

Appendix A.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	3.41	<13	PASS
		1	3	3.22	<13	PASS
		1	5	3.24	<13	PASS
		3	0	3.22	<13	PASS
		3	2	3.04	<13	PASS
		3	3	2.87	<13	PASS
		6	0	5.4	<13	PASS
	MCH	1	0	3.02	<13	PASS
		1	3	3.09	<13	PASS
		1	5	3.1	<13	PASS
		3	0	3.42	<13	PASS
		3	2	3.44	<13	PASS
		3	3	3.45	<13	PASS
		6	0	4.71	<13	PASS
	HCH	1	0	3.78	<13	PASS
		1	3	3.94	<13	PASS
		1	5	3.87	<13	PASS
		3	0	4.63	<13	PASS
		3	2	4.61	<13	PASS
		3	3	4.62	<13	PASS
		6	0	5.41	<13	PASS
16QAM	LCH	1	0	4.27	<13	PASS
		1	3	4.16	<13	PASS
		1	5	4.12	<13	PASS
		3	0	4.59	<13	PASS
		3	2	4.45	<13	PASS
		3	3	5.43	<13	PASS
		6	0	6.32	<13	PASS
	MCH	1	0	4.05	<13	PASS
		1	3	4.1	<13	PASS
		1	5	4.18	<13	PASS
		3	0	4.41	<13	PASS
		3	2	4.47	<13	PASS
		3	3	4.5	<13	PASS

	HCH	6	0	5.61	<13	PASS
		1	0	4.61	<13	PASS
		1	3	4.65	<13	PASS
		1	5	4.58	<13	PASS
		3	0	5.42	<13	PASS
		3	2	5.39	<13	PASS
		3	3	5.36	<13	PASS
		6	0	6.21	<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	4.4	<13	PASS
		1	7	4.19	<13	PASS
		1	14	4.09	<13	PASS
		8	0	5.4	<13	PASS
		8	4	5.43	<13	PASS
		8	7	5.35	<13	PASS
		15	0	5.52	<13	PASS
	MCH	1	0	4.29	<13	PASS
		1	7	4.36	<13	PASS
		1	14	4.5	<13	PASS
		8	0	5.53	<13	PASS
		8	4	5.6	<13	PASS
		8	7	5.55	<13	PASS
		15	0	5.68	<13	PASS
	HCH	1	0	4.32	<13	PASS
		1	7	4.34	<13	PASS
		1	14	4.19	<13	PASS
		8	0	5.53	<13	PASS
		8	4	5.53	<13	PASS
		8	7	5.52	<13	PASS
		15	0	5.71	<13	PASS
16QAM	LCH	1	0	5.21	<13	PASS
		1	7	5.11	<13	PASS
		1	14	4.89	<13	PASS
		8	0	6.15	<13	PASS
		8	4	6.09	<13	PASS
		8	7	6.05	<13	PASS
		15	0	6.37	<13	PASS
	MCH	1	0	5.08	<13	PASS

		1	7	5.12	<13	PASS
		1	14	5.1	<13	PASS
		8	0	6.15	<13	PASS
		8	4	6.2	<13	PASS
		8	7	6.19	<13	PASS
		15	0	6.5	<13	PASS
	HCH	1	0	5.06	<13	PASS
		1	7	5.09	<13	PASS
		1	14	4.96	<13	PASS
		8	0	6.2	<13	PASS
		8	4	6.19	<13	PASS
		8	7	6.1	<13	PASS
		15	0	6.37	<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	4.1	<13	PASS
		1	12	4.21	<13	PASS
		1	24	3.76	<13	PASS
		12	0	5.48	<13	PASS
		12	6	5.35	<13	PASS
		12	13	5.23	<13	PASS
		25	0	5.55	<13	PASS
	MCH	1	0	4.33	<13	PASS
		1	12	4.53	<13	PASS
		1	24	4.51	<13	PASS
		12	0	5.65	<13	PASS
		12	6	5.68	<13	PASS
		12	13	5.73	<13	PASS
		25	0	5.81	<13	PASS
	HCH	1	0	4.36	<13	PASS
		1	12	4.78	<13	PASS
		1	24	4.39	<13	PASS
		12	0	5.66	<13	PASS
		12	6	5.62	<13	PASS
		12	13	5.67	<13	PASS
		25	0	5.73	<13	PASS
16QAM	LCH	1	0	4.95	<13	PASS
		1	12	5.02	<13	PASS
		1	24	4.57	<13	PASS

		12	0	6.28	<13	PASS
		12	6	6.17	<13	PASS
		12	13	6.07	<13	PASS
		25	0	6.31	<13	PASS
	MCH	1	0	5.12	<13	PASS
		1	12	5.32	<13	PASS
		1	24	5.26	<13	PASS
		12	0	6.51	<13	PASS
		12	6	6.46	<13	PASS
		12	13	6.48	<13	PASS
		25	0	6.55	<13	PASS
	HCH	1	0	4.87	<13	PASS
		1	12	5.29	<13	PASS
		1	24	4.99	<13	PASS
		12	0	6.45	<13	PASS
		12	6	6.55	<13	PASS
		12	13	6.52	<13	PASS
		25	0	6.53	<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	4.5	<13	PASS
		1	24	4.02	<13	PASS
		1	49	3.73	<13	PASS
		25	0	5.36	<13	PASS
		25	12	5.12	<13	PASS
		25	25	4.99	<13	PASS
		50	0	5.3	<13	PASS
	MCH	1	0	4.65	<13	PASS
		1	24	4.7	<13	PASS
		1	49	5.04	<13	PASS
		25	0	5.66	<13	PASS
		25	12	5.78	<13	PASS
		25	25	5.74	<13	PASS
		50	0	5.75	<13	PASS
	HCH	1	0	3.4	<13	PASS
		1	24	4.29	<13	PASS
		1	49	4.56	<13	PASS
		25	0	5.05	<13	PASS
		25	12	5.42	<13	PASS

		25	25	5.63	<13	PASS
		50	0	5.48	<13	PASS
16QAM	LCH	1	0	5.39	<13	PASS
		1	24	4.81	<13	PASS
		1	49	4.49	<13	PASS
		25	0	6.19	<13	PASS
		25	12	5.95	<13	PASS
		25	25	5.77	<13	PASS
		50	0	6.07	<13	PASS
	MCH	1	0	5.35	<13	PASS
		1	24	5.47	<13	PASS
		1	49	5.85	<13	PASS
		25	0	6.46	<13	PASS
		25	12	6.55	<13	PASS
		25	25	6.54	<13	PASS
		50	0	6.41	<13	PASS
	HCH	1	0	4.17	<13	PASS
		1	24	5	<13	PASS
		1	49	5.33	<13	PASS
		25	0	5.78	<13	PASS
		25	12	6.12	<13	PASS
		25	25	6.37	<13	PASS
		50	0	6.17	<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	7.87	<13	PASS
		1	37	3.67	<13	PASS
		1	74	9.83	<13	PASS
		37	0	4.59	<13	PASS
		37	18	5.02	<13	PASS
		37	38	4.68	<13	PASS
		75	0	4.85	<13	PASS
	MCH	1	0	7.76	<13	PASS
		1	37	4.65	<13	PASS
		1	74	9.22	<13	PASS
		37	0	4.78	<13	PASS
		37	18	5.71	<13	PASS
		37	38	5.02	<13	PASS
		75	0	4.95	<13	PASS

	HCH	1	0	8.22	<13	PASS
		1	37	3.91	<13	PASS
		1	74	9.22	<13	PASS
		37	0	4.35	<13	PASS
		37	18	5.03	<13	PASS
		37	38	4.98	<13	PASS
		75	0	4.88	<13	PASS
16QAM	LCH	1	0	8.43	<13	PASS
		1	37	4.33	<13	PASS
		1	74	10.57	<13	PASS
		37	0	5.86	<13	PASS
		37	18	5.82	<13	PASS
		37	38	5.87	<13	PASS
		75	0	6.17	<13	PASS
	MCH	1	0	8.15	<13	PASS
		1	37	5.38	<13	PASS
		1	74	10.06	<13	PASS
		37	0	6.1	<13	PASS
		37	18	6.54	<13	PASS
		37	38	6.33	<13	PASS
		75	0	6.35	<13	PASS
	HCH	1	0	8.02	<13	PASS
		1	37	4.65	<13	PASS
		1	74	10.26	<13	PASS
		37	0	5.59	<13	PASS
		37	18	5.75	<13	PASS
		37	38	6.1	<13	PASS
		75	0	6.09	<13	PASS

Channel Bandwidth: 20 MHz

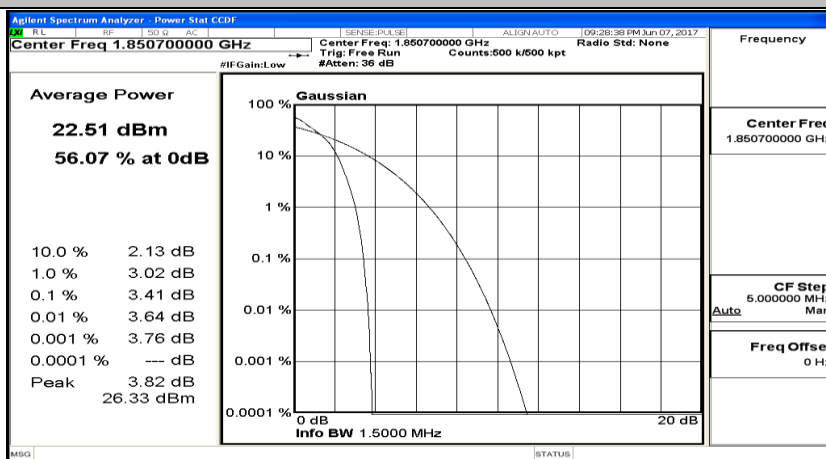
Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	10.48	<13	PASS
		1	49	3.47	<13	PASS
		1	99	10.03	<13	PASS
		50	0	5.35	<13	PASS
		50	25	5.09	<13	PASS
		50	50	5.78	<13	PASS
		100	0	5.61	<13	PASS
	MCH	1	0	9.03	<13	PASS
		1	49	4.55	<13	PASS

		1	99	9.21	<13	PASS
		50	0	5.52	<13	PASS
		50	25	5.72	<13	PASS
		50	50	5.94	<13	PASS
		100	0	5.65	<13	PASS
	HCH	1	0	9.36	<13	PASS
		1	49	3.5	<13	PASS
		1	99	9.11	<13	PASS
		50	0	5.22	<13	PASS
		50	25	5.07	<13	PASS
		50	50	5.79	<13	PASS
		100	0	5.58	<13	PASS
16QAM	LCH	1	0	10.75	<13	PASS
		1	49	4.15	<13	PASS
		1	99	10.4	<13	PASS
		50	0	6.37	<13	PASS
		50	25	5.79	<13	PASS
		50	50	6.61	<13	PASS
		100	0	6.67	<13	PASS
	MCH	1	0	8.78	<13	PASS
		1	49	5.46	<13	PASS
		1	99	8.92	<13	PASS
		50	0	6.62	<13	PASS
		50	25	6.53	<13	PASS
		50	50	6.86	<13	PASS
		100	0	6.89	<13	PASS
	HCH	1	0	9.51	<13	PASS
		1	49	4.13	<13	PASS
		1	99	9.06	<13	PASS
		50	0	6.31	<13	PASS
		50	25	5.77	<13	PASS
		50	50	6.57	<13	PASS
		100	0	6.59	<13	PASS

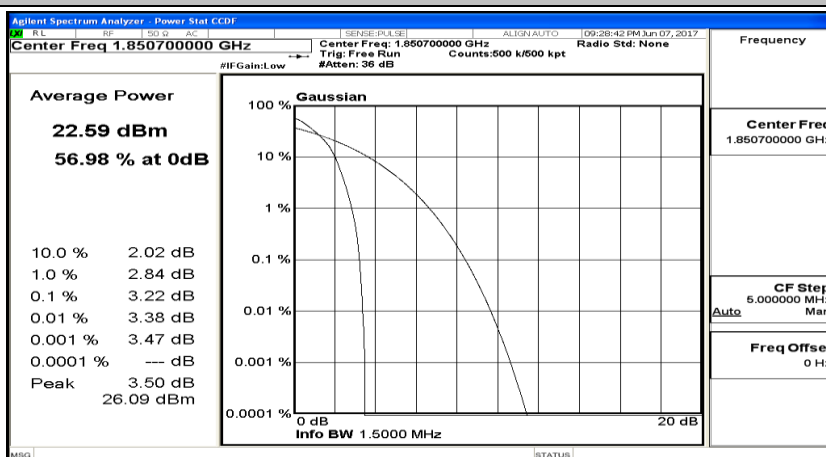
Test Graphs

Channel Bandwidth: 1.4 MHz

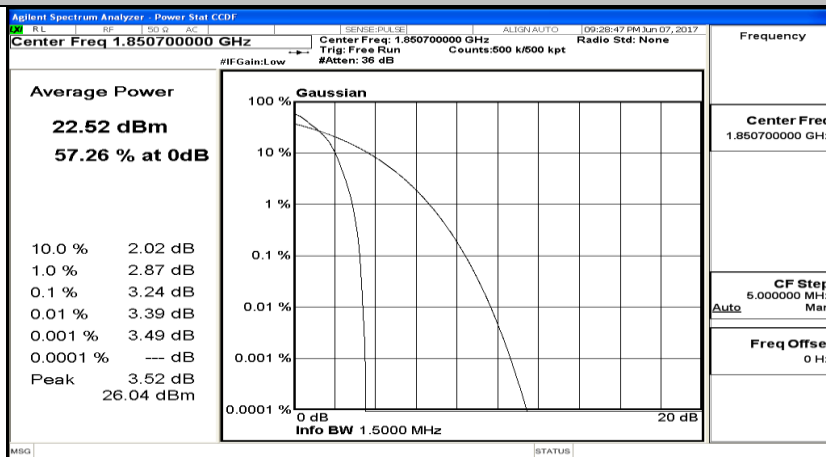
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



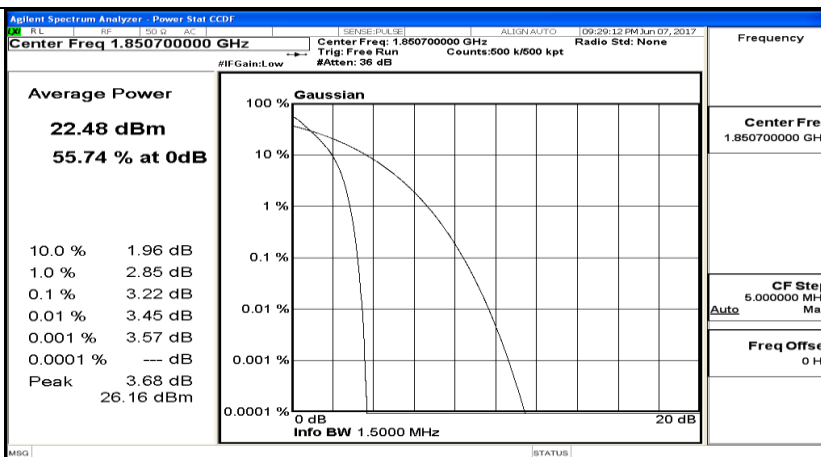
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#3



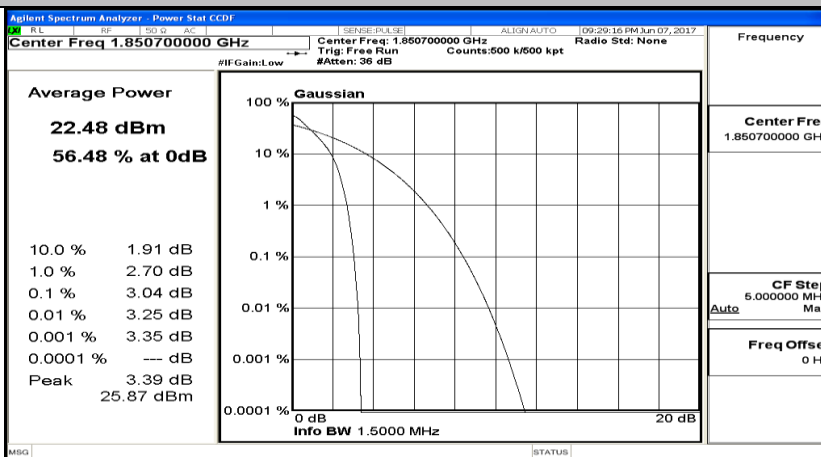
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#5



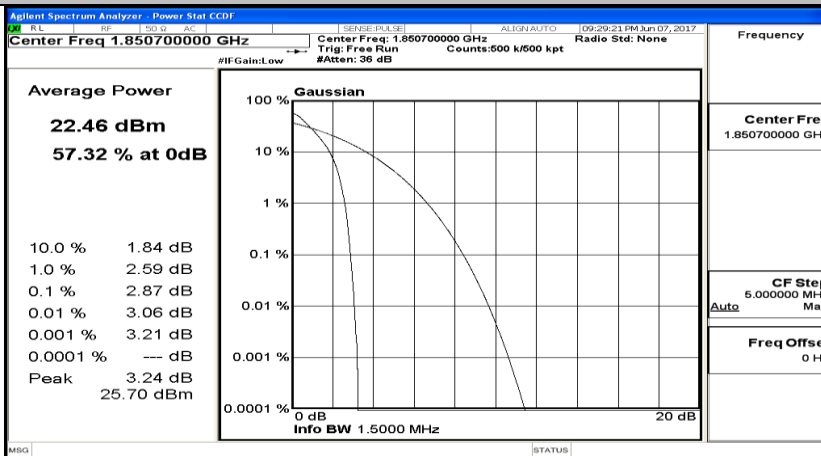
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#0



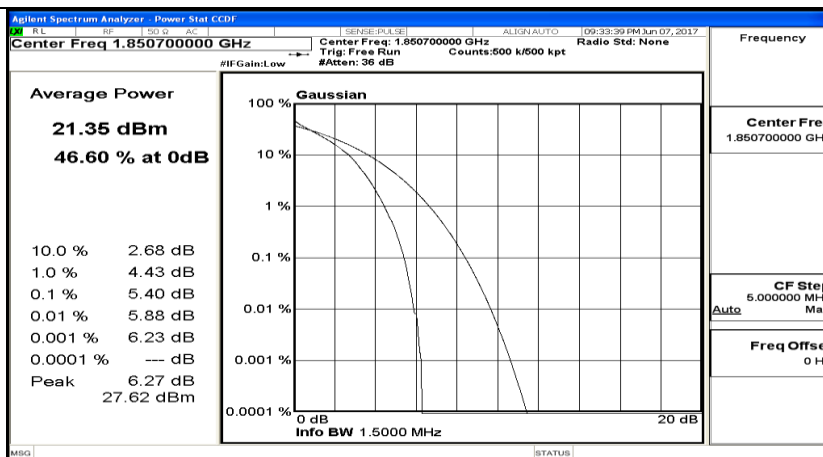
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#2



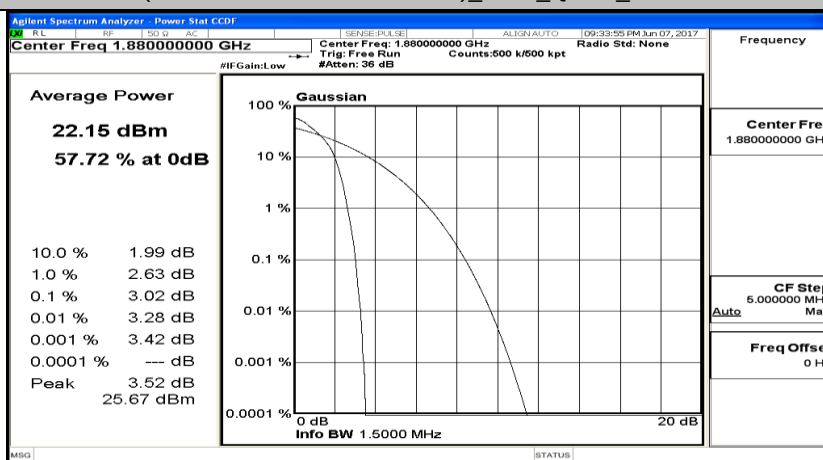
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_3RB#3



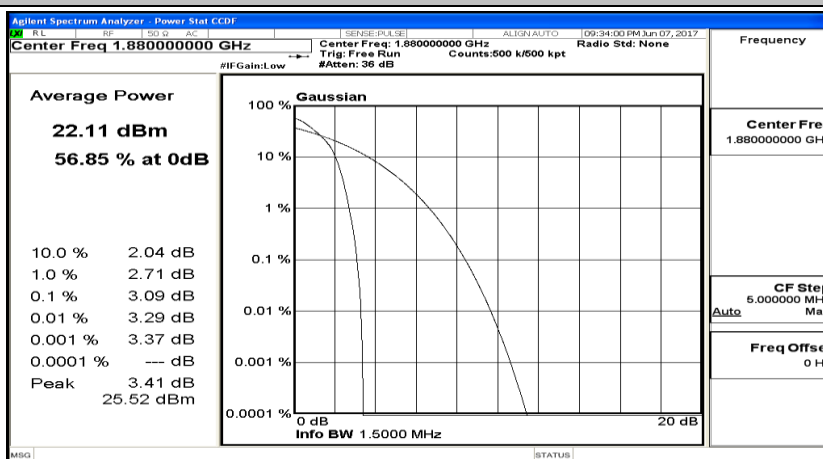
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0



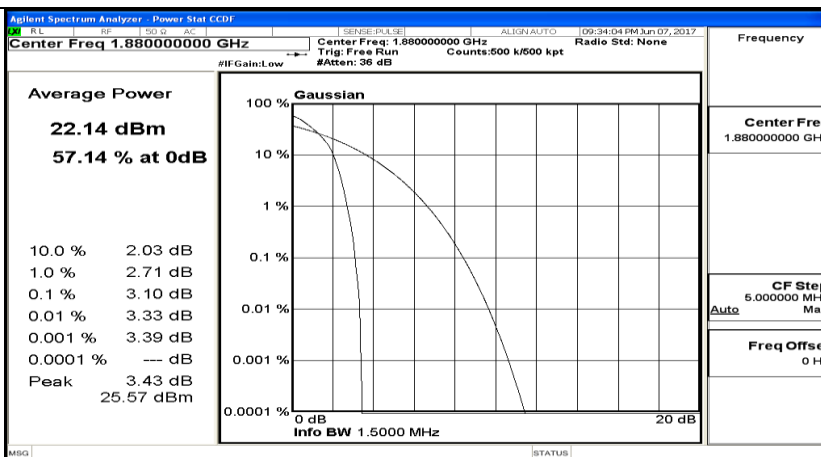
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0



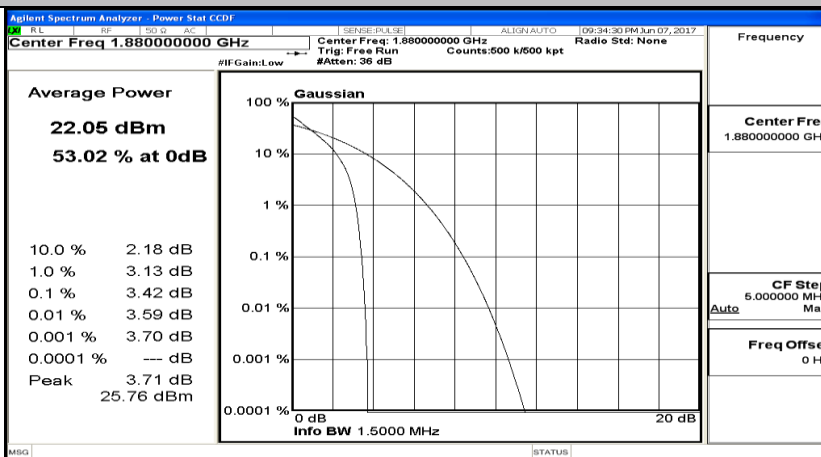
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#3



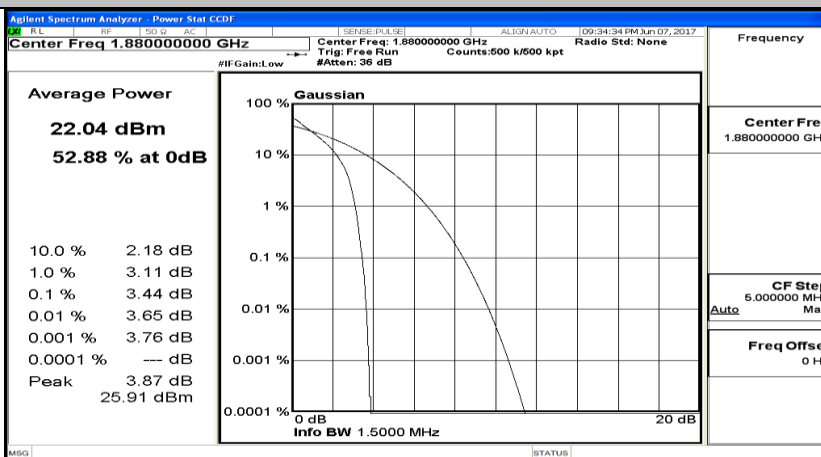
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#5



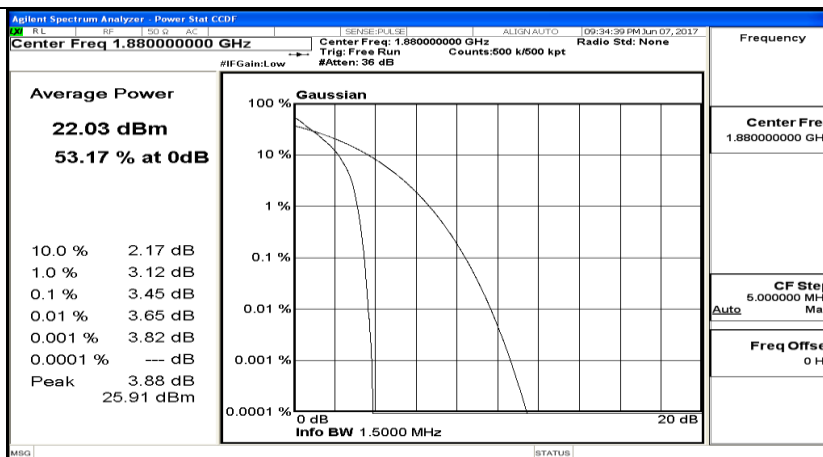
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#0



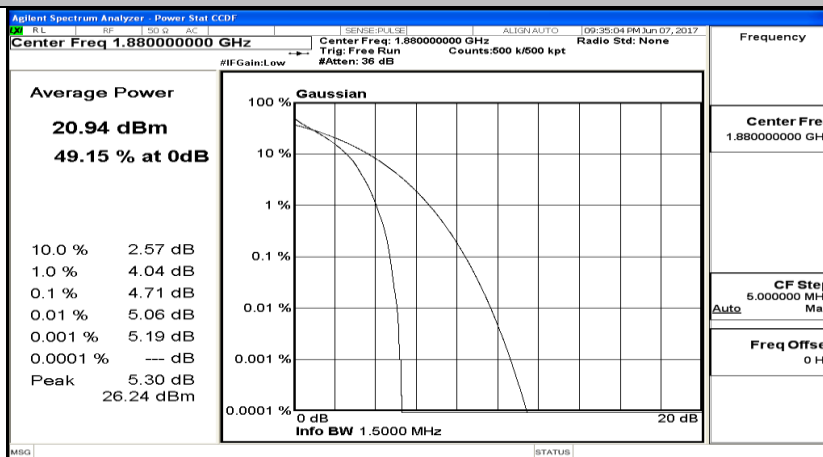
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#2



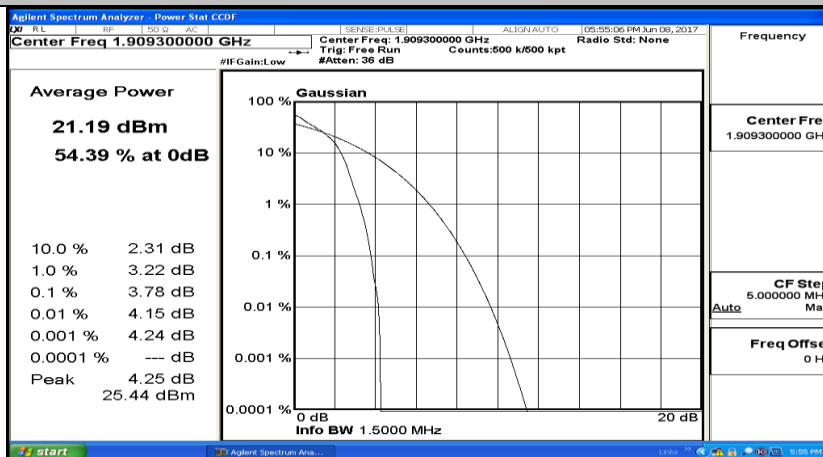
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_3RB#3



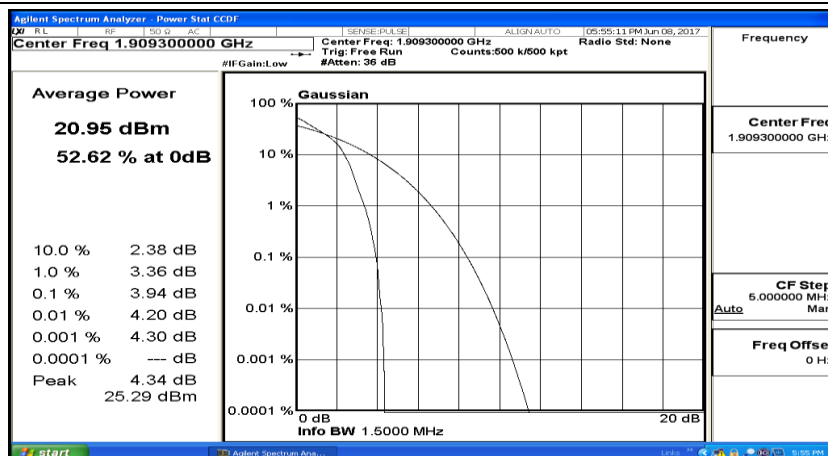
(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0



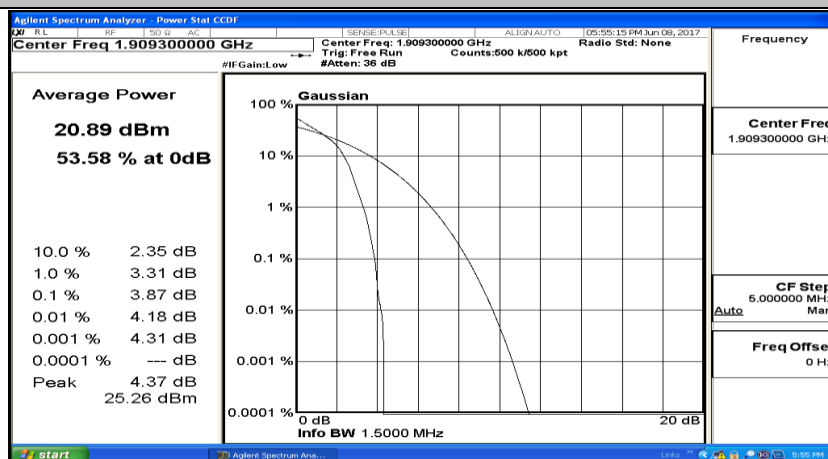
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0



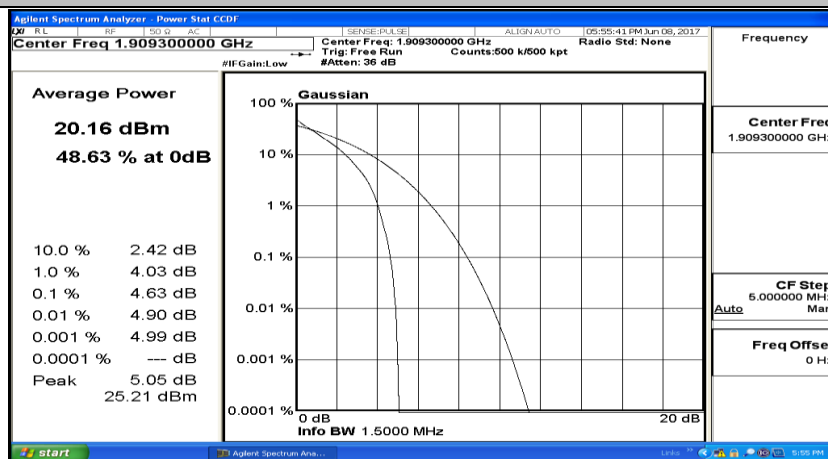
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#3



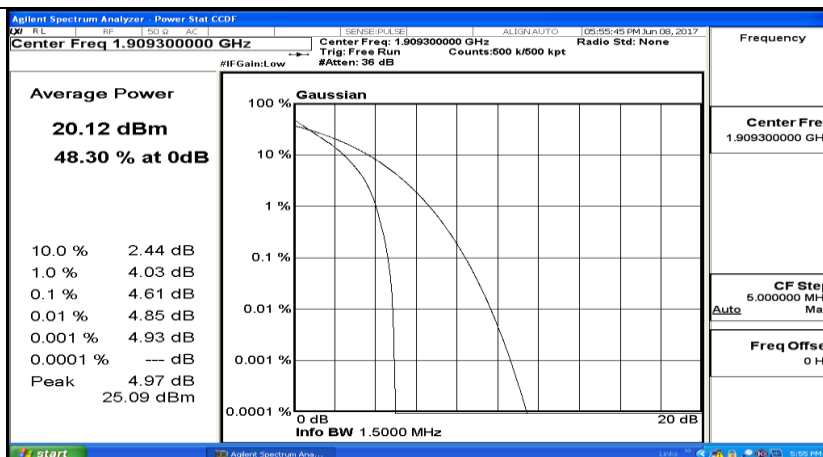
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#5



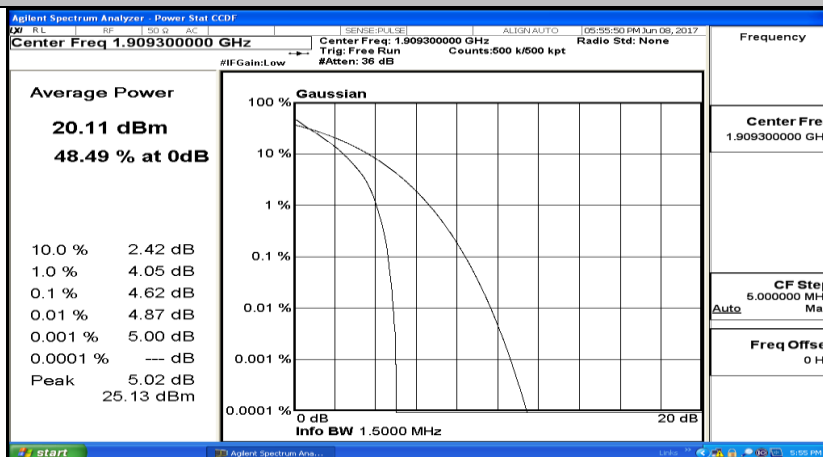
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#0



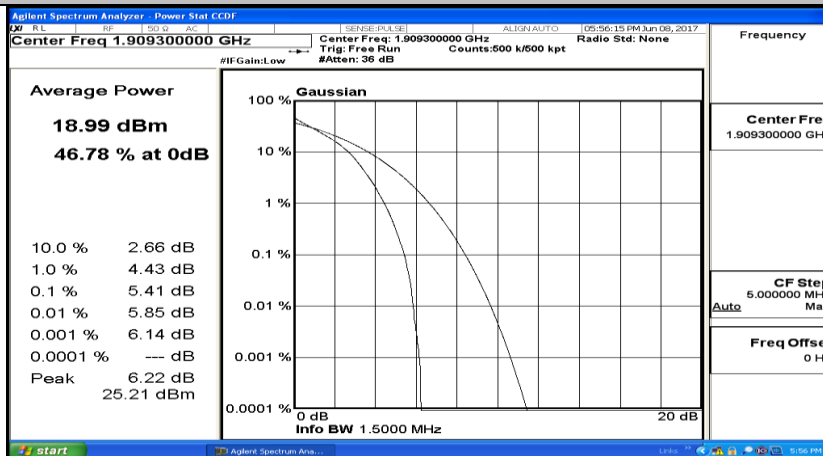
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#2



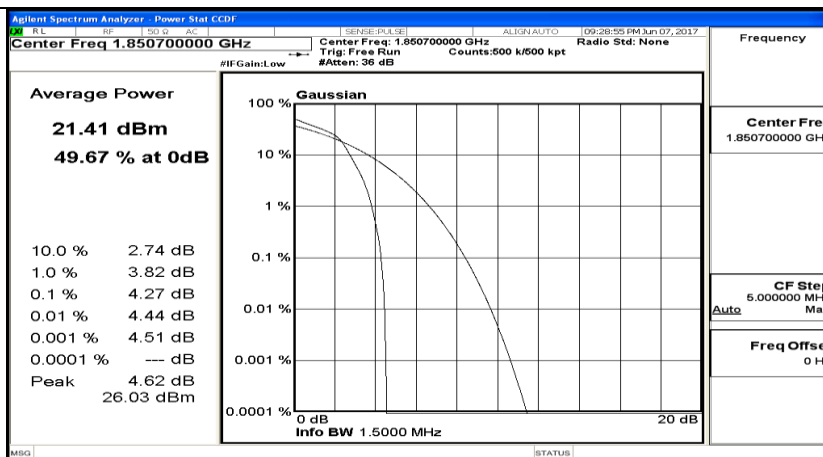
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_3RB#3



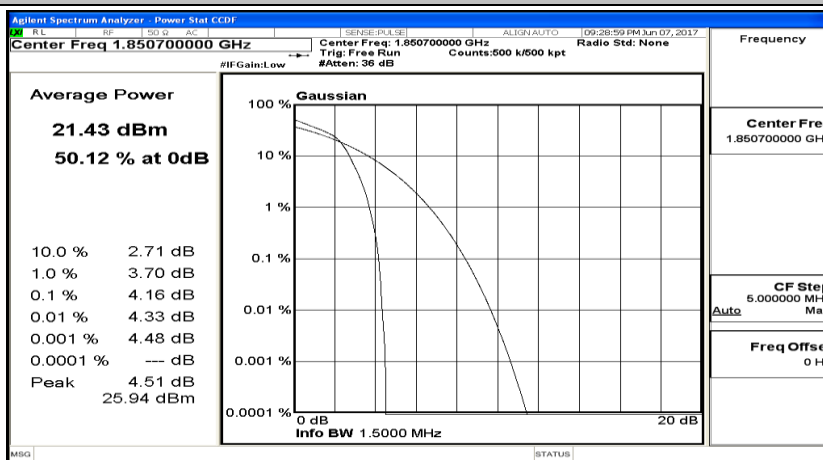
(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0



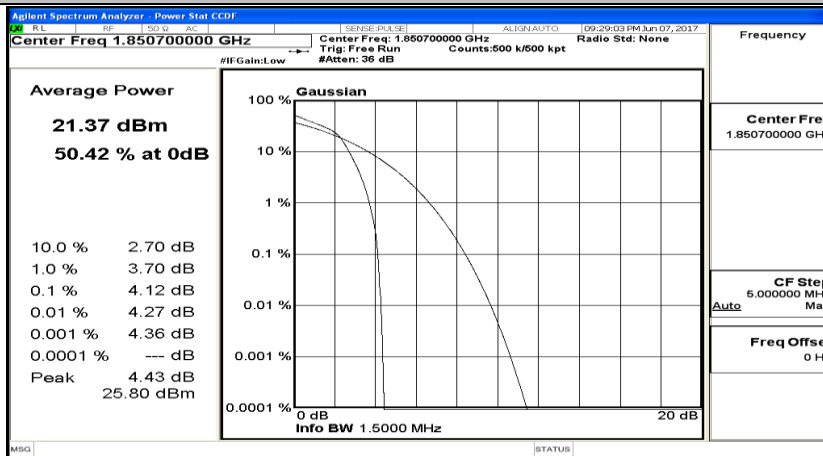
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#0



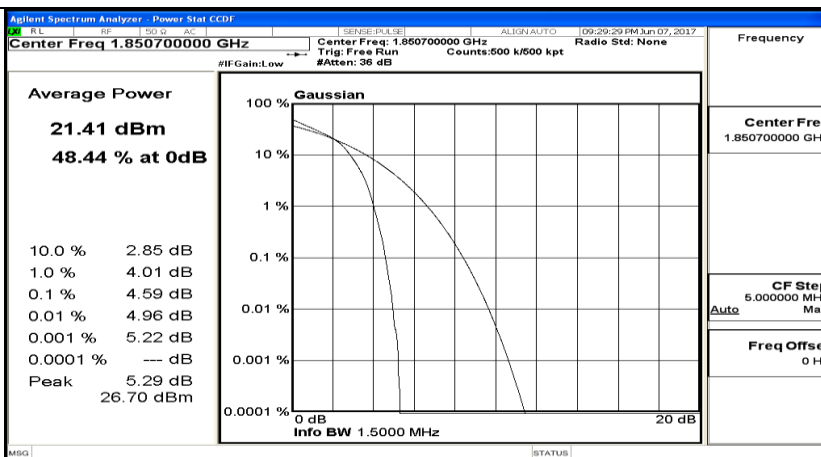
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#3



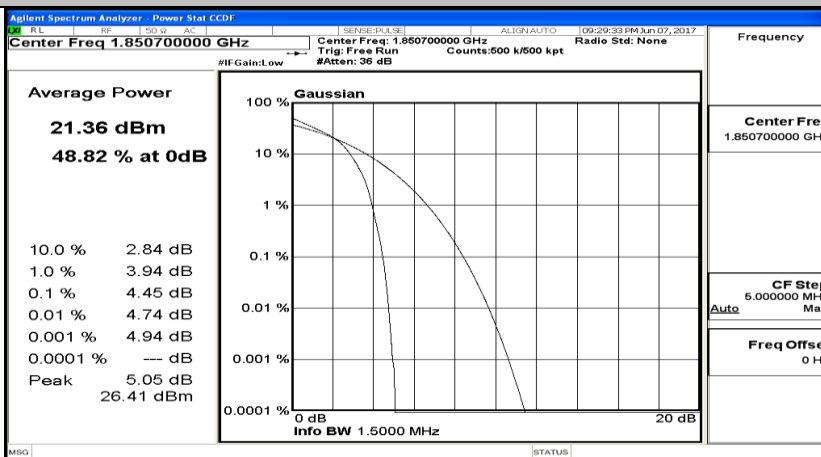
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_1RB#5



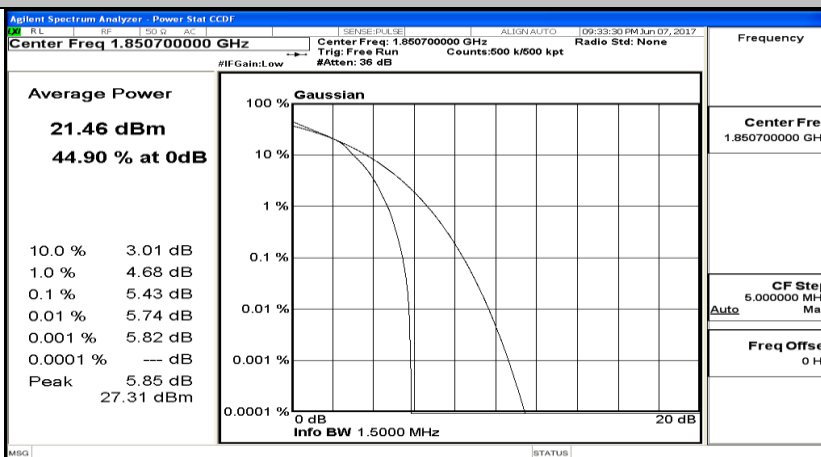
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#0



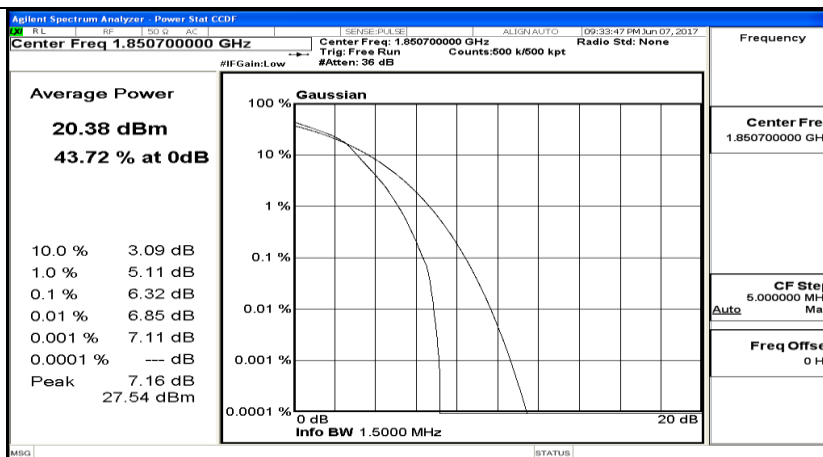
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#2



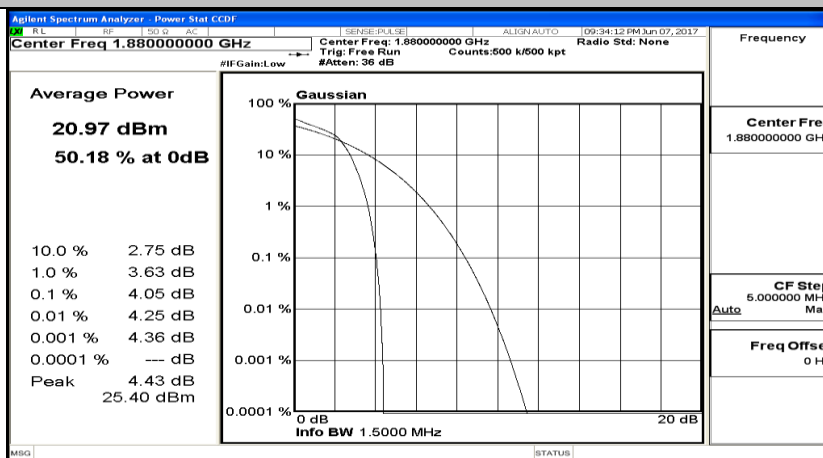
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_3RB#3



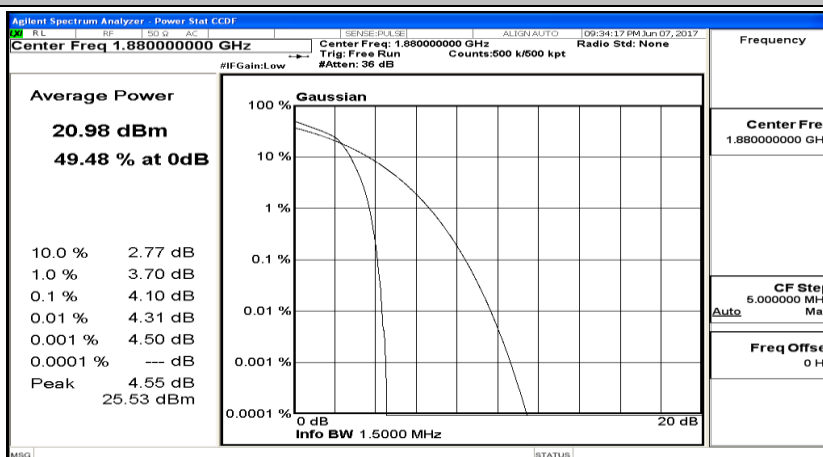
(Channel Bandwidth: 1.4 MHz)_LCH_16QAM_6RB#0



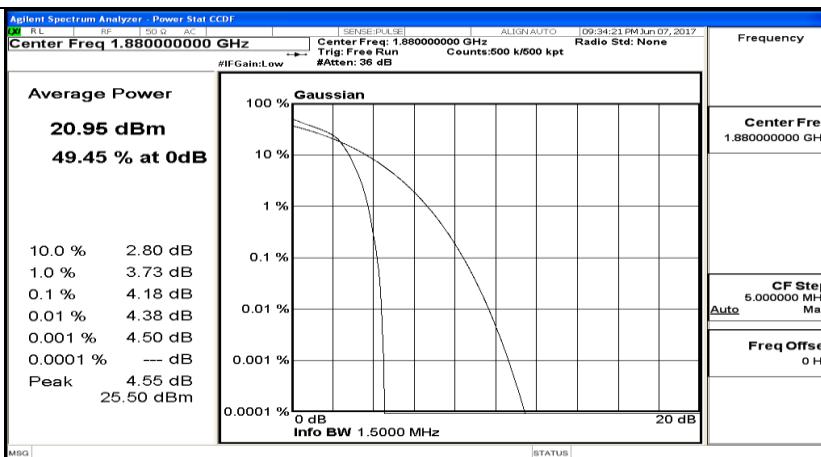
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#0



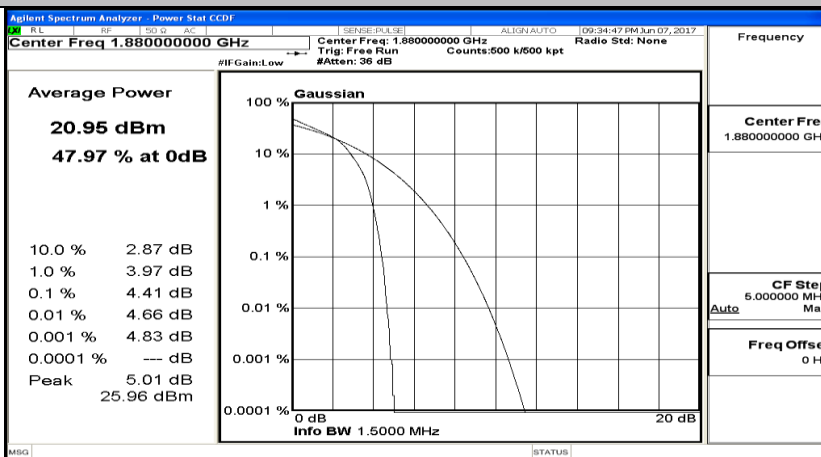
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#3



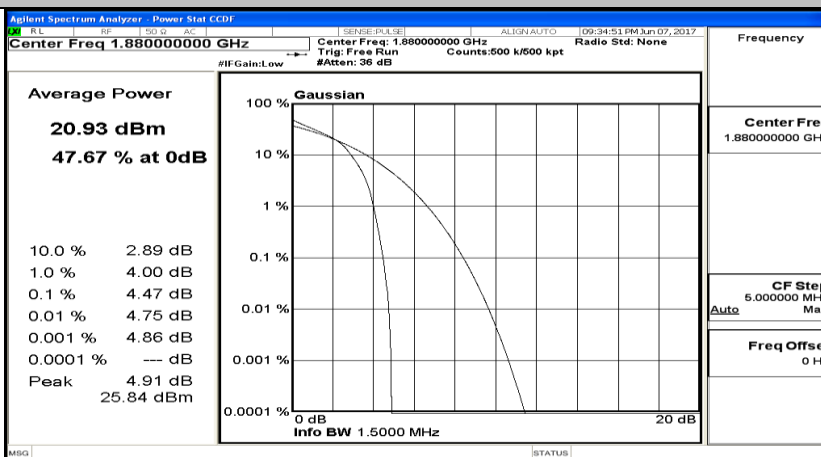
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_1RB#5



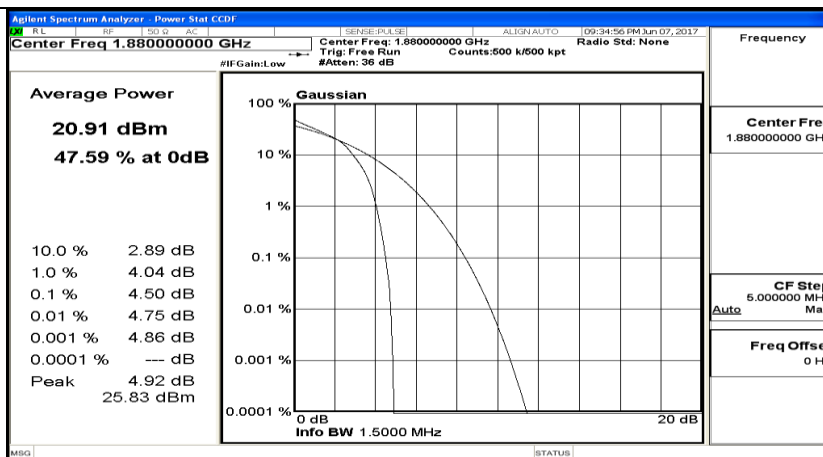
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#0



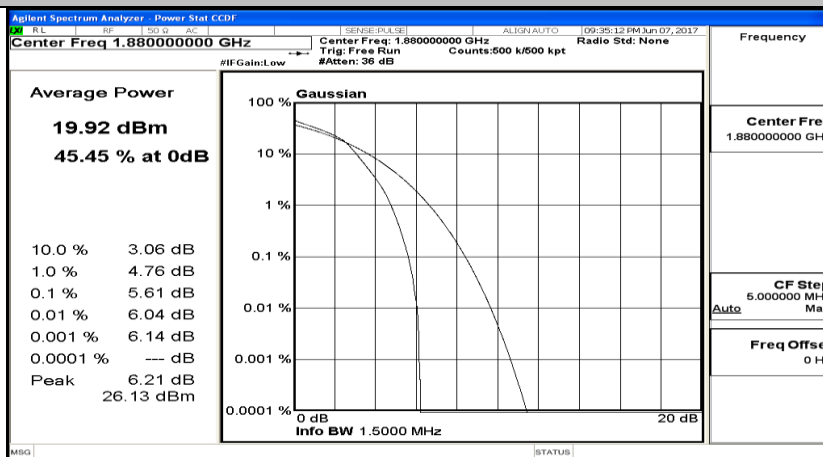
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#2



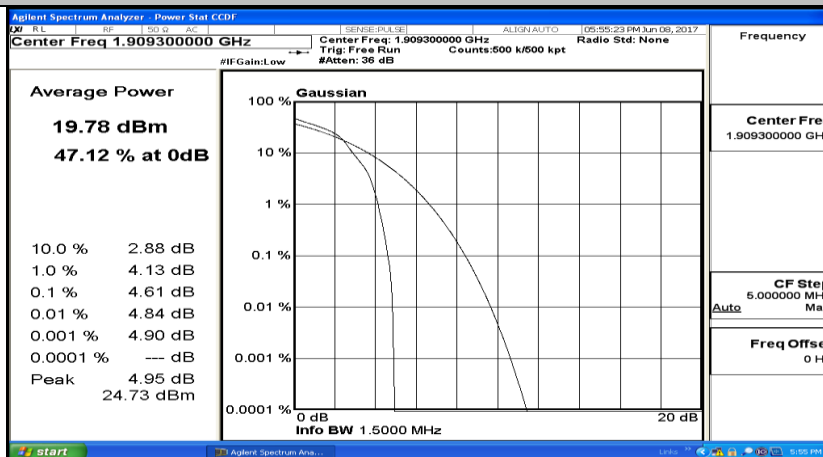
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_3RB#3



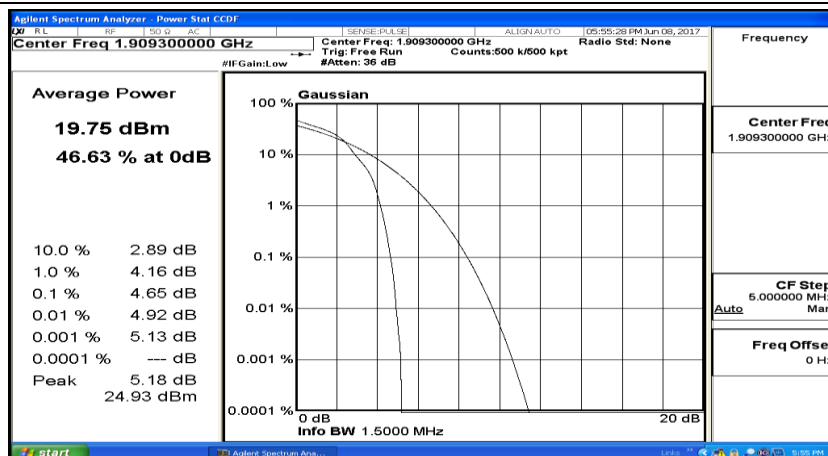
(Channel Bandwidth: 1.4 MHz)_MCH_16QAM_6RB#0



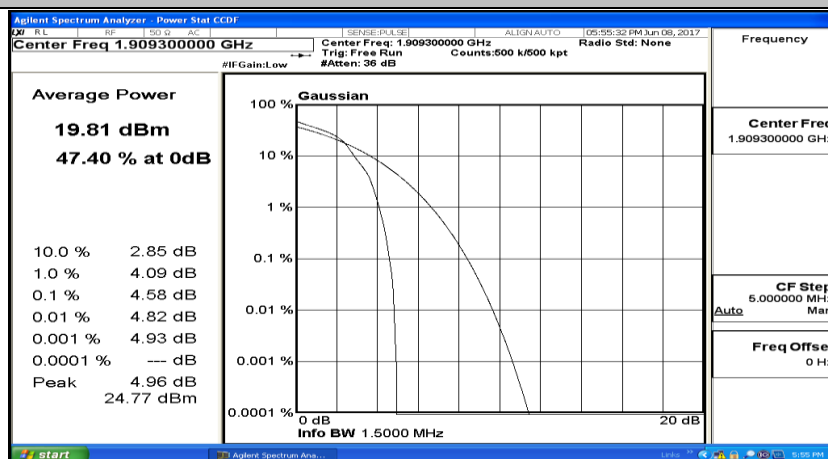
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#0



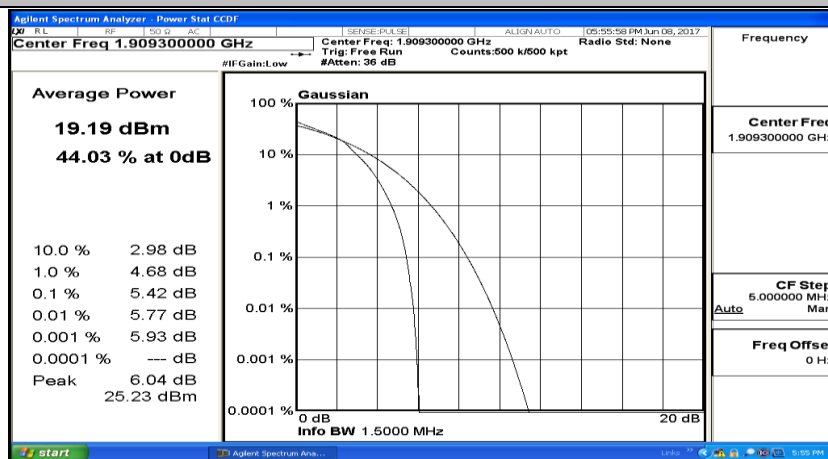
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#3



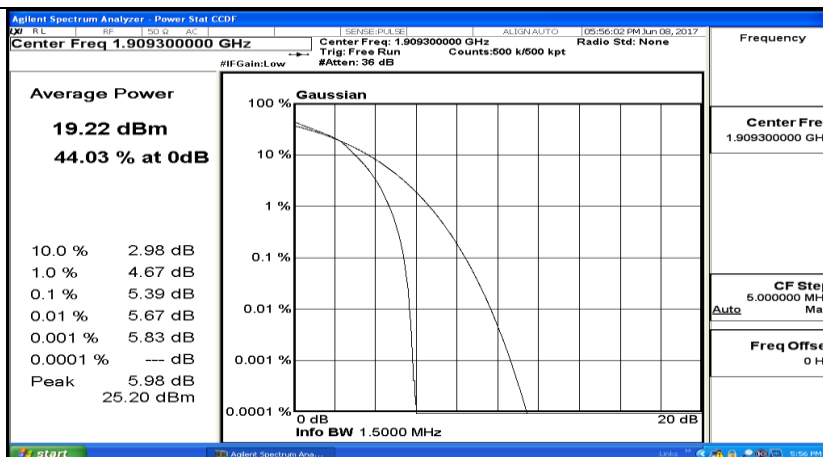
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_1RB#5



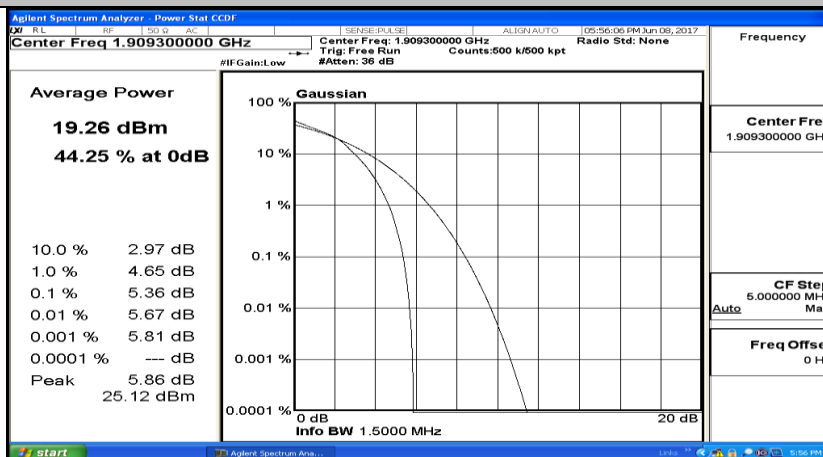
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#0



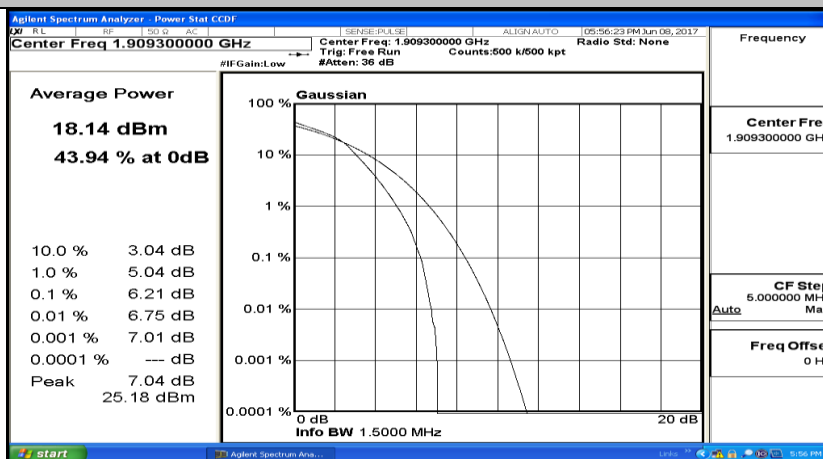
(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#2



(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_3RB#3

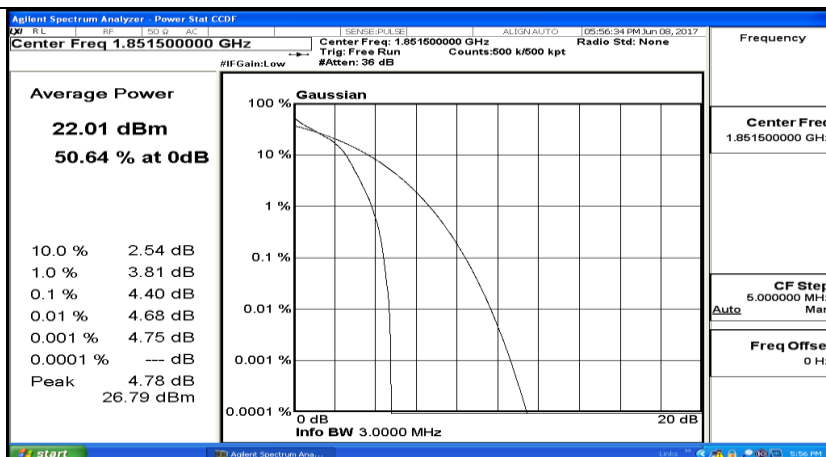


(Channel Bandwidth: 1.4 MHz)_HCH_16QAM_6RB#0

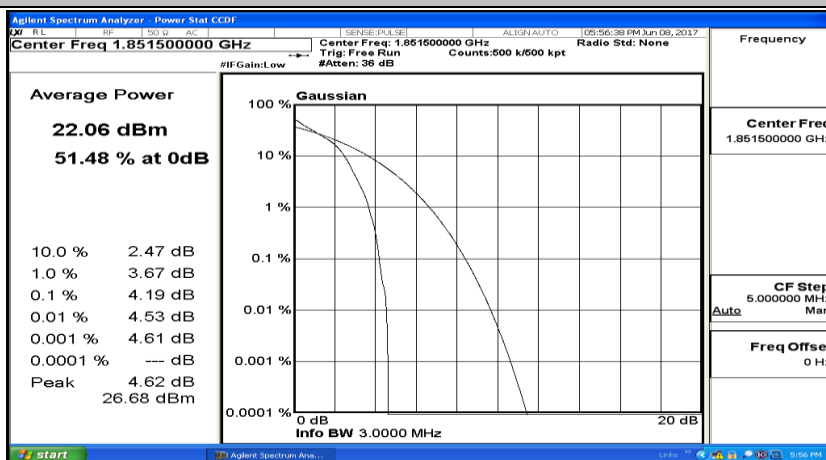


Channel Bandwidth: 3 MHz

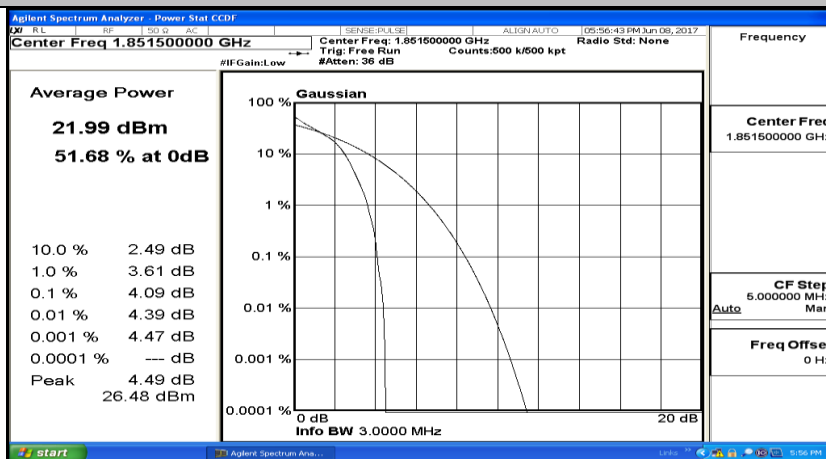
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



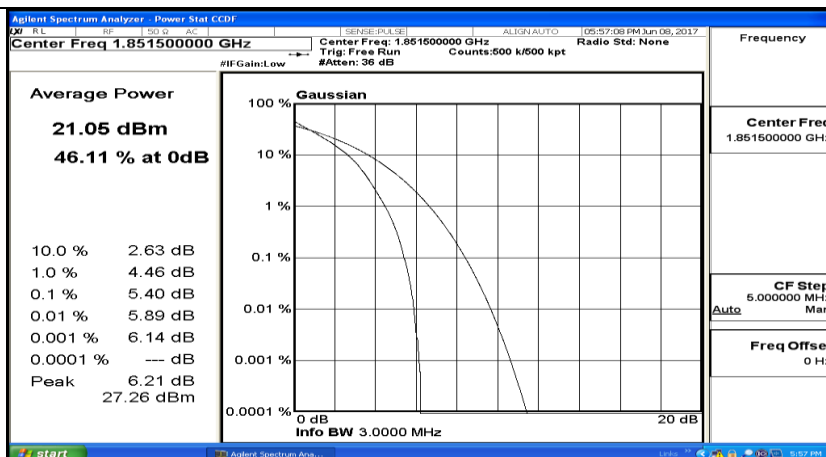
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#7



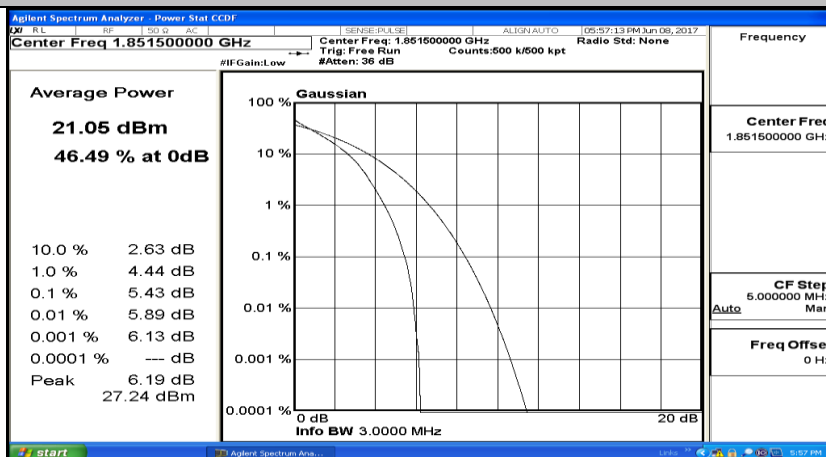
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#14



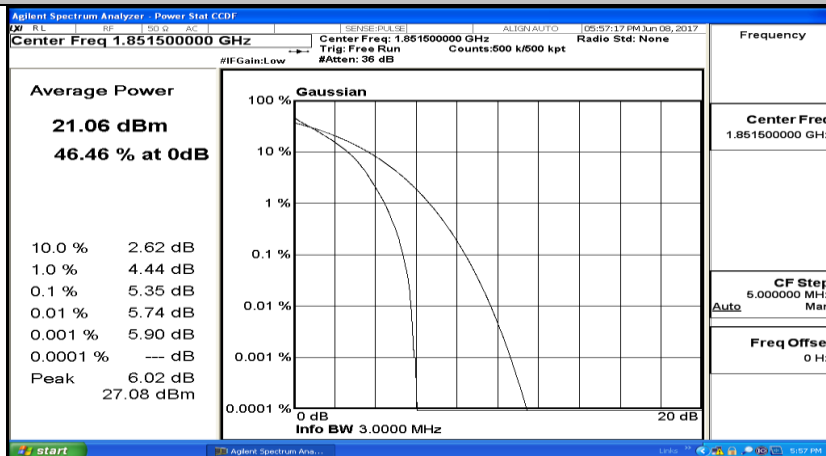
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#0



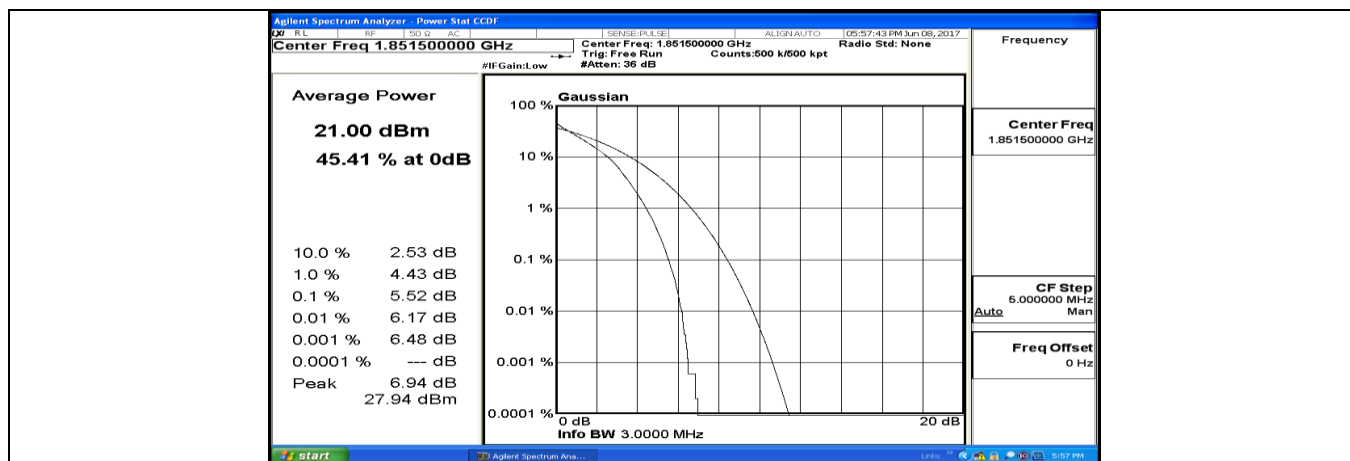
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#4



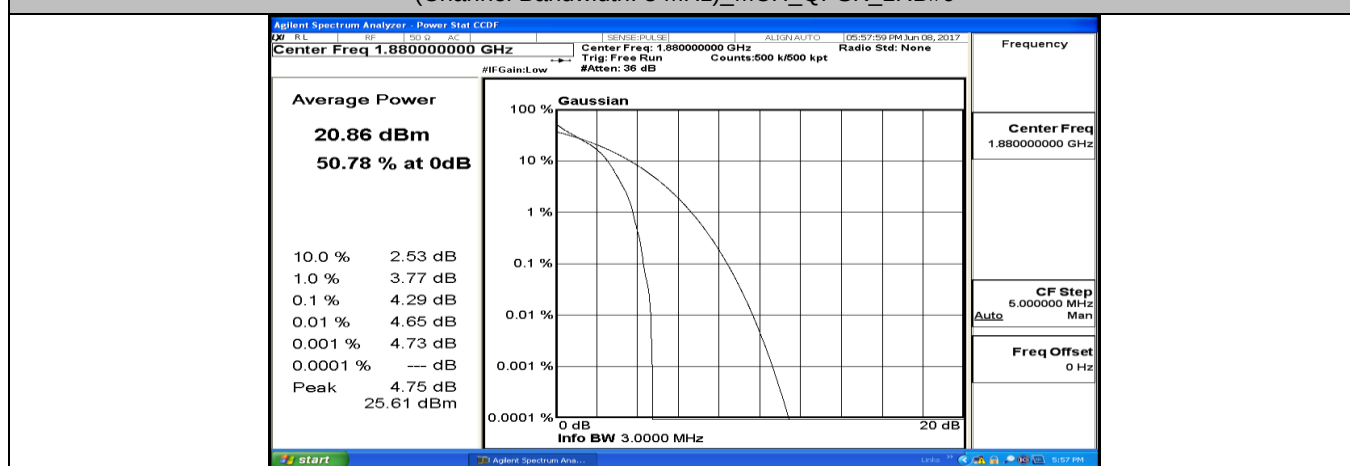
(Channel Bandwidth: 3 MHz)_LCH_QPSK_8RB#7



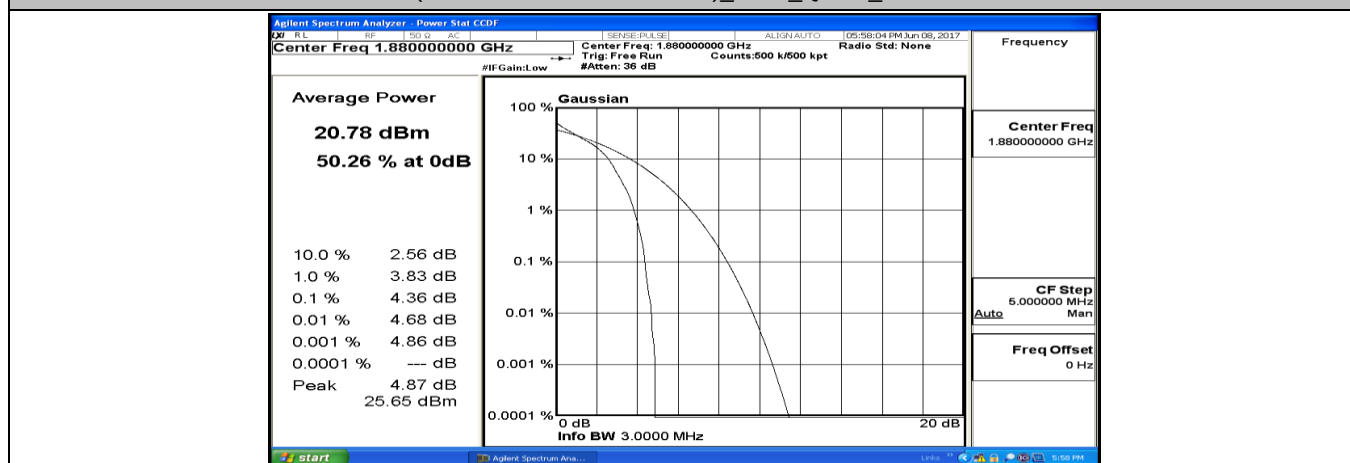
(Channel Bandwidth: 3 MHz)_LCH_QPSK_15RB#0



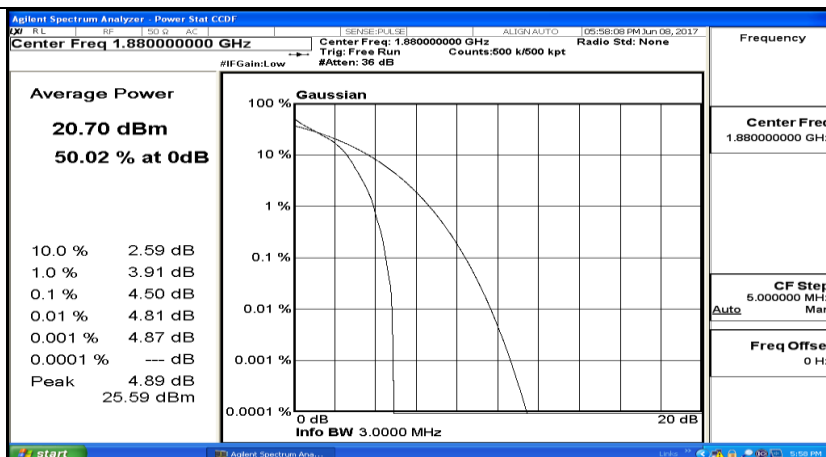
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0



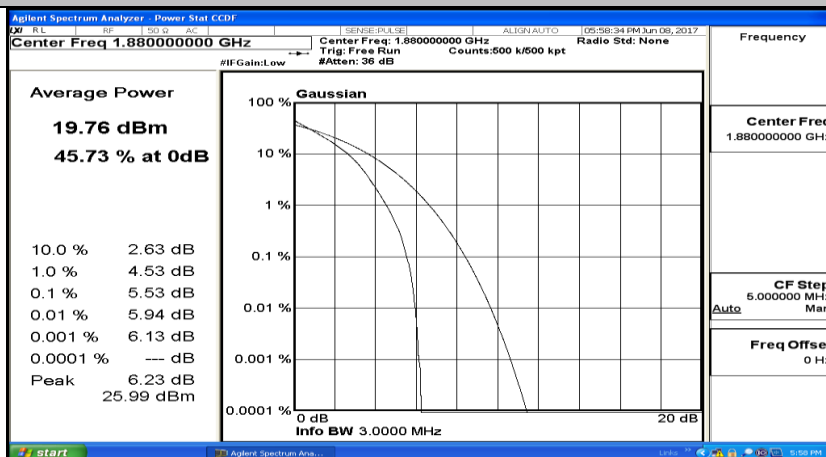
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#7



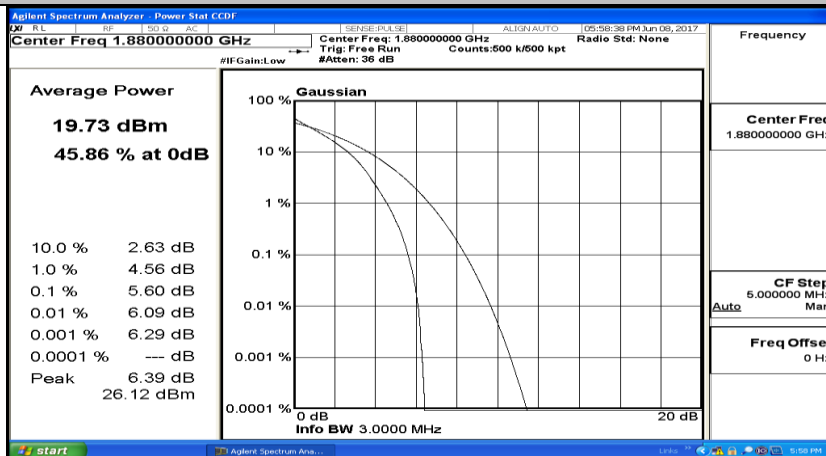
(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#14



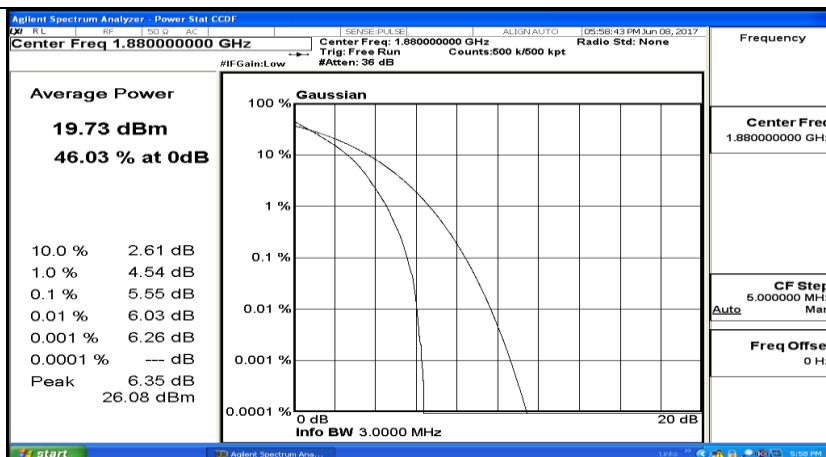
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#0



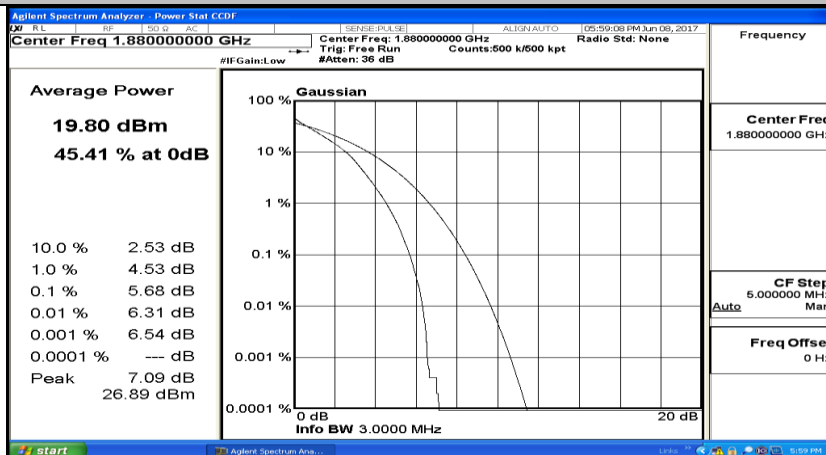
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#4



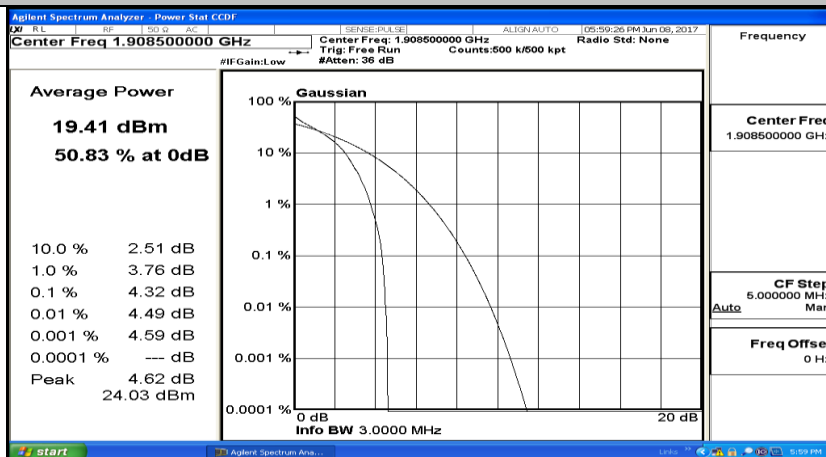
(Channel Bandwidth: 3 MHz)_MCH_QPSK_8RB#7



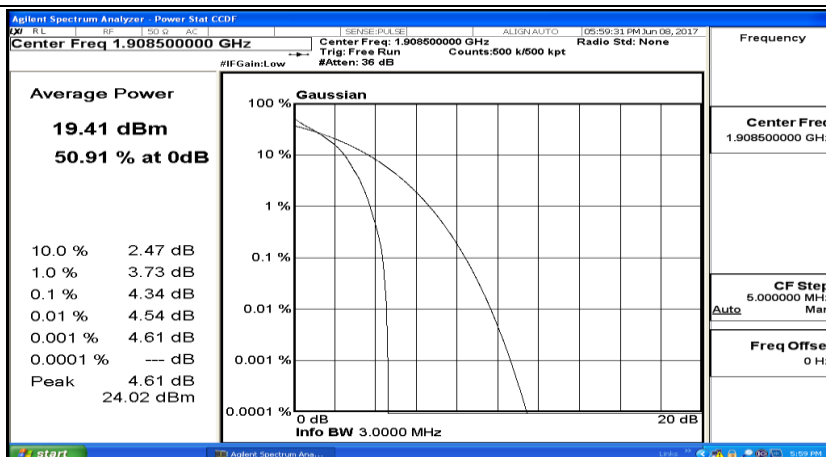
(Channel Bandwidth: 3 MHz)_MCH_QPSK_15RB#0



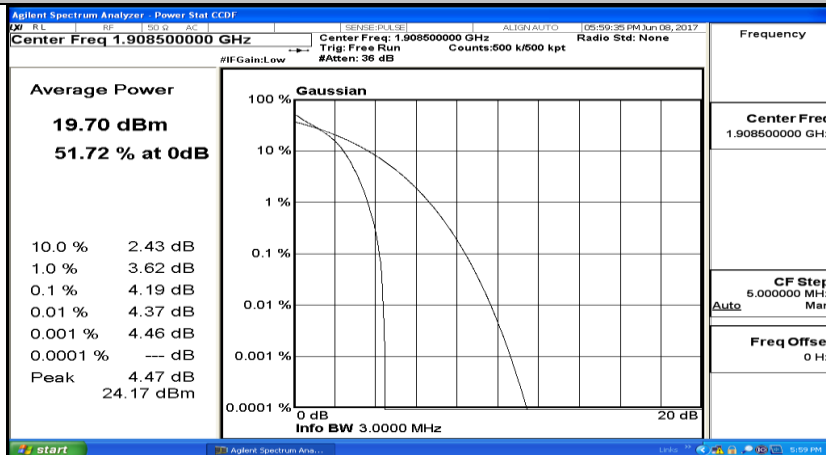
(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0



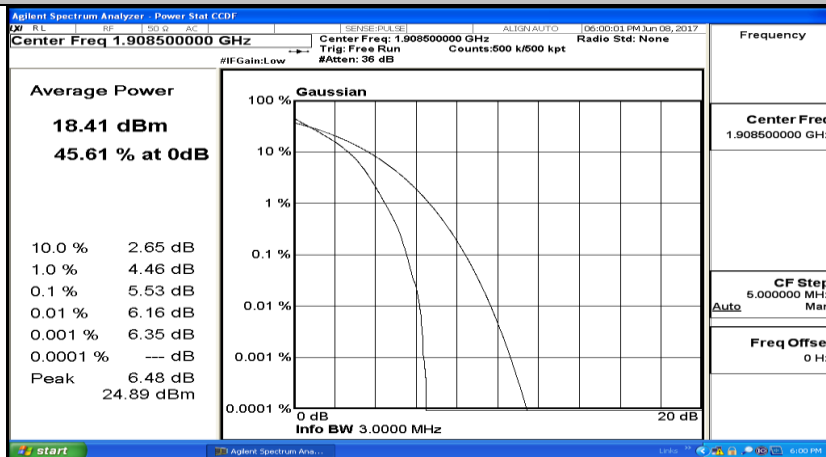
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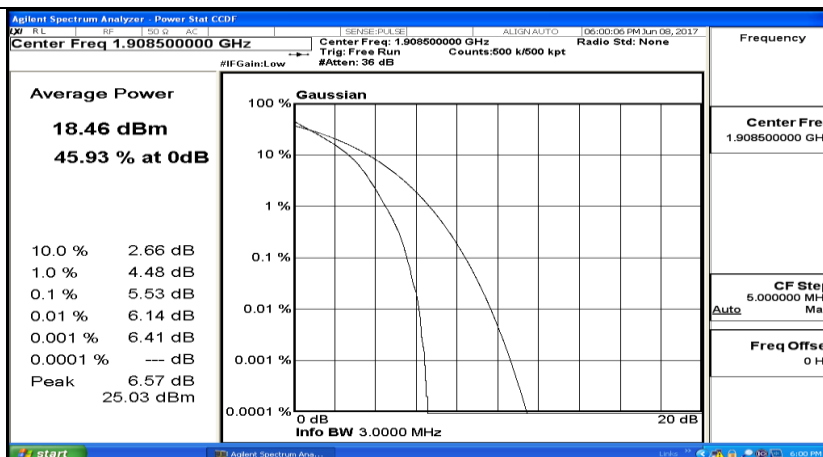
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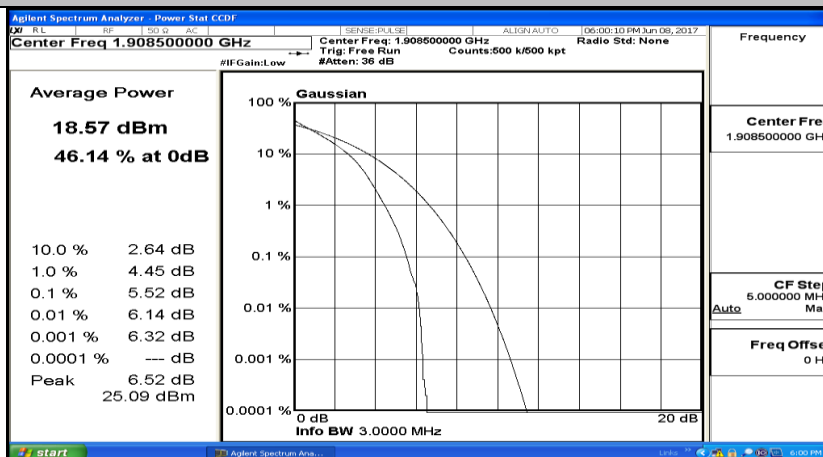
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#0



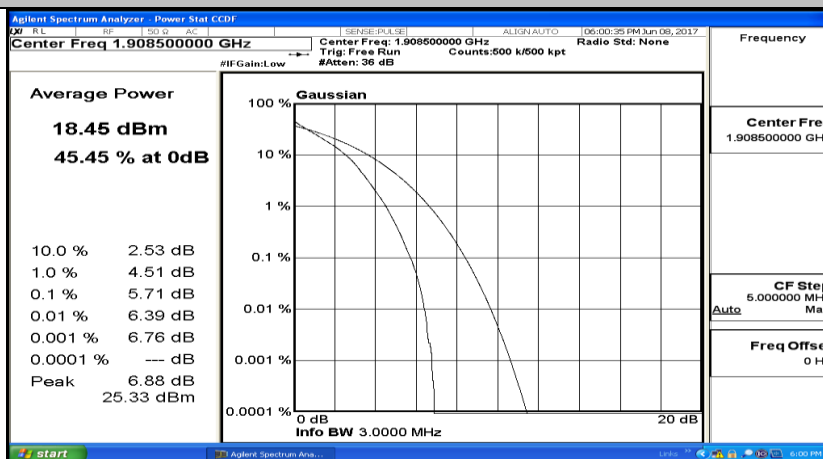
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#4



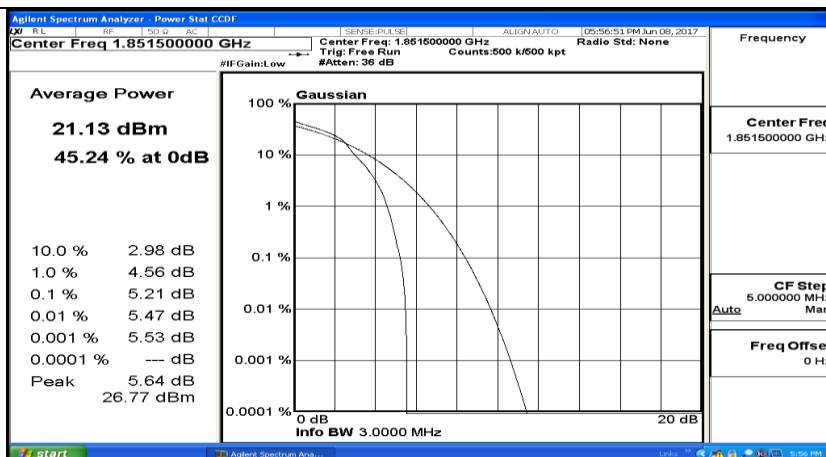
(Channel Bandwidth: 3 MHz)_HCH_QPSK_8RB#7



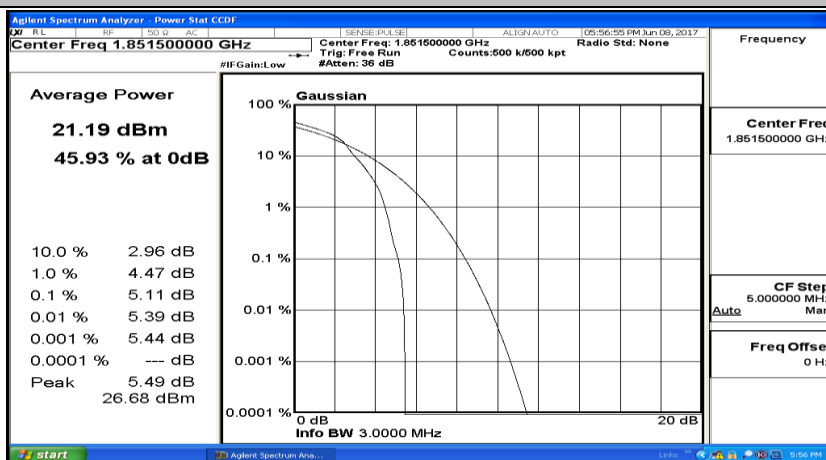
(Channel Bandwidth: 3 MHz)_HCH_QPSK_15RB#0



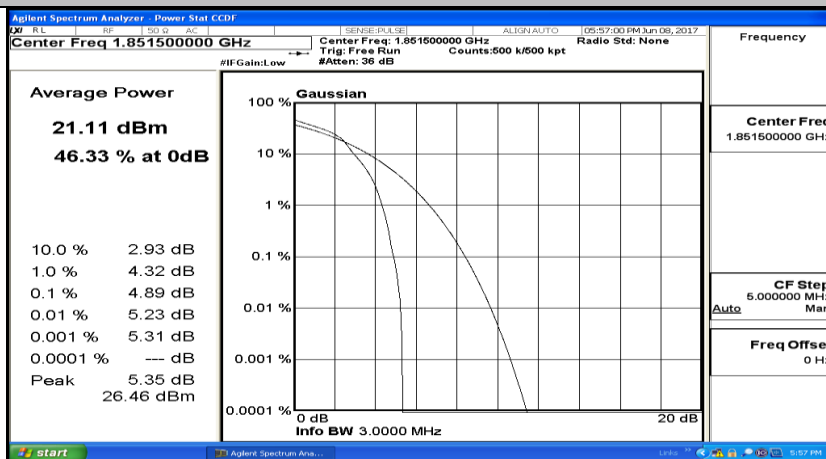
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



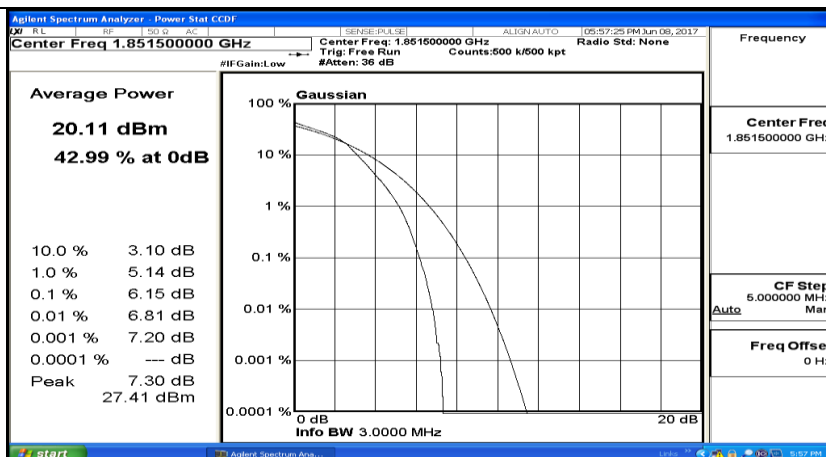
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



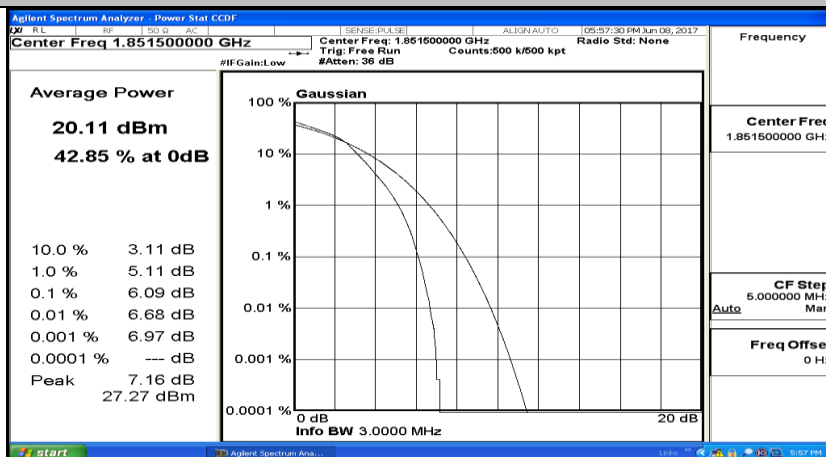
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#14



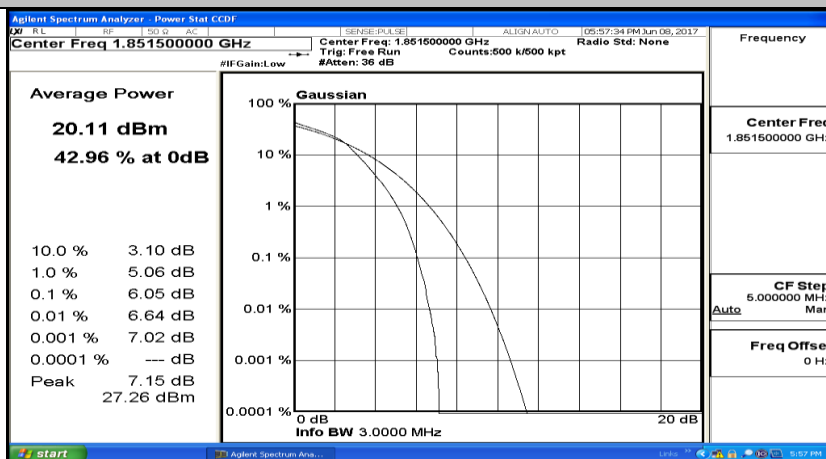
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#0



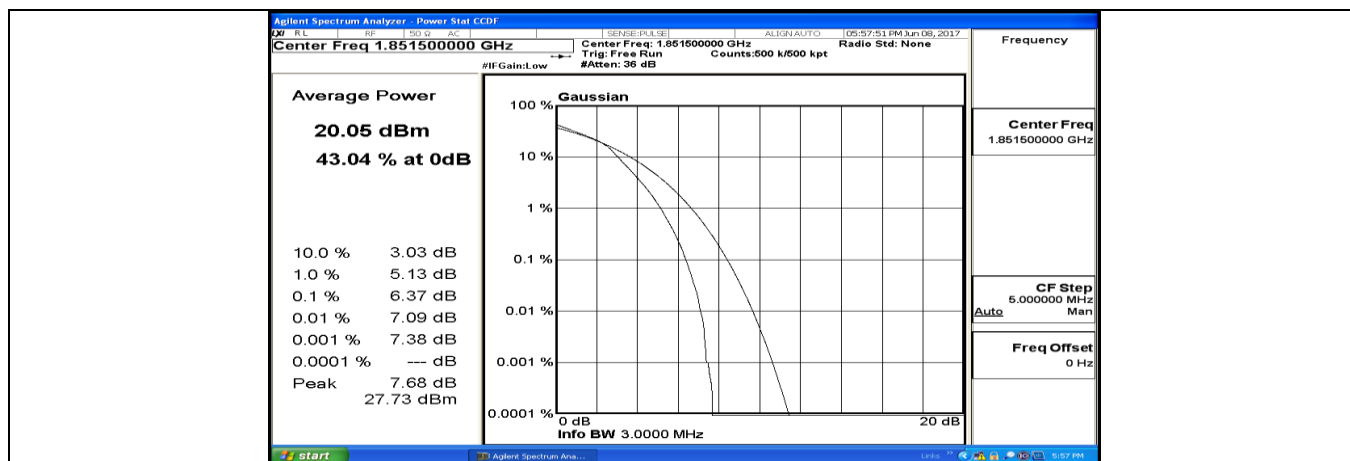
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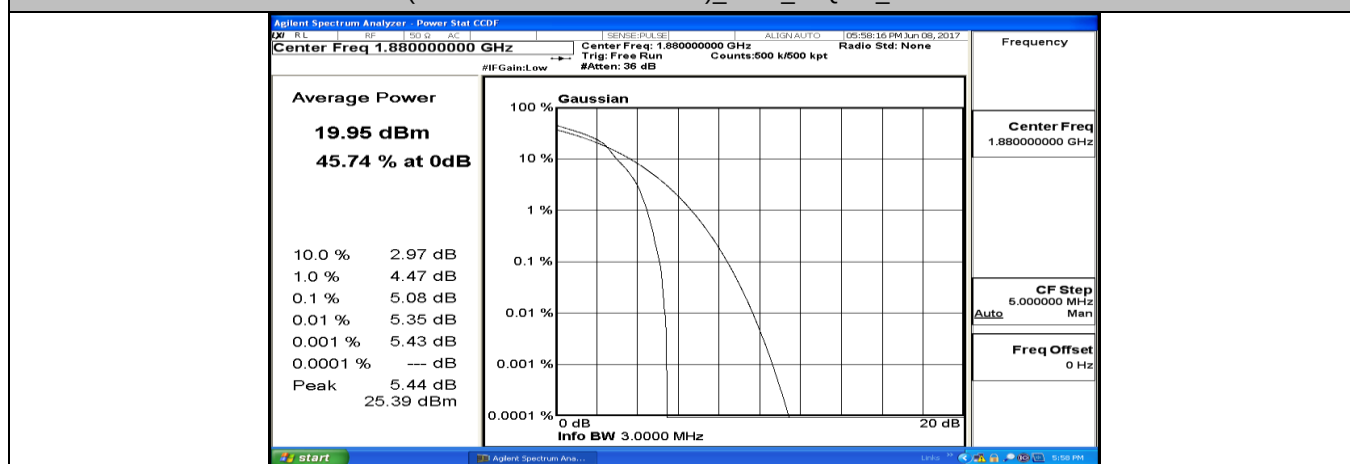
(Channel Bandwidth: 3 MHz)_LCH_16QAM_8RB#7



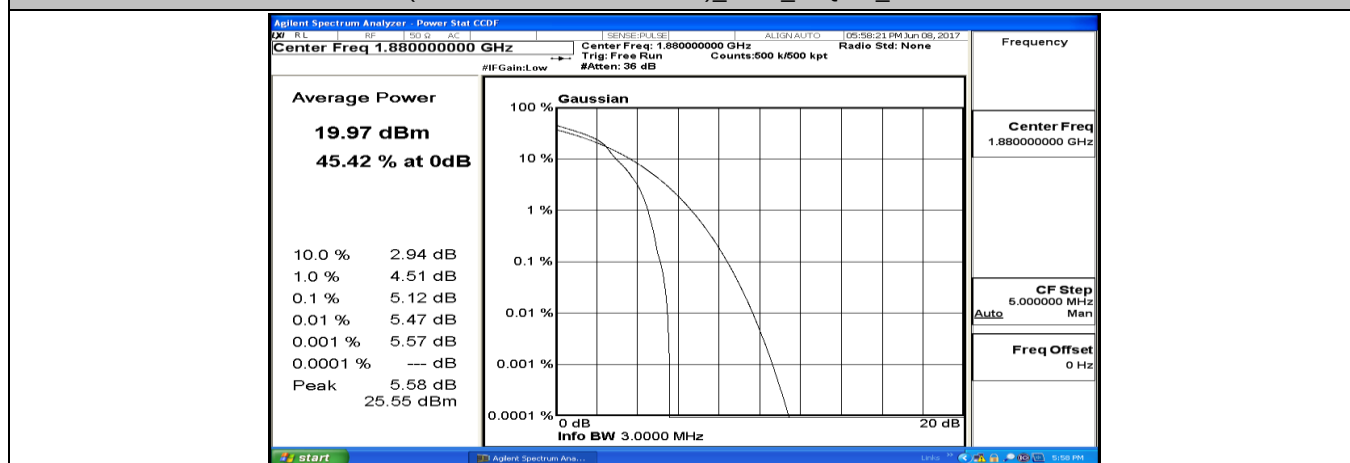
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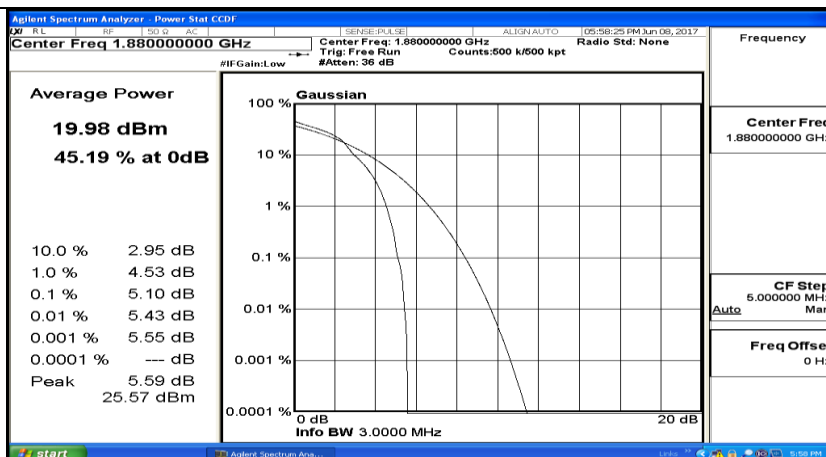
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



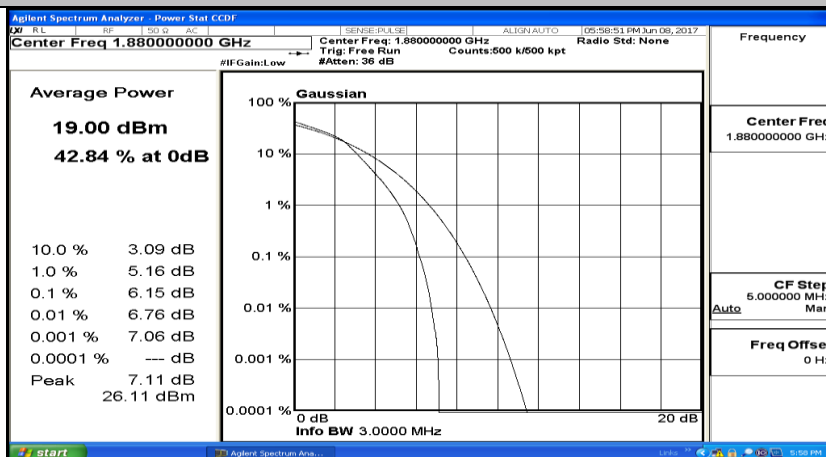
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



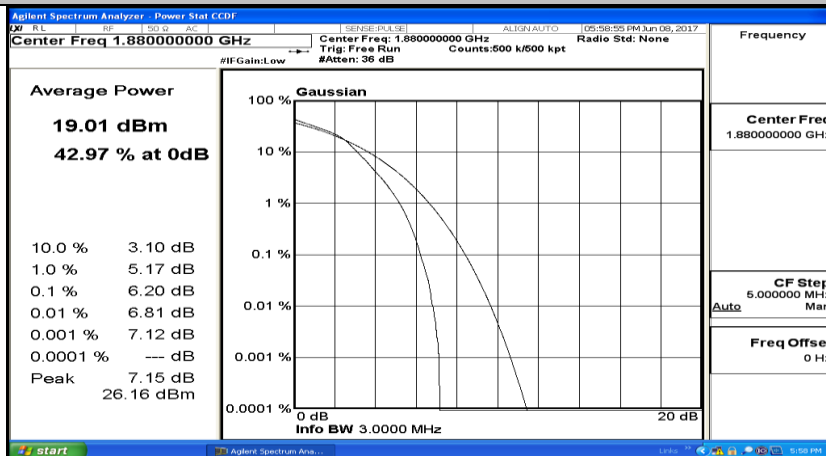
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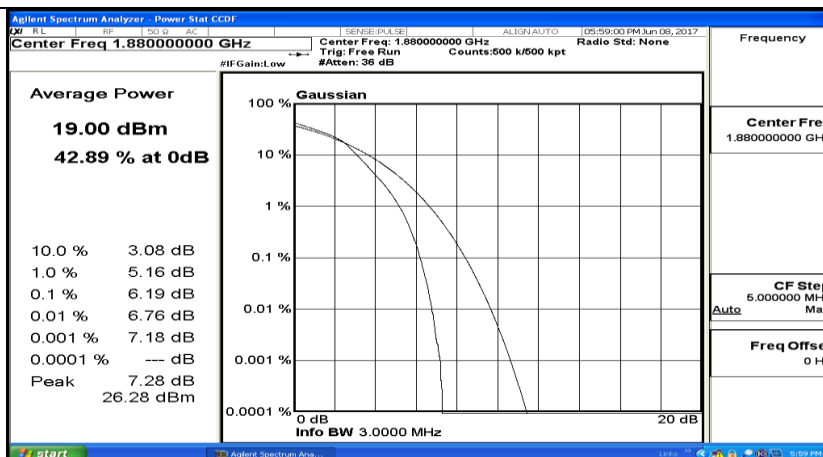
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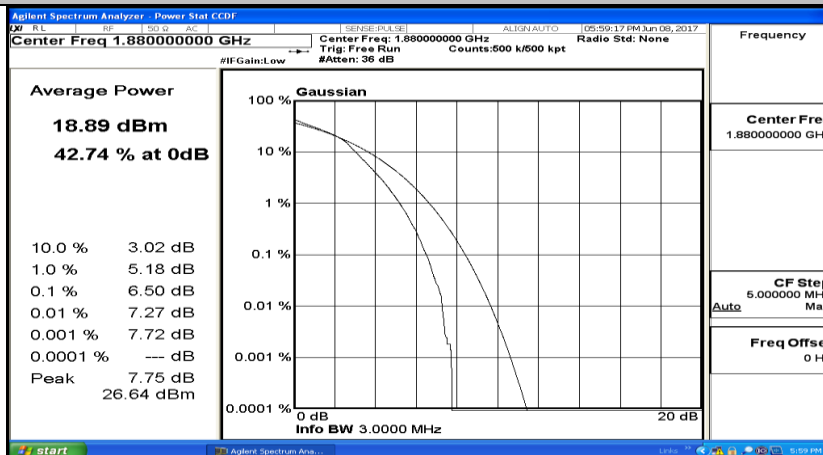
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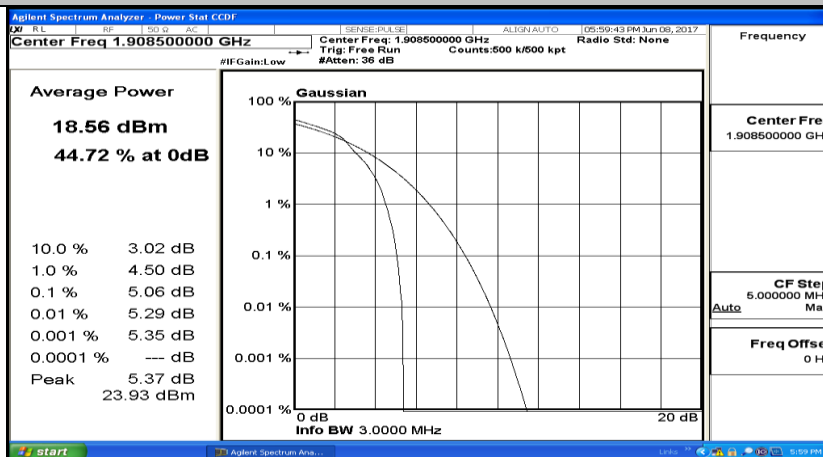
(Channel Bandwidth: 3 MHz)_MCH_16QAM_8RB#7



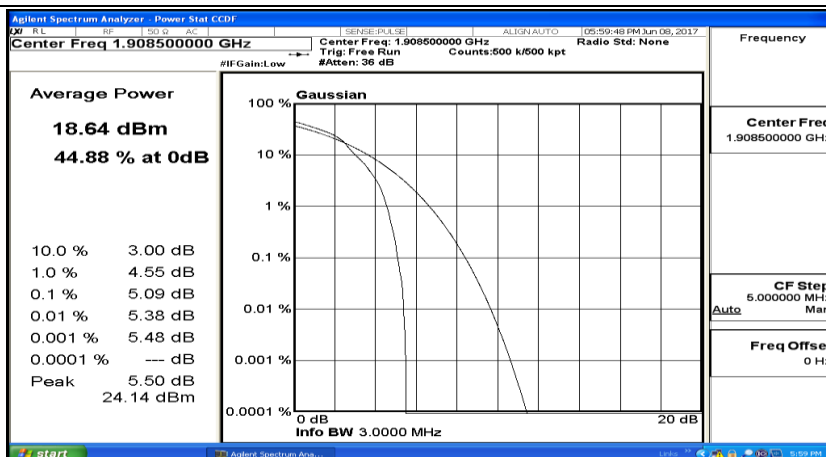
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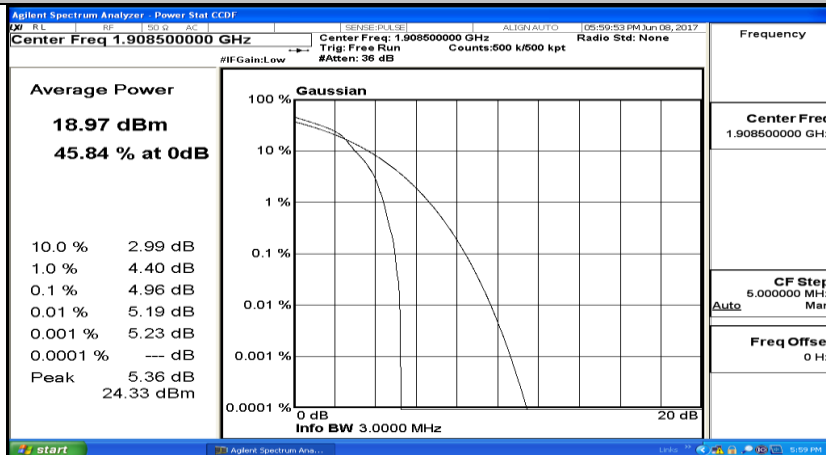
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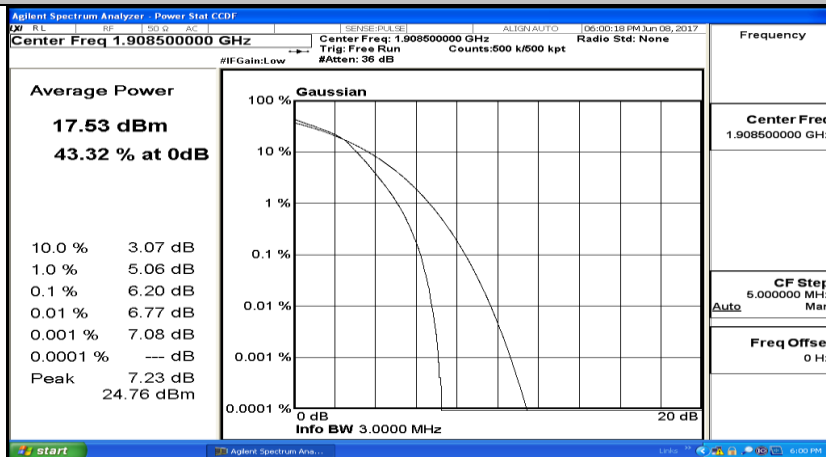
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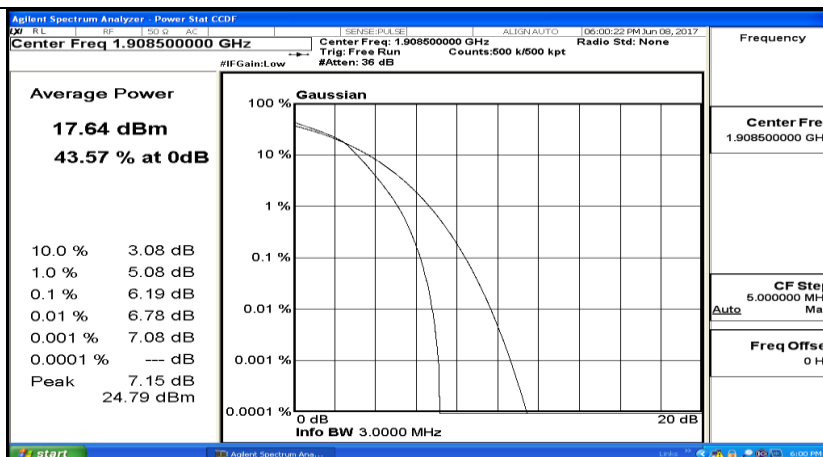
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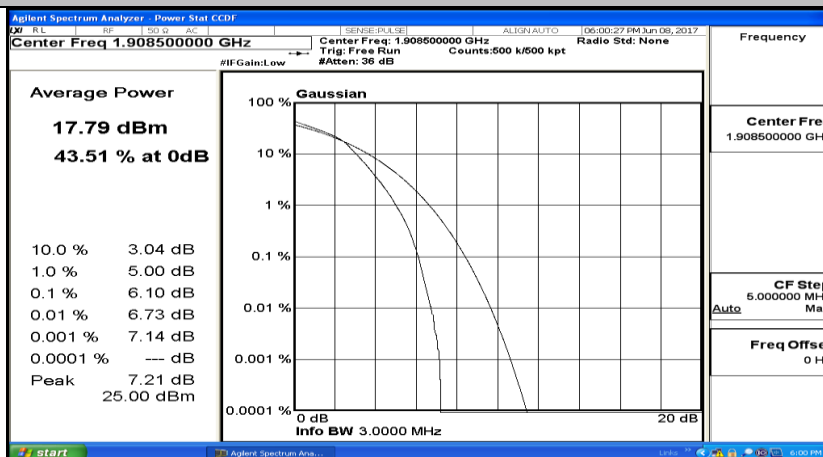
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#0



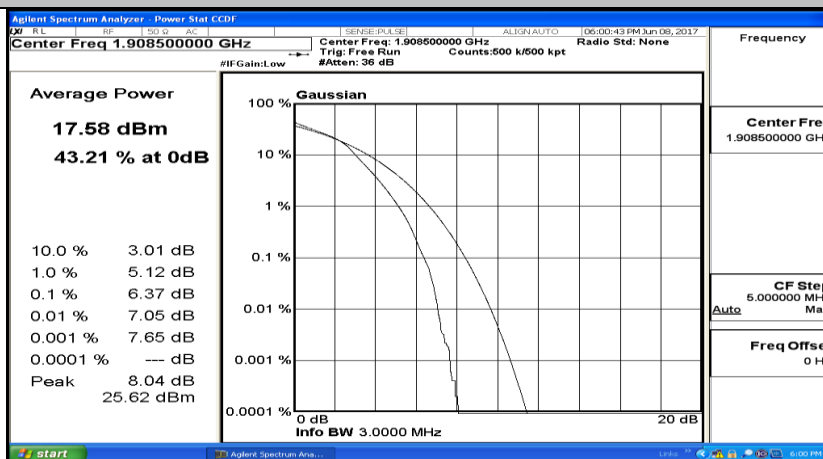
(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#4



(Channel Bandwidth: 3 MHz)_HCH_16QAM_8RB#7

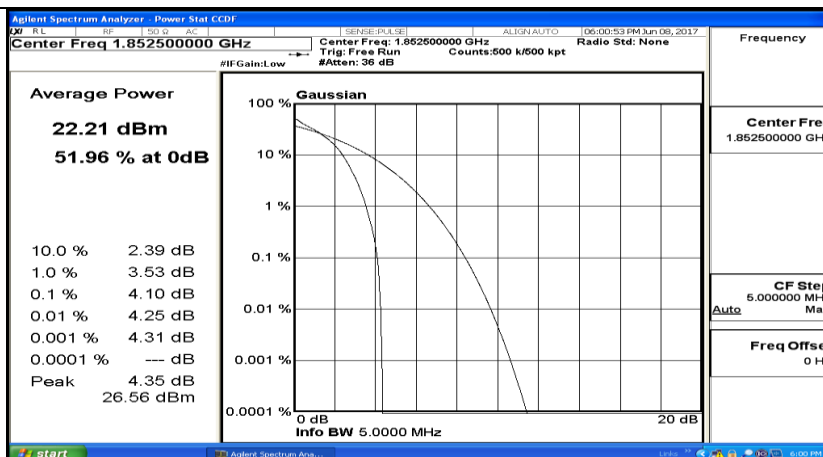


(Channel Bandwidth: 3 MHz)_HCH_16QAM_15RB#0

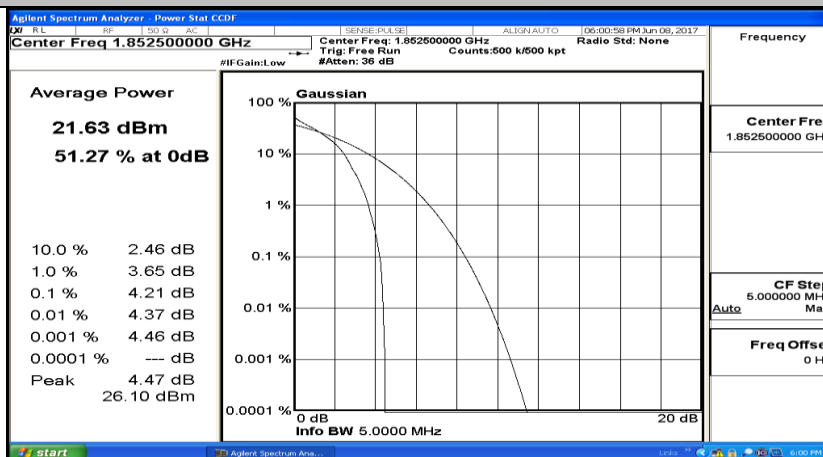


Channel Bandwidth: 5 MHz

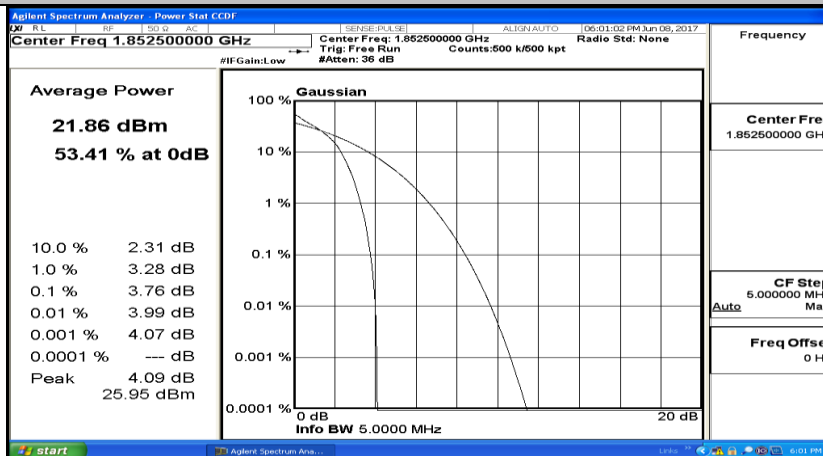
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



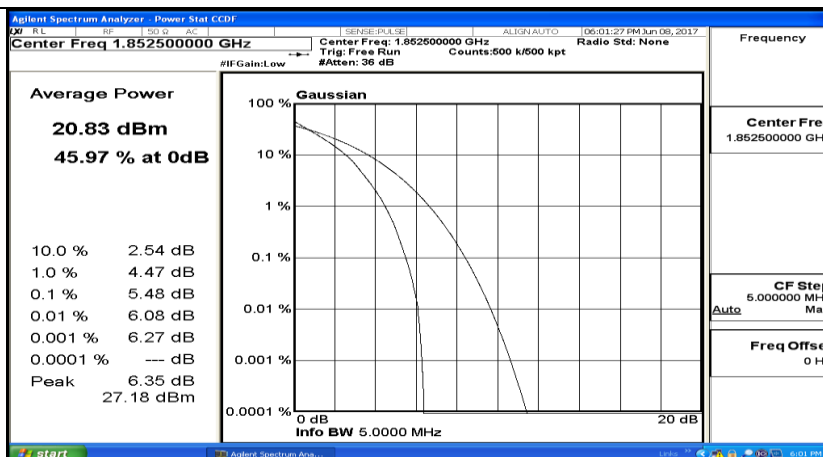
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



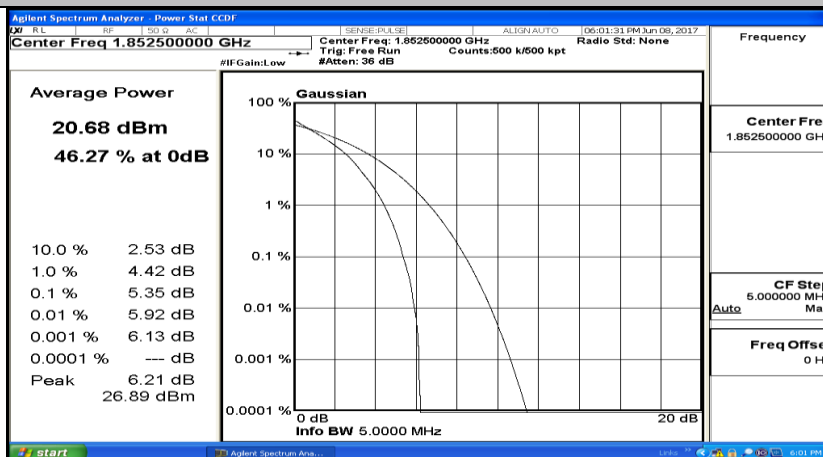
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



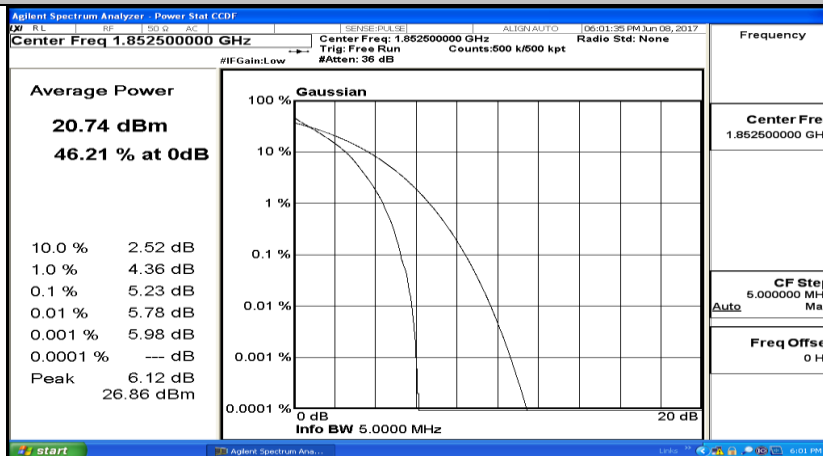
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



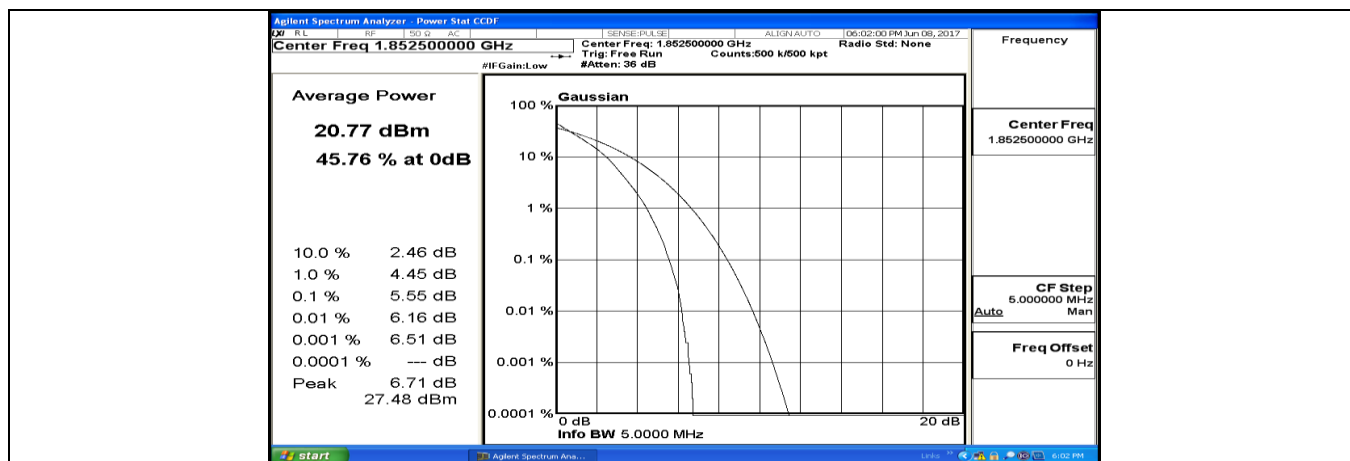
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



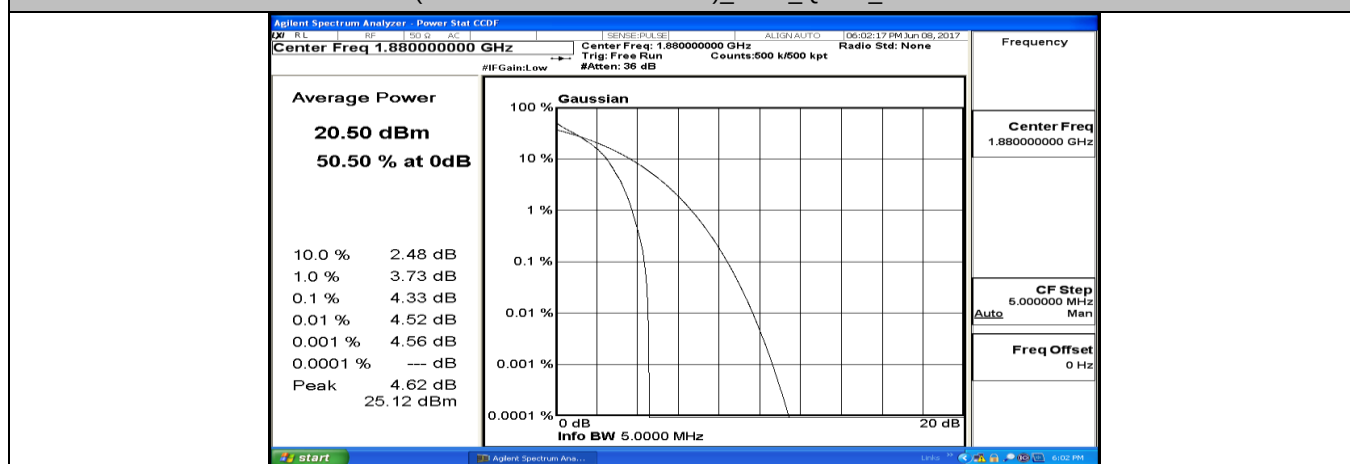
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



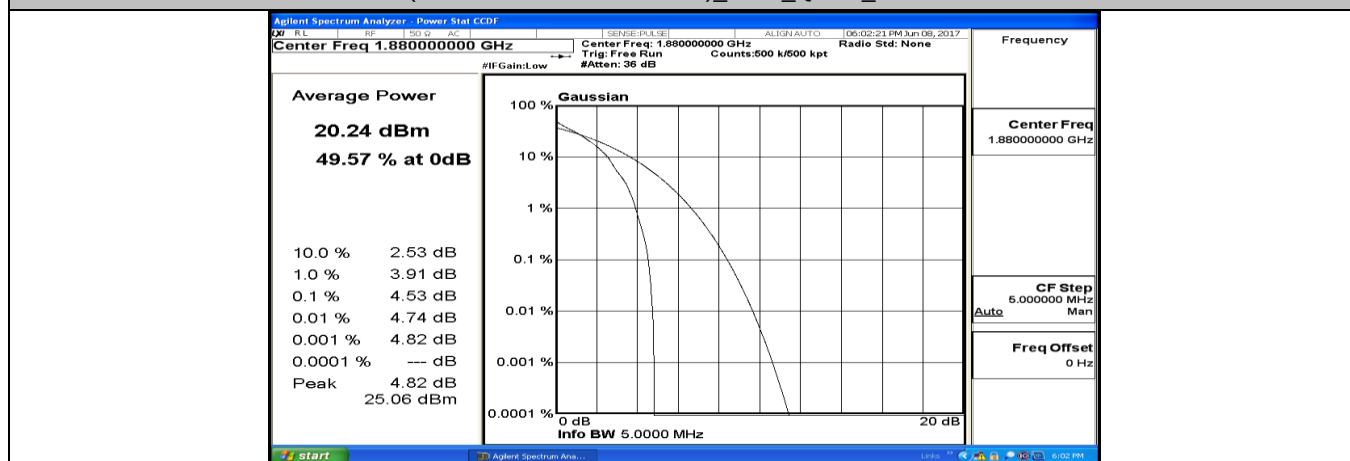
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



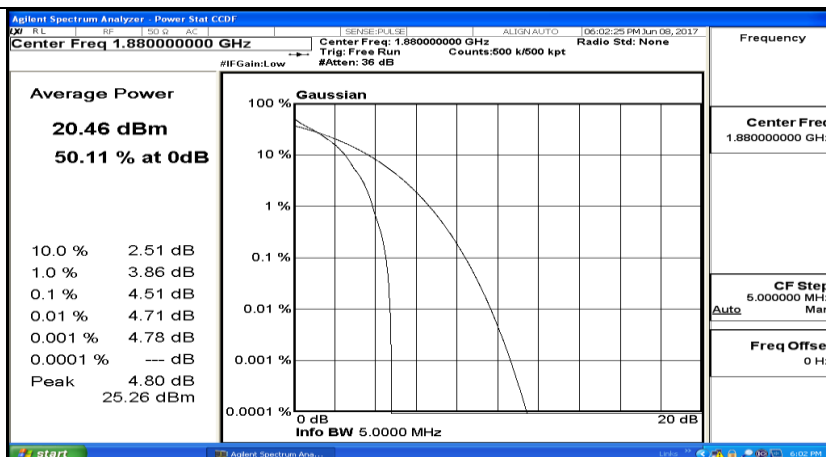
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0



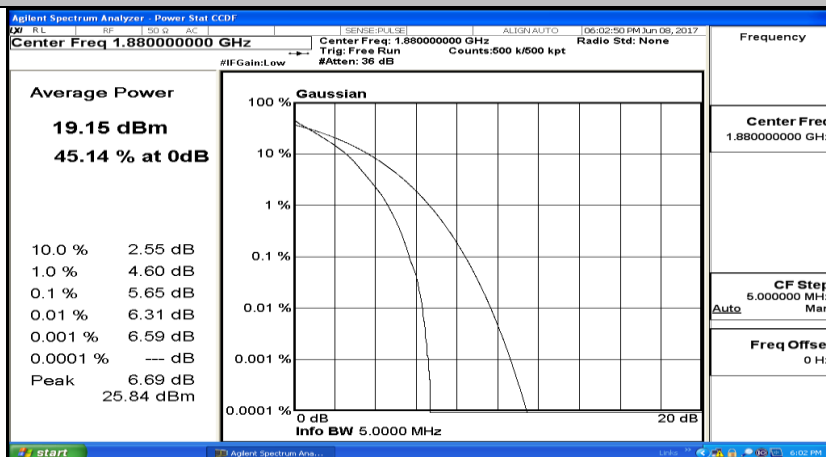
(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12



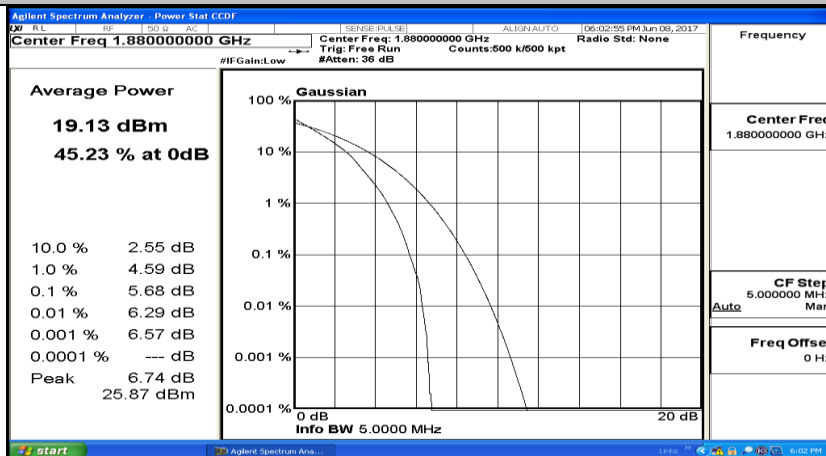
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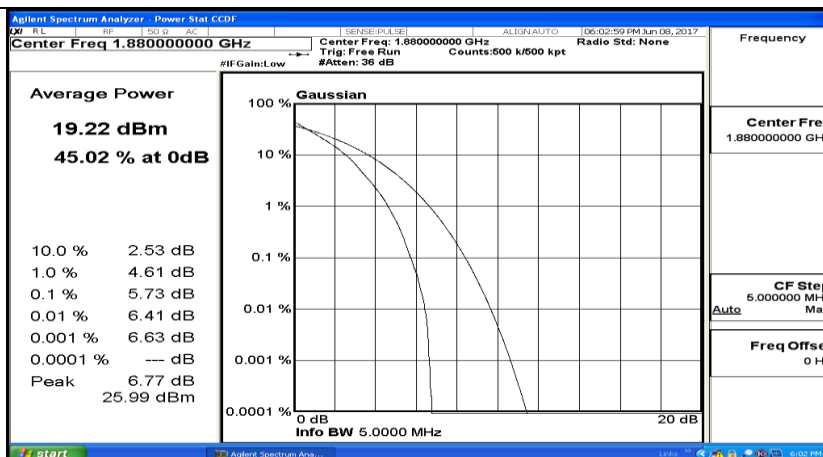
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#0



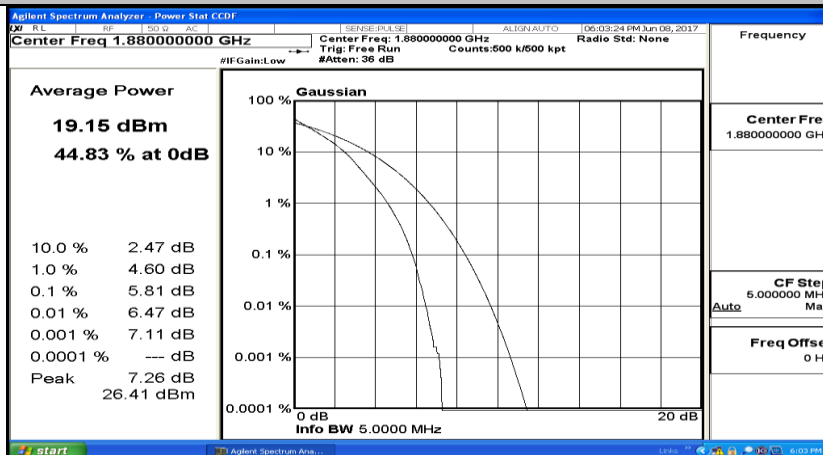
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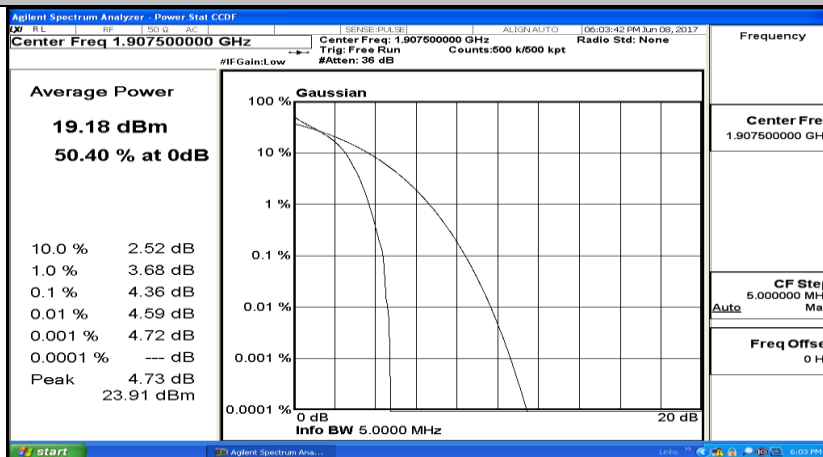
(Channel Bandwidth: 5 MHz)_MCH_QPSK_12RB#13



(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12