# Appendix A: Test Data for E-UTRA Band 2

**Product Name: LTE GSM/WCDMA Smartphone** 

**Trade Mark: DOOGEE Test Model: S60 Lite** 

#### **Environmental Conditions**

Temperature:	24.1 ° C	
Relative Humidity:	53.1%	
ATM Pressure:	100.0 kPa	
Test Engineer:	Tom.Liu	
Supervised by:	Jayden Zhuo	

### **A.1 Conducted Output Power**

	Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)							
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/ordiot		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	22.68	21.97	PASS		
		1	3	22.75	22.12	PASS		
		1	5	22.56	21.90	PASS		
	LCH	3	0	22.76	21.98	PASS		
		3	2	22.74	21.94	PASS		
		3	3	22.73	21.91	PASS		
		6	0	21.68	20.66	PASS		
		1	0	22.97	22.35	PASS		
		1	3	23.05	22.50	PASS		
ODCK /		1	5	22.91	22.27	PASS		
QPSK / 16QAM	MCH	3	0	23.02	22.05	PASS		
IOQAW		3	2	23.00	22.08	PASS		
		3	3	22.95	22.04	PASS		
		6	0	21.94	20.89	PASS		
		1	0	23.34	22.64	PASS		
		1	3	23.41	22.86	PASS		
		1	5	23.40	22.62	PASS		
	HCH	3	0	23.41	22.50	PASS		
		3	2	23.45	22.53	PASS		
		3	3	23.45	22.54	PASS		
		6	0	22.40	21.46	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	22.73	22.13	PASS		
		1	7	23.09	22.17	PASS		
		1	14	22.57	21.93	PASS		
	LCH	8	0	21.65	20.77	PASS		
		8	4	21.64	20.71	PASS		
		8	7	21.57	20.67	PASS		
		15	0	21.62	20.63	PASS		
		1	0	23.04	22.30	PASS		
	МСН	1	7	23.30	22.46	PASS		
QPSK /		1	14	22.84	22.20	PASS		
16QAM		8	0	21.95	21.03	PASS		
TOQAM		8	4	21.95	21.03	PASS		
		8	7	21.91	20.94	PASS		
		15	0	21.95	20.89	PASS		
		1	0	23.37	22.68	PASS		
		1	7	23.54	23.01	PASS		
		1	14	23.37	22.77	PASS		
	HCH	8	0	22.34	21.33	PASS		
		8	4	22.38	21.34	PASS		
		8	7	22.31	21.28	PASS		
		15	0	22.27	21.27	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)								
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Chamer	Size	Offset	QPSK	16QAM	verdict		
		1	0	22.67	22.11	PASS		
		1	12	22.94	22.33	PASS		
		1	24	22.42	21.81	PASS		
	LCH	12	0	21.70	20.73	PASS		
		12	6	21.63	20.80	PASS		
		12	13	21.54	20.62	PASS		
		25	0	21.58	20.43	PASS		
		1	0	23.04	22.45	PASS		
		1	12	23.23	22.70	PASS		
QPSK /		1	24	22.77	22.17	PASS		
16QAM	MCH	12	0	22.00	21.20	PASS		
TOQAIVI		12	6	22.01	21.19	PASS		
		12	13	21.86	21.07	PASS		
		25	0	22.00	21.04	PASS		
		1	0	23.14	22.20	PASS		
		1	12	23.81	22.64	PASS		
		1	24	23.27	22.19	PASS		
	HCH	12	0	22.24	21.24	PASS		
		12	6	22.28	21.43	PASS		
		12	13	22.25	21.26	PASS		
		25	0	22.30	21.30	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)							
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
iviodulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	23.48	22.80	PASS		
		1	24	23.42	22.81	PASS		
		1	49	23.21	22.83	PASS		
	LCH	25	0	22.27	21.31	PASS		
		25	12	22.37	21.36	PASS		
		25	25	22.60	21.57	PASS		
		50	0	22.14	20.95	PASS		
		1	0	23.56	23.07	PASS		
	МСН	1	24	23.38	22.70	PASS		
QPSK /		1	49	22.59	21.94	PASS		
16QAM		25	0	22.54	21.65	PASS		
TOQAIVI		25	12	22.16	21.38	PASS		
		25	25	22.04	21.08	PASS		
		50	0	22.37	21.36	PASS		
		1	0	23.91	23.01	PASS		
		1	24	24.46	23.73	PASS		
		1	49	24.12	23.49	PASS		
	HCH	25	0	22.95	21.98	PASS		
		25	12	23.04	22.08	PASS		
		25	25	23.06	22.08	PASS		
		50	0	23.02	22.00	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict		
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict		
		1	0	22.66	21.99	PASS		
		1	37	23.18	22.62	PASS		
		1	74	23.51	22.85	PASS		
	LCH	37	0	21.76	20.78	PASS		
		37	18	21.96	20.96	PASS		
		37	38	22.34	21.33	PASS		
		75	0	22.07	21.10	PASS		
		1	0	23.63	22.93	PASS		
	мсн	1	37	23.04	22.23	PASS		
QPSK /		1	74	22.19	21.58	PASS		
16QAM		37	0	22.21	21.22	PASS		
TOQAIVI		37	18	21.89	20.88	PASS		
		37	38	21.46	20.44	PASS		
		75	0	21.84	20.87	PASS		
		1	0	22.84	22.22	PASS		
		1	37	24.03	23.29	PASS		
		1	74	24.00	23.34	PASS		
	HCH	37	0	22.30	21.34	PASS		
		37	18	22.80	21.79	PASS		
		37	38	23.01	21.98	PASS		
		75	0	22.64	21.67	PASS		

	Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)								
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
IVIOGUIATION	Channel	Size	Offset	QPSK	16QAM	verdict			
		1	0	22.72	21.94	PASS			
		1	49	23.50	22.66	PASS			
		1	99	23.82	23.02	PASS			
	LCH	50	0	21.75	20.68	PASS			
		50	25	22.25	21.20	PASS			
		50	50	22.62	21.62	PASS			
		100	0	22.25	21.25	PASS			
		1	0	23.87	23.06	PASS			
	МСН	1	49	23.13	22.29	PASS			
QPSK /		1	99	22.25	21.43	PASS			
16QAM		50	0	22.26	21.56	PASS			
TOQAW		50	25	21.93	21.13	PASS			
		50	50	21.31	20.48	PASS			
		100	0	22.27	21.30	PASS			
		1	0	22.56	21.75	PASS			
		1	49	23.97	23.09	PASS			
		1	99	24.04	23.42	PASS			
	HCH	50	0	21.83	20.83	PASS			
		50	25	22.46	21.52	PASS			
		50	50	22.71	21.86	PASS			
		100	0	22.54	21.35	PASS			

### A.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Charmer	[dB]	[dB]	verdict		
	LCH	6.02	<13	PASS		
QPSK	MCH	5.68	<13	PASS		
	HCH	5.60	<13	PASS		
	LCH	7.03	<13	PASS		
16QAM	MCH	6.71	<13	PASS		
	HCH	6.61	<13	PASS		

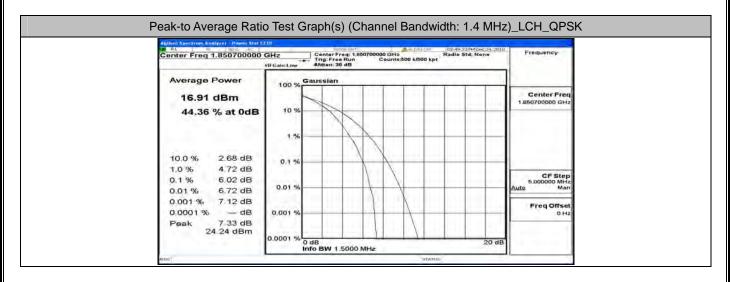
	Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Channel	[dB]	[dB]	verdict			
	LCH	5.97	<13	PASS			
QPSK	MCH	5.71	<13	PASS			
	HCH	5.74	<13	PASS			
16QAM	LCH	6.89	<13	PASS			
	MCH	6.61	<13	PASS			
	HCH	6.48	<13	PASS			

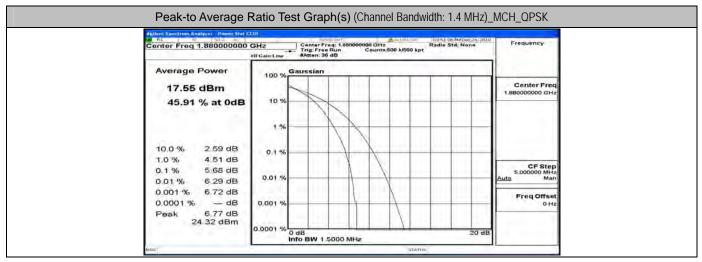
	Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
iviodulation	Charmer	[dB]	[dB]	verdict			
	LCH	6.09	<13	PASS			
QPSK	MCH	5.76	<13	PASS			
	HCH	5.68	<13	PASS			
	LCH	6.97	<13	PASS			
16QAM	MCH	6.58	<13	PASS			
	HCH	6.44	<13	PASS			

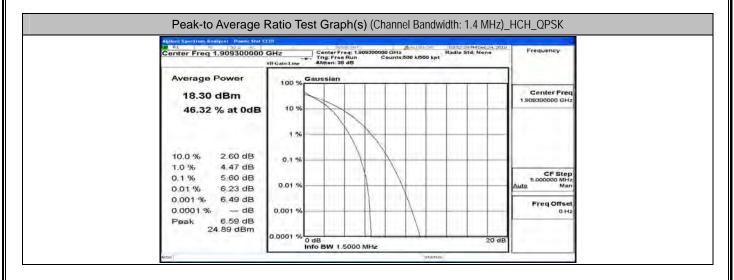
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Gnanner	[dB]	[dB]	verdict		
	LCH	6.04	<13	PASS		
QPSK	MCH	5.68	<13	PASS		
	HCH	5.63	<13	PASS		
	LCH	6.74	<13	PASS		
16QAM	MCH	6.43	<13	PASS		
	HCH	6.38	<13	PASS		

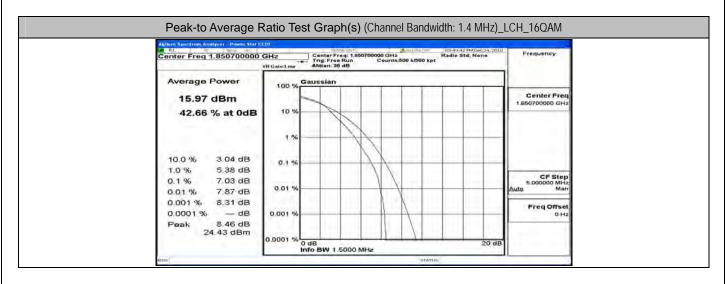
	Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Charmer	[dB]	[dB]	verdict			
	LCH	5.22	<13	PASS			
QPSK	MCH	4.90	<13	PASS			
	HCH	4.91	<13	PASS			
	LCH	6.51	<13	PASS			
16QAM	MCH	6.27	<13	PASS			
	HCH	6.23	<13	PASS			

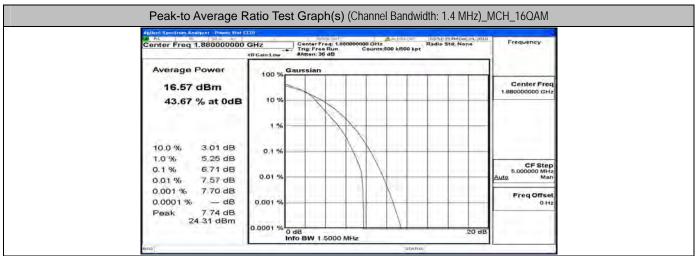
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Madulatian	Channel	Peak-to-Average Ratio	Limit	Verdict
Modulation		[dB]	[dB]	
	LCH	5.77	<13	PASS
QPSK	MCH	5.64	<13	PASS
	HCH	5.71	<13	PASS
16QAM	LCH	6.88	<13	PASS
	MCH	6.77	<13	PASS
	HCH	6.71	<13	PASS

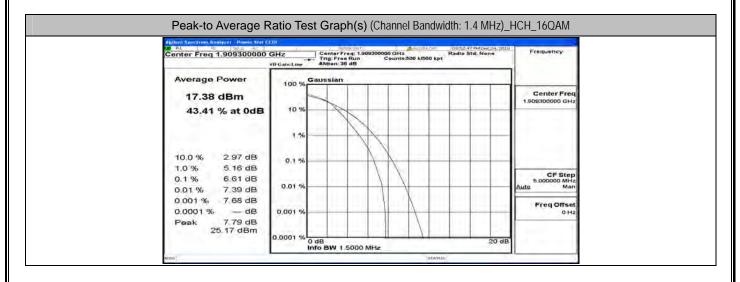


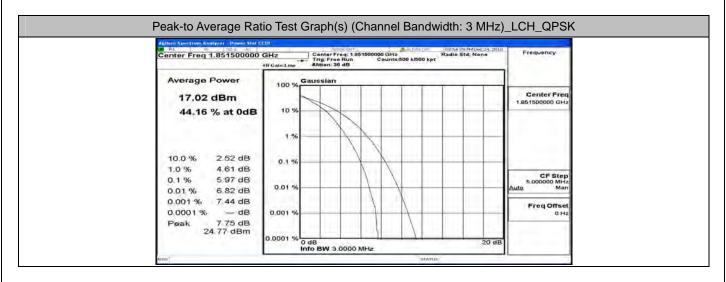


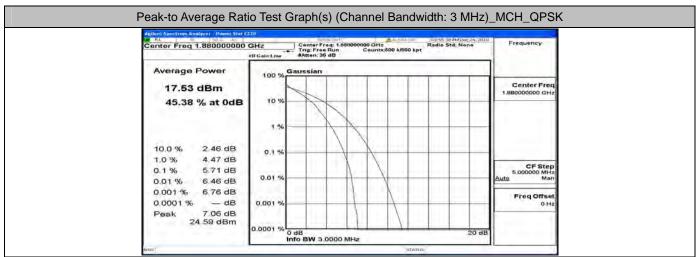


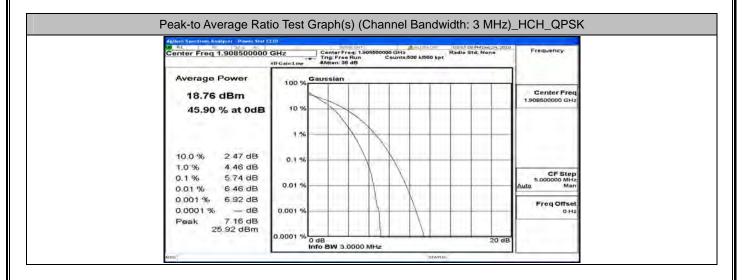


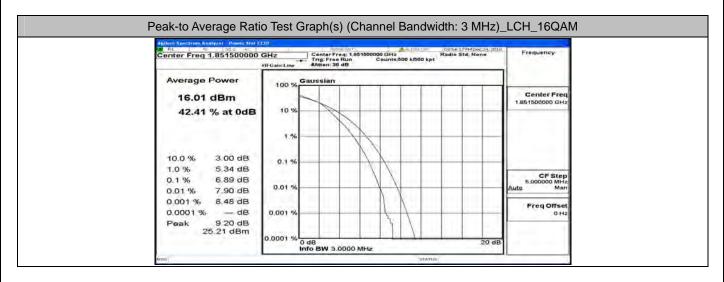


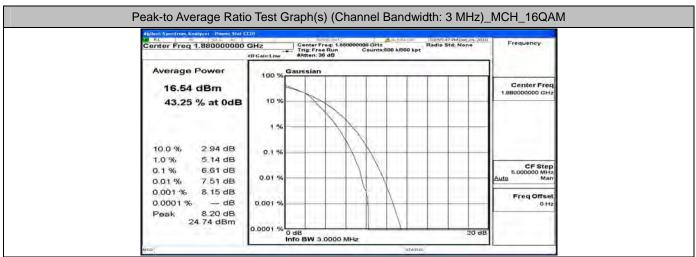


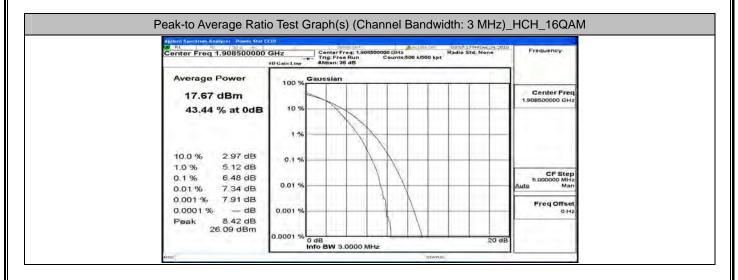


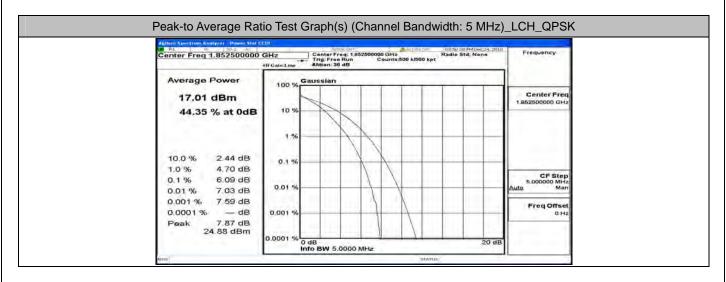


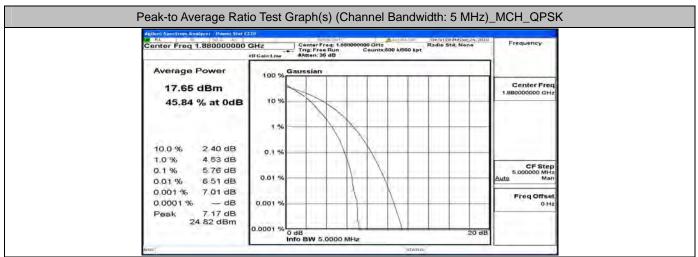


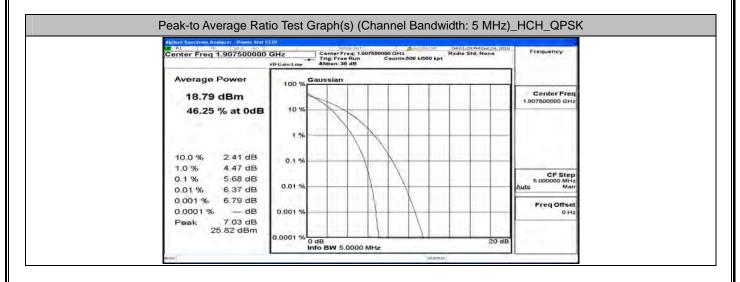


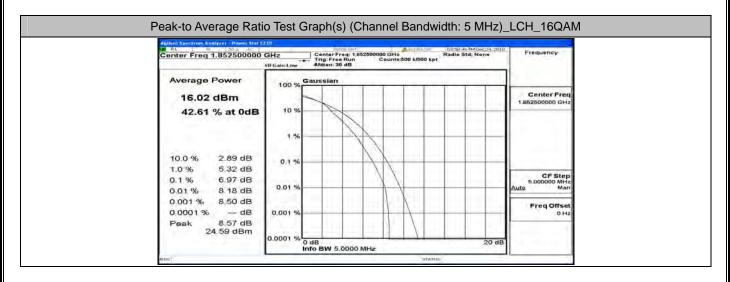


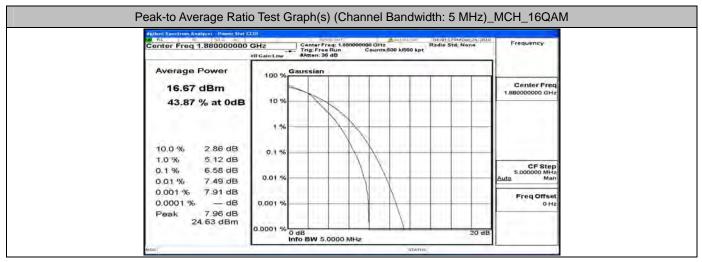


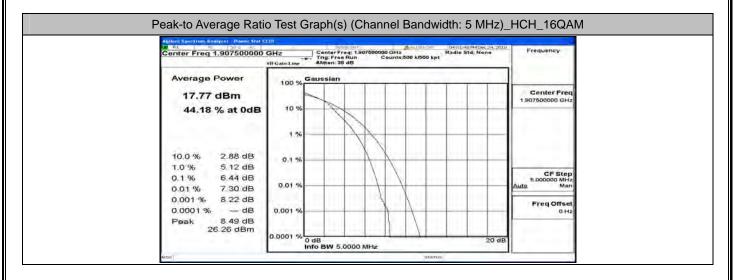


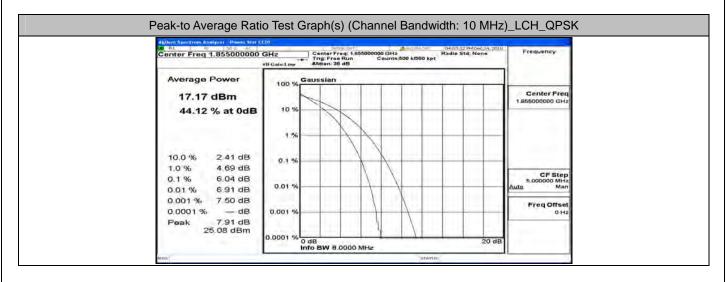


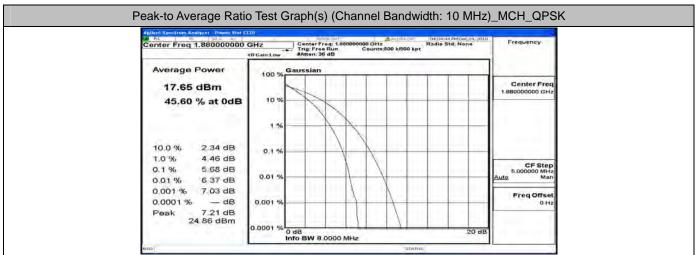


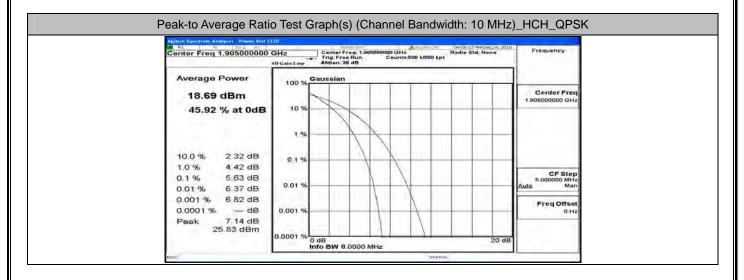


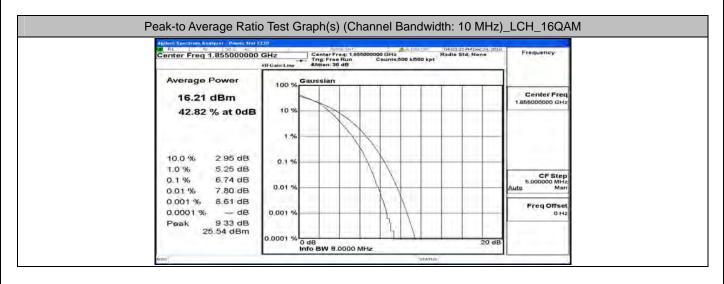


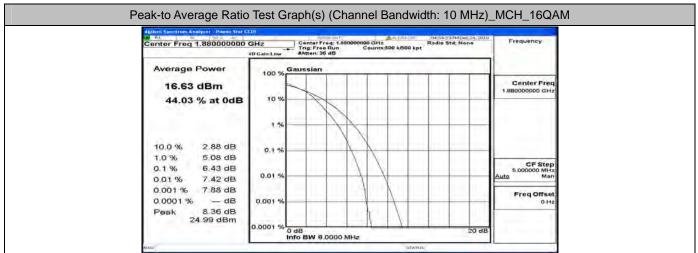


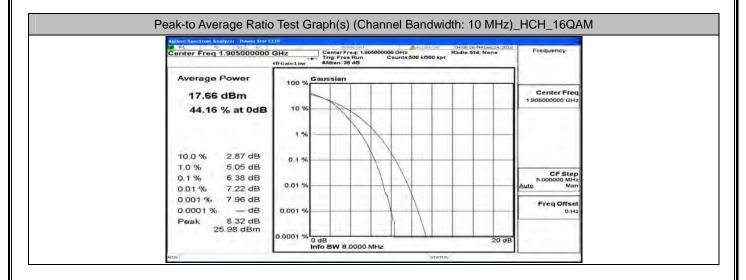


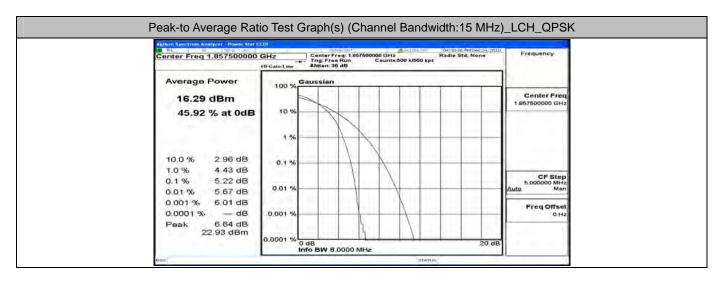


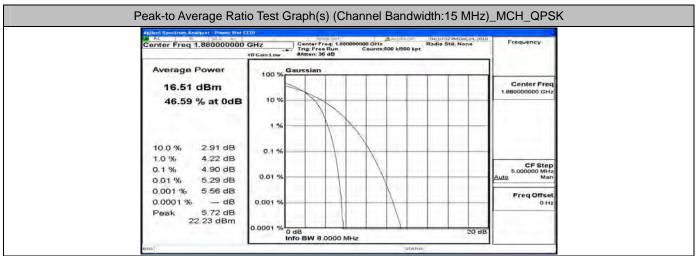


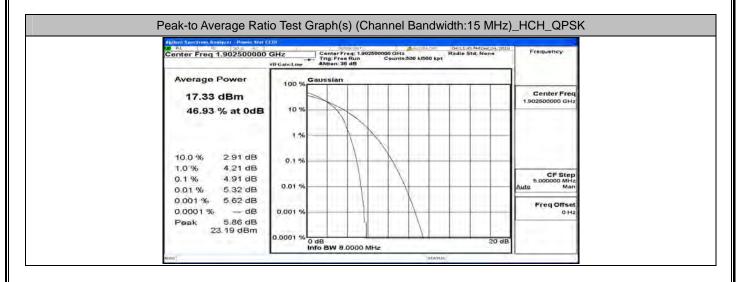


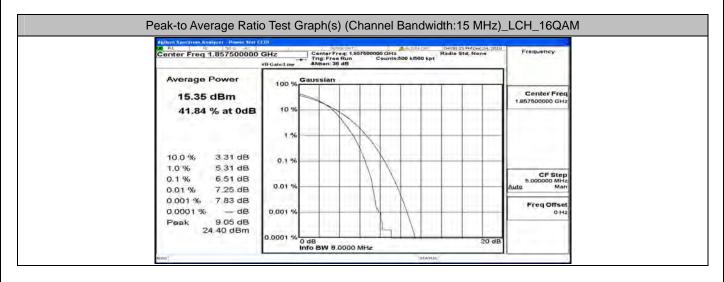


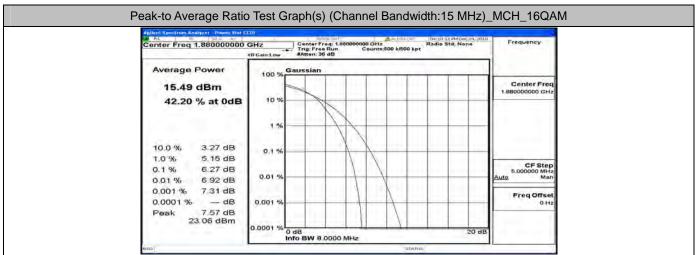


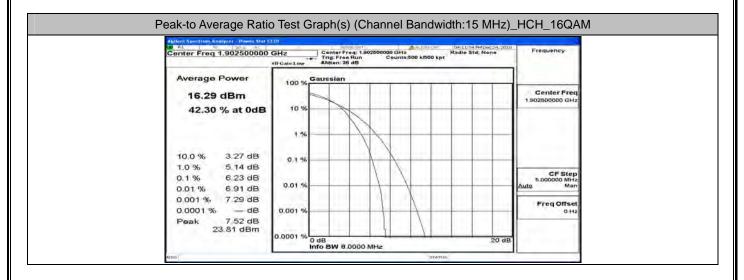


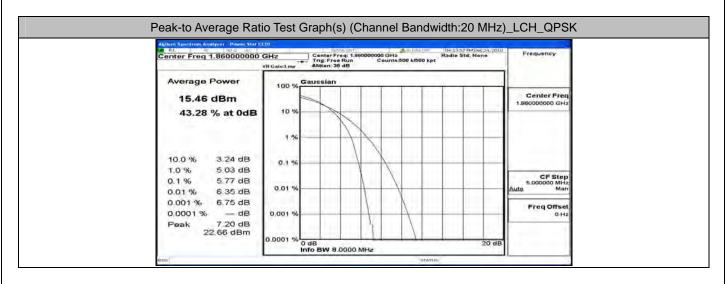


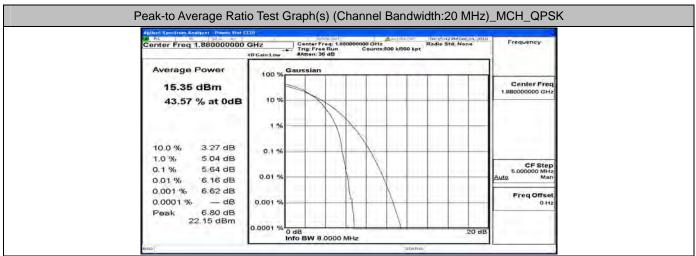


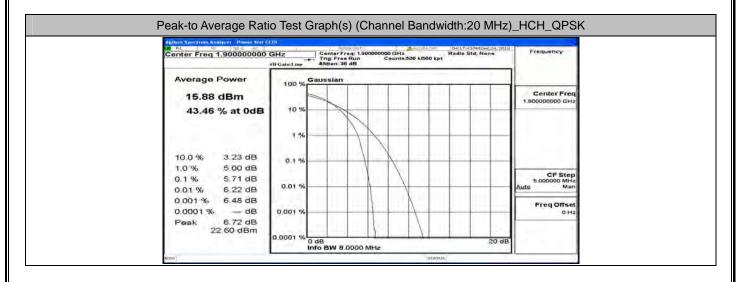


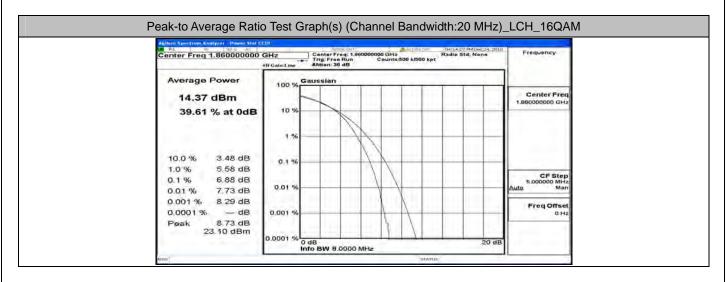


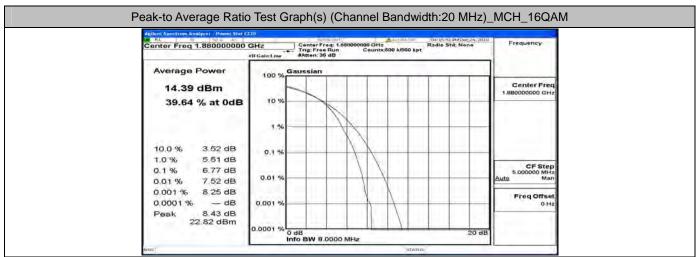


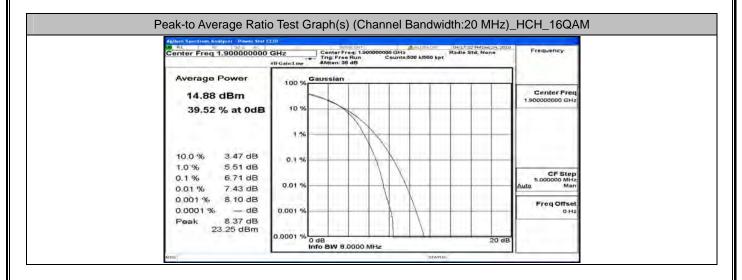












## A.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Wiodulation		(MHz)	(MHz)	
QPSK	LCH	1.0757	1.223	PASS
	MCH	1.0761	1.213	PASS
	HCH	1.0759	1.228	PASS
16QAM	LCH	1.0797	1.239	PASS
	MCH	1.0763	1.240	PASS
	HCH	1.0768	1.230	PASS

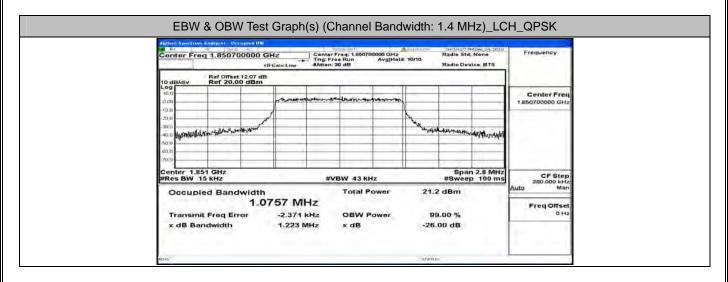
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	2.6772	2.831	PASS
	MCH	2.6750	2.820	PASS
	HCH	2.6773	2.833	PASS
16QAM	LCH	2.6806	2.813	PASS
	MCH	2.6802	2.814	PASS
	HCH	2.6786	2.825	PASS

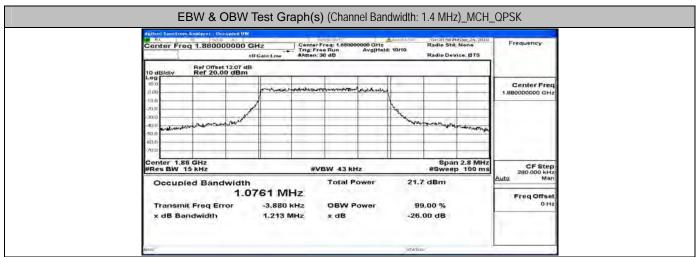
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Iviodulation		(MHz)	(MHz)	
QPSK	LCH	4.4782	4.840	PASS
	MCH	4.4733	4.826	PASS
	HCH	4.4741	4.874	PASS
16QAM	LCH	4.4714	4.883	PASS
	MCH	4.4828	4.839	PASS
	HCH	4.4741	4.873	PASS

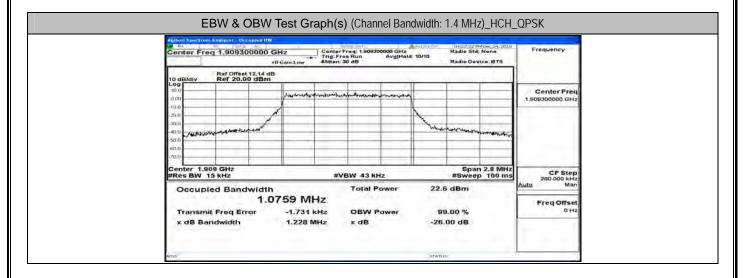
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	8.9500	9.537	PASS
	MCH	8.9382	9.561	PASS
	HCH	8.9257	9.493	PASS
16QAM	LCH	8.9518	9.516	PASS
	MCH	8.9343	9.441	PASS
	HCH	8.9261	9.513	PASS

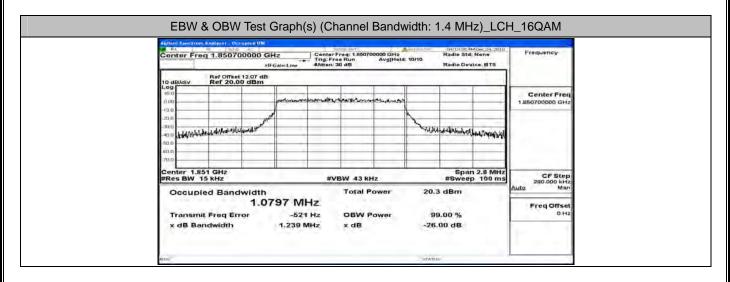
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	13.409	14.13	PASS
	MCH	13.384	14.08	PASS
	HCH	13.378	14.12	PASS
16QAM	LCH	13.409	14.12	PASS
	MCH	13.387	14.12	PASS
	HCH	13.377	14.03	PASS

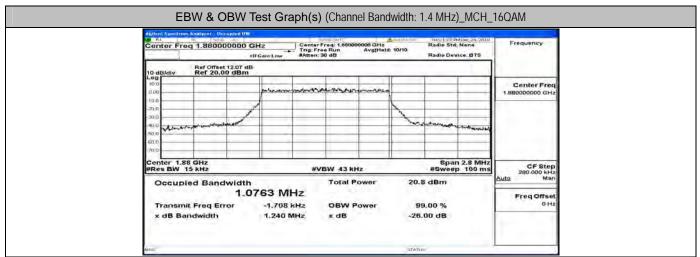
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	17.844	18.64	PASS
	MCH	17.820	18.61	PASS
	HCH	17.815	18.57	PASS
16QAM	LCH	17.853	18.60	PASS
	MCH	17.831	18.60	PASS
	HCH	17.818	18.55	PASS

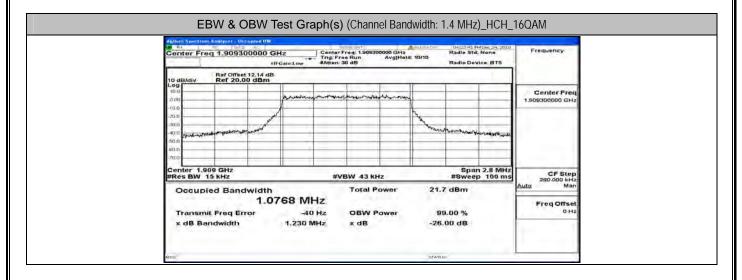


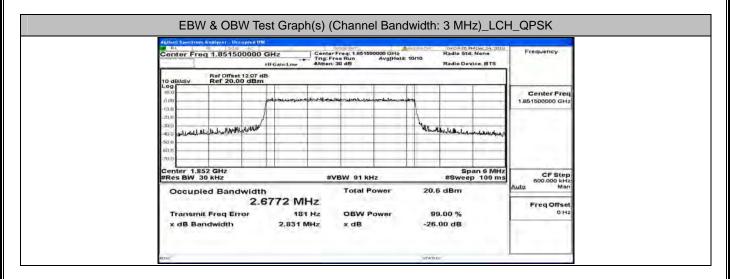


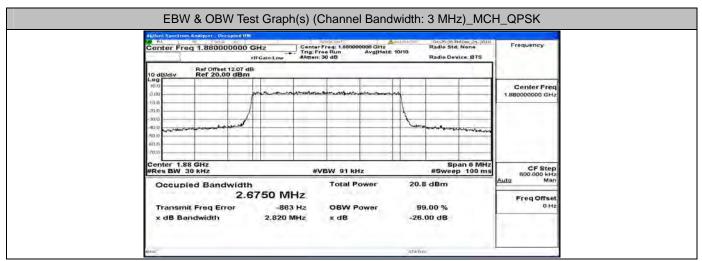


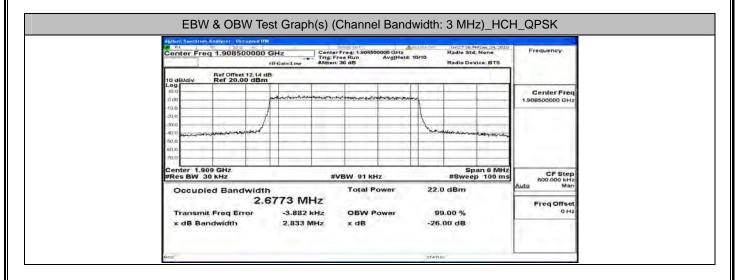


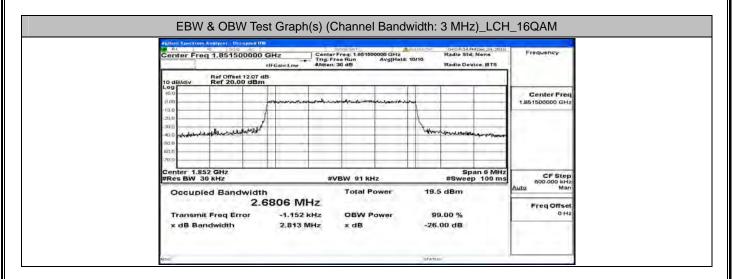


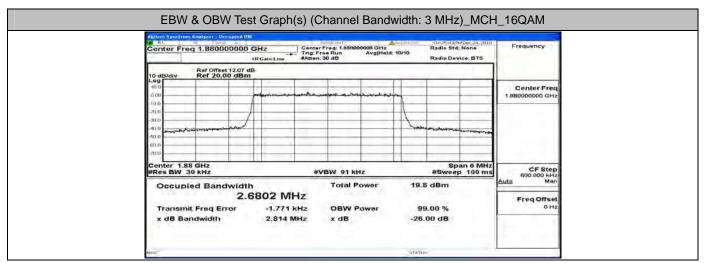


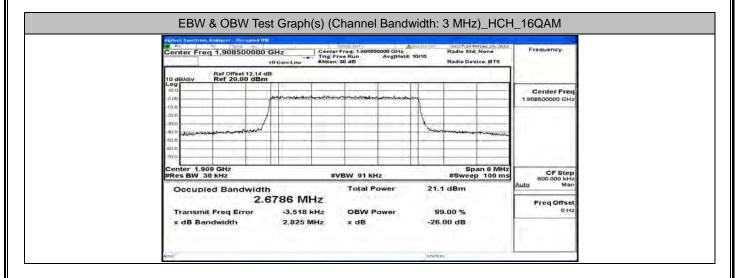


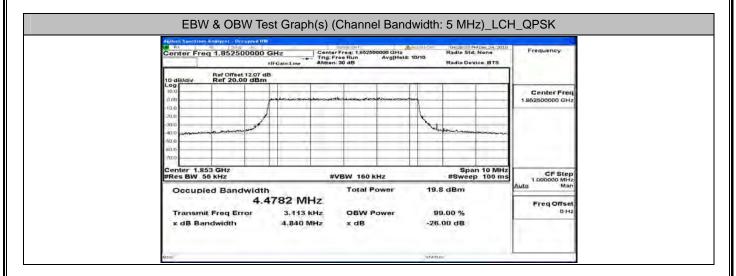


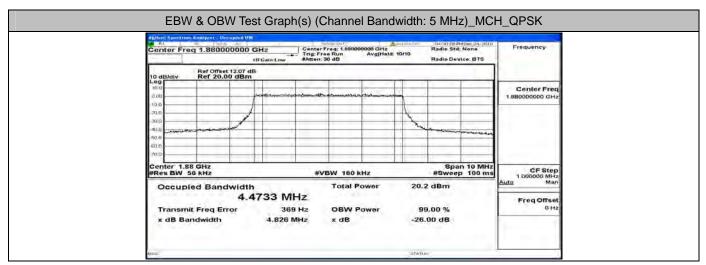


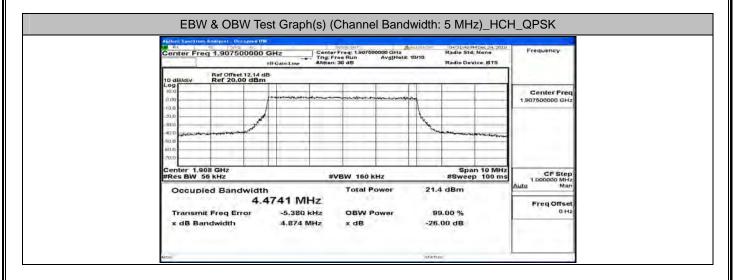


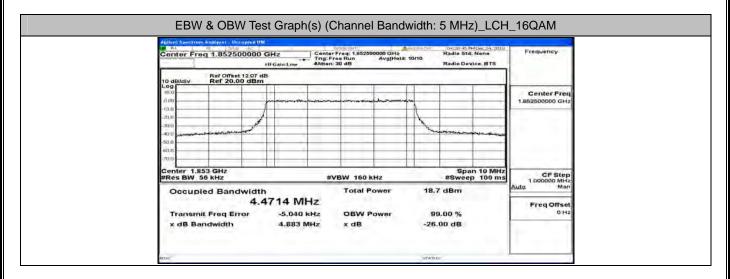


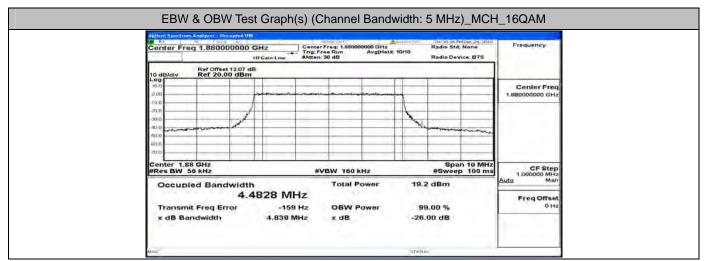


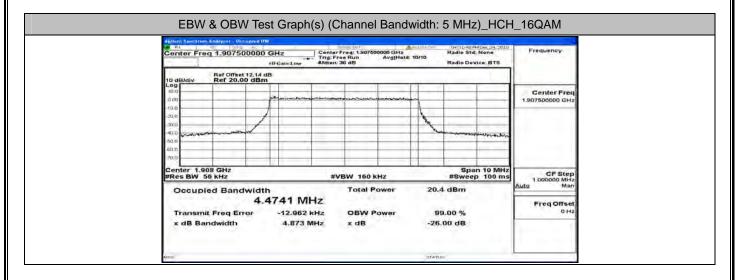


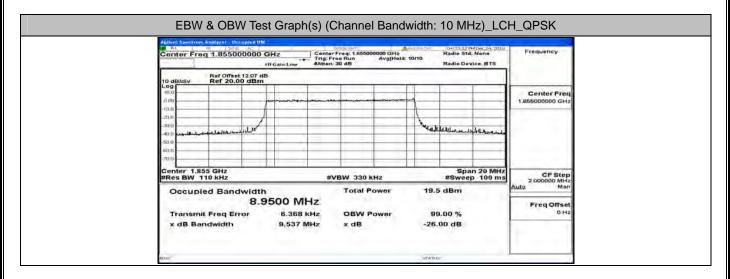


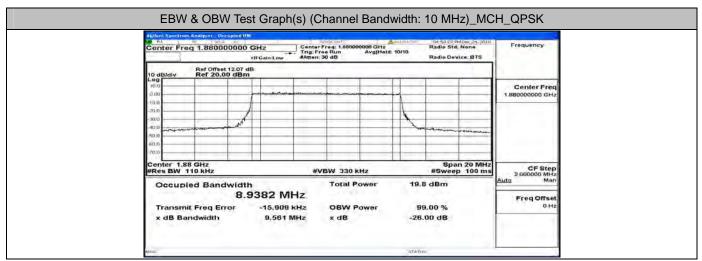


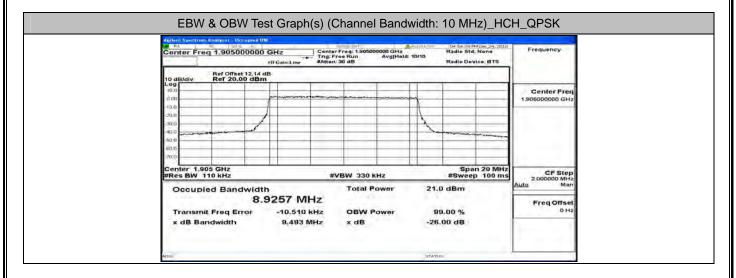


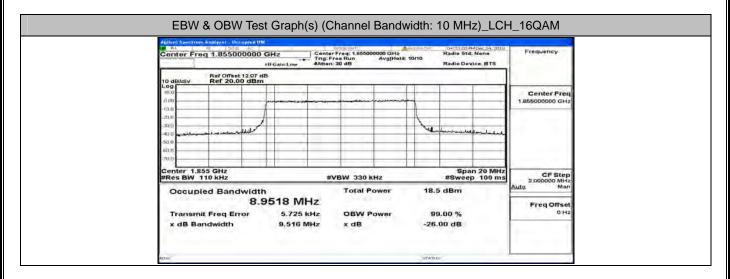


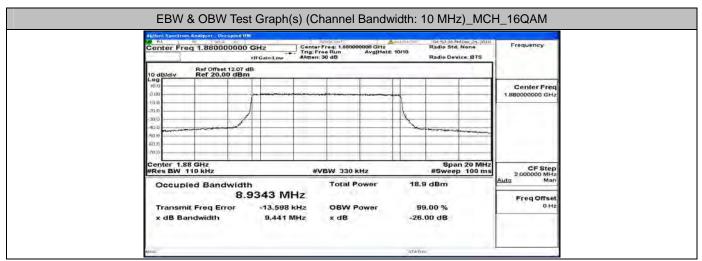


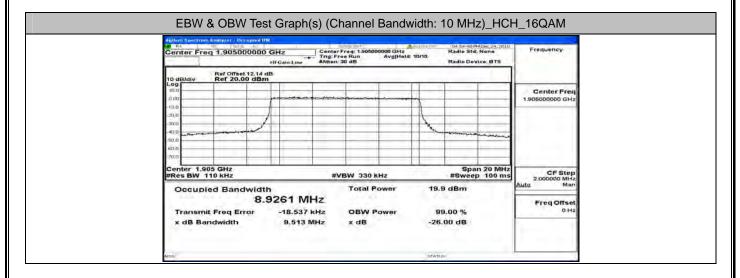


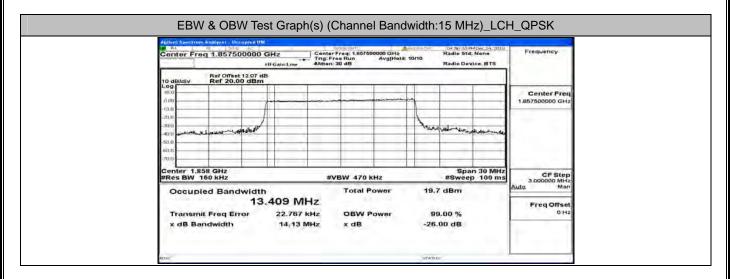


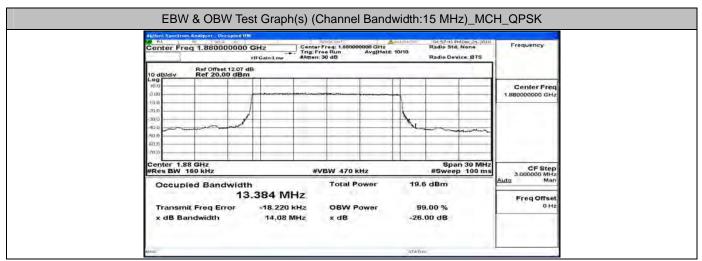


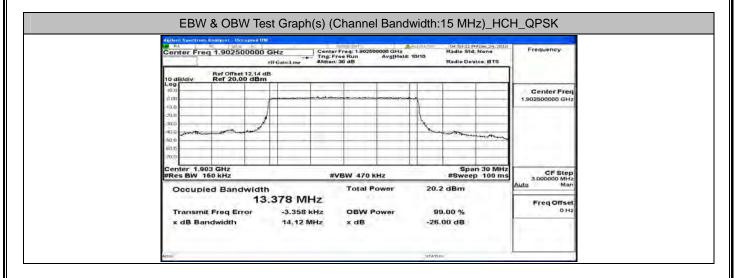


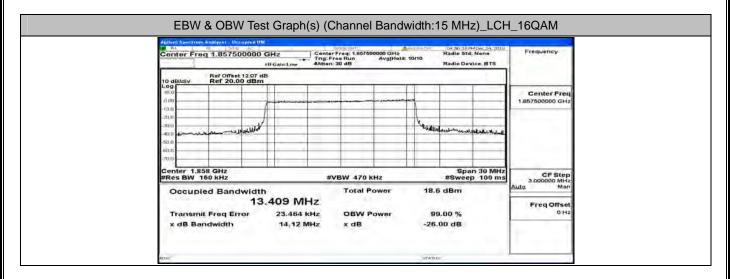


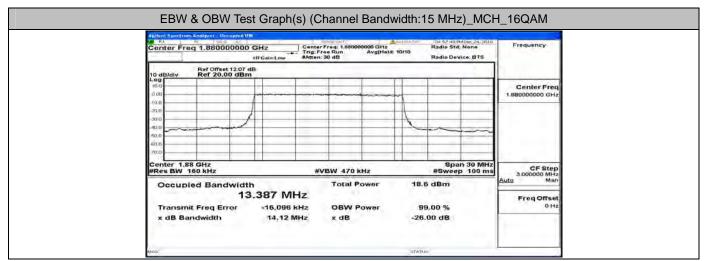


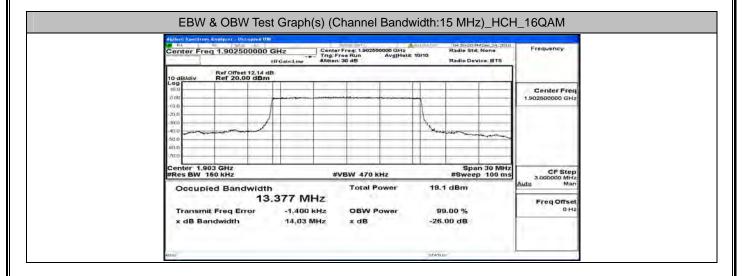


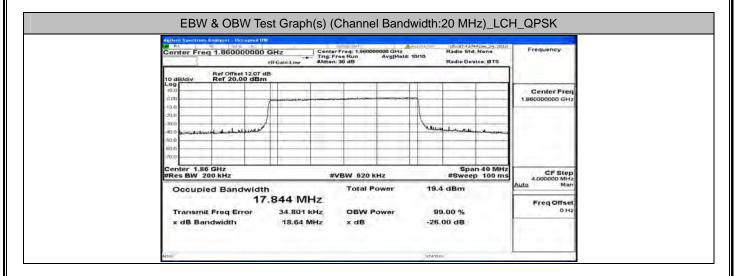


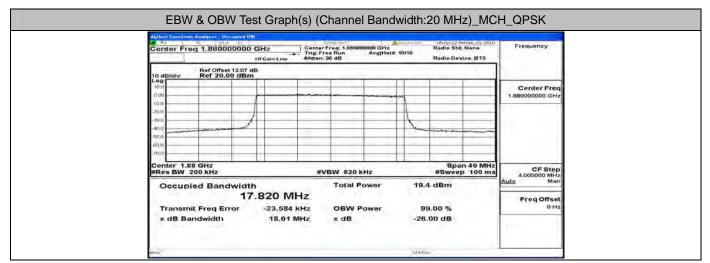


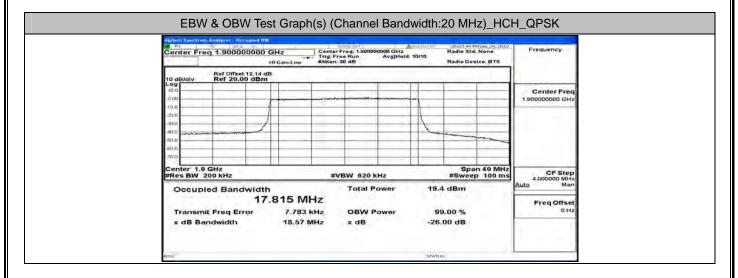


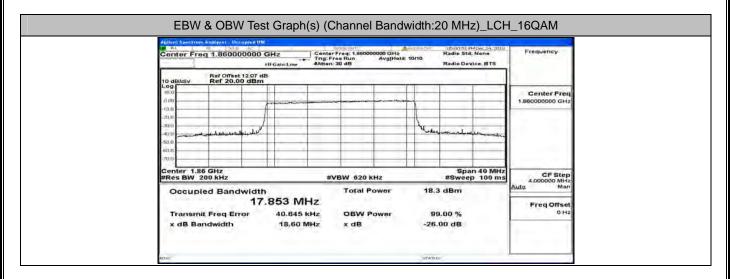


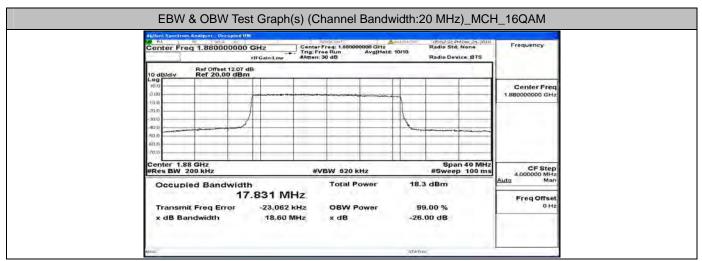


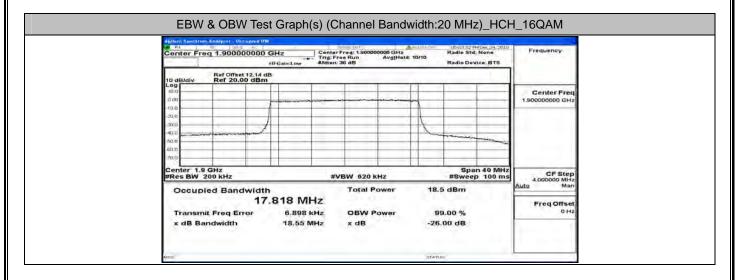




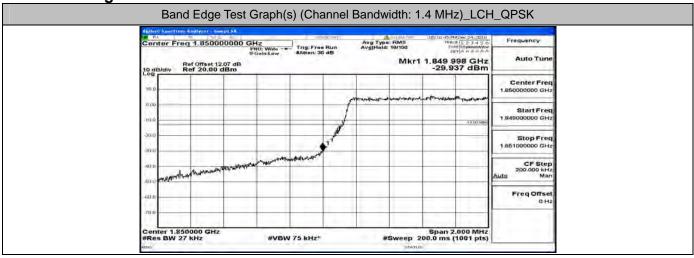


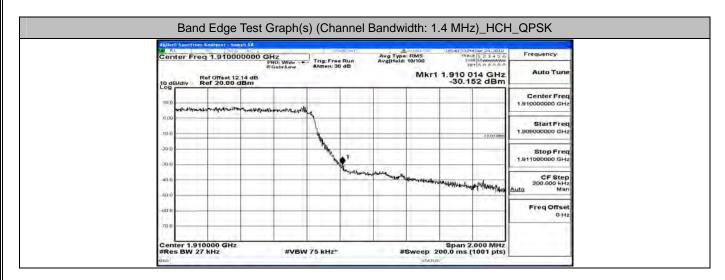


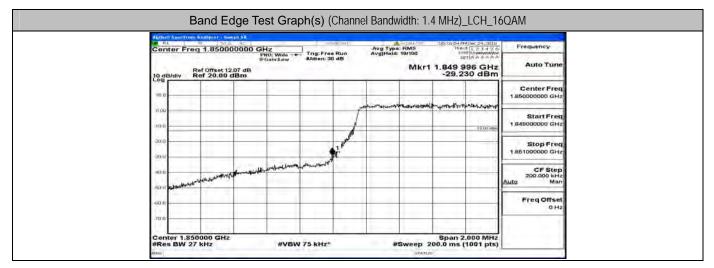


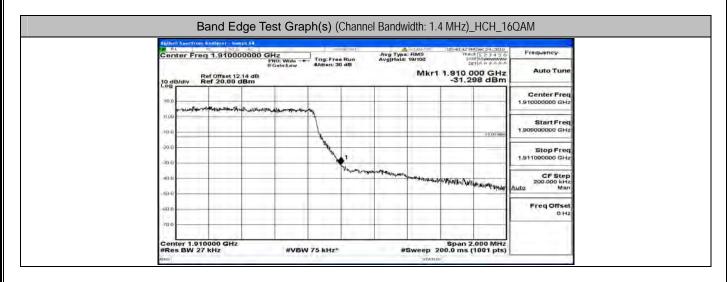


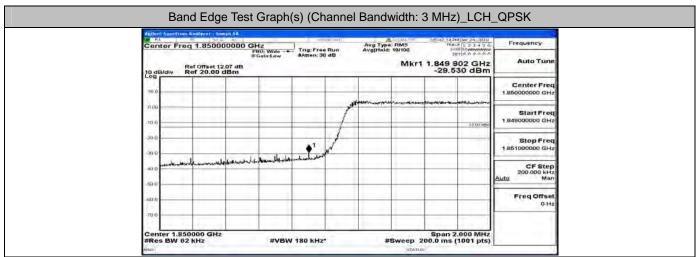
#### A.4 Band Edge

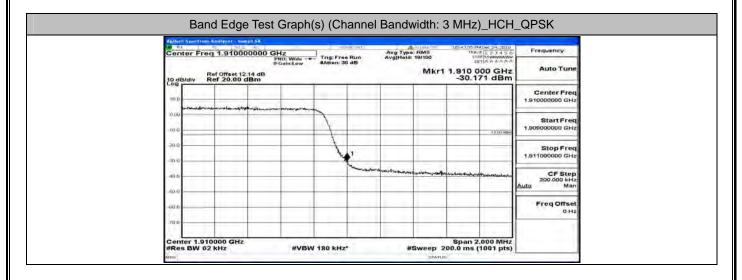


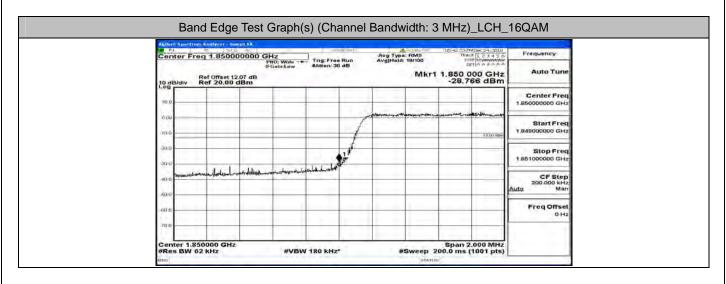


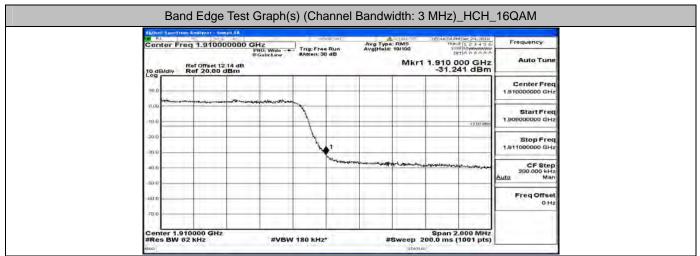


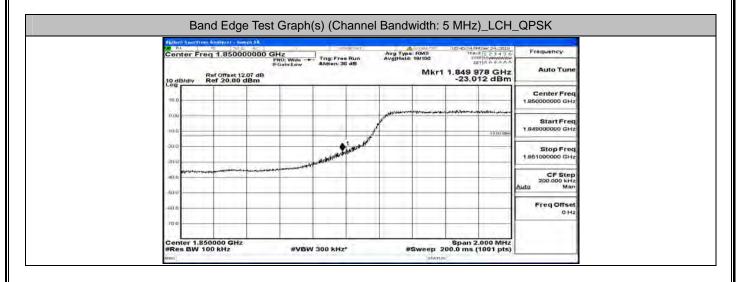


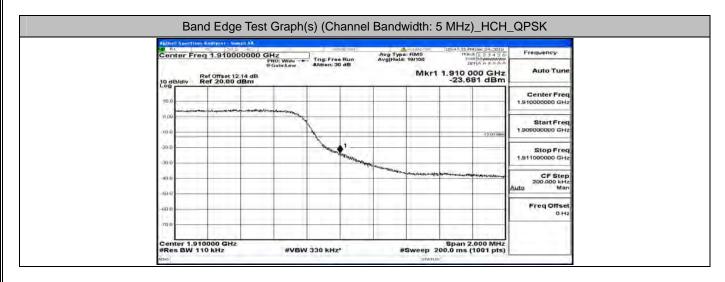


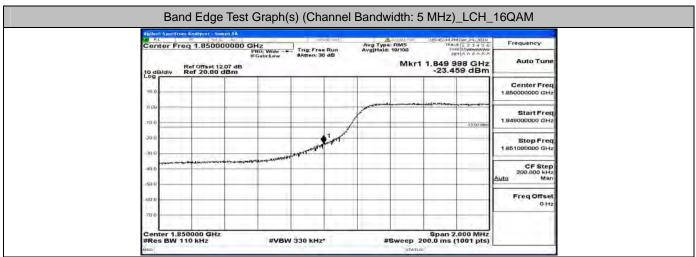


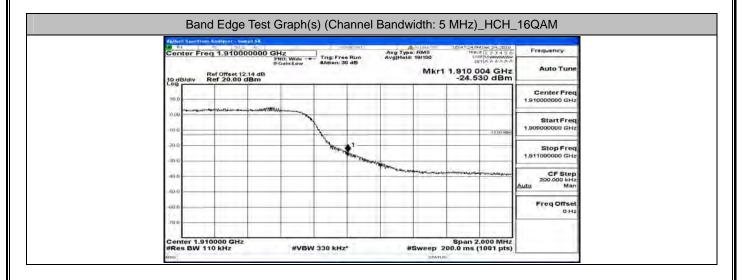


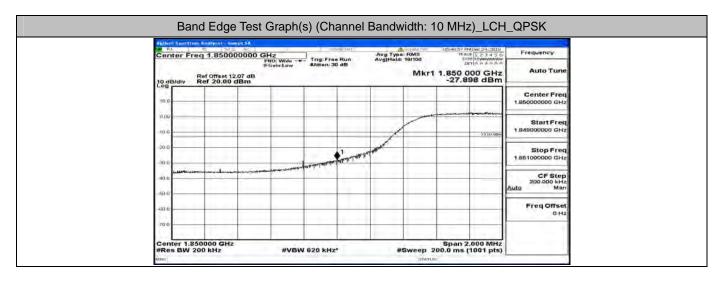


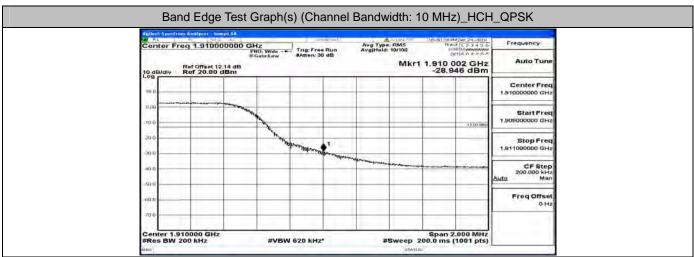


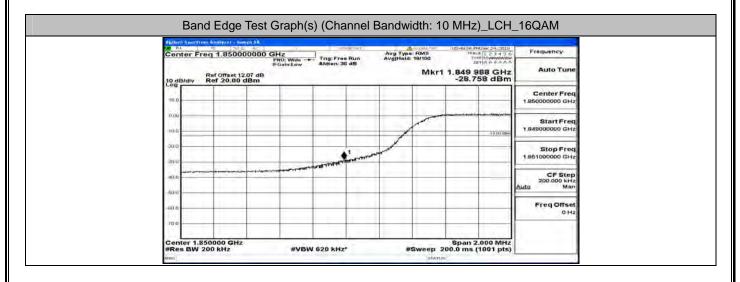


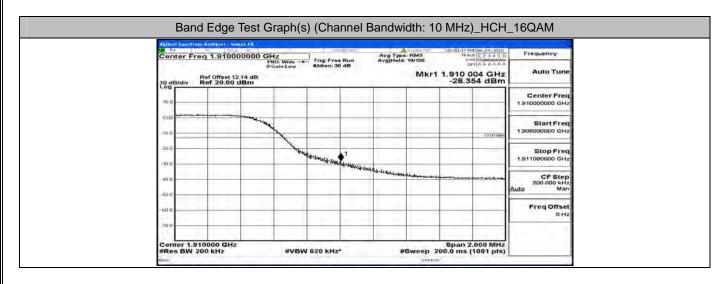


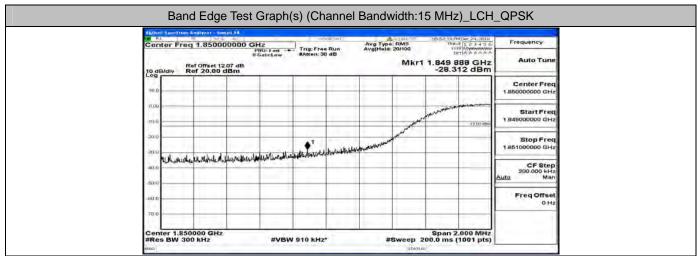


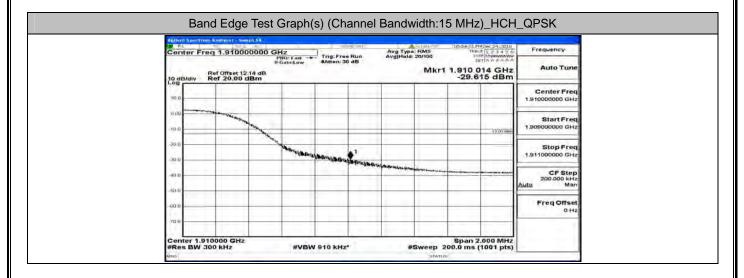


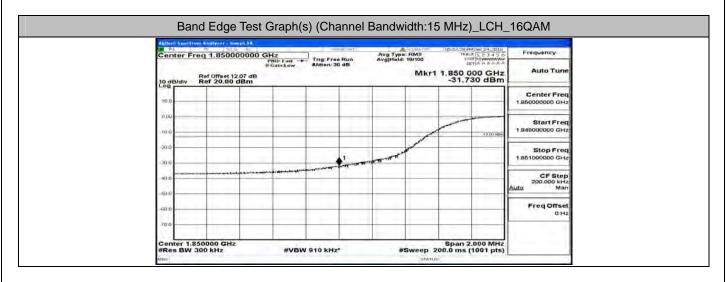


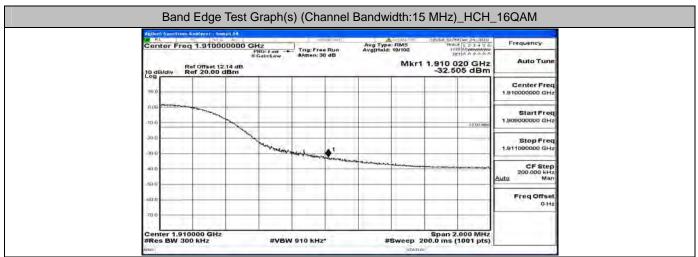


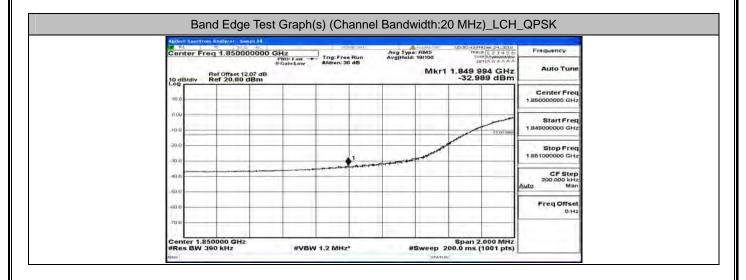


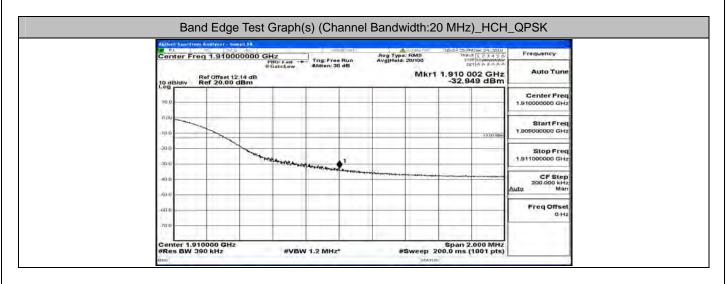


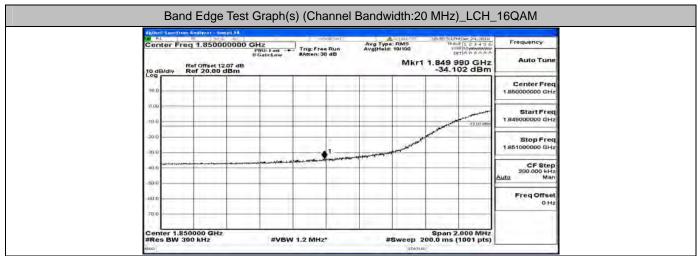


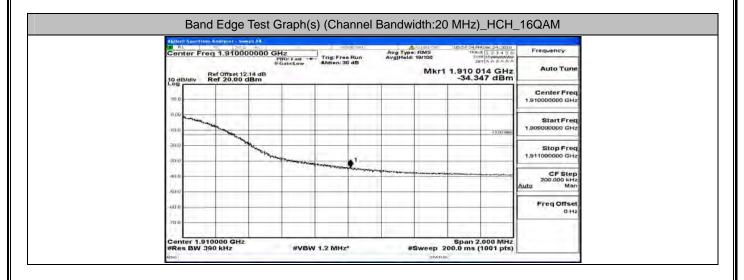












## A.5 Conducted Spurious Emission

