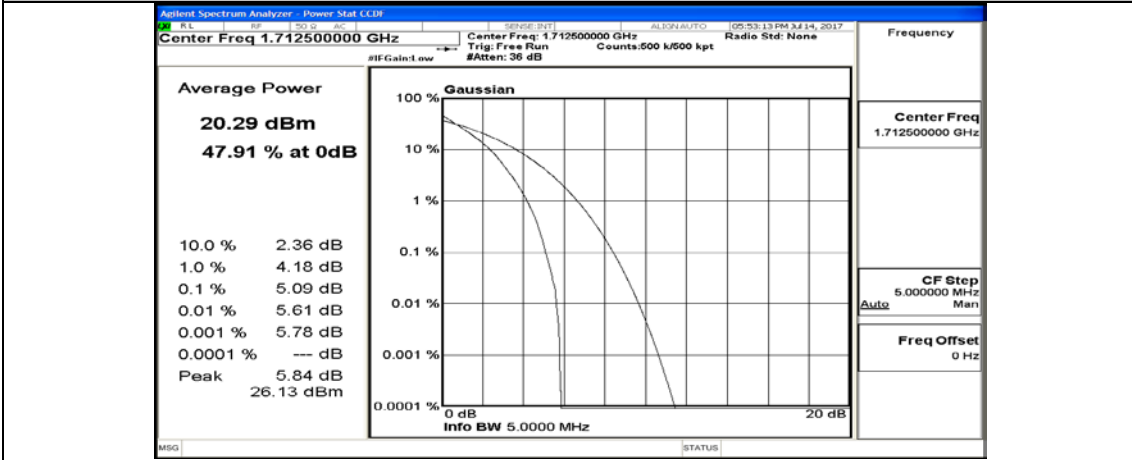
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#24



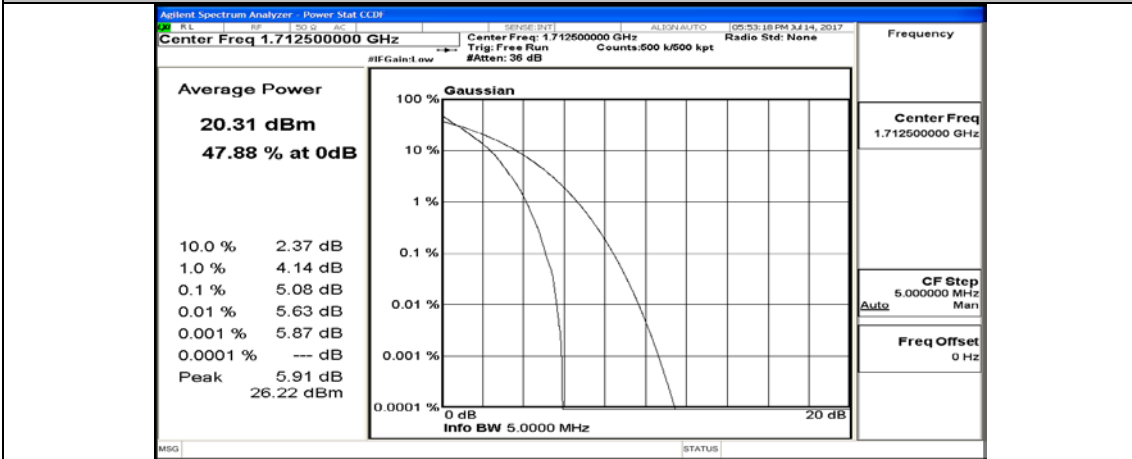
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#0



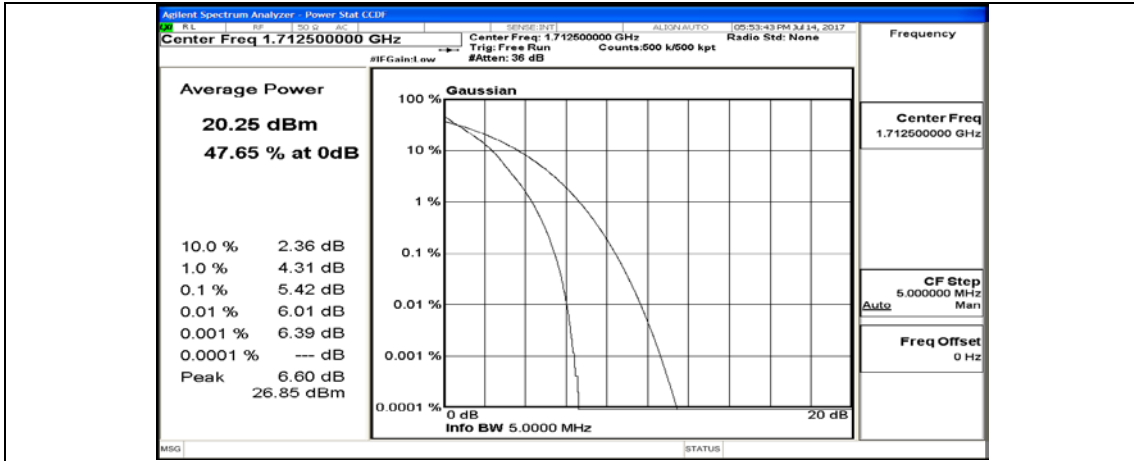
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#6



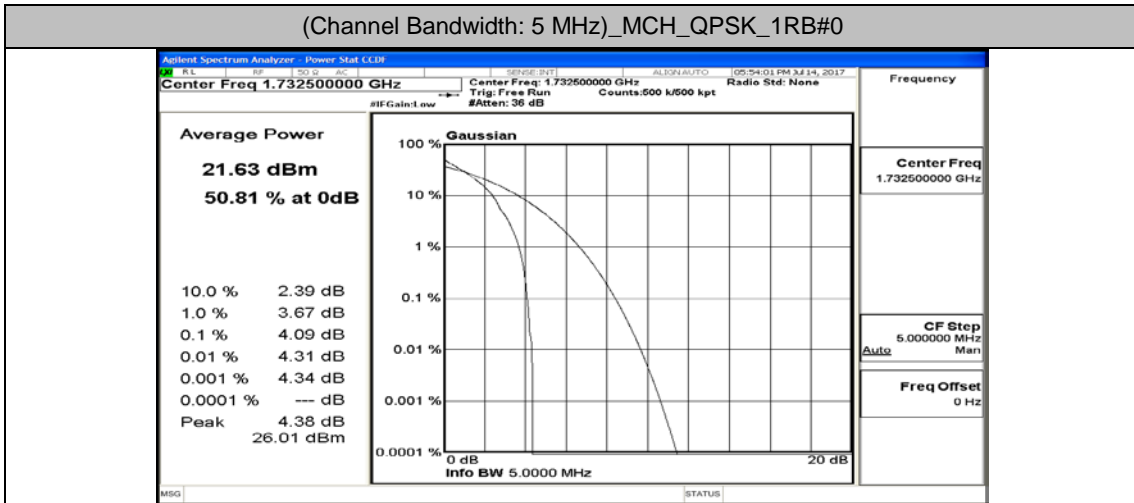
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13



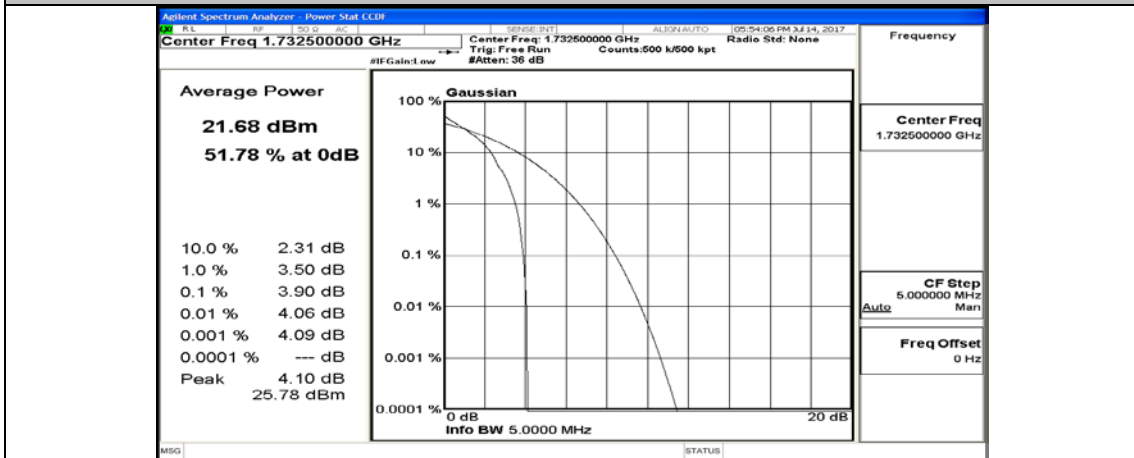
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



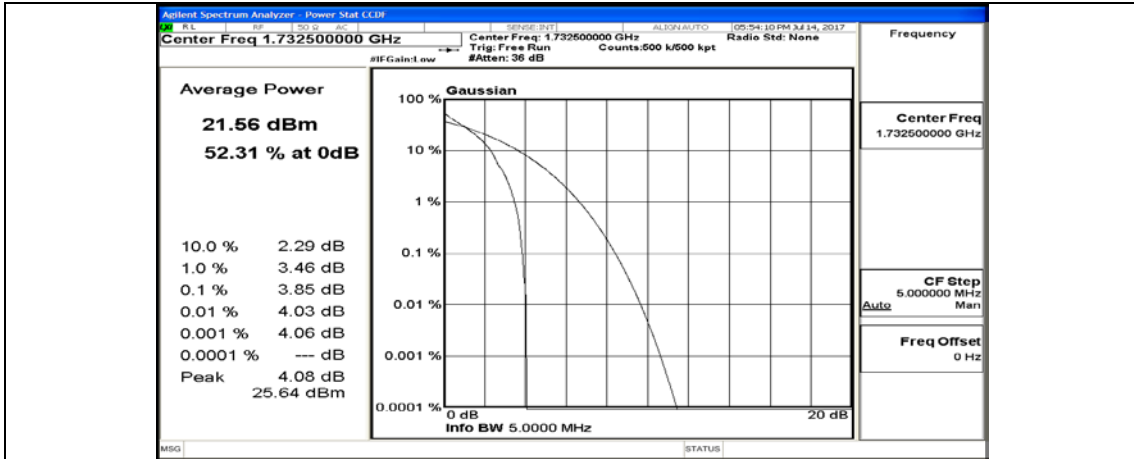
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#0



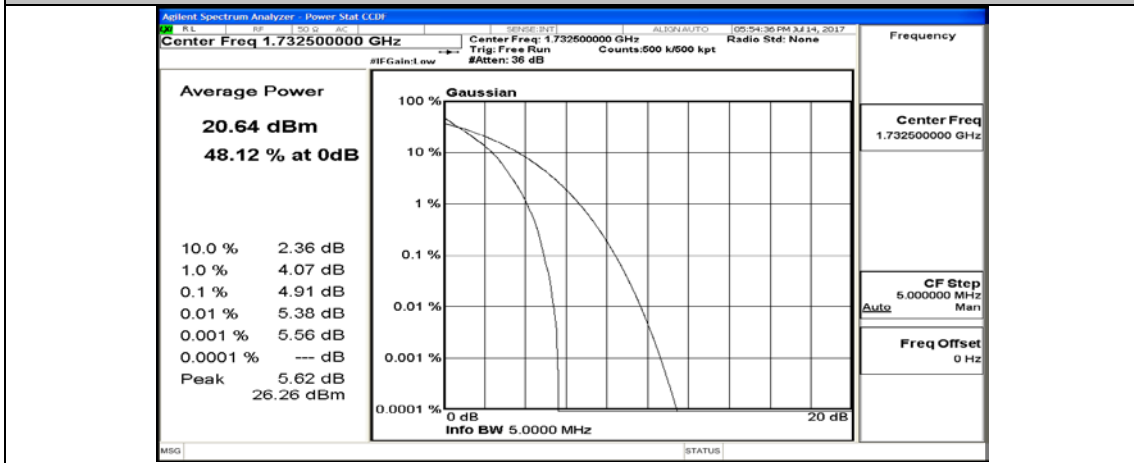
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



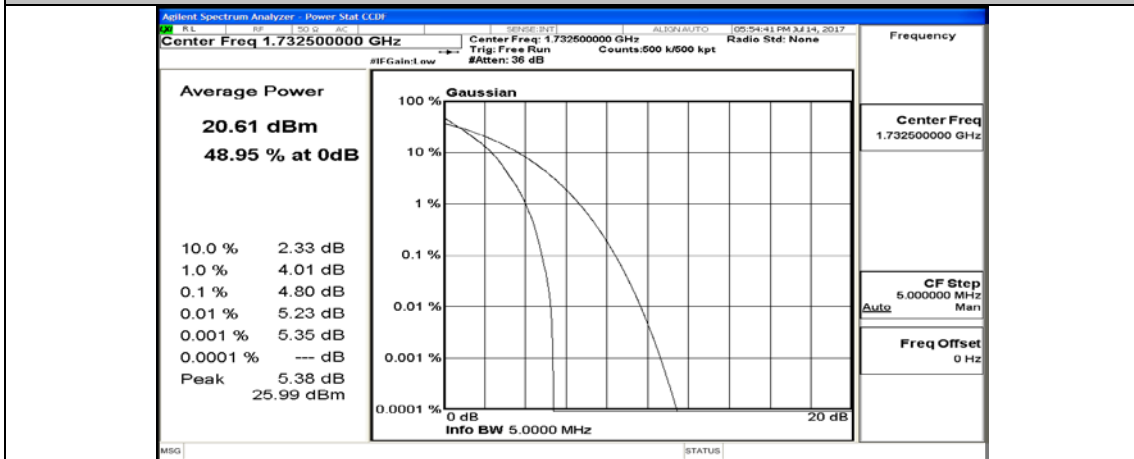
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24



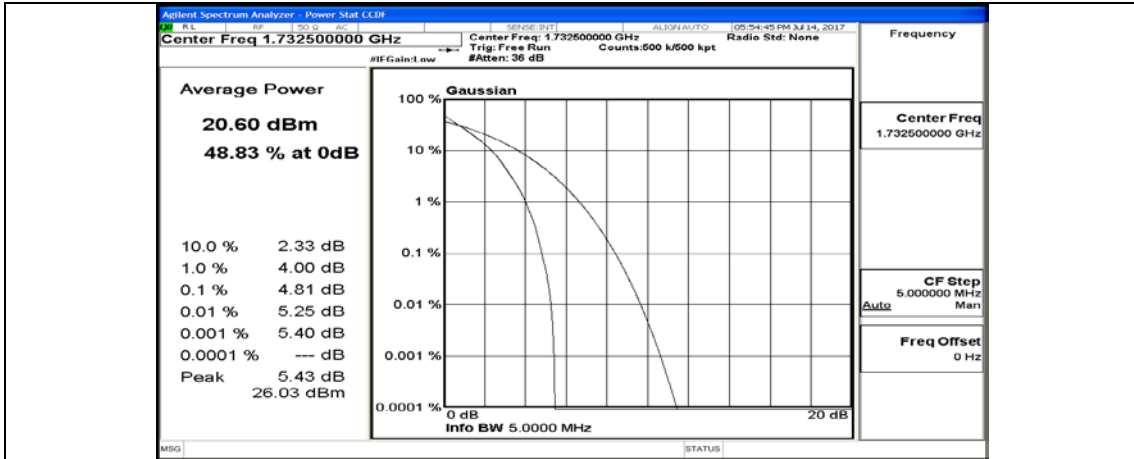
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#0



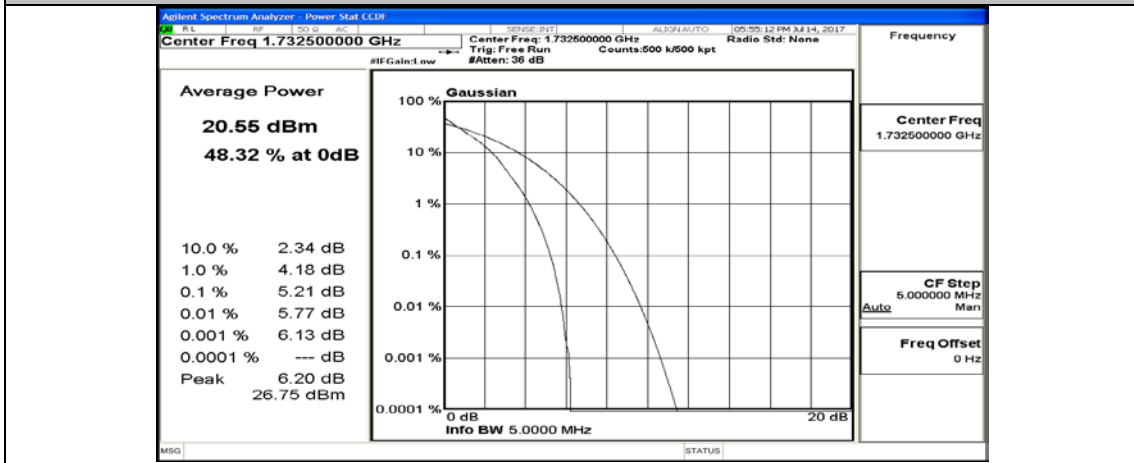
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#6



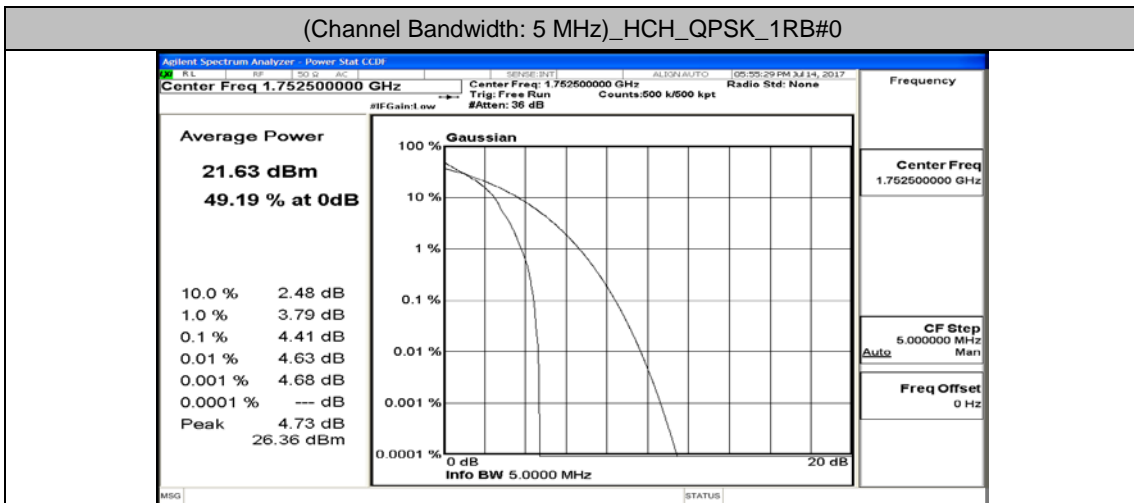
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_12RB#13



(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12