

## Appendix for Band 12

### Appendix A: Average Power Output Data

#### Test Result

#### Channel Bandwidth: 5 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.27	PASS
		1	12	23.43	PASS
		1	24	23.43	PASS
		12	0	22.45	PASS
		12	6	22.45	PASS
		12	13	22.54	PASS
		25	0	22.41	PASS
	MCH	1	0	23.43	PASS
		1	12	23.61	PASS
		1	24	23.61	PASS
		12	0	22.59	PASS
		12	6	22.60	PASS
		12	13	22.61	PASS
		25	0	22.57	PASS
	HCH	1	0	23.51	PASS
		1	12	23.57	PASS
		1	24	23.47	PASS
		12	0	22.64	PASS
		12	6	22.63	PASS
		12	13	22.61	PASS
		25	0	22.54	PASS
16QAM	LCH	1	0	22.80	PASS
		1	12	23.02	PASS
		1	24	23.00	PASS
		12	0	21.66	PASS
		12	6	21.70	PASS
		12	13	21.79	PASS
		25	0	21.52	PASS
	MCH	1	0	22.66	PASS
		1	12	22.80	PASS
		1	24	22.66	PASS
		12	0	21.65	PASS

		12	6	21.62	PASS
		12	13	21.65	PASS
		25	0	21.60	PASS
	HCH	1	0	22.75	PASS
		1	12	22.75	PASS
		1	24	22.75	PASS
		12	0	21.64	PASS
		12	6	21.65	PASS
		12	13	21.68	PASS
		25	0	21.62	PASS

### Channel Bandwidth: 10 MHz

Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.32	PASS
		1	24	23.50	PASS
		1	49	23.59	PASS
		25	0	22.49	PASS
		25	12	22.58	PASS
		25	25	22.61	PASS
		50	0	22.59	PASS
	MCH	1	0	23.36	PASS
		1	24	23.52	PASS
		1	49	23.53	PASS
		25	0	22.52	PASS
		25	12	22.60	PASS
		25	25	22.59	PASS
		50	0	22.61	PASS
	HCH	1	0	23.38	PASS
		1	24	23.62	PASS
		1	49	23.55	PASS
		25	0	22.55	PASS
		25	12	22.73	PASS
		25	25	22.61	PASS
		50	0	22.61	PASS
16QAM	LCH	1	0	22.69	PASS
		1	24	22.91	PASS
		1	49	22.87	PASS
		25	0	21.57	PASS
		25	12	21.60	PASS
		25	25	21.61	PASS
		50	0	21.62	PASS

	MCH	1	0	22.74	PASS
		1	24	22.93	PASS
		1	49	22.85	PASS
		25	0	21.59	PASS
		25	12	21.60	PASS
		25	25	21.61	PASS
		50	0	21.64	PASS
	HCH	1	0	22.94	PASS
		1	24	23.04	PASS
		1	49	23.03	PASS
		25	0	21.61	PASS
		25	12	21.63	PASS
		25	25	21.64	PASS
		50	0	21.68	PASS

## Appendix B: Peak-to-Average Ratio

### Test Result

#### 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	4.74	<13	PASS
		1	12	5.23	<13	PASS
		1	24	5.49	<13	PASS
		12	0	5.91	<13	PASS
		12	6	6.14	<13	PASS
		12	13	6.33	<13	PASS
		25	0	6.22	<13	PASS
	MCH	1	0	5.56	<13	PASS
		1	12	5.42	<13	PASS
		1	24	4.45	<13	PASS
		12	0	6.37	<13	PASS
		12	6	6.17	<13	PASS
		12	13	5.64	<13	PASS
		25	0	6.02	<13	PASS
	HCH	1	0	4.83	<13	PASS
		1	12	4.27	<13	PASS
		1	24	4.82	<13	PASS
		12	0	5.31	<13	PASS
		12	6	5.15	<13	PASS
		12	13	5.51	<13	PASS
		25	0	5.65	<13	PASS
16QAM	LCH	1	0	5.53	<13	PASS
		1	12	5.99	<13	PASS
		1	24	6.29	<13	PASS
		12	0	6.76	<13	PASS
		12	6	6.93	<13	PASS
		12	13	7.09	<13	PASS
		25	0	7.04	<13	PASS
	MCH	1	0	6.2	<13	PASS
		1	12	6	<13	PASS
		1	24	5.14	<13	PASS
		12	0	7.23	<13	PASS
		12	6	7.13	<13	PASS

		12	13	6.6	<13	PASS
		25	0	6.82	<13	PASS
	HCH	1	0	5.91	<13	PASS
		1	12	5.16	<13	PASS
		1	24	5.74	<13	PASS
		12	0	6.06	<13	PASS
		12	6	5.9	<13	PASS
		12	13	6.26	<13	PASS
		25	0	6.34	<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	4.92	<13	PASS
		1	24	5.66	<13	PASS
		1	49	4.2	<13	PASS
		25	0	6.22	<13	PASS
		25	12	6.27	<13	PASS
		25	25	5.65	<13	PASS
		50	0	5.79	<13	PASS
	MCH	1	0	5.08	<13	PASS
		1	24	5.54	<13	PASS
		1	49	4.51	<13	PASS
		25	0	6.28	<13	PASS
		25	12	5.99	<13	PASS
		25	25	5.57	<13	PASS
		50	0	5.66	<13	PASS
	HCH	1	0	5.21	<13	PASS
		1	24	4.91	<13	PASS
		1	49	4.59	<13	PASS
		25	0	6.25	<13	PASS
		25	12	5.72	<13	PASS
		25	25	5.56	<13	PASS
		50	0	5.54	<13	PASS
16QAM	LCH	1	0	5.76	<13	PASS
		1	24	6.63	<13	PASS
		1	49	5.06	<13	PASS
		25	0	7.05	<13	PASS
		25	12	7.16	<13	PASS
		25	25	6.44	<13	PASS

		50	0	6.56	<13	PASS
	MCH	1	0	5.92	<13	PASS
		1	24	6.29	<13	PASS
		1	49	5.29	<13	PASS
		25	0	7.07	<13	PASS
		25	12	6.84	<13	PASS
		25	25	6.36	<13	PASS
		50	0	6.46	<13	PASS
		HCH	1	0	6.11	<13
	1		24	5.87	<13	PASS
	1		49	5.46	<13	PASS
	25		0	7.04	<13	PASS
	25		12	6.57	<13	PASS
	25		25	6.32	<13	PASS
	50		0	6.42	<13	PASS

## Test Graphs

### Channel Bandwidth: 5 MHz

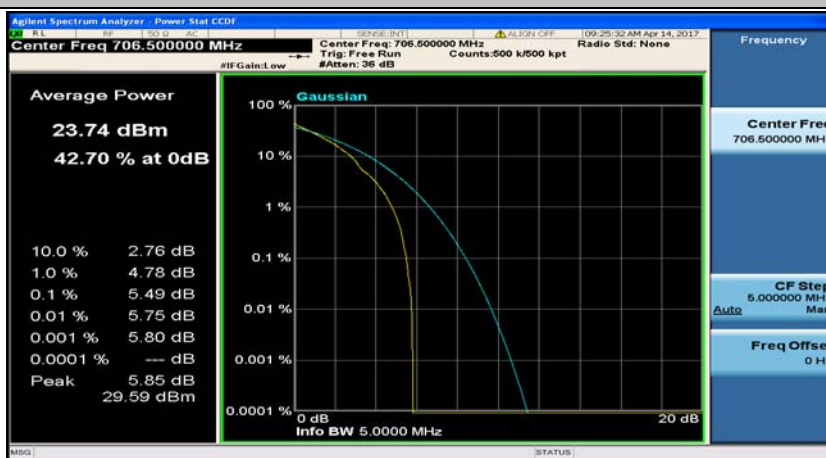
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#0



(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

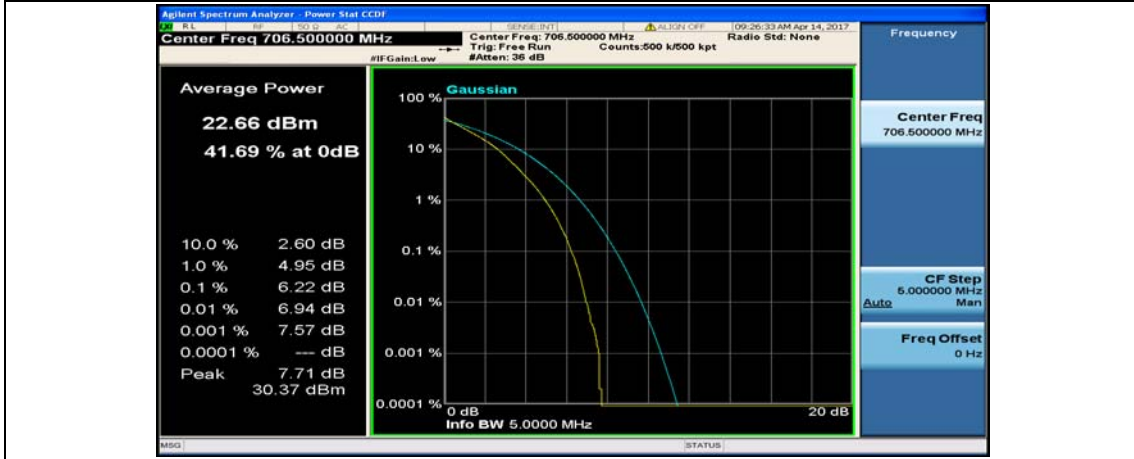


(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13

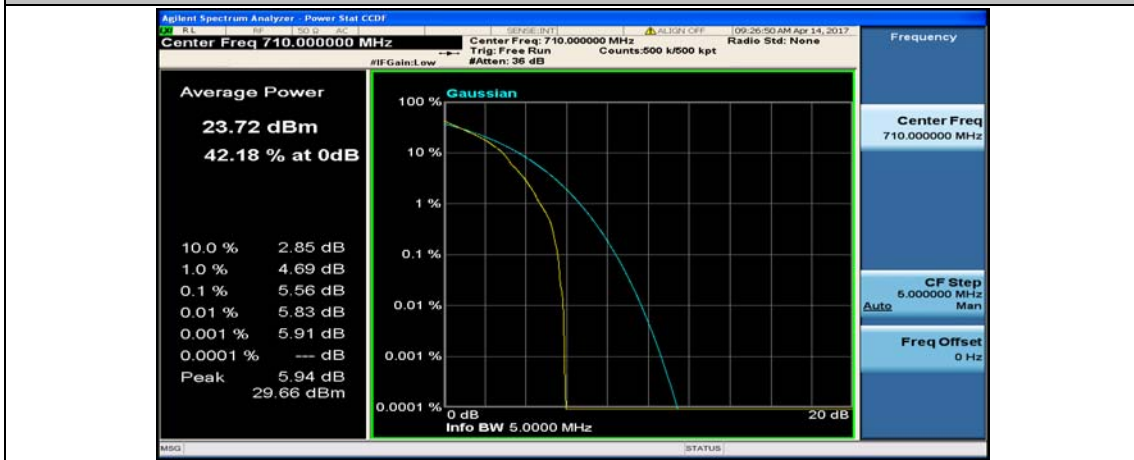


(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0





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



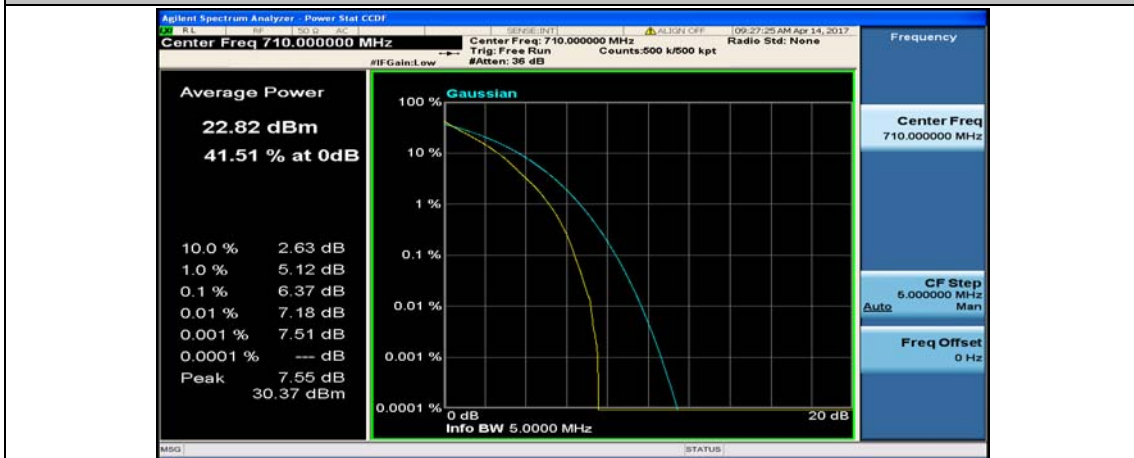
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#12



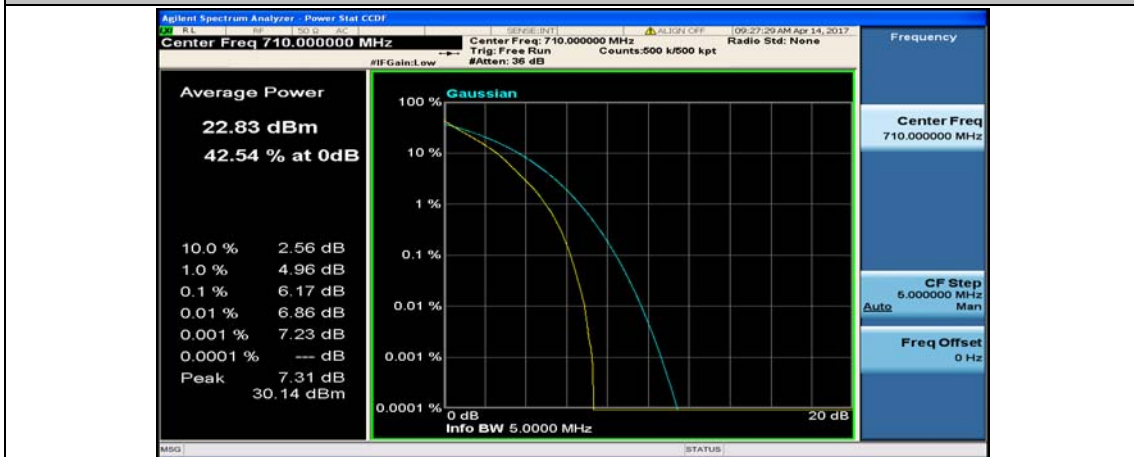
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_1RB#24



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



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



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



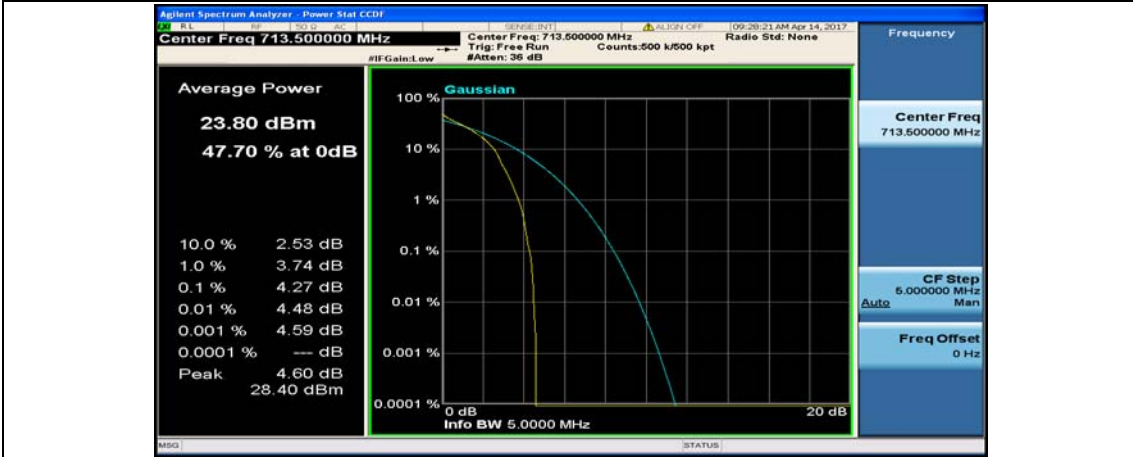
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



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



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



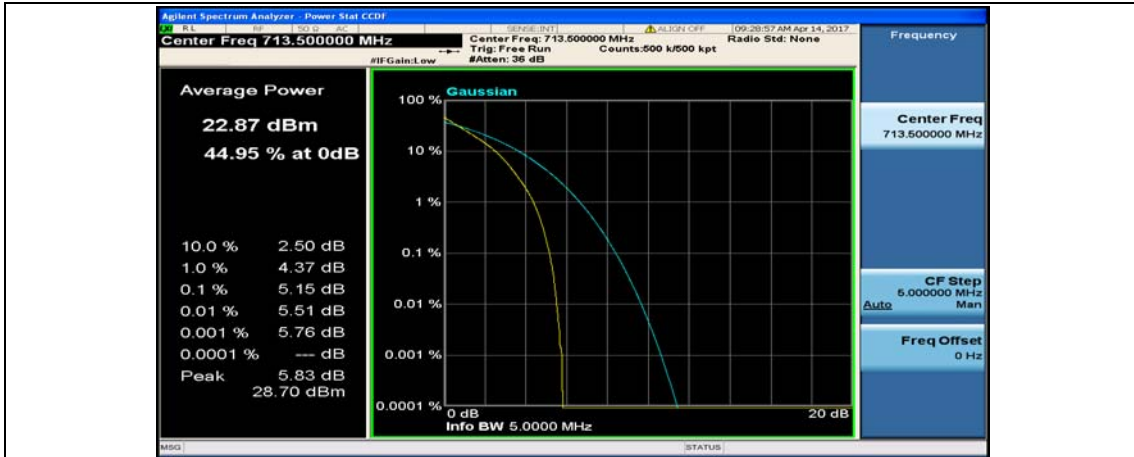
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#24



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



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



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



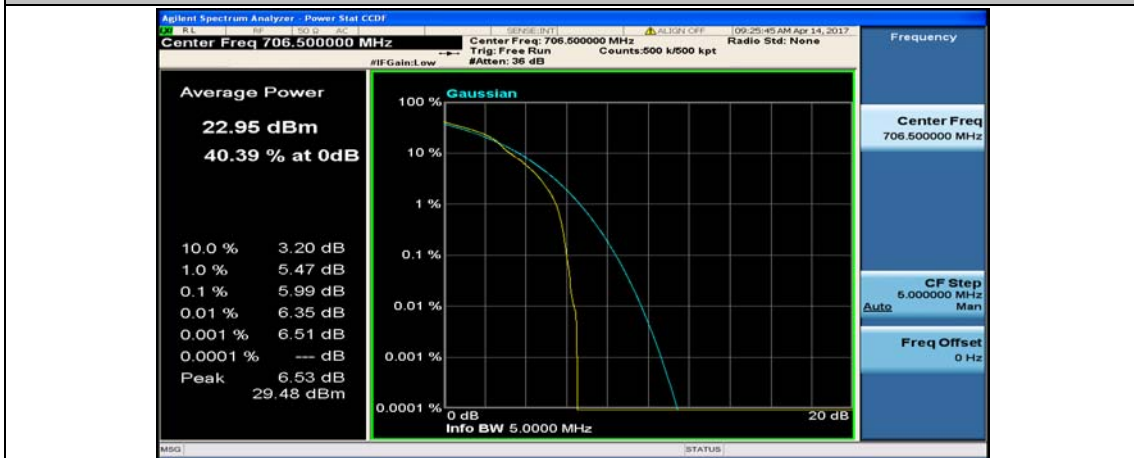
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24



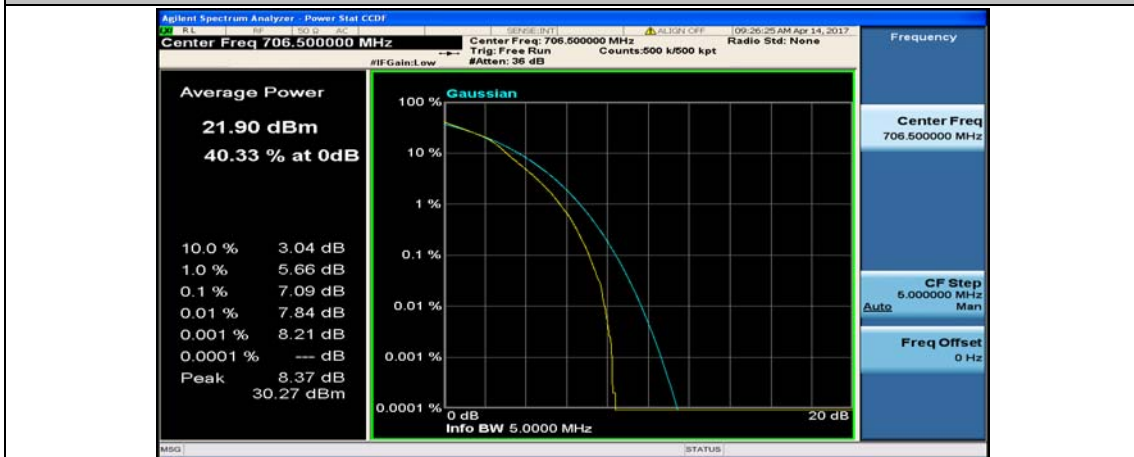
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#0



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#6



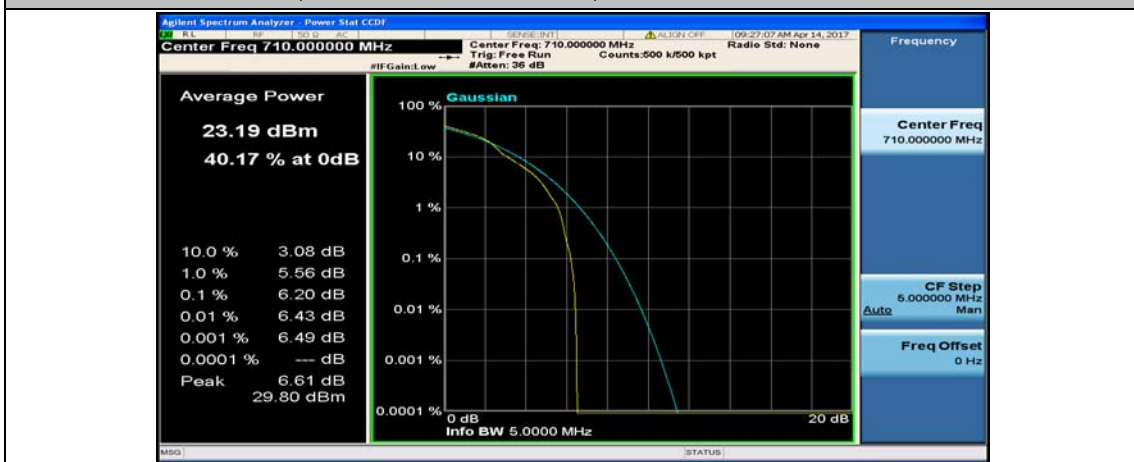
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#13



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#12



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_1RB#24





(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#6



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_12RB#13



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#0



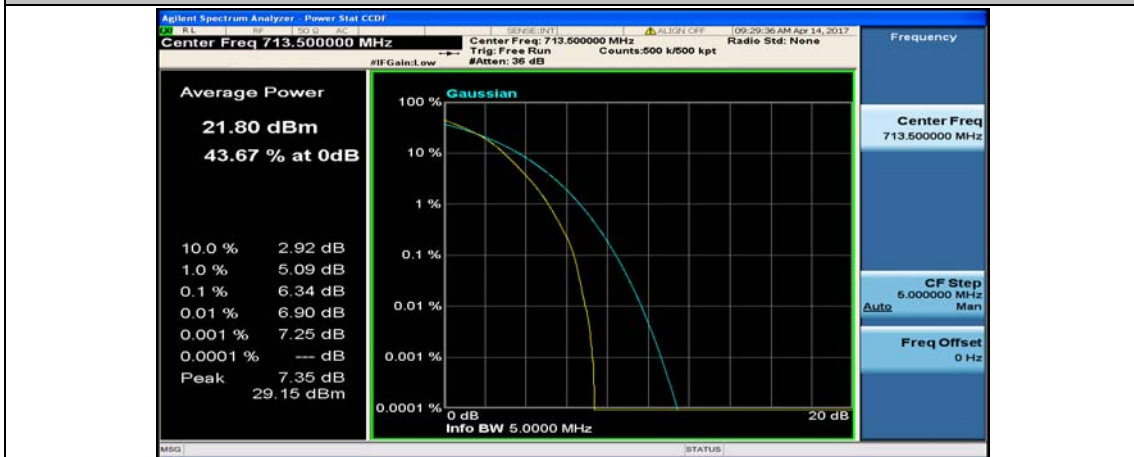
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#6



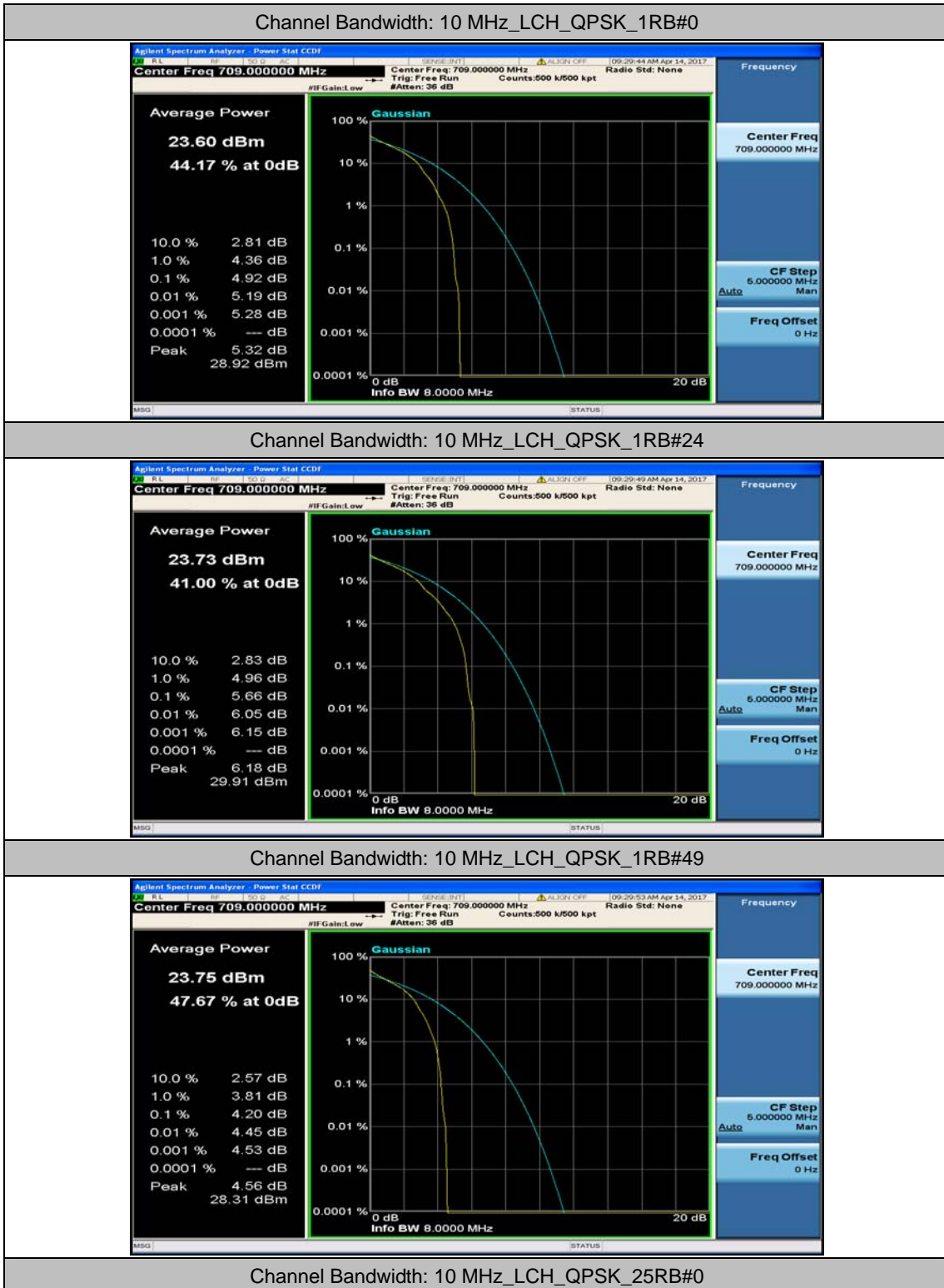
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#13

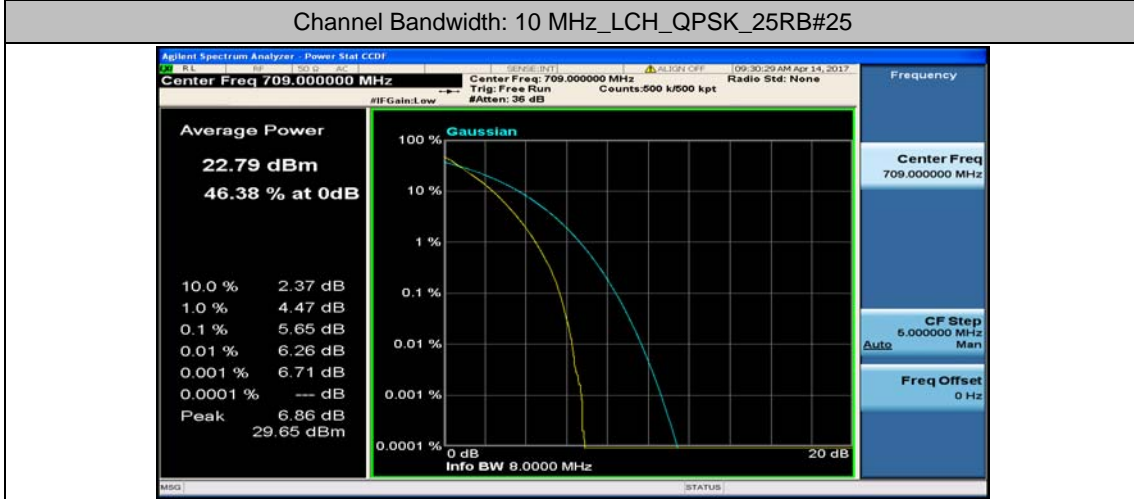
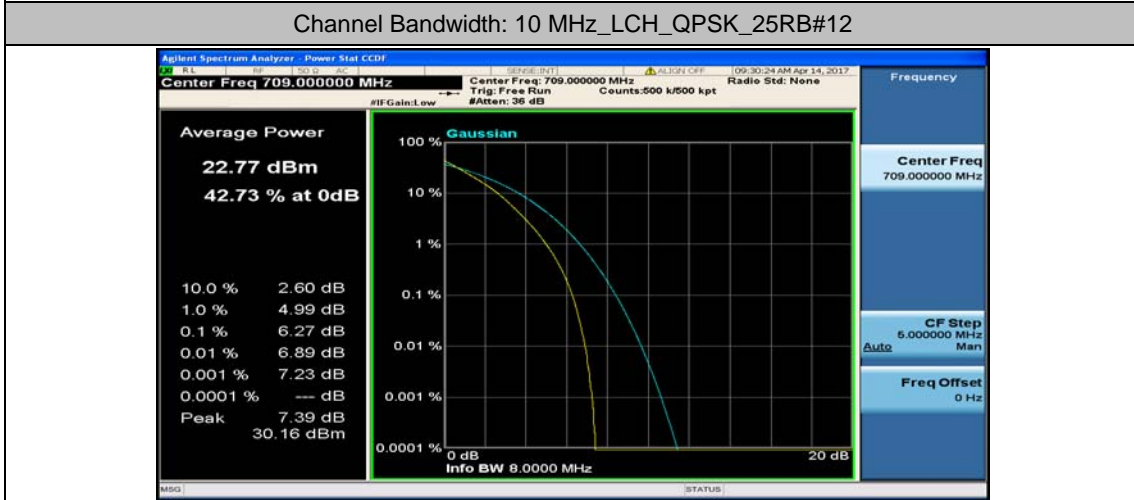
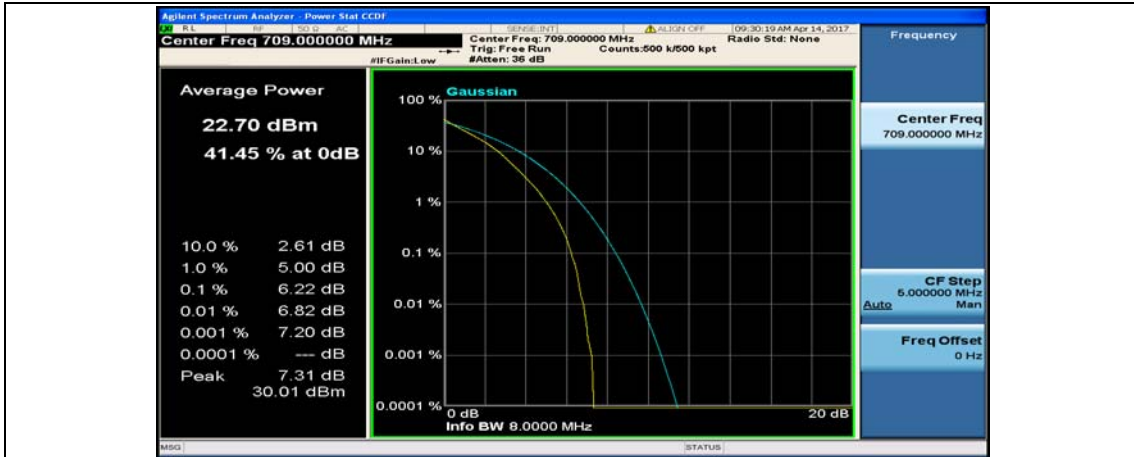


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0



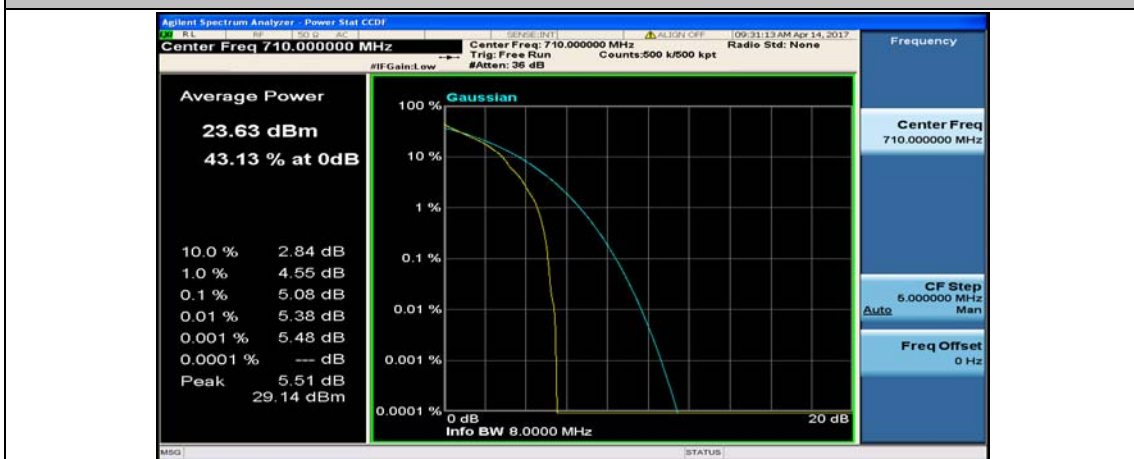
### Channel Bandwidth: 10 MHz







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





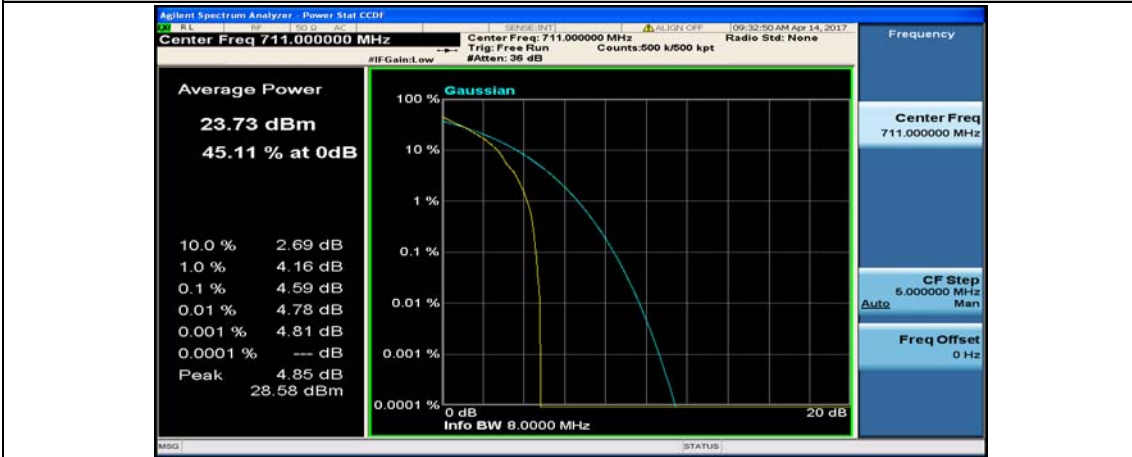
Channel Bandwidth: 10 MHz\_MCH\_QPSK\_50RB#0

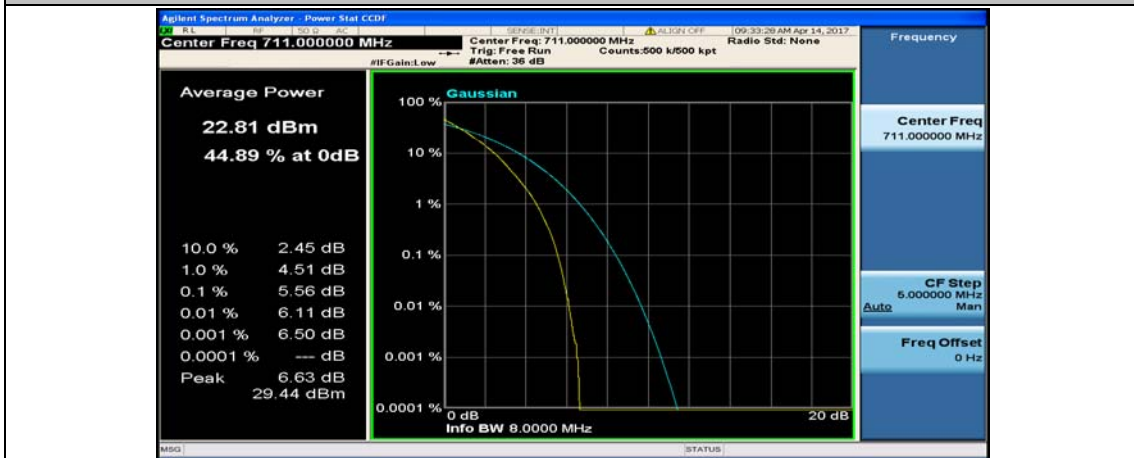


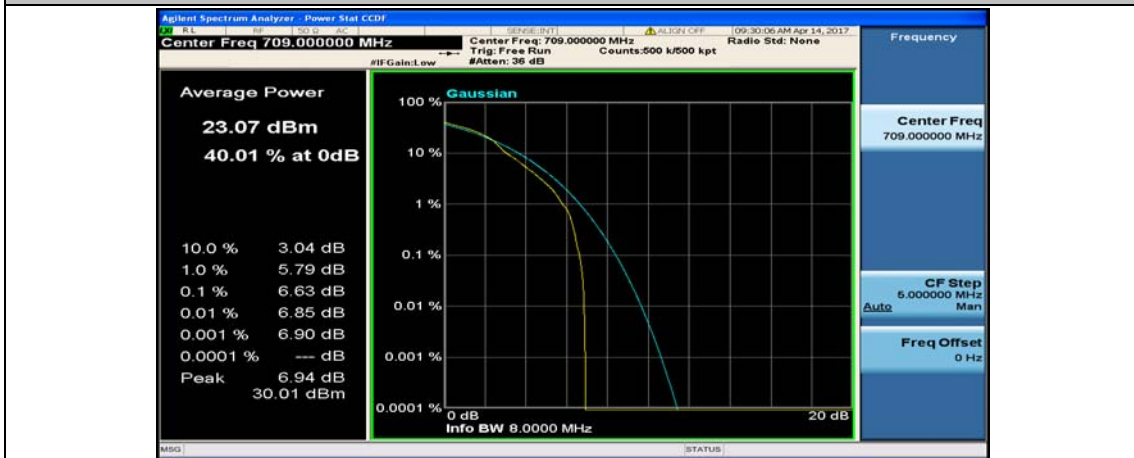
Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#0

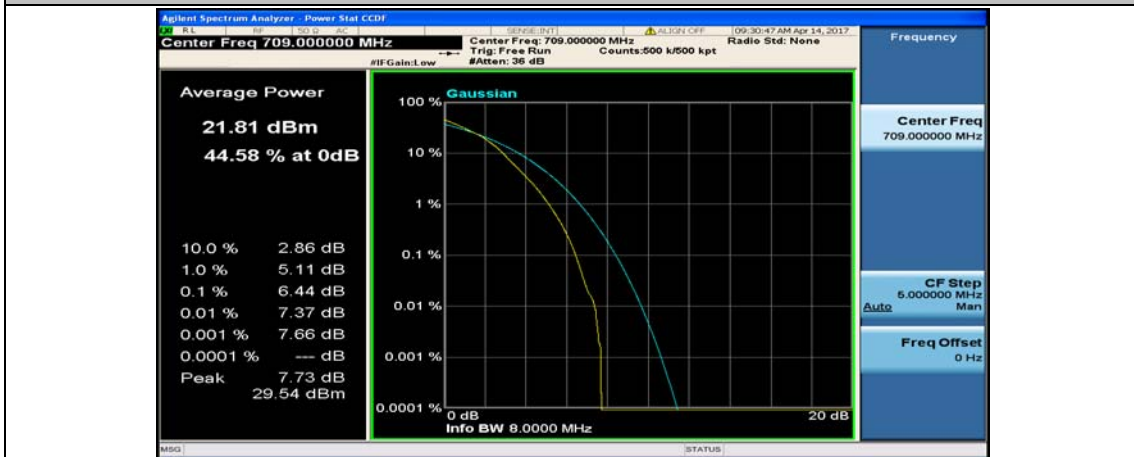


Channel Bandwidth: 10 MHz\_HCH\_QPSK\_1RB#24



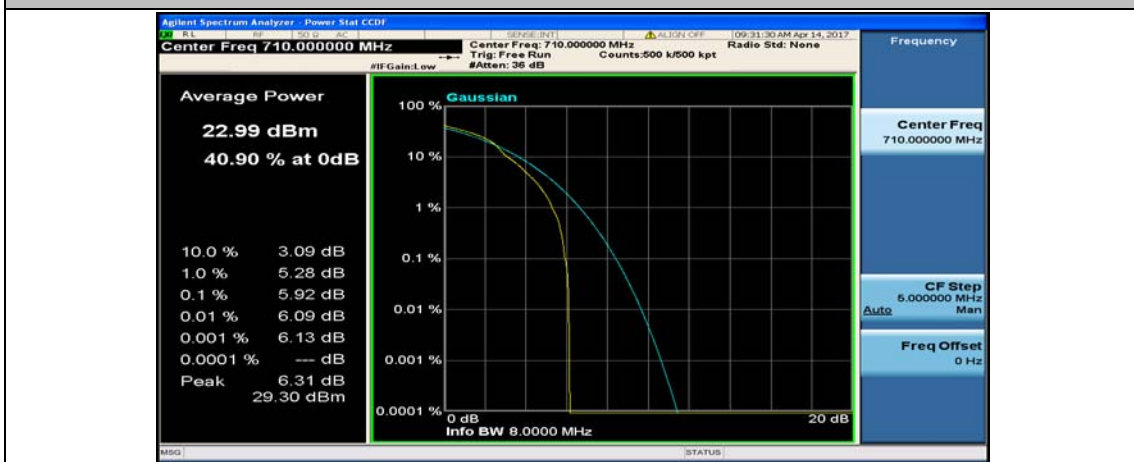








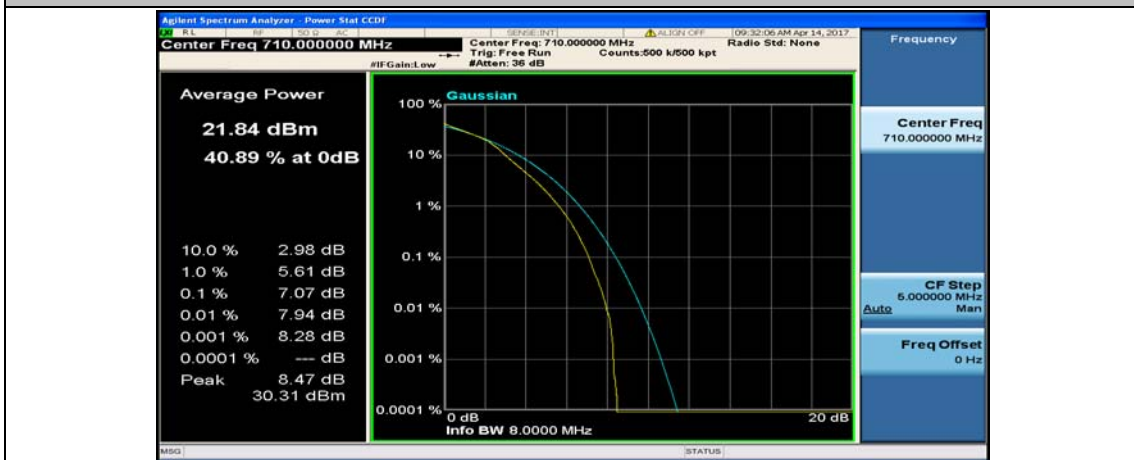
Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#0



Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#24



Channel Bandwidth: 10 MHz\_MCH\_16QAM\_1RB#49

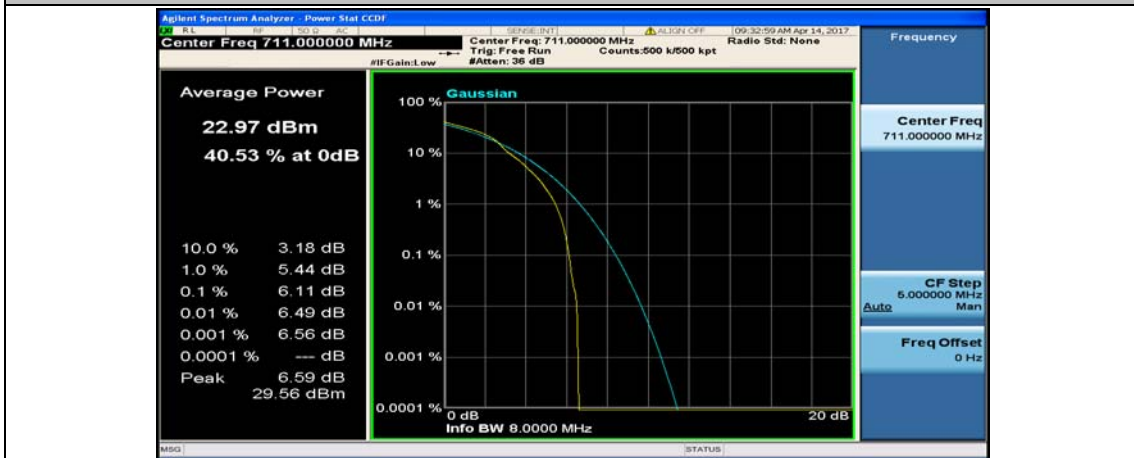




Channel Bandwidth: 10 MHz\_MCH\_16QAM\_50RB#0

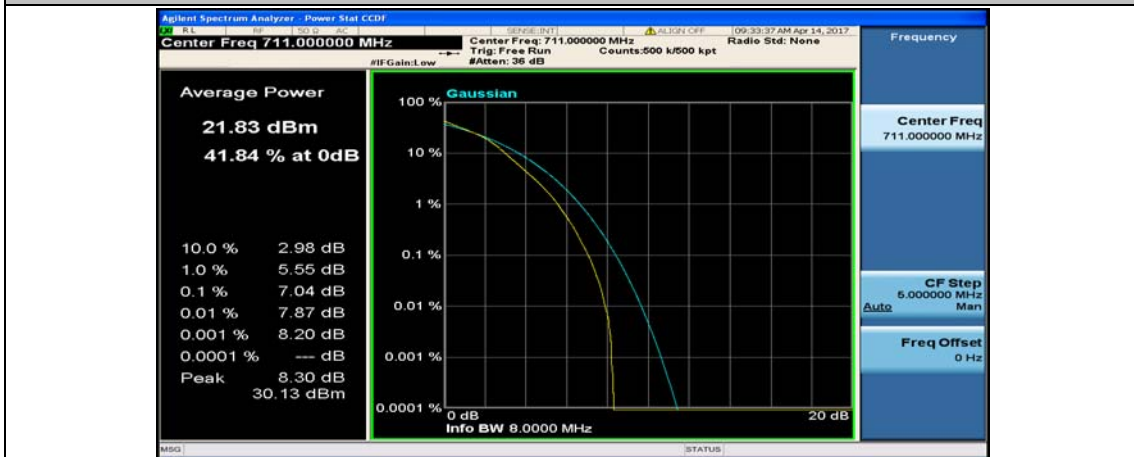
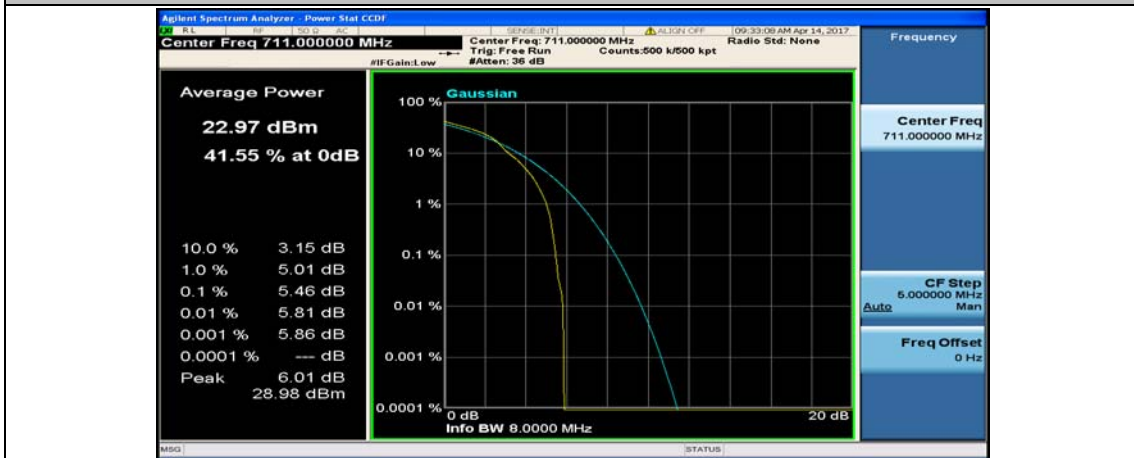
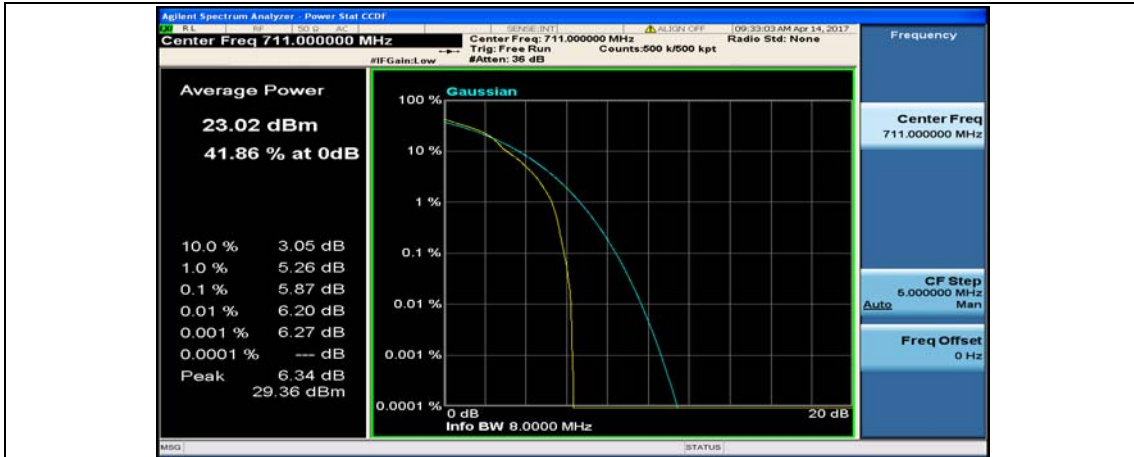


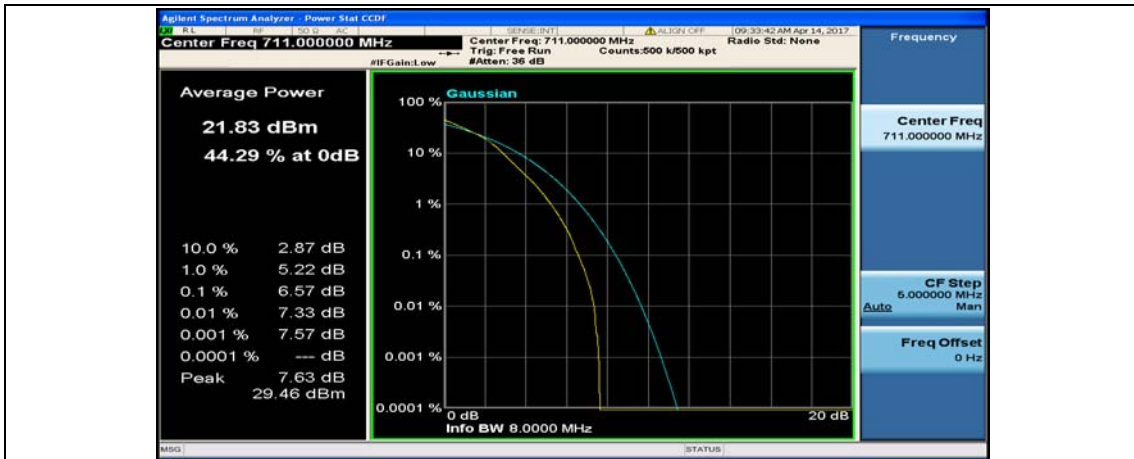
Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#0



Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#24







## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

#### Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.5027	4.874	PASS
	MCH	25	0	4.4771	4.785	PASS
	HCH	25	0	4.4721	4.812	PASS
16QAM	LCH	25	0	4.4846	4.845	PASS
	MCH	25	0	4.4664	4.790	PASS
	HCH	25	0	4.4810	4.760	PASS

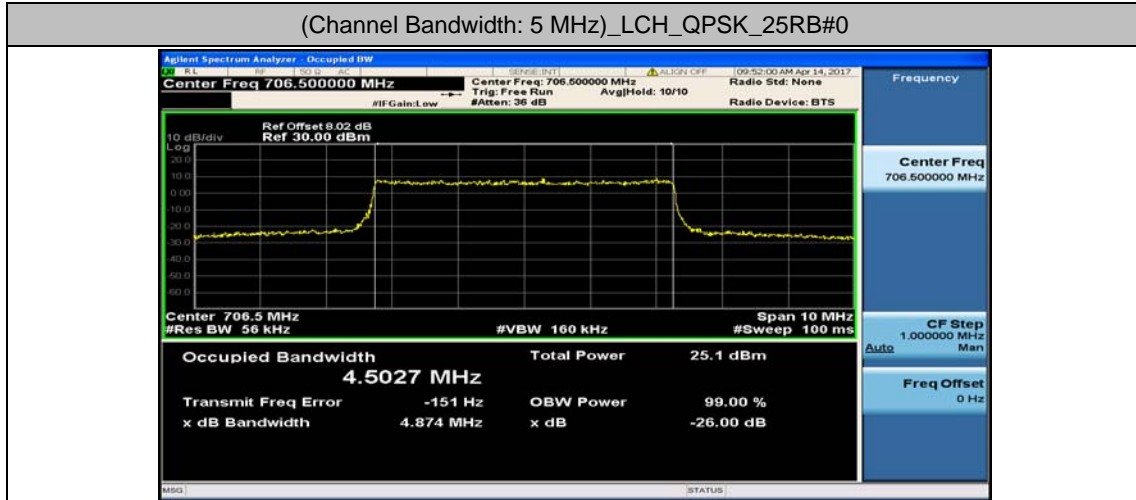
#### Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9381	9.495	PASS
	MCH	50	0	8.9303	9.465	PASS
	HCH	50	0	8.9035	9.327	PASS
16QAM	LCH	50	0	8.9440	9.449	PASS
	MCH	50	0	8.9229	9.341	PASS
	HCH	50	0	8.9156	9.324	PASS

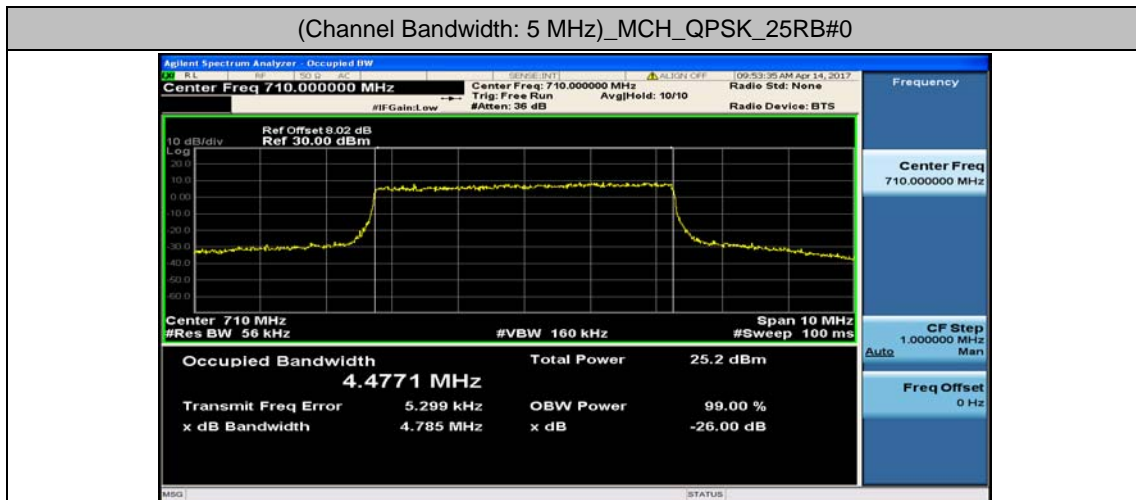
## Test Graphs

### Channel Bandwidth: 5 MHz

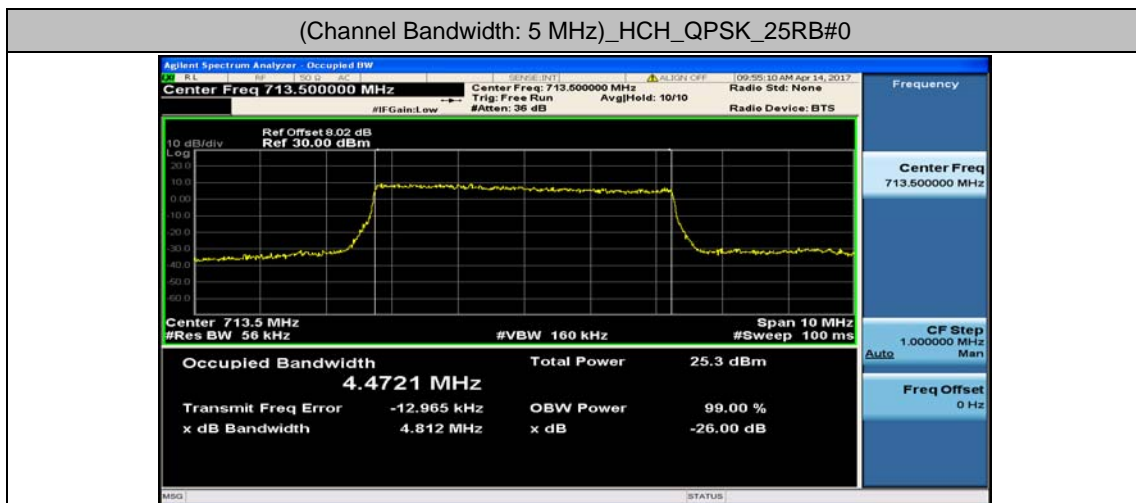
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



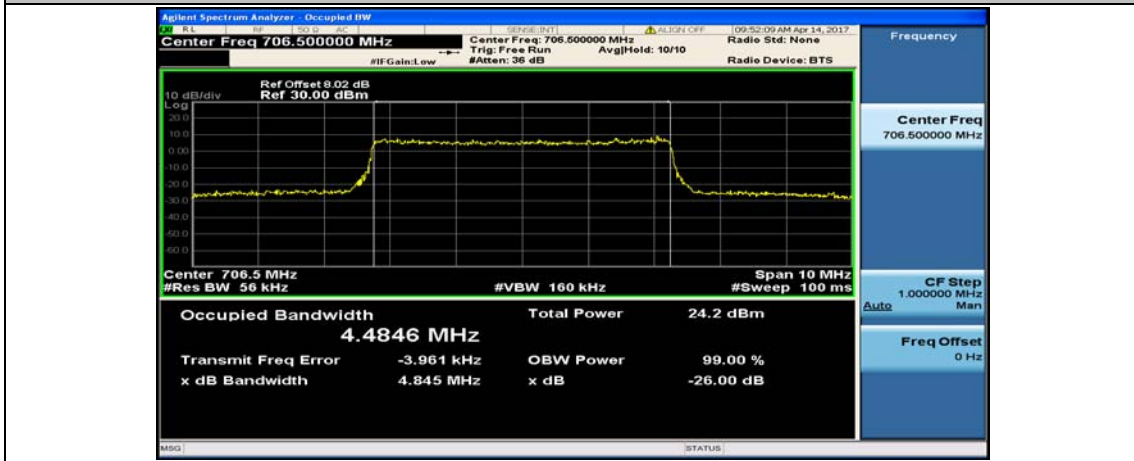
(Channel Bandwidth: 5 MHz)\_MCH\_QPSK\_25RB#0



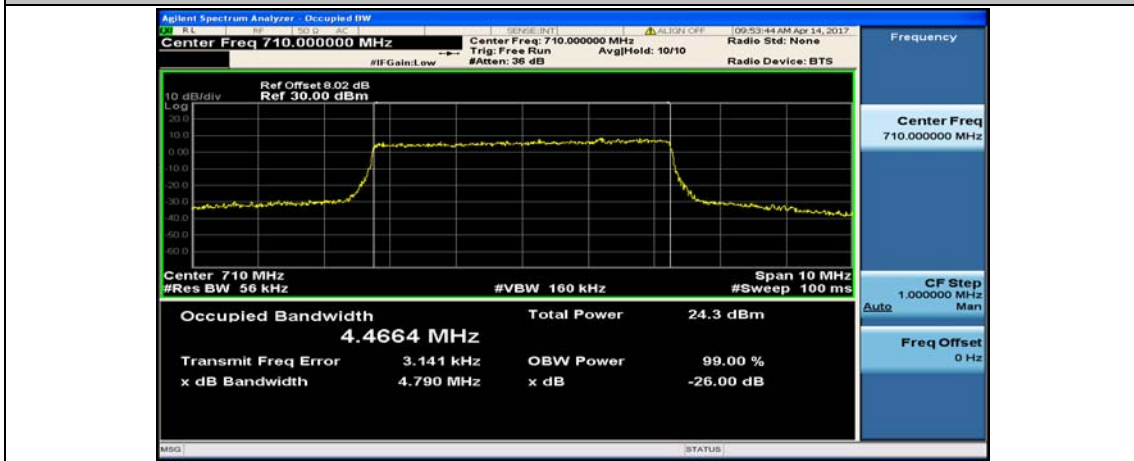
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



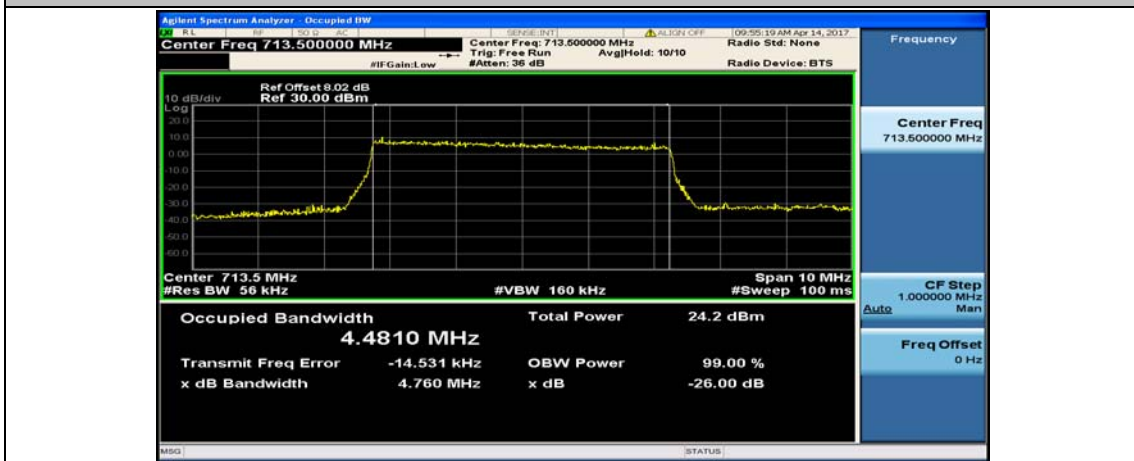
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_MCH\_16QAM\_25RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0

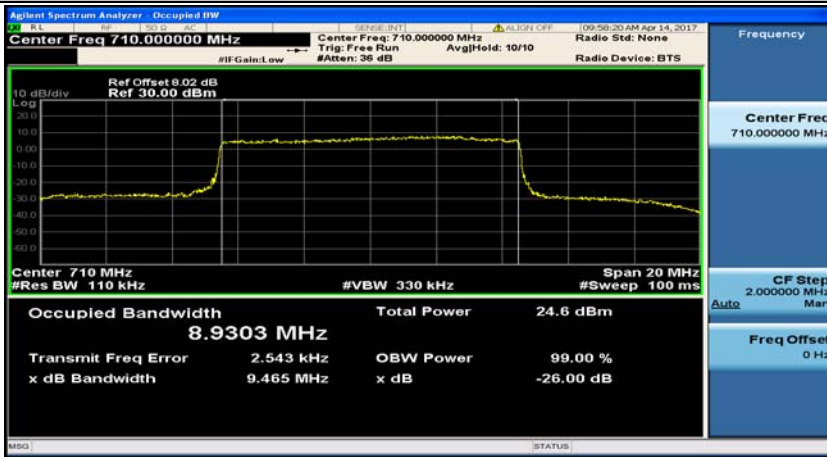


## Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz\_LCH\_QPSK\_50RB#0



Channel Bandwidth: 10 MHz\_MCH\_QPSK\_50RB#0



Channel Bandwidth: 10 MHz\_HCH\_QPSK\_50RB#0



Channel Bandwidth: 10 MHz\_LCH\_16QAM\_50RB#0

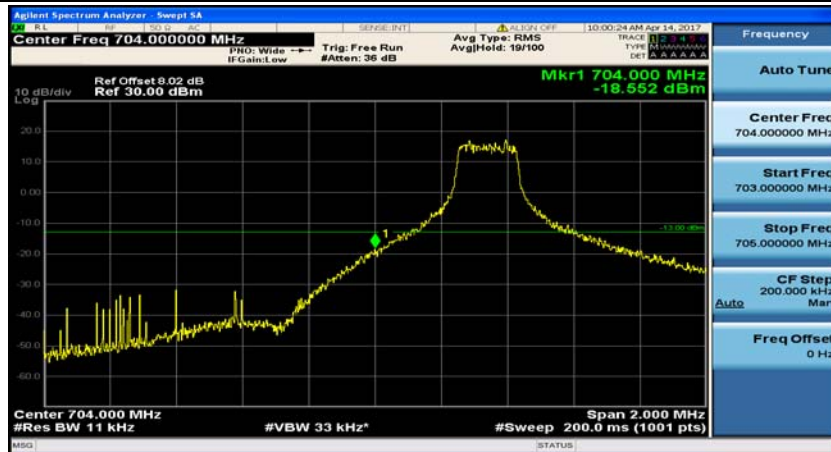


## Appendix D: Band Edge

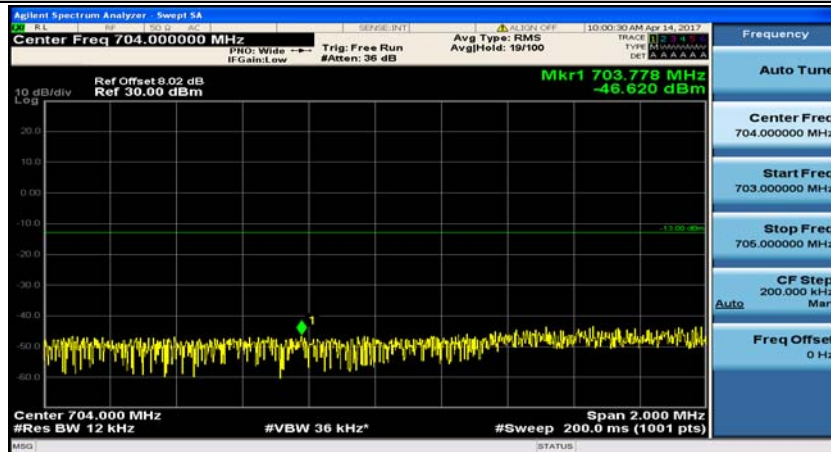
### Test Graphs

#### Channel Bandwidth: 5 MHz

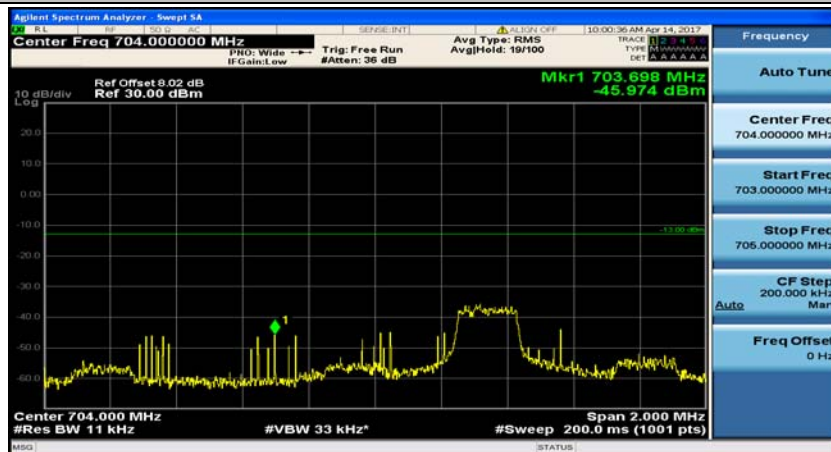
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#0



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

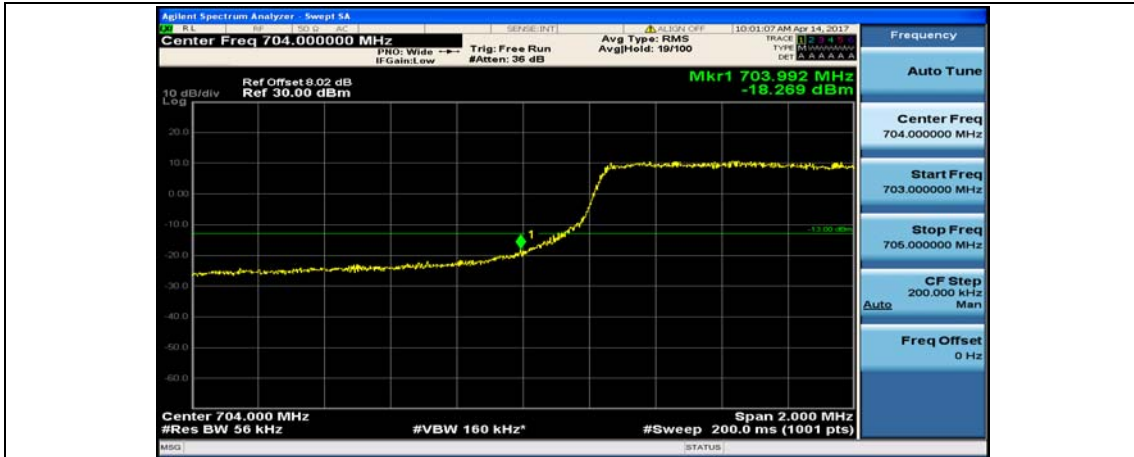


(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_1RB#24



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

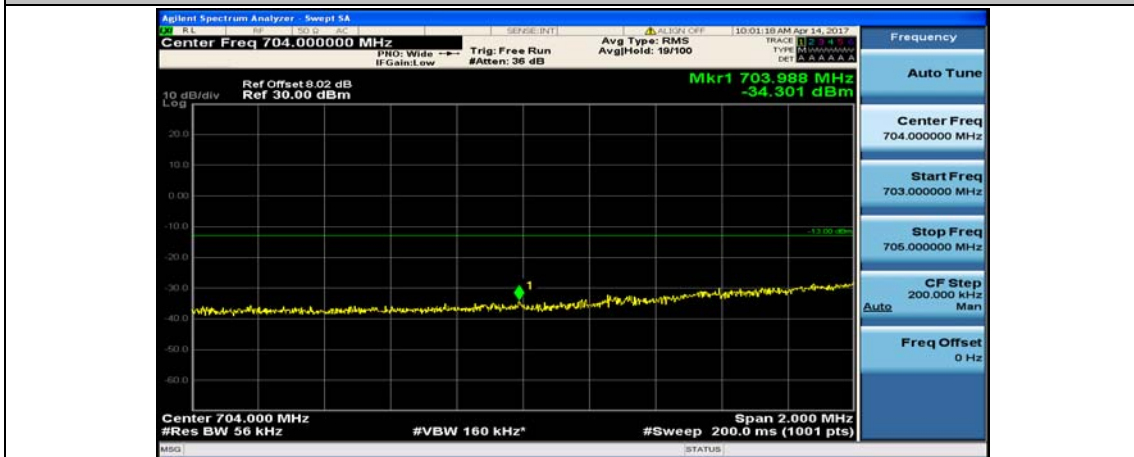




(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#6



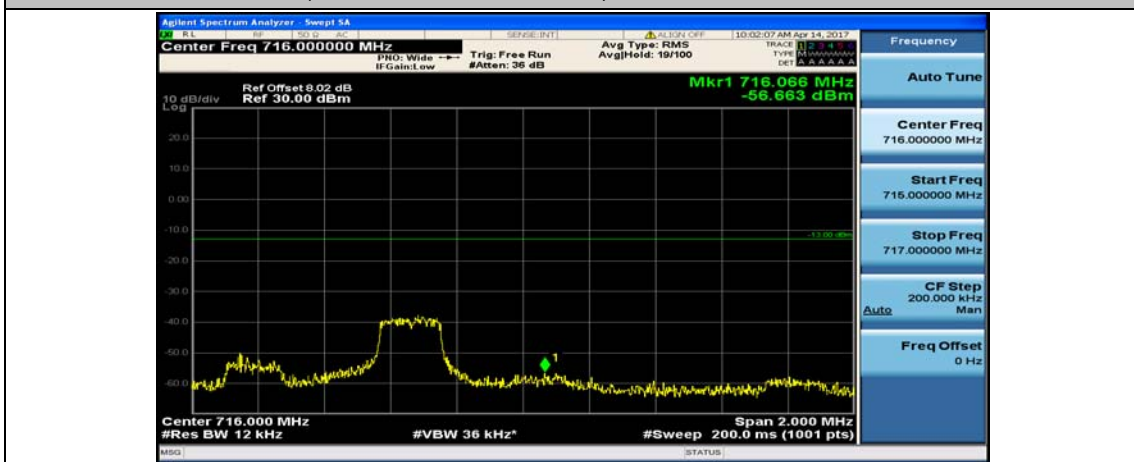
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_12RB#13



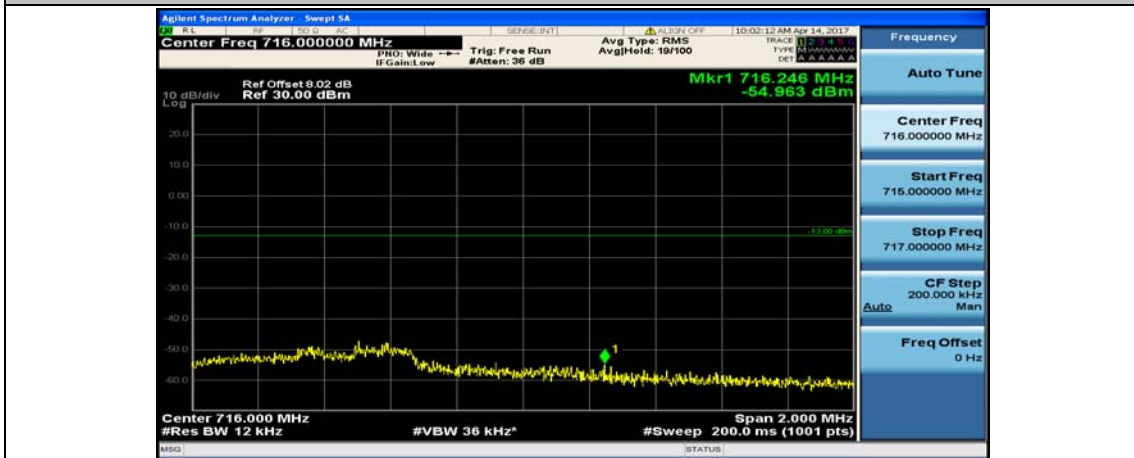
(Channel Bandwidth: 5 MHz)\_LCH\_QPSK\_25RB#0



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



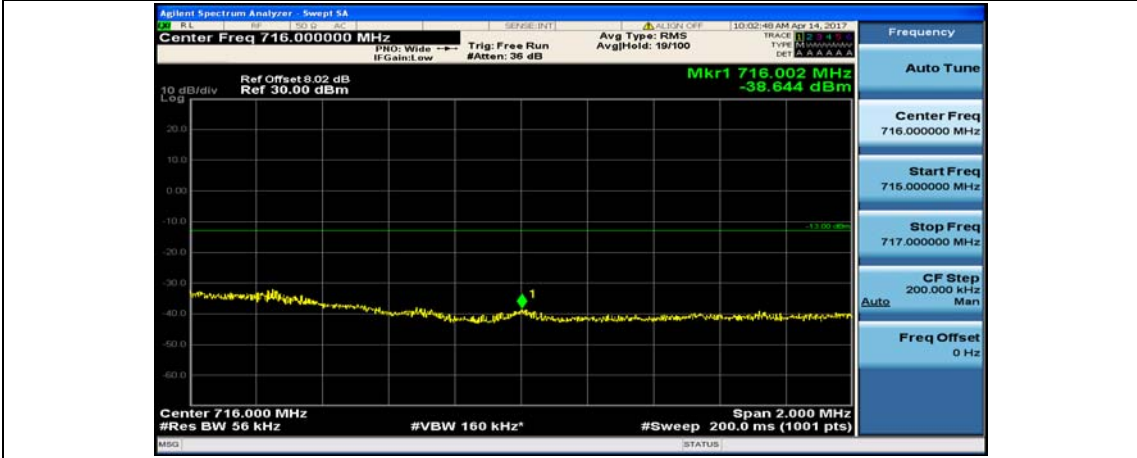
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_1RB#12



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



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



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



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



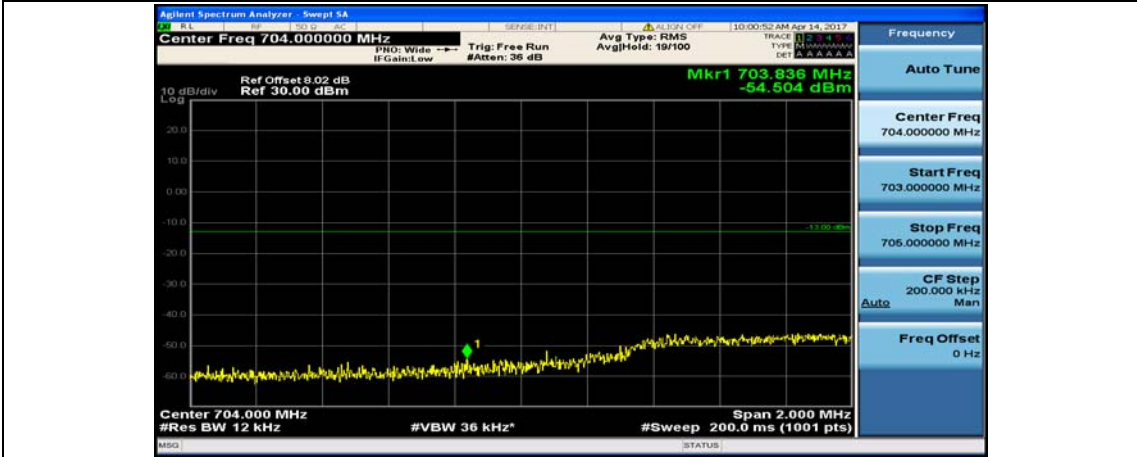
(Channel Bandwidth: 5 MHz)\_HCH\_QPSK\_25RB#0



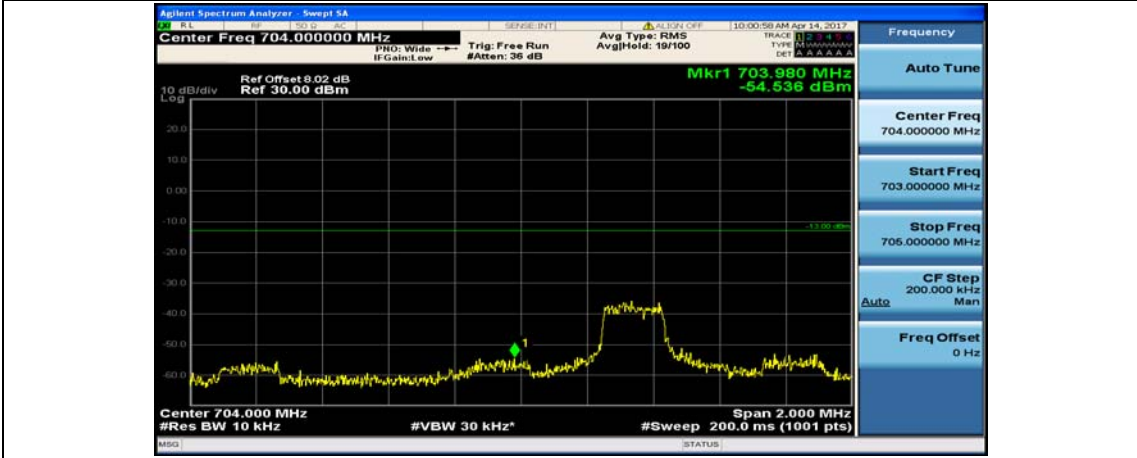
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#0



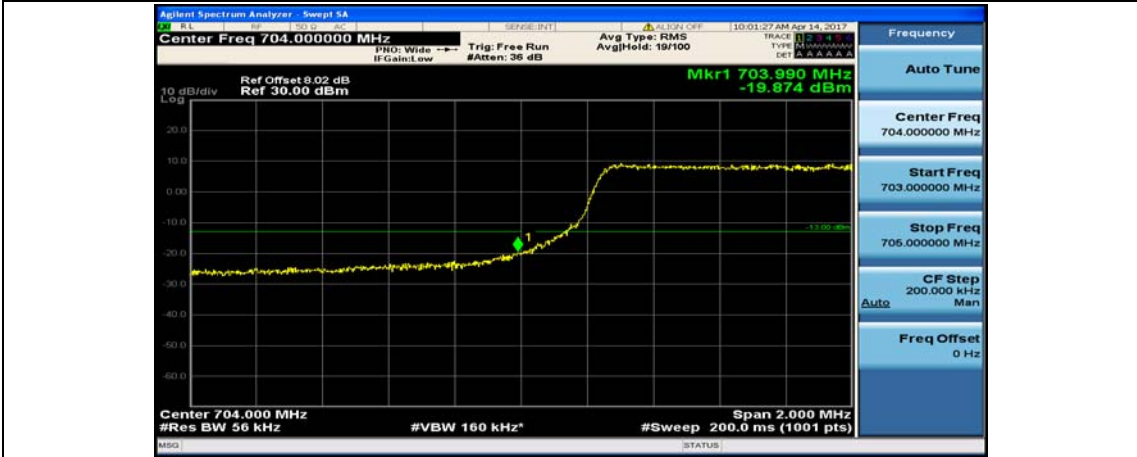
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#12



(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_1RB#24



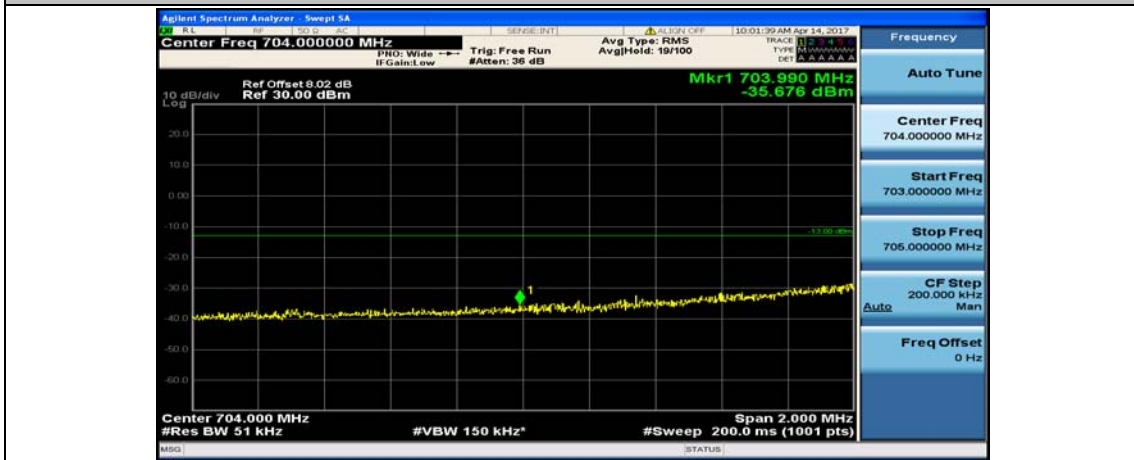
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#0



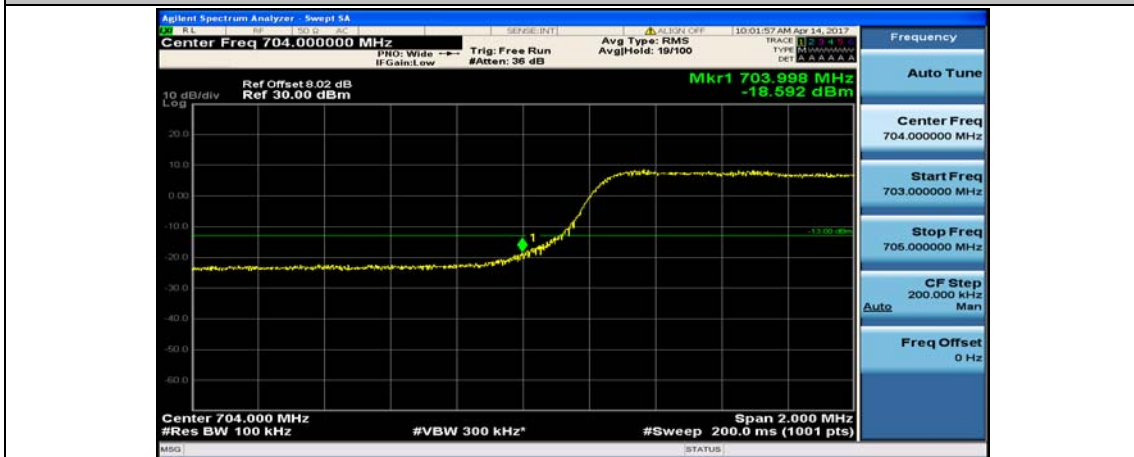
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#6



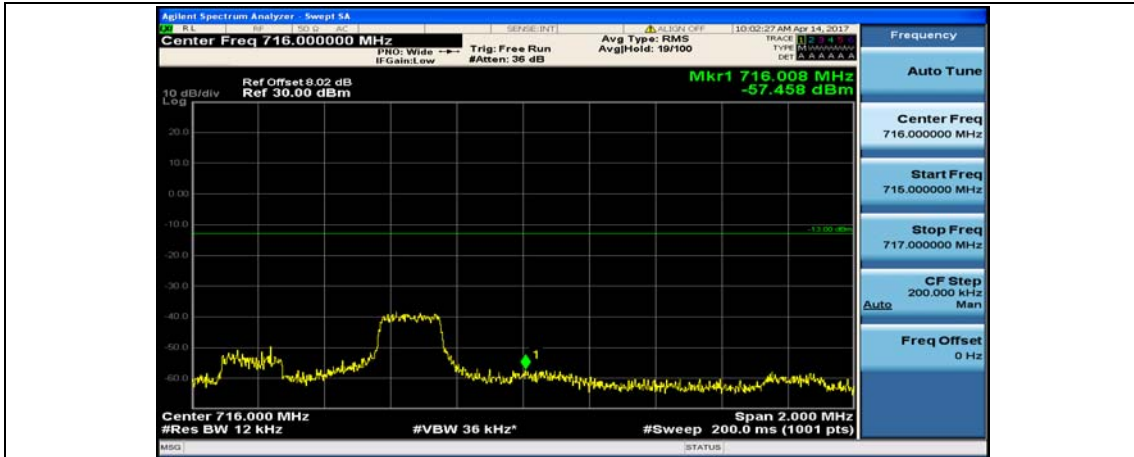
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_12RB#13



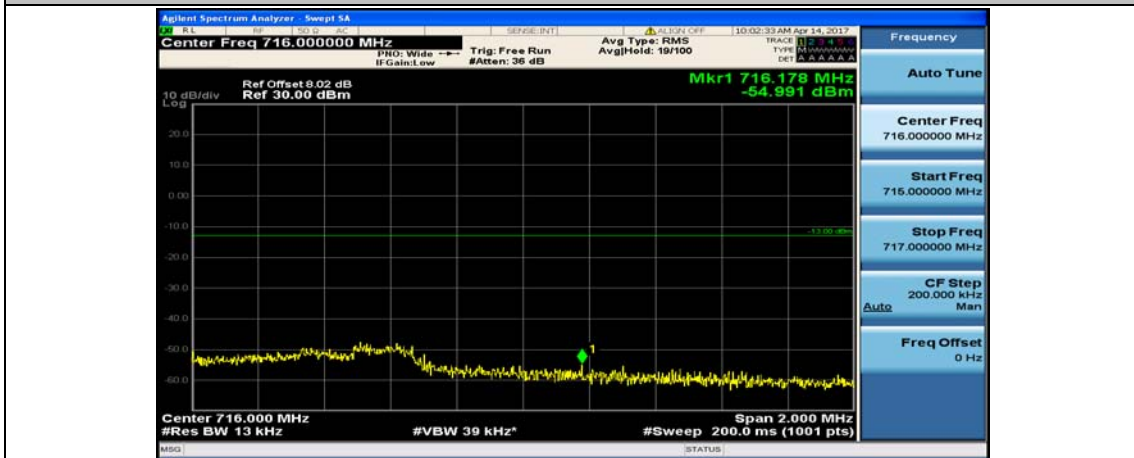
(Channel Bandwidth: 5 MHz)\_LCH\_16QAM\_25RB#0



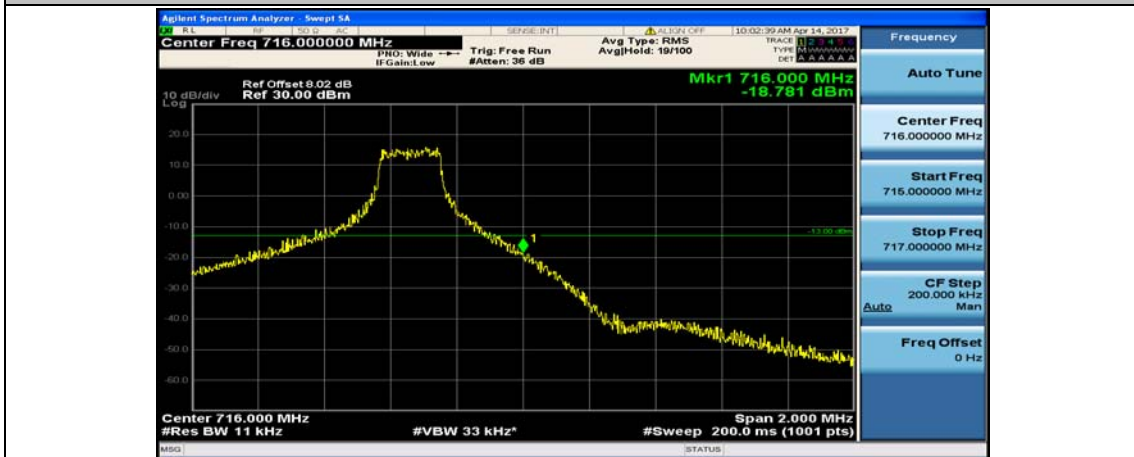
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#12



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#0



(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#6

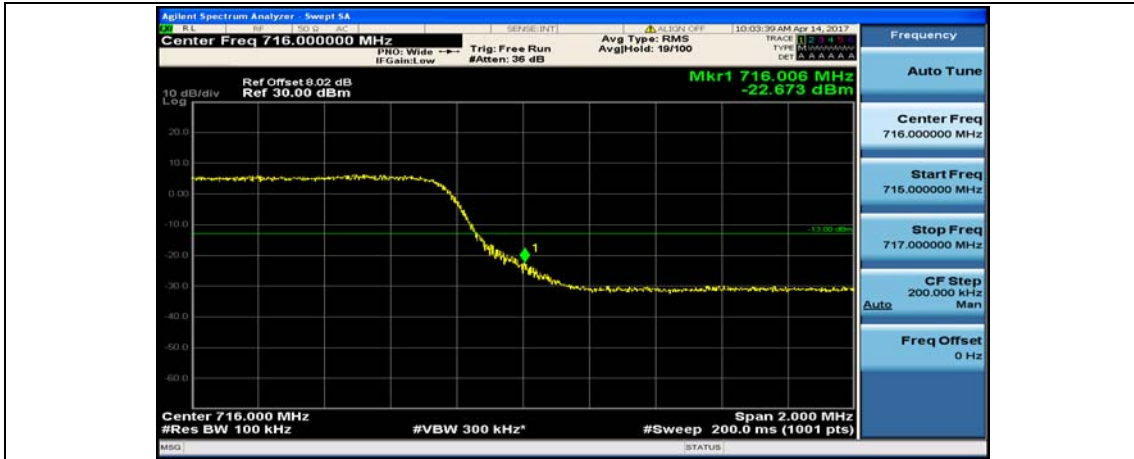


(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_12RB#13

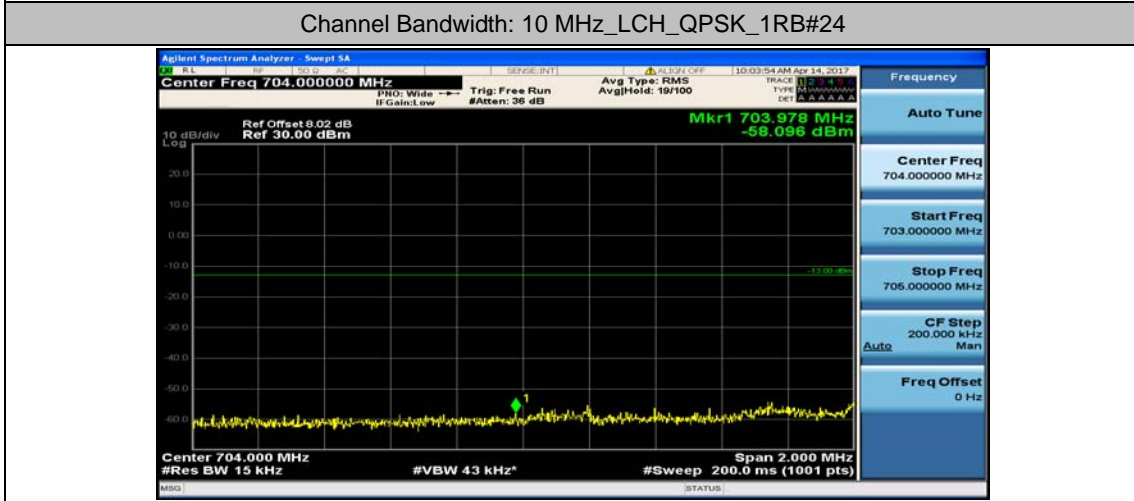


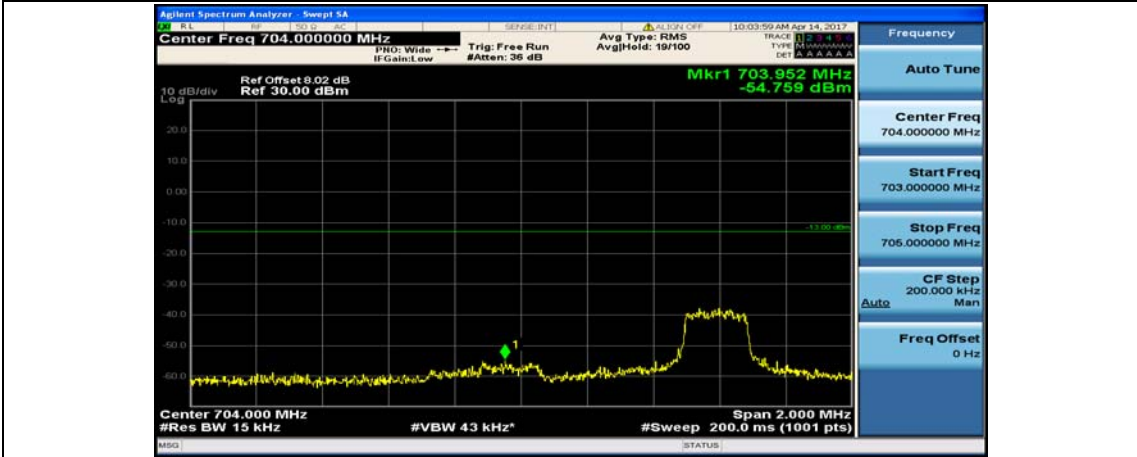
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_25RB#0





Channel Bandwidth: 10 MHz

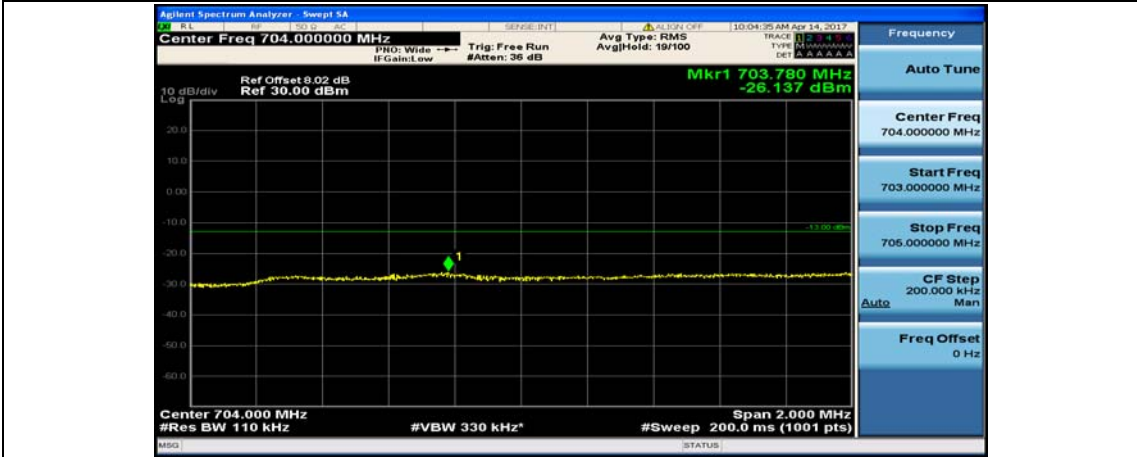




Channel Bandwidth: 10 MHz\_LCH\_QPSK\_25RB#0



Channel Bandwidth: 10 MHz\_LCH\_QPSK\_25RB#12



Channel Bandwidth: 10 MHz\_LCH\_QPSK\_25RB#25