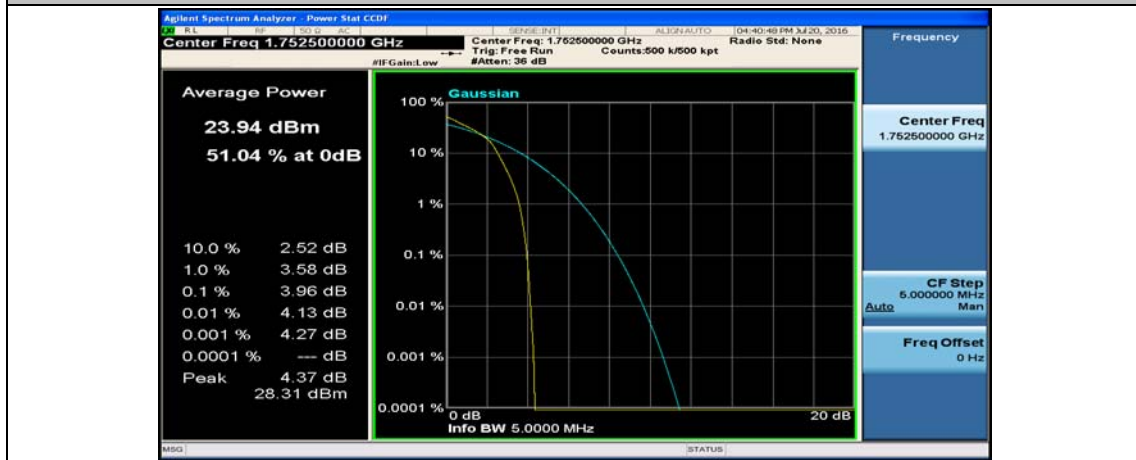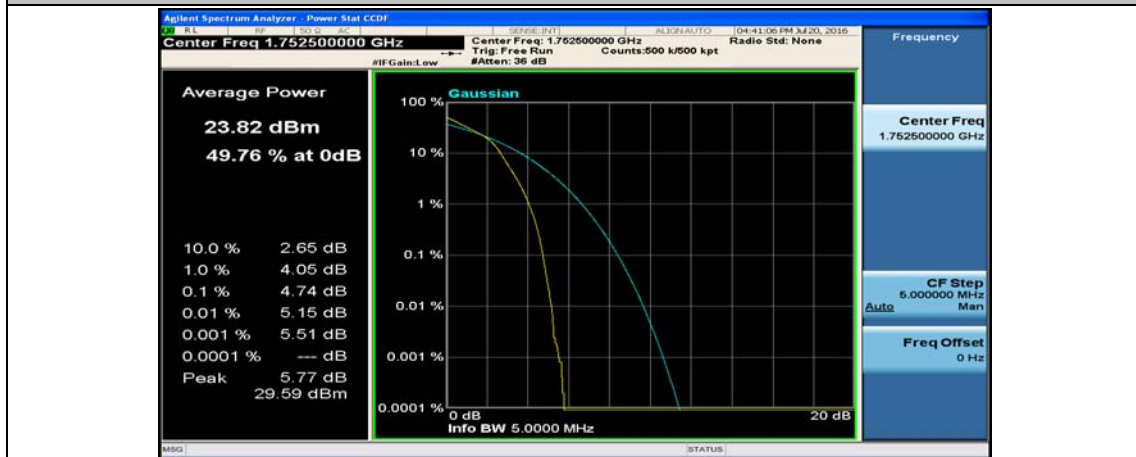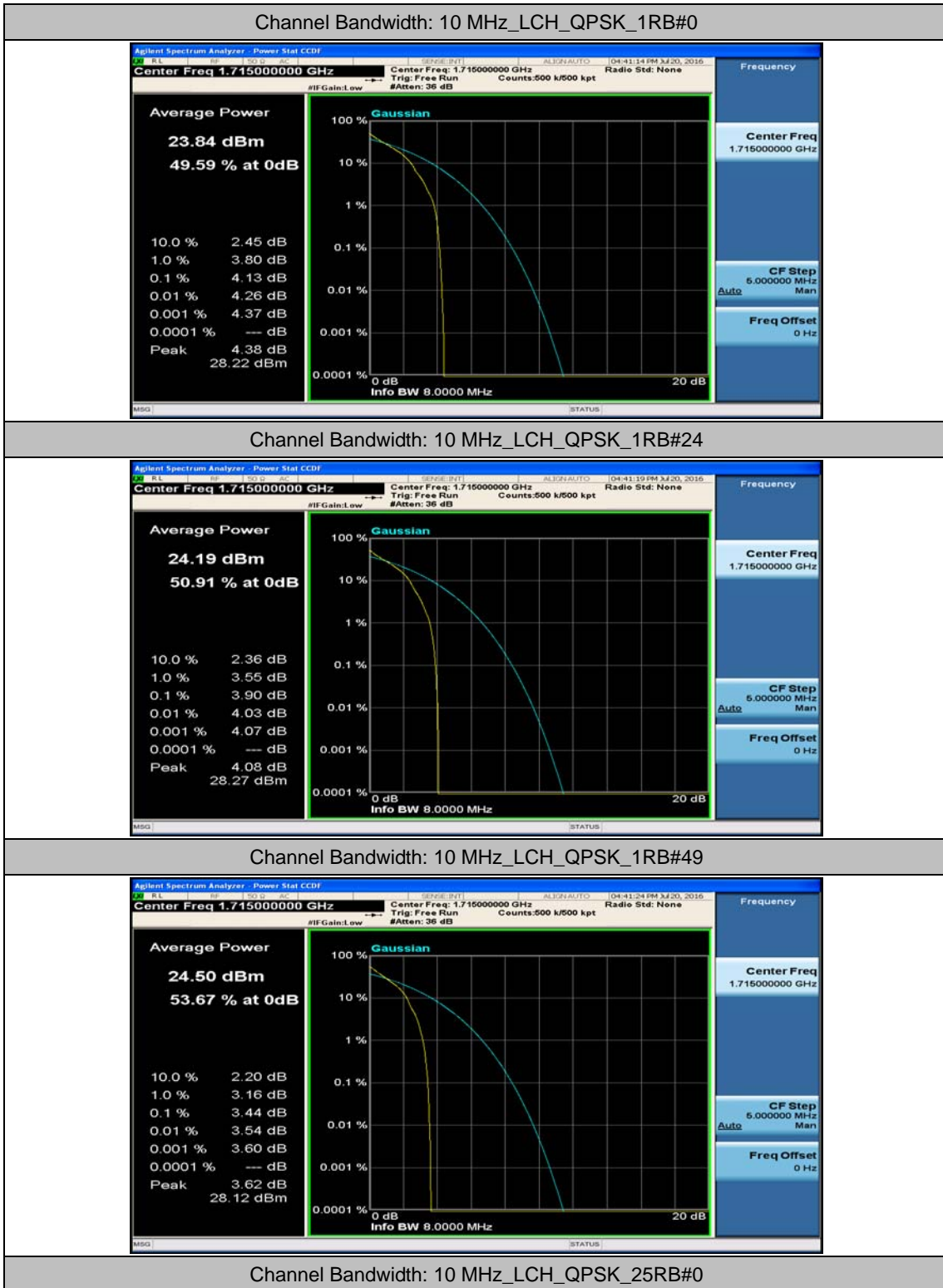(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

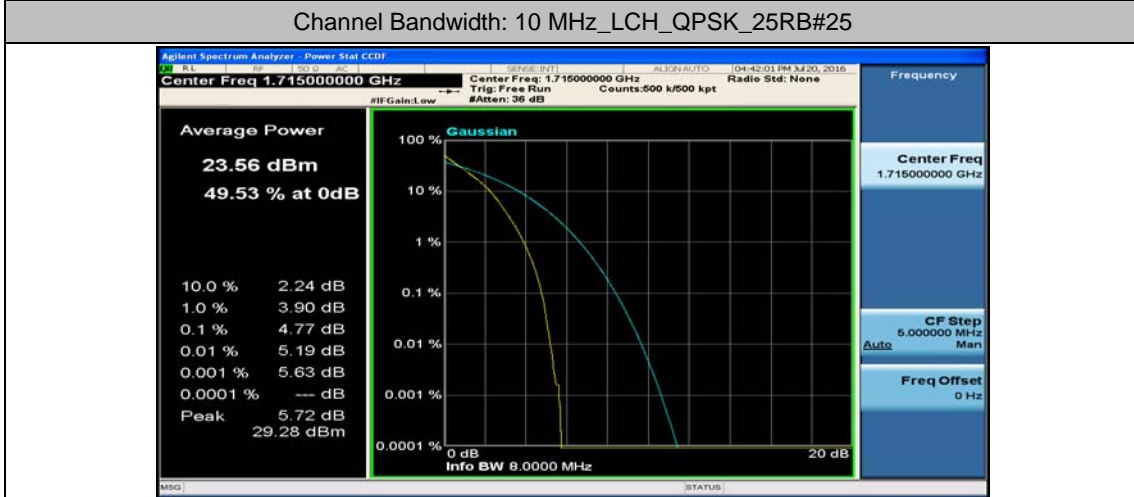(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49
Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_LCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_MCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0

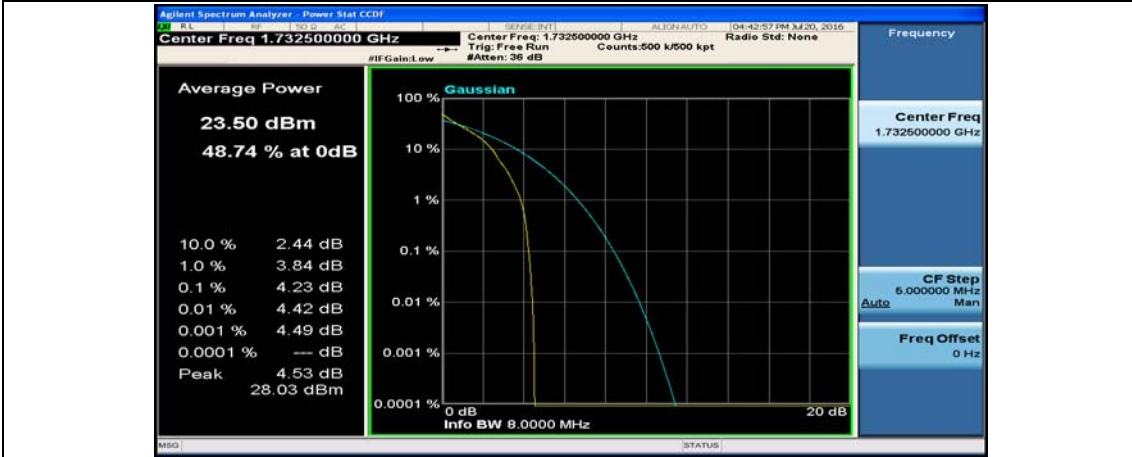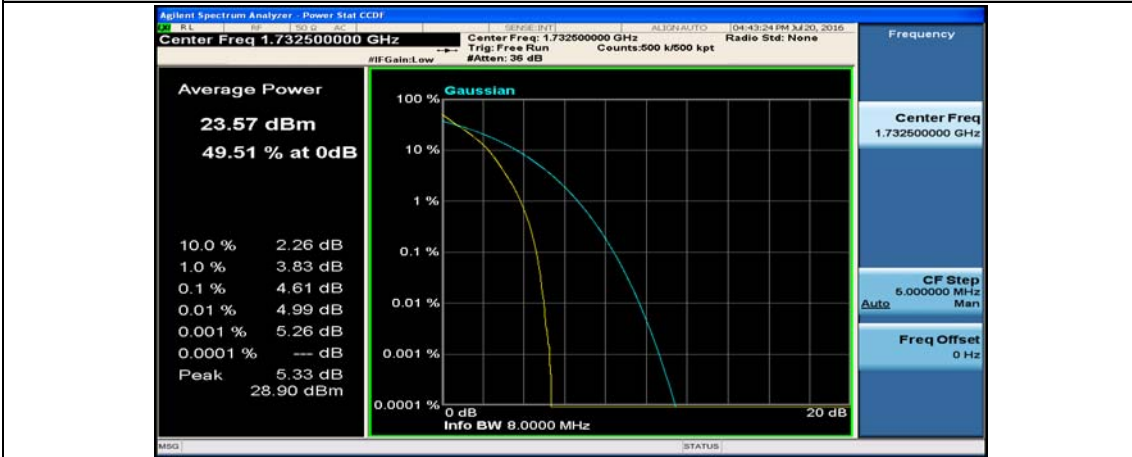| Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0 |
|---|

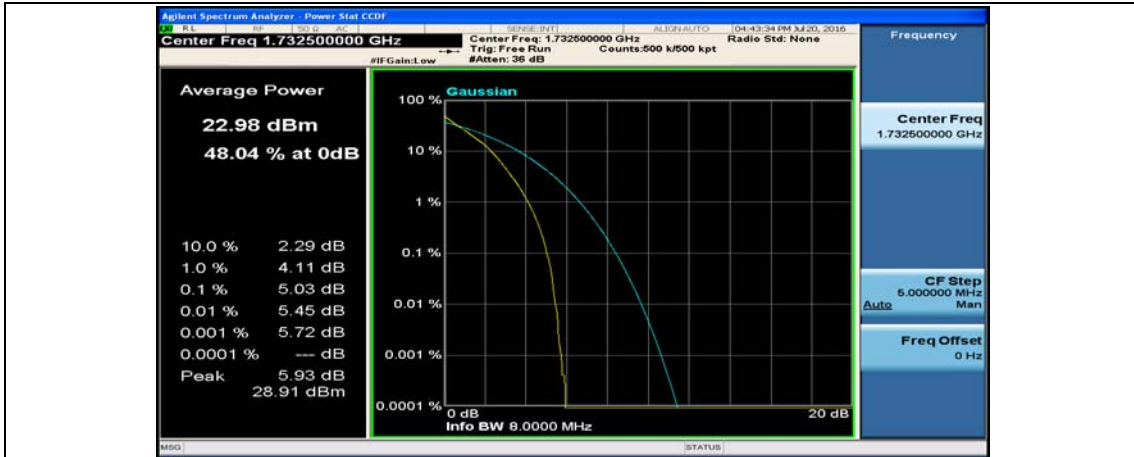| Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24 |
|---|

Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12

Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#25

Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#0
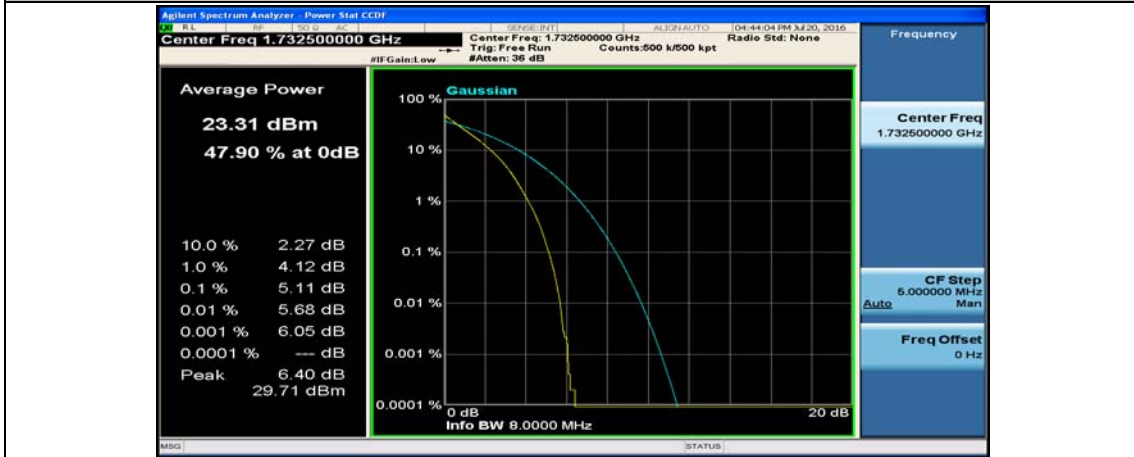

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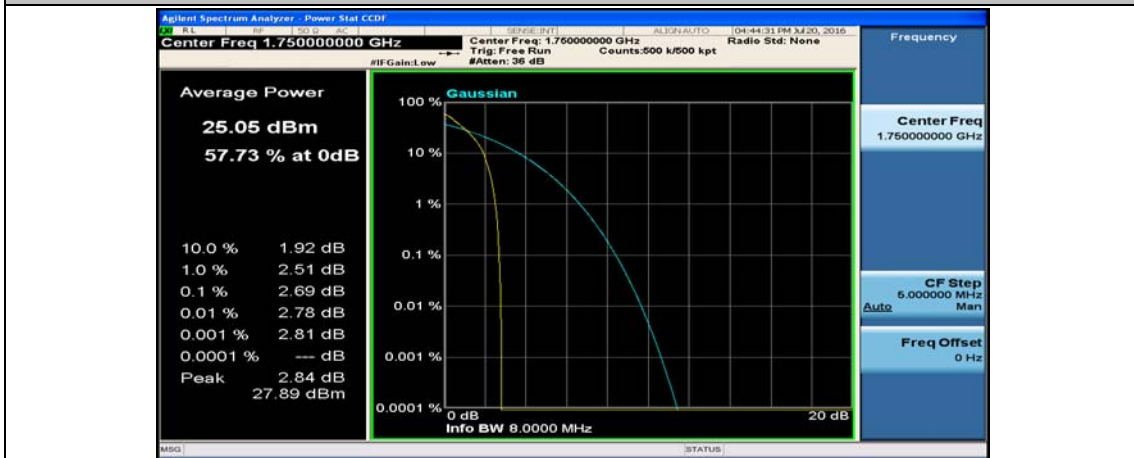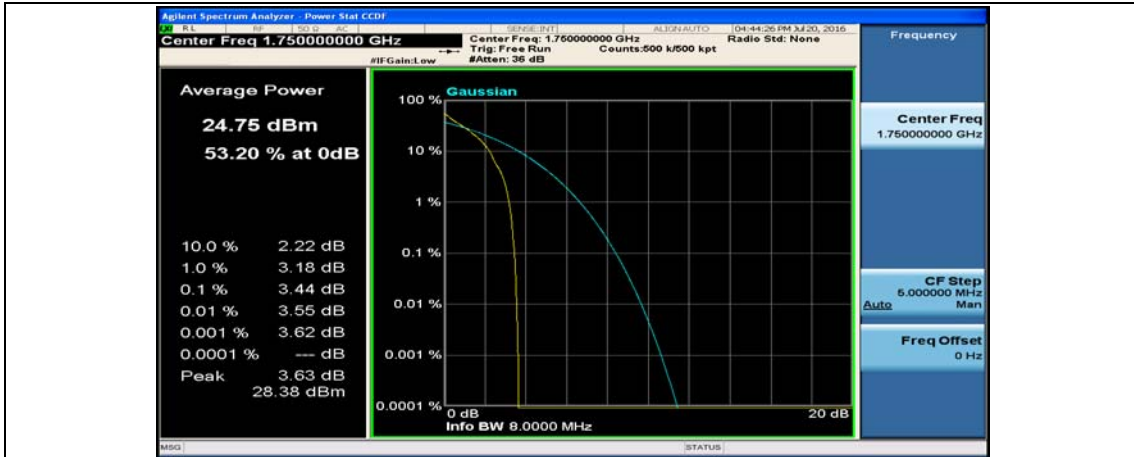

Channel Bandwidth: 10 MHz_MCH_16QAM_25RB#25
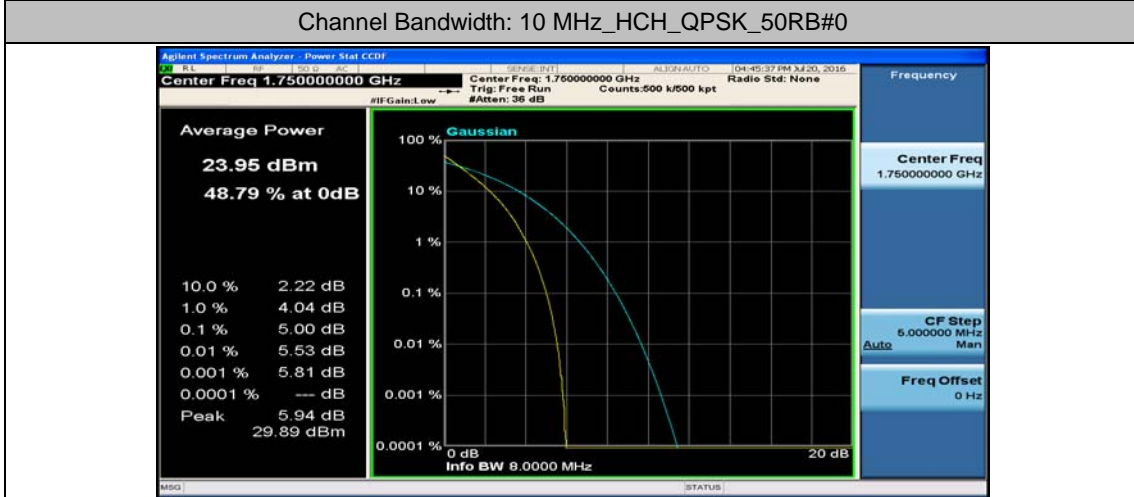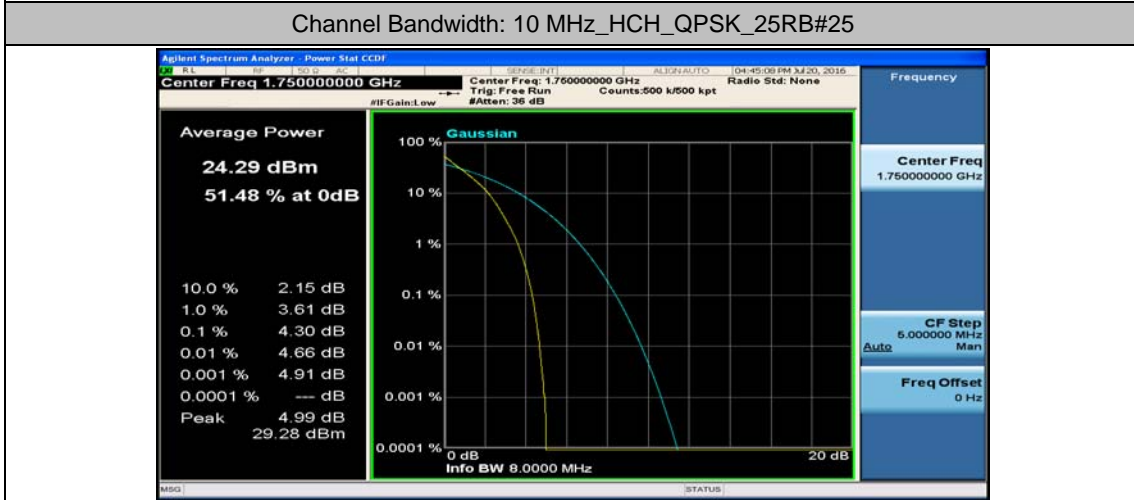
Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0
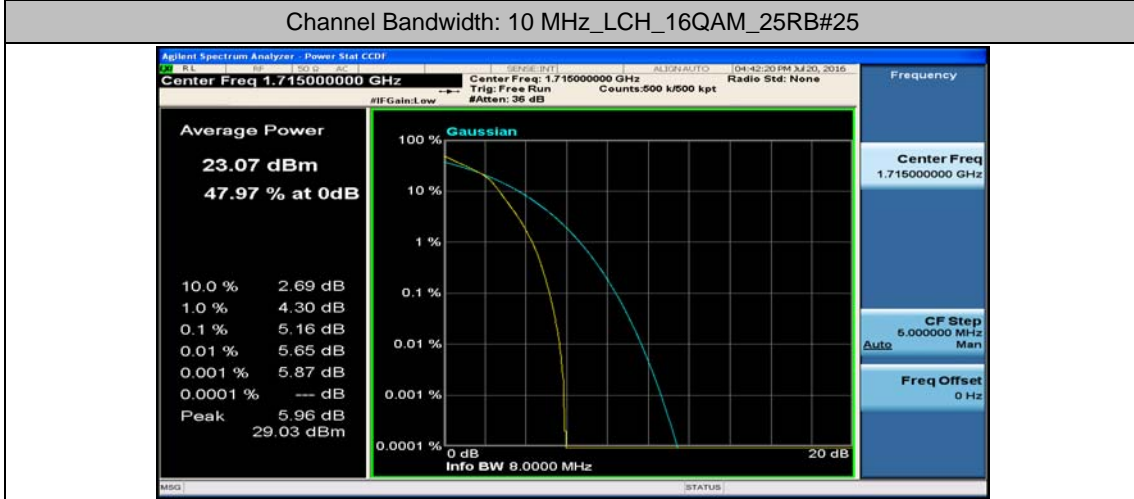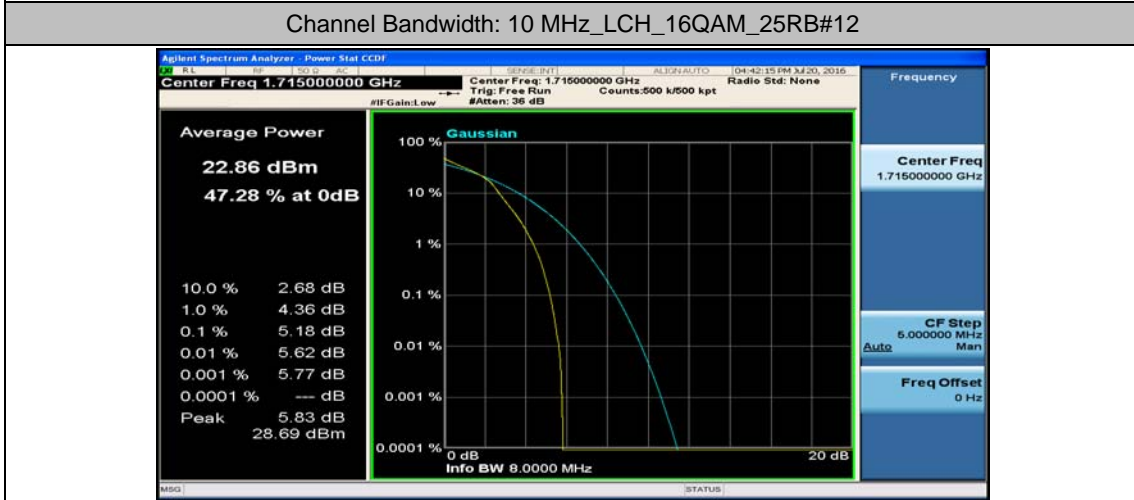

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24

Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12

Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25

Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

Channel Bandwidth: 15 MHz

(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#0
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#37
(Channel Bandwidth:15 MHz)_LCH_QPSK_1RB#74
(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#0

(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#18

(Channel Bandwidth:15 MHz)_LCH_QPSK_37RB#38

(Channel Bandwidth:15 MHz)_LCH_QPSK_75RB#0

(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#0

(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#37

(Channel Bandwidth:15 MHz)_MCH_QPSK_1RB#74

(Channel Bandwidth:15 MHz)_MCH_QPSK_37RB#0

(Channel Bandwidth:15 MHz)_MCH_QPSK_37RB#18

(Channel Bandwidth:15 MHz)_MCH_QPSK_37RB#38

(Channel Bandwidth:15 MHz)_MCH_QPSK_75RB#0

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#37

(Channel Bandwidth:15 MHz)_HCH_QPSK_1RB#74

(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#0

(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#18

(Channel Bandwidth:15 MHz)_HCH_QPSK_37RB#38

(Channel Bandwidth:15 MHz)_HCH_QPSK_75RB#0

(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#37

(Channel Bandwidth:15 MHz)_LCH_16QAM_1RB#74

(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#0

(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#18

(Channel Bandwidth:15 MHz)_LCH_16QAM_37RB#38

(Channel Bandwidth:15 MHz)_LCH_16QAM_75RB#0

(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#0
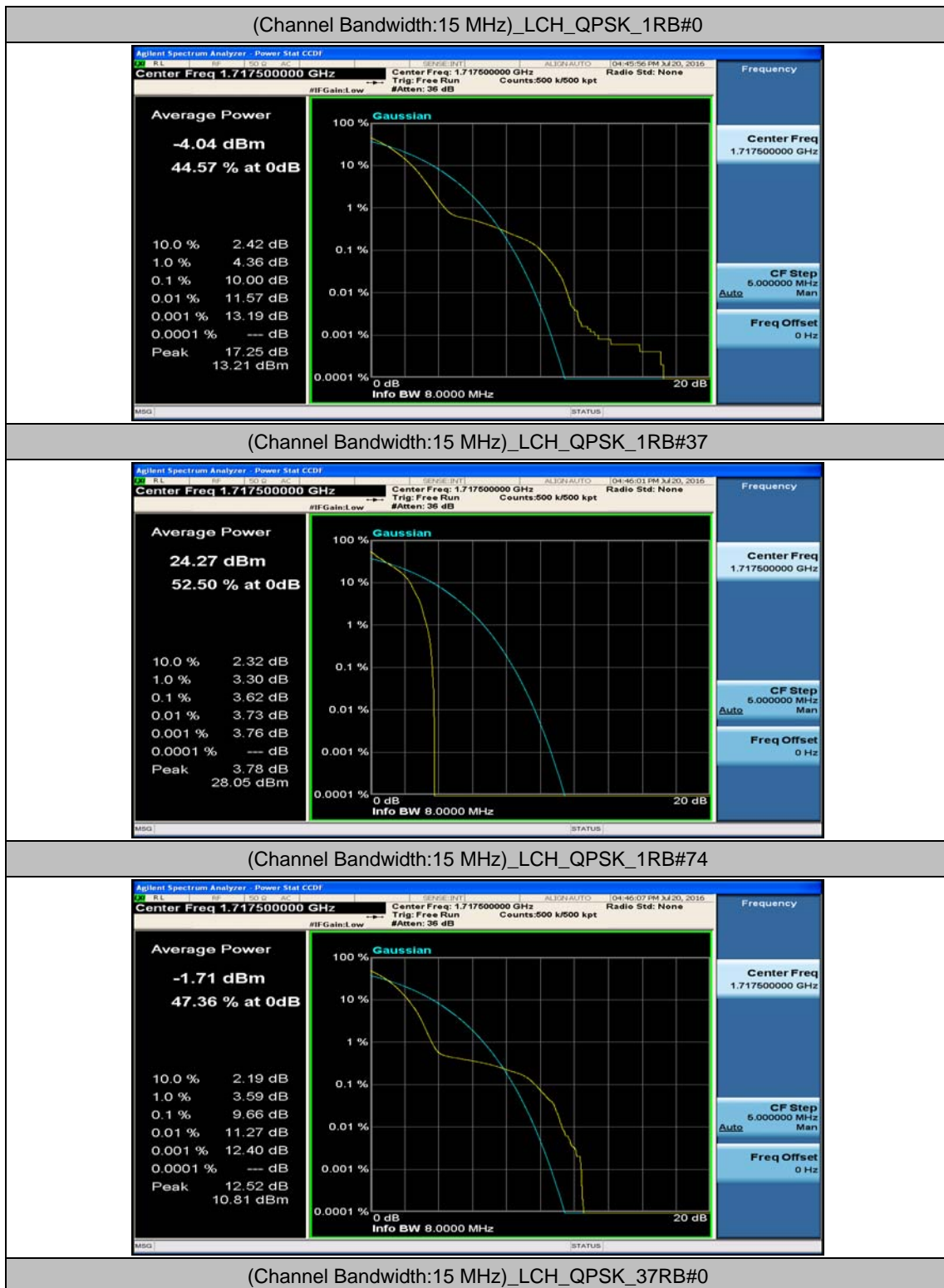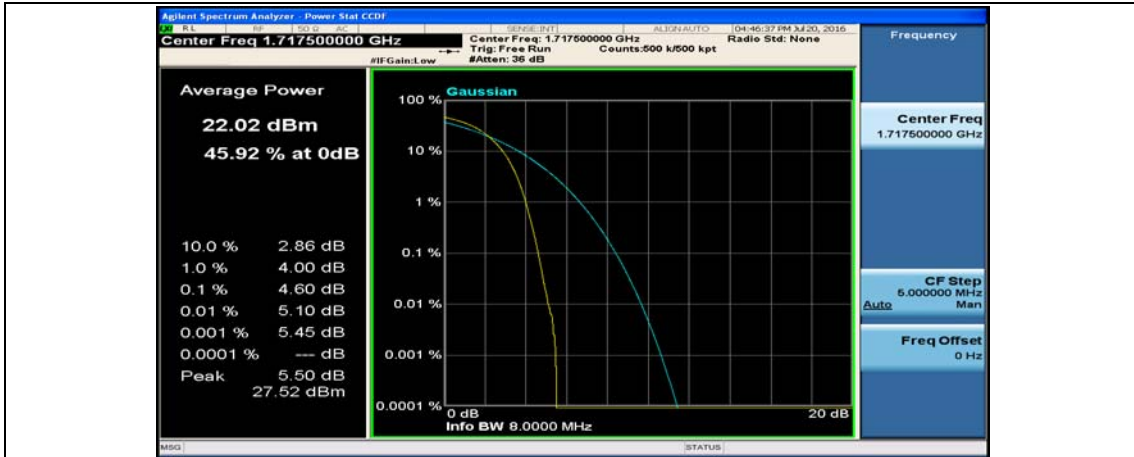

(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#37

(Channel Bandwidth:15 MHz)_MCH_16QAM_1RB#74
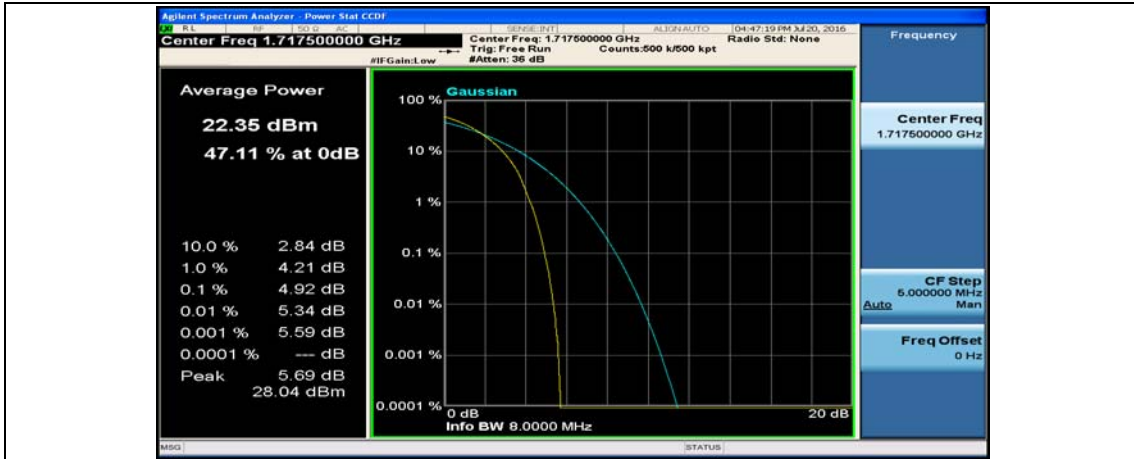
(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#0

(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#18

(Channel Bandwidth:15 MHz)_MCH_16QAM_37RB#38

(Channel Bandwidth:15 MHz)_MCH_16QAM_75RB#0
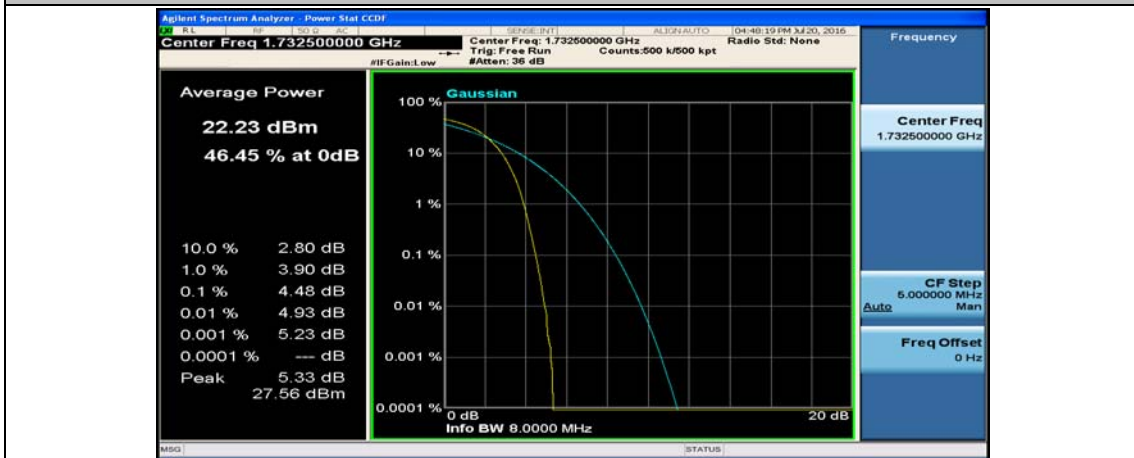

(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#0

(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#37

(Channel Bandwidth:15 MHz)_HCH_16QAM_1RB#74
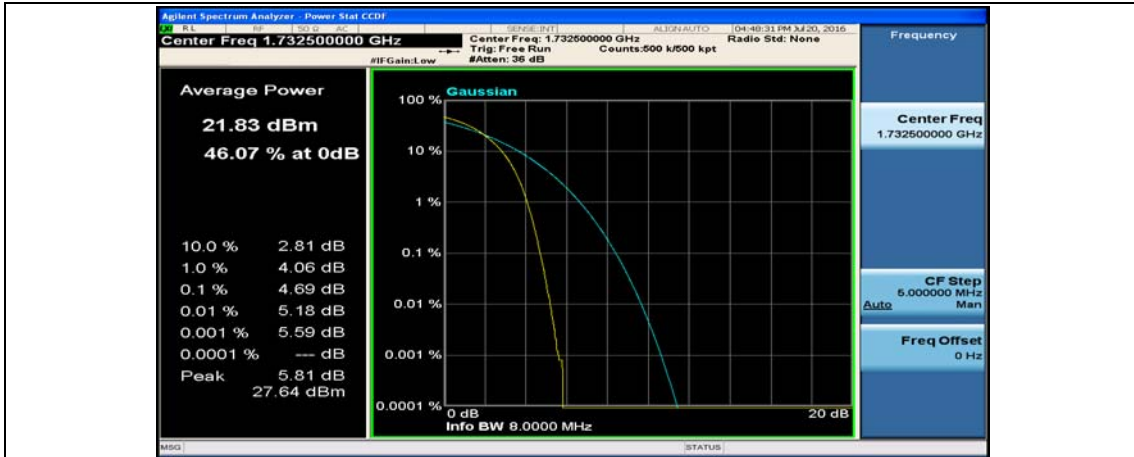

(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#0

(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#18

(Channel Bandwidth:15 MHz)_HCH_16QAM_37RB#38

(Channel Bandwidth:15 MHz)_HCH_16QAM_75RB#0

Channel Bandwidth: 20 MHz

(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#0
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#49
(Channel Bandwidth:20 MHz)_LCH_QPSK_1RB#99
(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#0

(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#25

(Channel Bandwidth:20 MHz)_LCH_QPSK_50RB#50

(Channel Bandwidth:20 MHz)_LCH_QPSK_100RB#0

(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#0

(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#49

(Channel Bandwidth:20 MHz)_MCH_QPSK_1RB#99

(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#0

(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#25

(Channel Bandwidth:20 MHz)_MCH_QPSK_50RB#50

(Channel Bandwidth:20 MHz)_MCH_QPSK_100RB#0

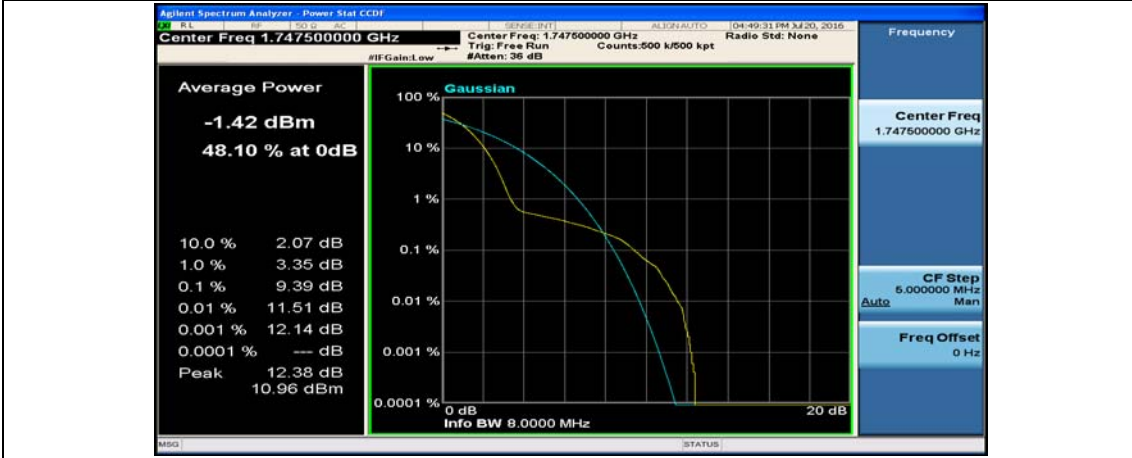(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#0

(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#49

(Channel Bandwidth:20 MHz)_HCH_QPSK_1RB#99

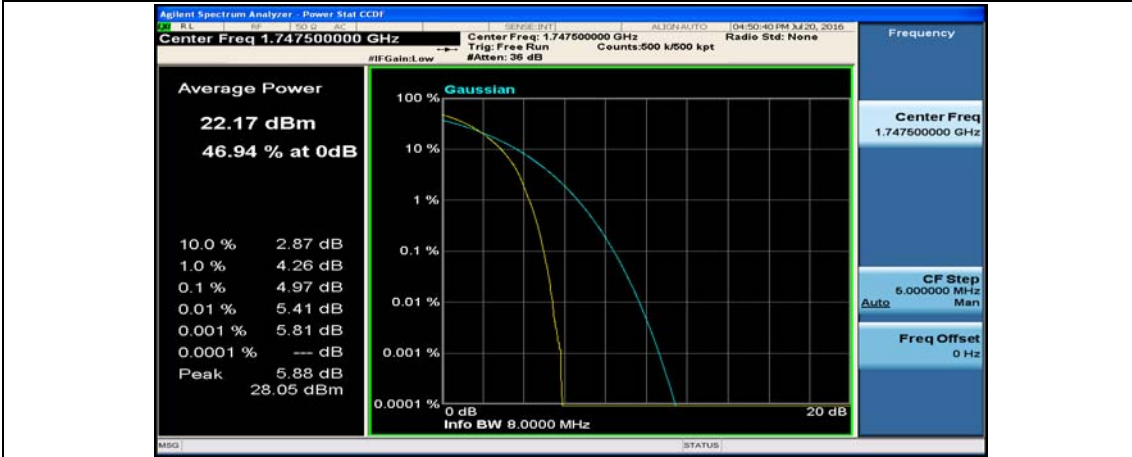
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(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#25

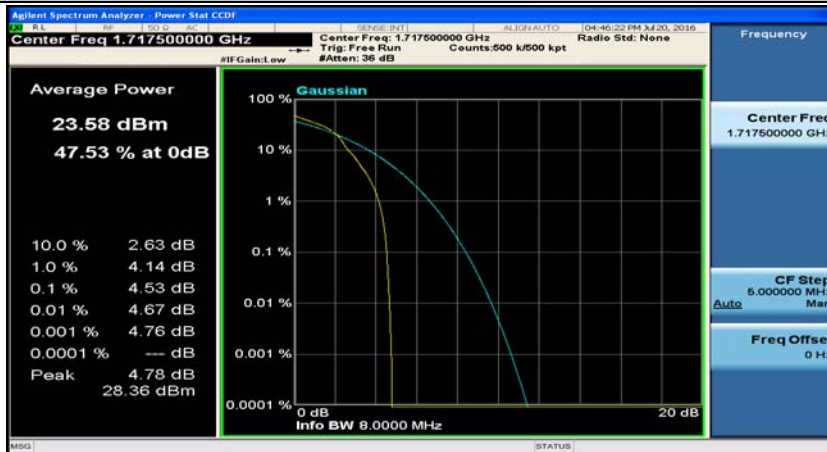(Channel Bandwidth:20 MHz)_HCH_QPSK_50RB#50

(Channel Bandwidth:20 MHz)_HCH_QPSK_100RB#0

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#49

(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#0

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#25

(Channel Bandwidth:20 MHz)_LCH_16QAM_50RB#50

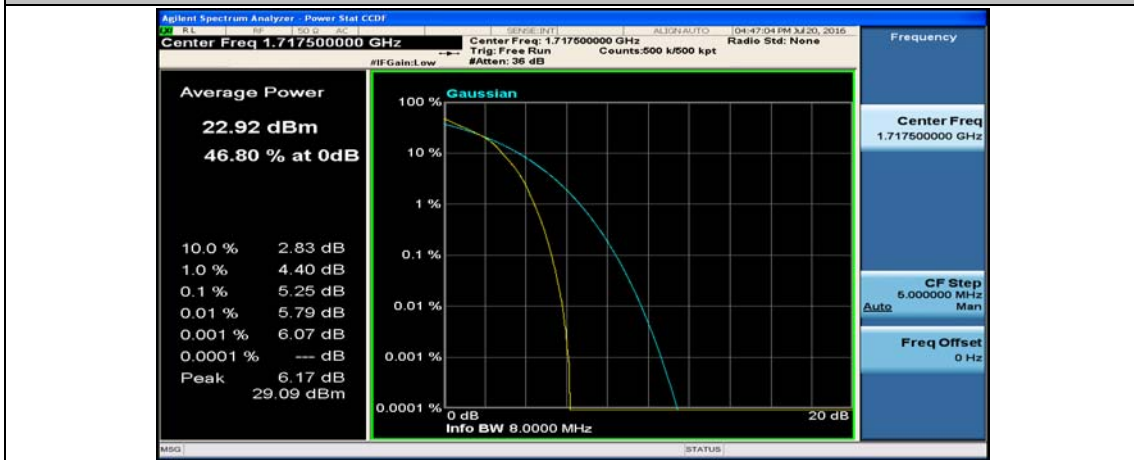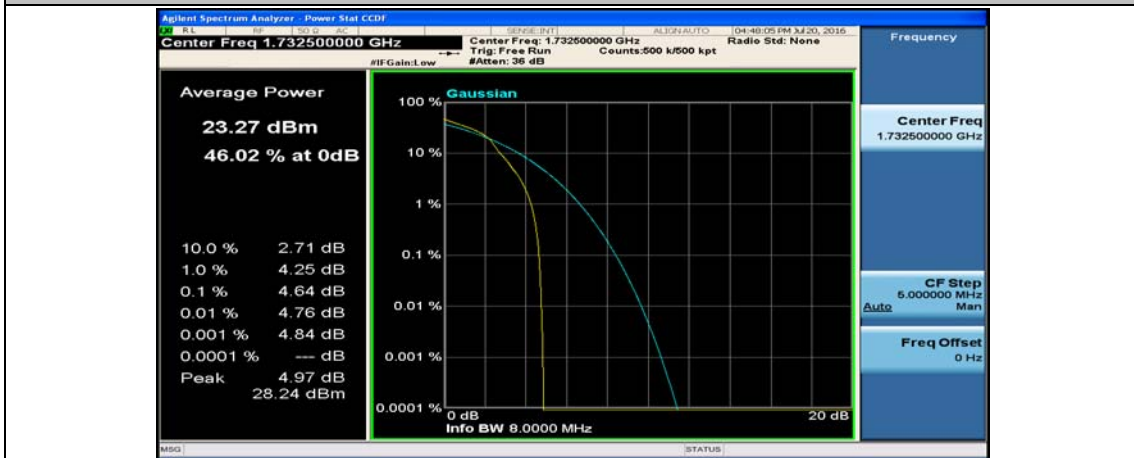(Channel Bandwidth:20 MHz)_LCH_16QAM_100RB#0

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#0
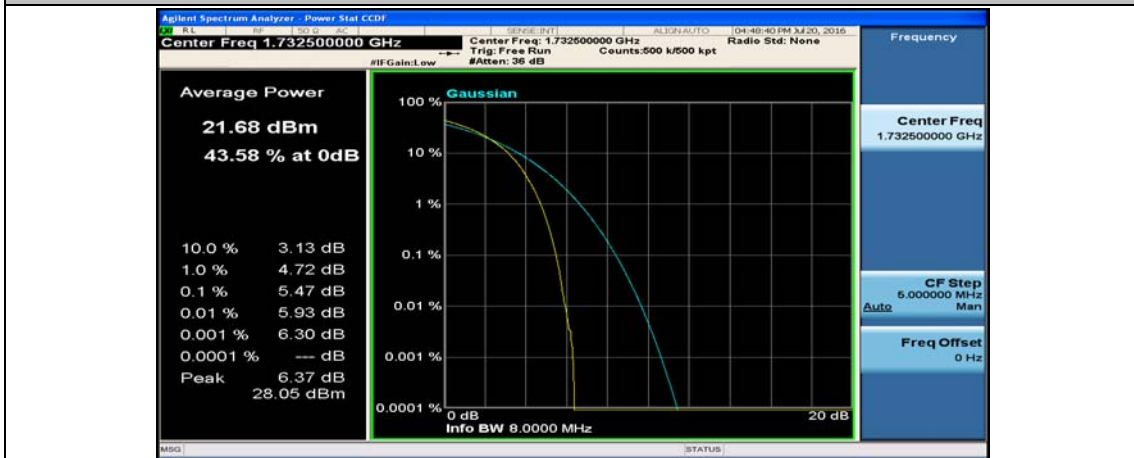

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#49

(Channel Bandwidth:20 MHz)_MCH_16QAM_1RB#99

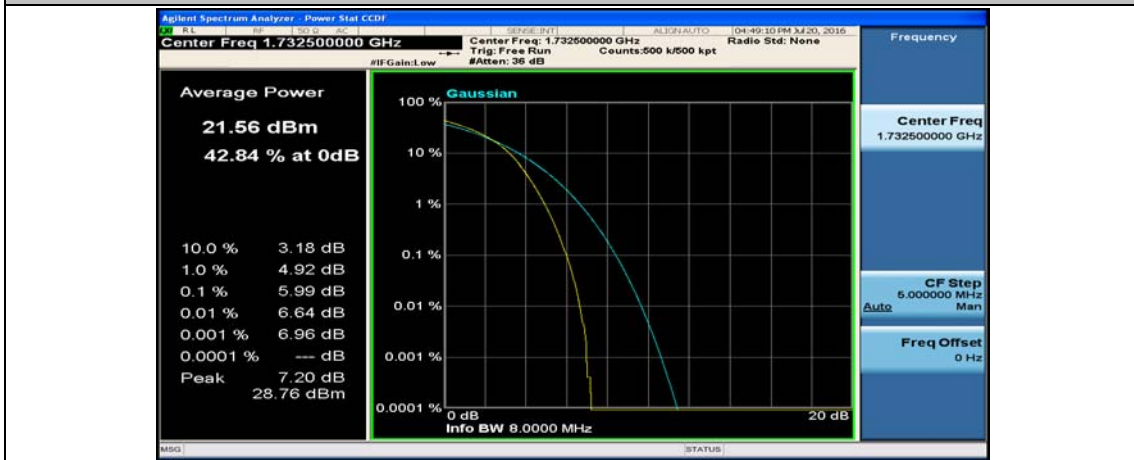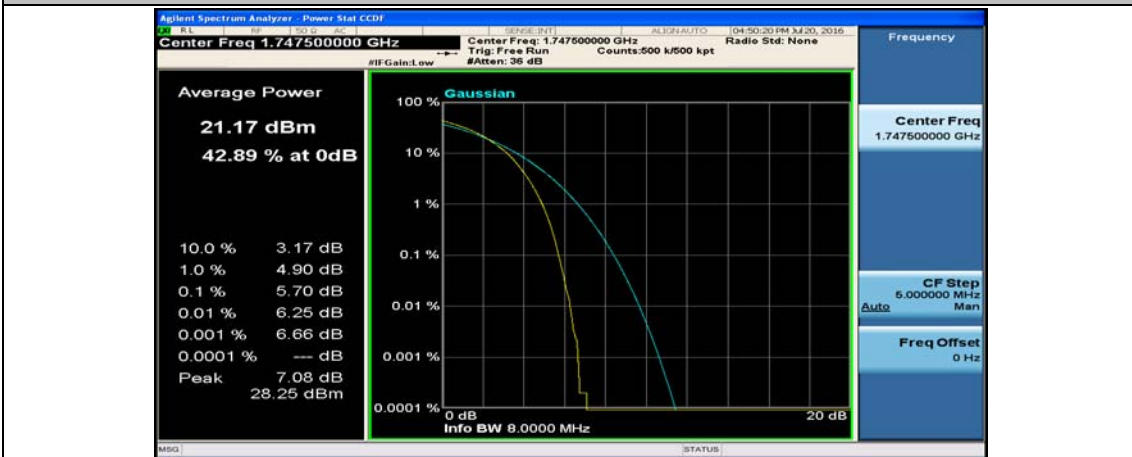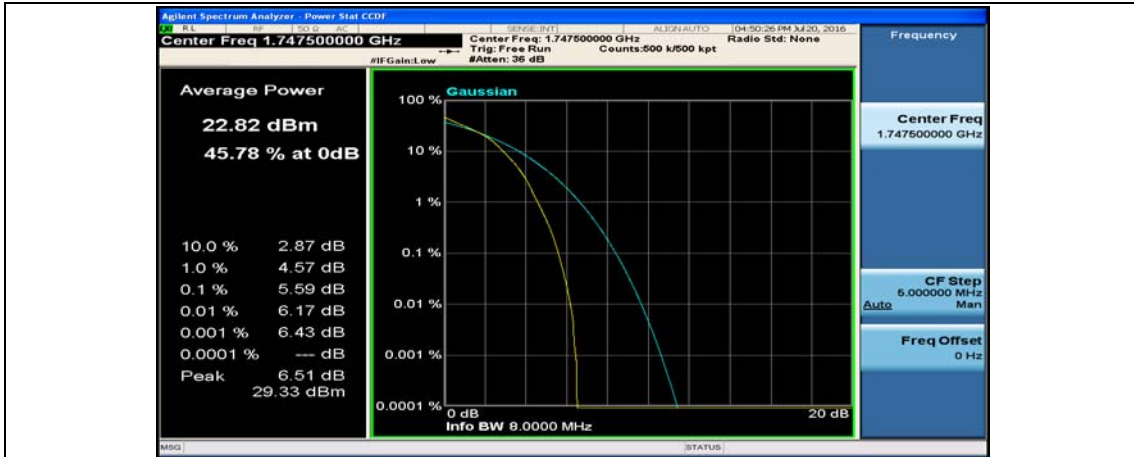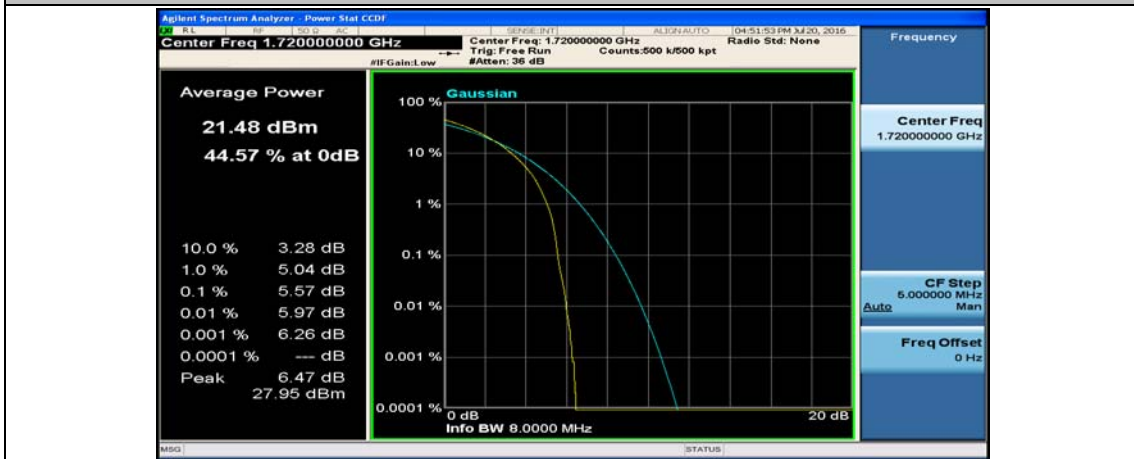(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#0

(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#25

(Channel Bandwidth:20 MHz)_MCH_16QAM_50RB#50

Agilent Spectrum Analyzer - Power Stat CCDF
LXI R L   RF   50 Ω   AC   SENSE:INT   ALIGN AUTO   04:53:52 PM Jul 20, 2016
Center Freq 1.732500000 GHz   Center Freq: 1.732500000 GHz   Radio Std: None
                                   Trig: Free Run   Counts:500 k/500 kpt
#IFGain:Low   #Atten: 36 dB

Frequency

Average Power
20.02 dBm
41.46 % at 0dB

Center Freq
1.732500000 GHz

10.0 %	3.49 dB
1.0 %	5.45 dB
0.1 %	6.43 dB
0.01 %	7.15 dB
0.001 %	7.65 dB
0.0001 %	--- dB
Peak	7.88 dB
	27.90 dBm

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

100 %   Gaussian
Info BW 8.0000 MHz
MSG   STATUS

(Channel Bandwidth:20 MHz)_MCH_16QAM_100RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
LXI R L   RF   50 Ω   AC   SENSE:INT   ALIGN AUTO   04:54:11 PM Jul 20, 2016
Center Freq 1.732500000 GHz   Center Freq: 1.732500000 GHz   Radio Std: None
                                   Trig: Free Run   Counts:500 k/500 kpt
#IFGain:Low   #Atten: 36 dB

Frequency

Average Power
20.22 dBm
39.75 % at 0dB

Center Freq
1.732500000 GHz

10.0 %	3.51 dB
1.0 %	5.52 dB
0.1 %	6.61 dB
0.01 %	7.47 dB
0.001 %	7.84 dB
0.0001 %	--- dB
Peak	8.28 dB
	28.50 dBm

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

100 %   Gaussian
Info BW 8.0000 MHz
MSG   STATUS

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#0

Agilent Spectrum Analyzer - Power Stat CCDF
LXI R L   RF   50 Ω   AC   SENSE:INT   ALIGN AUTO   04:54:43 PM Jul 20, 2016
Center Freq 1.745000000 GHz   Center Freq: 1.745000000 GHz   Radio Std: None
                                   Trig: Free Run   Counts:500 k/500 kpt
#IFGain:Low   #Atten: 36 dB

Frequency

Average Power
-27.13 dBm
38.99 % at 0dB

Center Freq
1.745000000 GHz

10.0 %	3.18 dB
1.0 %	5.98 dB
0.1 %	9.10 dB
0.01 %	12.83 dB
0.001 %	15.02 dB
0.0001 %	--- dB
Peak	18.36 dB
	-8.77 dBm

CF Step
5.000000 MHz
Auto   Man

Freq Offset
0 Hz

100 %   Gaussian
Info BW 8.0000 MHz
MSG   STATUS

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#49

(Channel Bandwidth:20 MHz)_HCH_16QAM_1RB#99

(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#0

(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#25
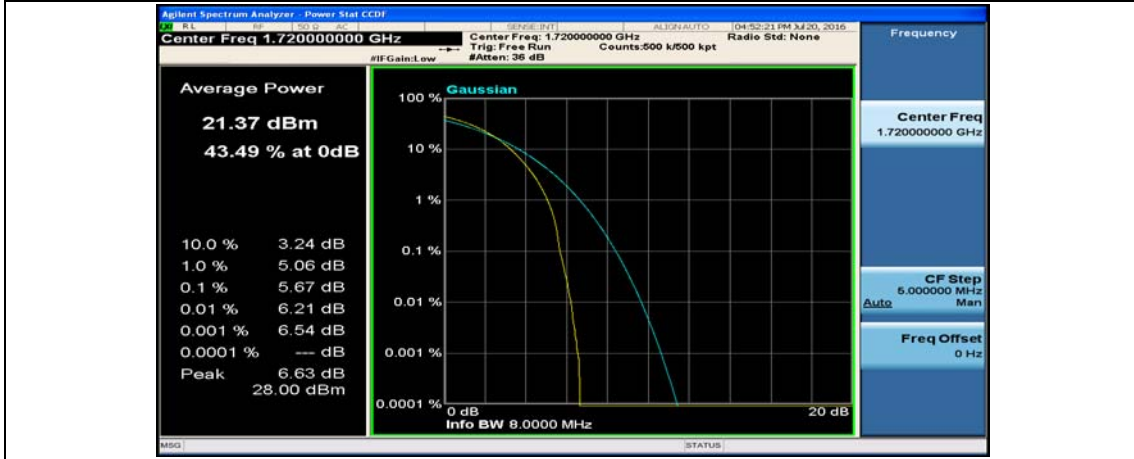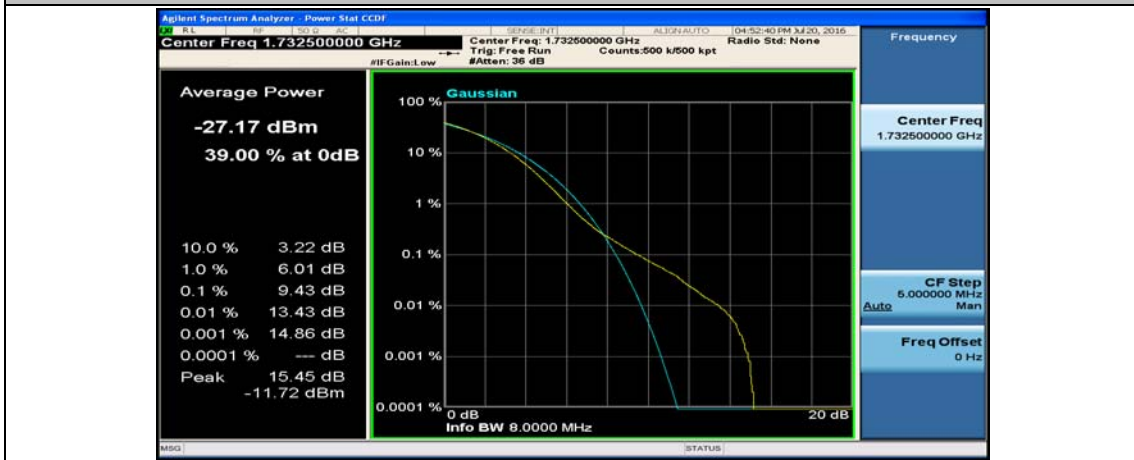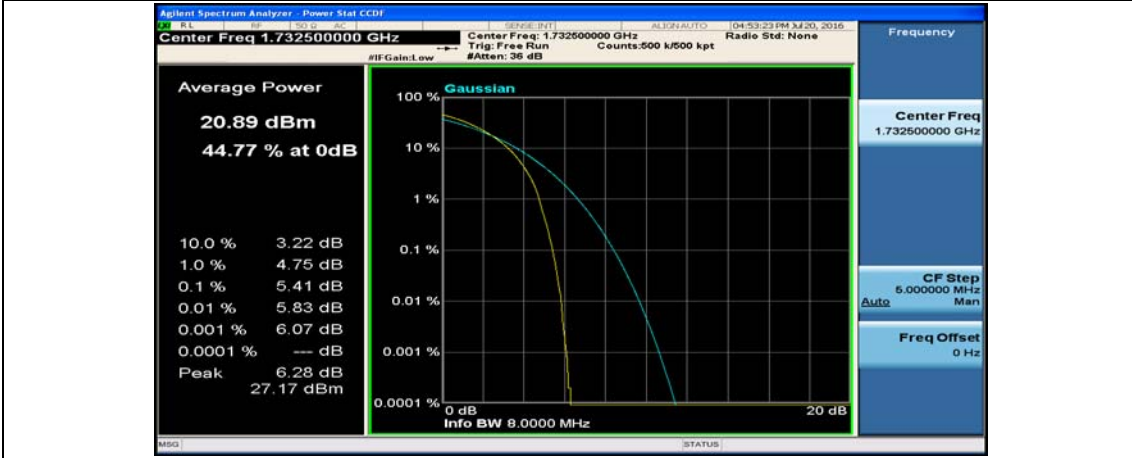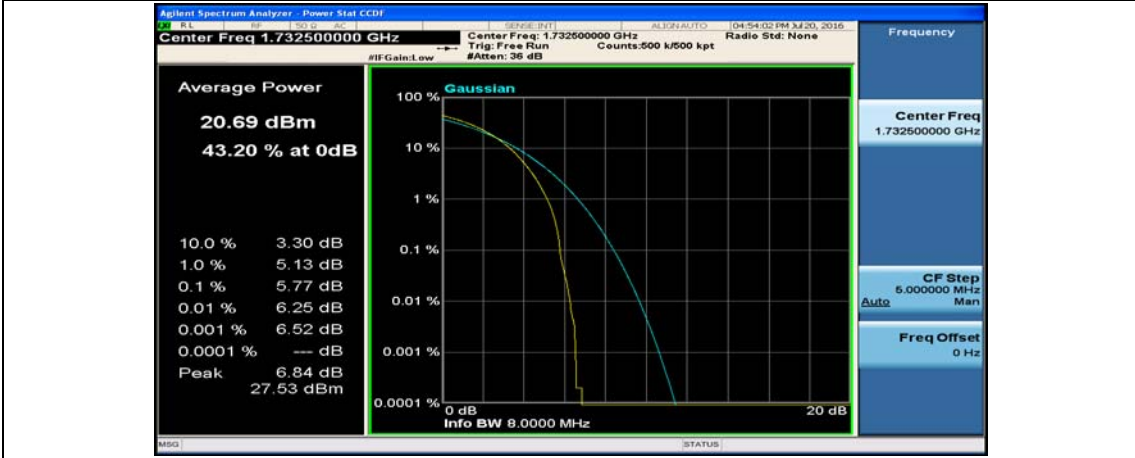
(Channel Bandwidth:20 MHz)_HCH_16QAM_50RB#50
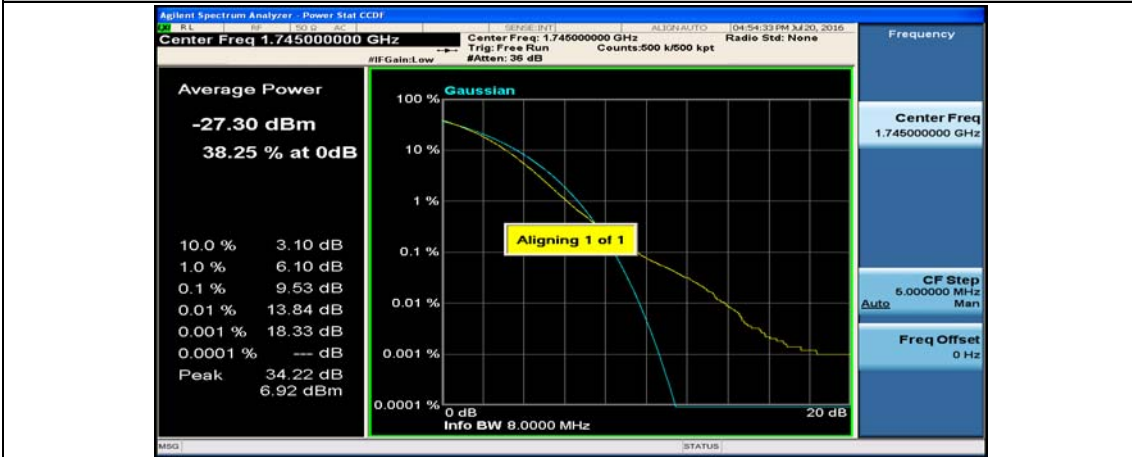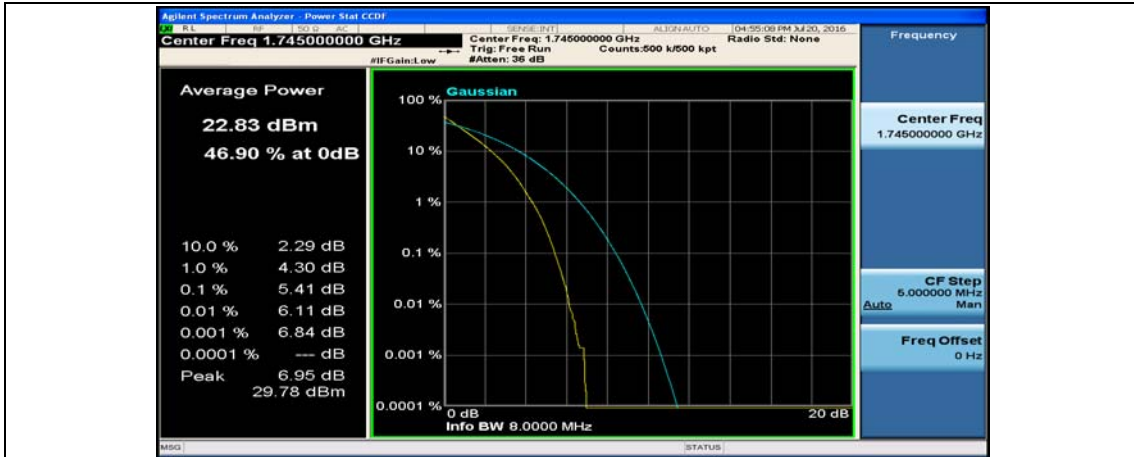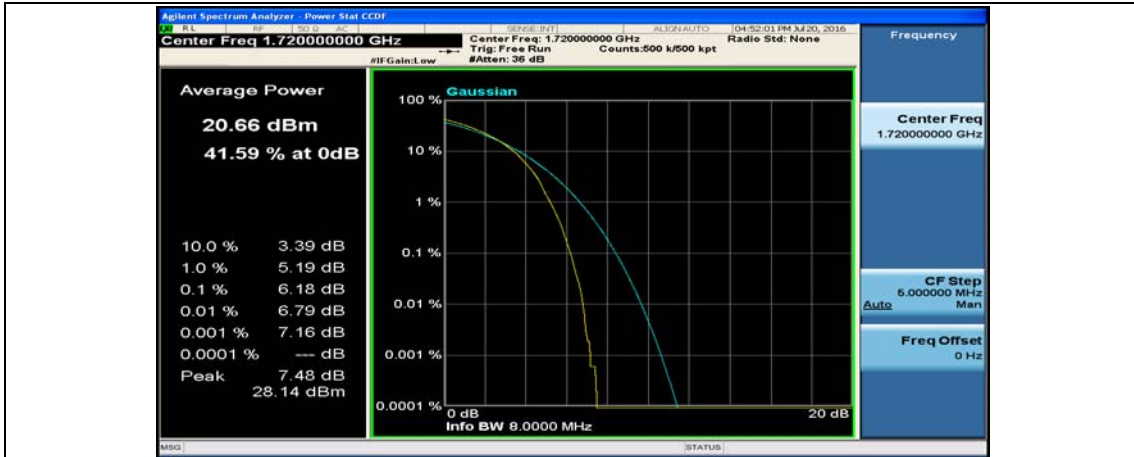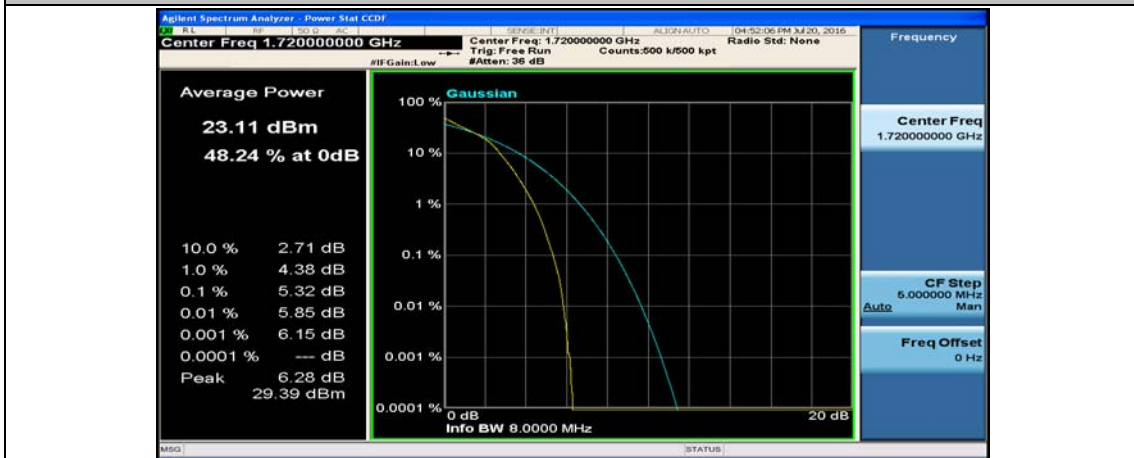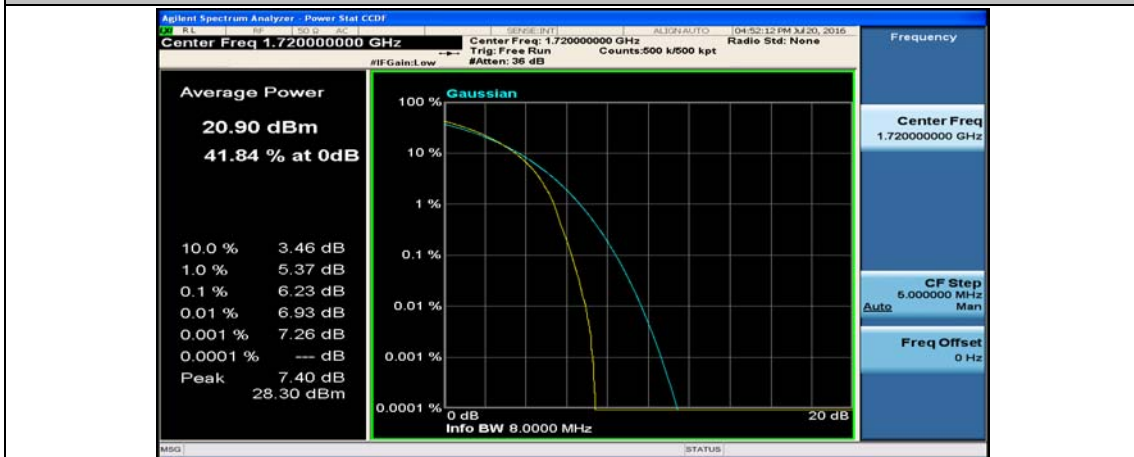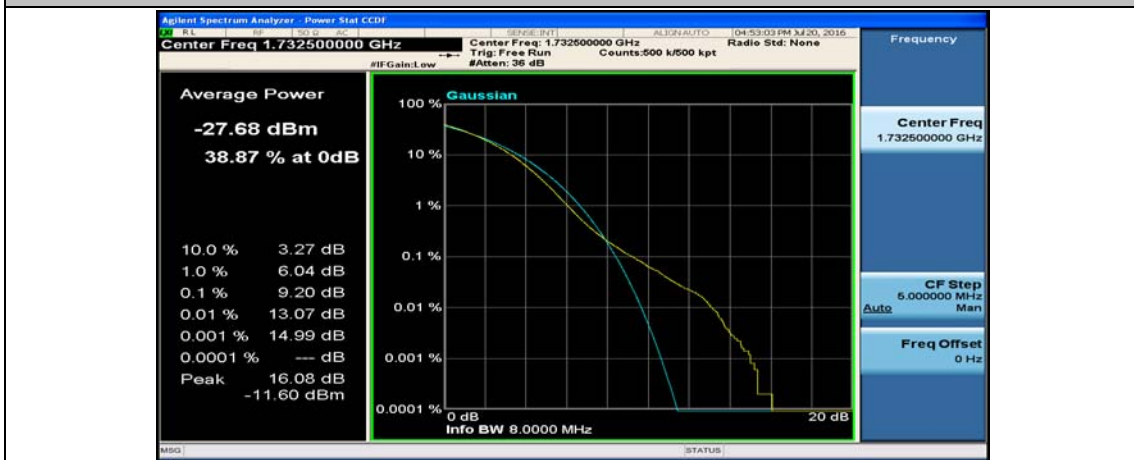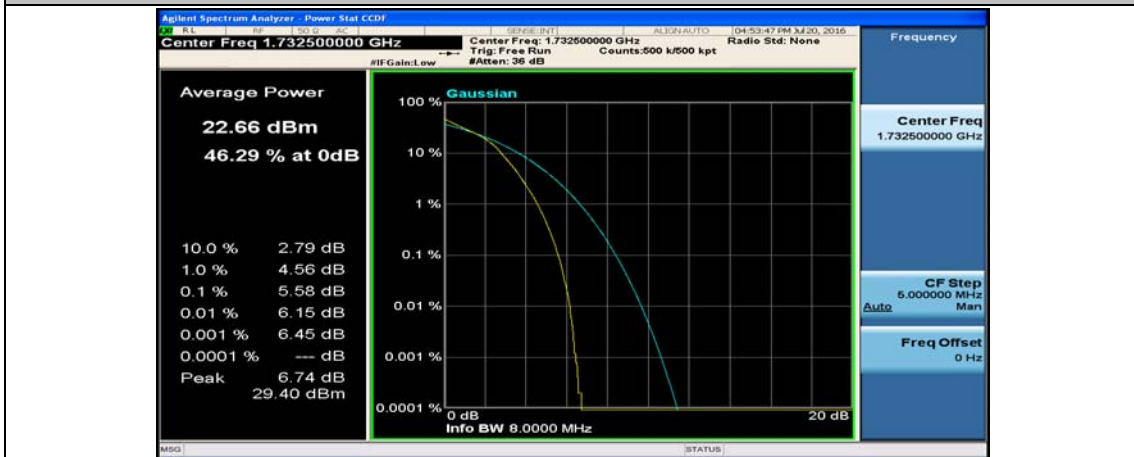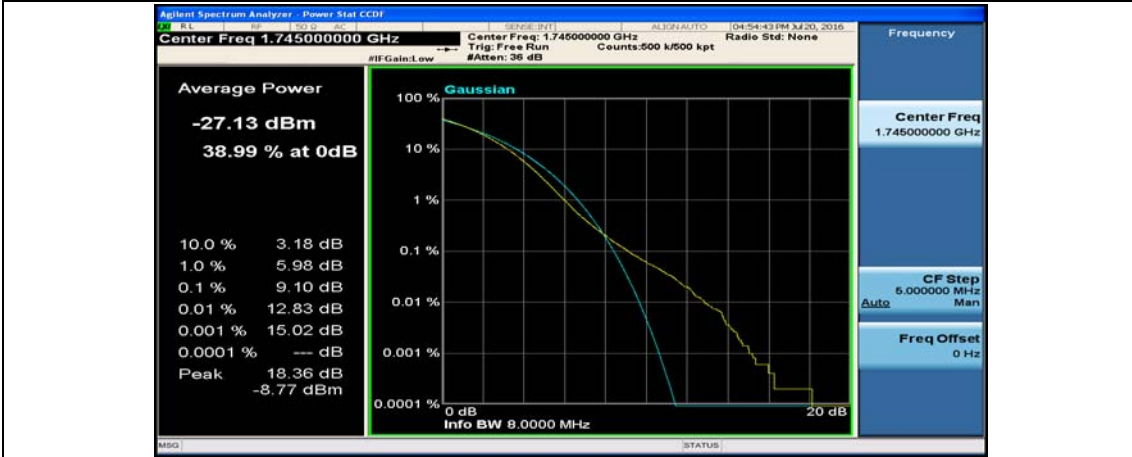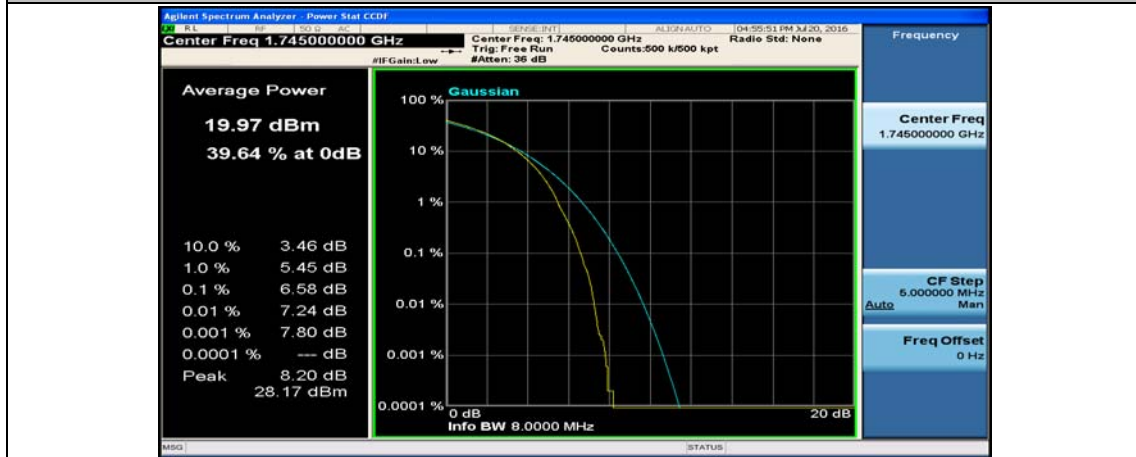

(Channel Bandwidth:20 MHz)_HCH_16QAM_100RB#0

Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	6	0	1.0800	1.227	PASS
	MCH	6	0	1.0770	1.235	PASS
	HCH	6	0	1.0833	1.372	PASS
16QAM	LCH	6	0	1.0807	1.220	PASS
	MCH	6	0	1.0804	1.236	PASS
	HCH	6	0	1.0868	1.706	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	15	0	2.6824	2.878	PASS
	MCH	15	0	2.6810	2.884	PASS
	HCH	15	0	2.6915	3.027	PASS
16QAM	LCH	15	0	2.6870	2.900	PASS
	MCH	15	0	2.6899	2.897	PASS
	HCH	15	0	2.6936	3.524	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	25	0	4.4743	4.802	PASS
	MCH	25	0	4.4808	4.867	PASS
	HCH	25	0	4.4873	4.837	PASS
16QAM	LCH	25	0	4.4865	4.825	PASS
	MCH	25	0	4.4879	4.798	PASS
	HCH	25	0	4.4912	4.889	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	50	0	8.9523	9.567	PASS
	MCH	50	0	8.9337	9.519	PASS
	HCH	50	0	8.9337	9.510	PASS
16QAM	LCH	50	0	8.9452	9.429	PASS
	MCH	50	0	8.9432	9.604	PASS
	HCH	50	0	8.9409	9.594	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	75	0	13.407	14.19	PASS
	MCH	75	0	13.420	14.06	PASS
	HCH	75	0	13.414	14.21	PASS
16QAM	LCH	75	0	13.418	14.17	PASS
	MCH	75	0	13.430	14.15	PASS
	HCH	75	0	13.425	14.08	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth	26dB Bandwidth	Verdict
		Size	Offset	(MHz)	(MHz)	
QPSK	LCH	100	0	17.846	18.65	PASS
	MCH	100	0	17.860	18.64	PASS
	HCH	100	0	17.908	18.75	PASS
16QAM	LCH	100	0	17.849	18.71	PASS
	MCH	100	0	17.882	18.61	PASS
	HCH	100	0	17.898	18.77	PASS

Test Graphs

Channel Bandwidth: 1.4 MHz

(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_6RB#0

(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_6RB#0

(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_6RB#0