# Appendix E: Test Data for E-UTRA Band 4

**Product Name: Tablet pc** Trade Mark: N/A Test Model: 10LB1

#### **Environmental Conditions**

Temperature:	24.2° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Li Huan

### **E.1 Conducted Output Power**

	Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)								
Madulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict			
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict			
		1	0	24.63	23.81	PASS			
		1	3	24.66	23.87	PASS			
		1	5	24.41	23.67	PASS			
	LCH	3	0	24.64	23.77	PASS			
		3	2	24.60	23.71	PASS			
		3	3	24.53	23.63	PASS			
		6	0	23.65	22.57	PASS			
		1	0	24.75	23.95	PASS			
		1	3	24.95	24.13	PASS			
QPSK /		1	5	24.77	23.94	PASS			
16QAM	MCH	3	0	24.79	23.69	PASS			
TOQAIVI		3	2	24.80	23.73	PASS			
		3	3	24.78	23.70	PASS			
		6	0	23.91	22.75	PASS			
		1	0	20.63	19.91	PASS			
		1	3	20.81	19.97	PASS			
		1	5	20.66	19.92	PASS			
	HCH	3	0	20.70	19.79	PASS			
		3	2	20.72	19.83	PASS			
		3	3	20.74	19.88	PASS			
		6	0	19.78	18.85	PASS			

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a.u.di.a.t		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	24.57	23.84	PASS		
		1	7	24.40	23.79	PASS		
		1	14	24.07	23.35	PASS		
	LCH	8	0	23.54	22.57	PASS		
		8	4	23.43	22.47	PASS		
		8	7	23.28	22.28	PASS		
		15	0	23.40	22.35	PASS		
		1	0	24.76	23.93	PASS		
	мсн	1	7	25.03	24.18	PASS		
QPSK /		1	14	24.73	23.97	PASS		
16QAM		8	0	23.86	22.74	PASS		
TOQAIVI		8	4	23.91	22.78	PASS		
		8	7	23.84	22.75	PASS		
		15	0	23.74	22.70	PASS		
		1	0	20.69	19.97	PASS		
		1	7	20.89	20.20	PASS		
		1	14	20.71	20.05	PASS		
	HCH	8	0	19.64	18.59	PASS		
		8	4	19.68	18.64	PASS		
		8	7	19.70	18.63	PASS		
		15	0	19.65	18.62	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)								
Marabalatian	Observat	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	) /li t		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	24.57	23.84	PASS		
		1	12	24.45	23.51	PASS		
		1	24	23.73	23.03	PASS		
	LCH	12	0	23.45	22.49	PASS		
		12	6	23.24	22.32	PASS		
		12	13	22.97	22.09	PASS		
		25	0	23.24	22.21	PASS		
		1	0	24.53	23.63	PASS		
	МСН	1	12	25.07	24.10	PASS		
QPSK /		1	24	24.59	23.70	PASS		
16QAM		12	0	23.73	22.75	PASS		
IOQAIVI		12	6	23.80	22.85	PASS		
		12	13	23.70	22.74	PASS		
		25	0	23.70	22.66	PASS		
		1	0	20.67	19.90	PASS		
		1	12	21.01	20.01	PASS		
		1	24	20.71	19.87	PASS		
	HCH	12	0	19.63	18.55	PASS		
		12	6	19.67	18.68	PASS		
		12	13	19.74	18.70	PASS		
		25	0	19.67	18.70	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/andiat		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	24.51	23.73	PASS		
		1	24	23.86	23.15	PASS		
		1	49	23.27	22.54	PASS		
	LCH	25	0	23.20	22.17	PASS		
		25	12	22.80	21.80	PASS		
		25	25	22.70	21.65	PASS		
		50	0	22.89	21.89	PASS		
		1	0	24.25	23.43	PASS		
	МСН	1	24	24.90	24.16	PASS		
QPSK /		1	49	24.10	23.38	PASS		
16QAM		25	0	23.63	22.53	PASS		
TOQAIVI		25	12	23.75	22.68	PASS		
		25	25	23.55	22.51	PASS		
		50	0	23.54	22.52	PASS		
		1	0	21.36	20.67	PASS		
		1	24	20.87	20.18	PASS		
		1	49	20.65	19.95	PASS		
	HCH	25	0	20.09	19.10	PASS		
		25	12	19.83	18.75	PASS		
		25	25	19.83	18.81	PASS		
		50	0	19.94	18.91	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/andiat		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	24.35	23.64	PASS		
		1	37	23.61	22.85	PASS		
		1	74	23.47	22.63	PASS		
	LCH	37	0	22.97	21.96	PASS		
		37	18	22.56	21.52	PASS		
		37	38	22.62	21.54	PASS		
		75	0	22.79	21.73	PASS		
		1	0	23.87	22.92	PASS		
	мсн	1	37	25.07	24.10	PASS		
QPSK /		1	74	23.36	22.54	PASS		
16QAM		37	0	23.57	22.46	PASS		
TOQAIVI		37	18	23.86	22.74	PASS		
		37	38	23.46	22.37	PASS		
		75	0	23.56	22.39	PASS		
		1	0	22.71	21.92	PASS		
		1	37	21.21	20.53	PASS		
		1	74	20.58	19.86	PASS		
	HCH	37	0	21.15	20.13	PASS		
		37	18	20.23	19.22	PASS		
		37	38	19.80	18.77	PASS		
		75	0	20.56	19.54	PASS		

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)								
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/ordiot		
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict		
		1	0	24.25	23.47	PASS		
		1	49	23.61	22.75	PASS		
		1	99	24.21	23.24	PASS		
	LCH	50	0	22.60	21.61	PASS		
		50	25	22.58	21.49	PASS		
		50	50	22.87	21.79	PASS		
		100	0	22.81	21.75	PASS		
		1	0	23.40	22.63	PASS		
	мсн	1	49	25.06	24.22	PASS		
QPSK /		1	99	22.42	21.71	PASS		
16QAM		50	0	23.25	22.25	PASS		
IOQAIVI		50	25	23.61	22.61	PASS		
		50	50	22.98	21.97	PASS		
		100	0	23.14	22.05	PASS		
		1	0	24.01	23.25	PASS		
		1	49	21.64	20.94	PASS		
		1	99	20.32	19.67	PASS		
	HCH	50	0	22.41	21.41	PASS		
		50	25	20.87	19.85	PASS		
		50	50	20.06	19.05	PASS		
		100	0	21.46	20.42	PASS		

# E.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	Griannei	[dB]	[dB]	verdict			
	LCH	4.91	<13	PASS			
QPSK	MCH	4.12	<13	PASS			
	HCH	5.3	<13	PASS			
	LCH	5.9	<13	PASS			
16QAM	MCH	5.06	<13	PASS			
	HCH	6.29	<13	PASS			

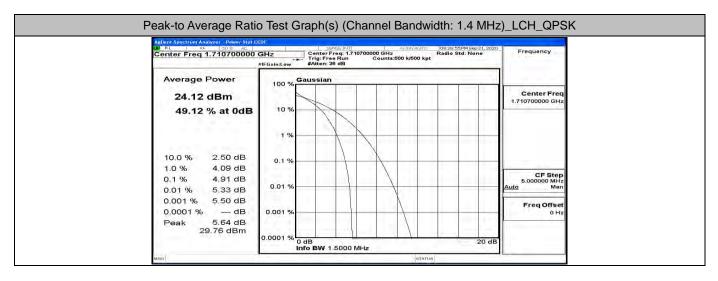
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Vordict		
Modulation	Channel	[dB]	[dB]	Verdict		
	LCH	5.2	<13	PASS		
QPSK	MCH	4.48	<13	PASS		
	HCH	5.31	<13	PASS		
16QAM	LCH	6.16	<13	PASS		
	MCH	5.25	<13	PASS		
	HCH	6.2	<13	PASS		

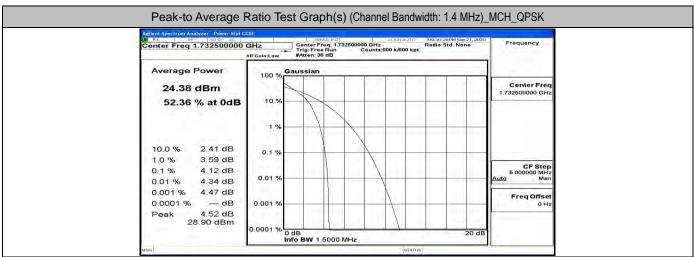
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Griannei	[dB]	[dB]	verdict			
	LCH	5.31	<13	PASS			
QPSK	MCH	4.43	<13	PASS			
	HCH	5.55	<13	PASS			
	LCH	5.98	<13	PASS			
16QAM	MCH	5.28	<13	PASS			
	HCH	6.26	<13	PASS			

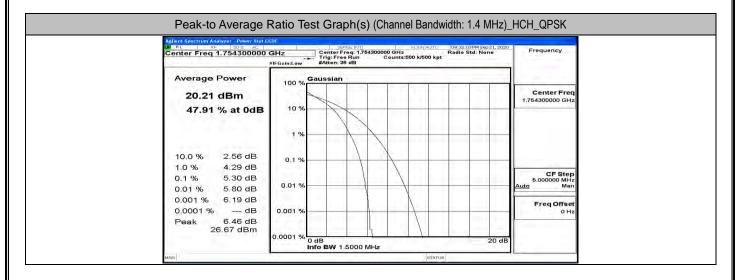
	Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict				
Modulation	Charmer	[dB]	[dB]	verdict				
QPSK	LCH	5.42	<13	PASS				
	MCH	4.61	<13	PASS				
	HCH	5.56	<13	PASS				
16QAM	LCH	6.14	<13	PASS				
	MCH	5.44	<13	PASS				
	HCH	6.31	<13	PASS				

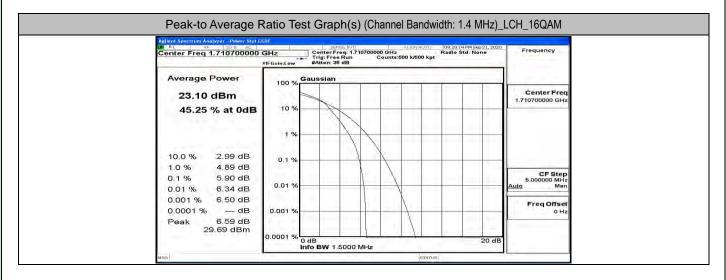
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)							
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict			
Modulation	Griannei	[dB]	[dB]	verdict			
	LCH	5.16	<13	PASS			
QPSK	MCH	4.89	<13	PASS			
	HCH	5.1	<13	PASS			
16QAM	LCH	6.29	<13	PASS			
	MCH	5.96	<13	PASS			
	HCH	6.26	<13	PASS			

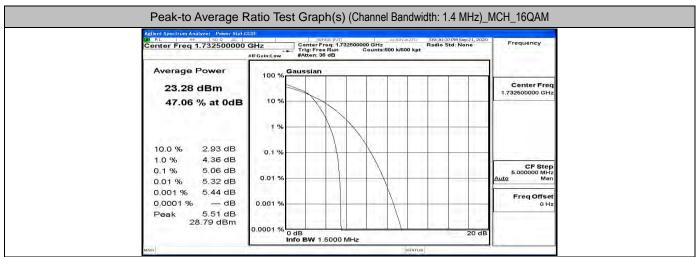
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
iviodulation		[dB]	[dB]		
QPSK	LCH	5.86	<13	PASS	
	MCH	5.73	<13	PASS	
	HCH	5.82	<13	PASS	
16QAM	LCH	6.79	<13	PASS	
	MCH	6.56	<13	PASS	
	HCH	6.66	<13	PASS	

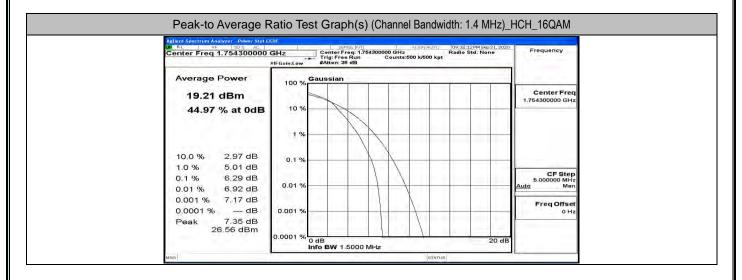


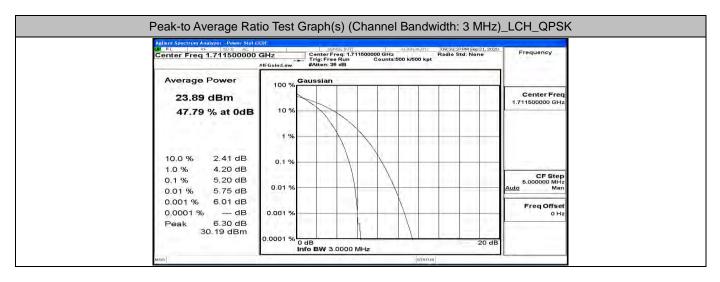


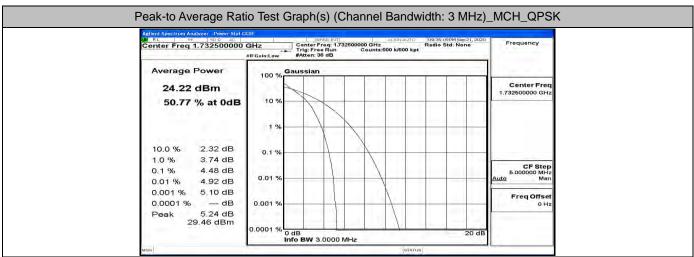


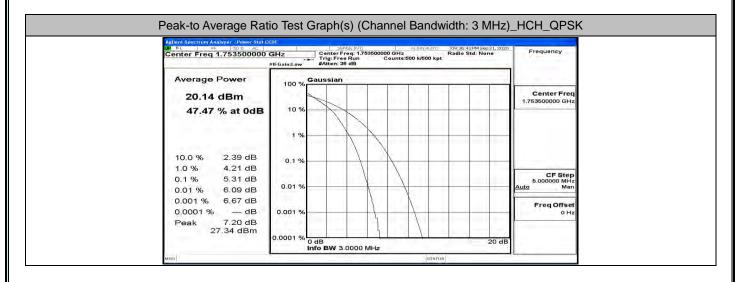


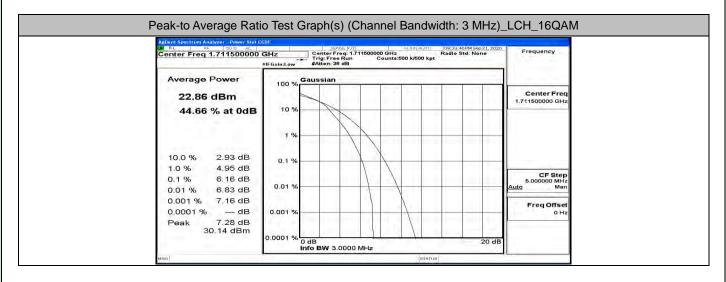


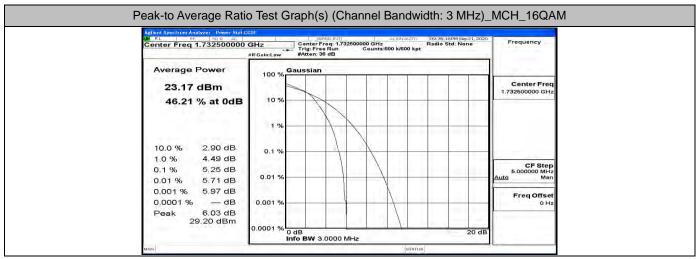


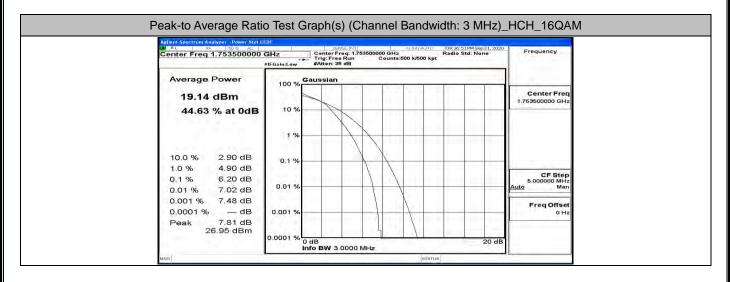


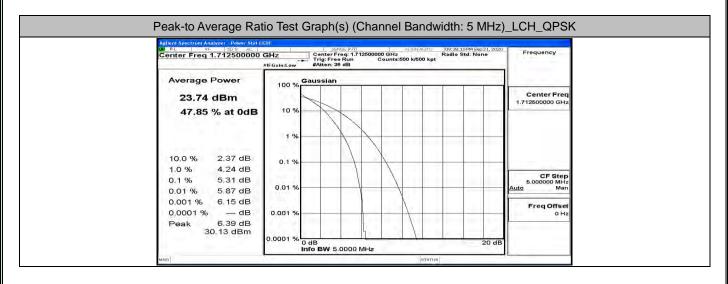


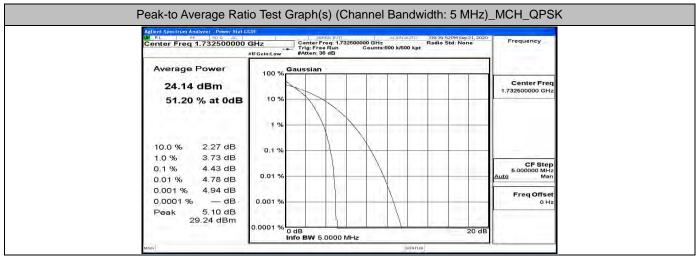


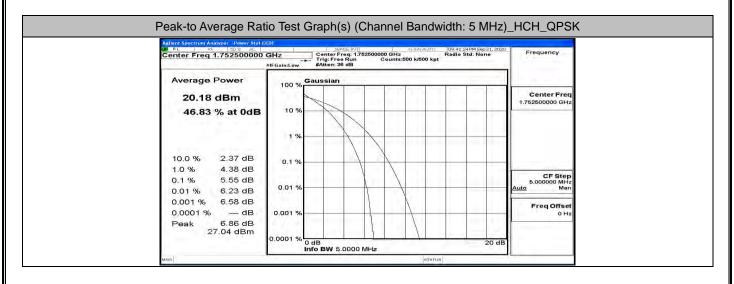


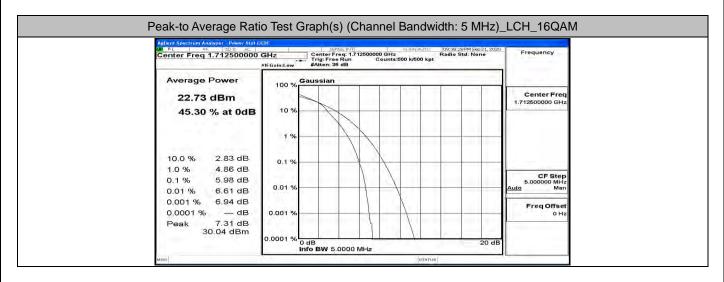


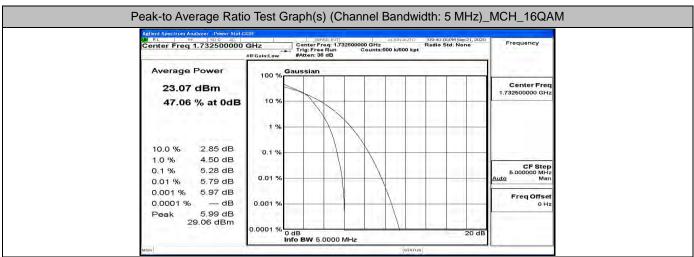


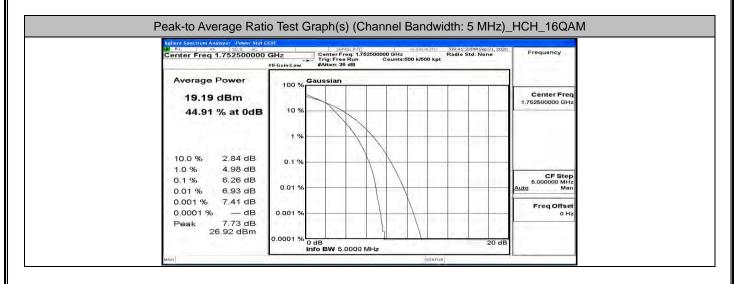


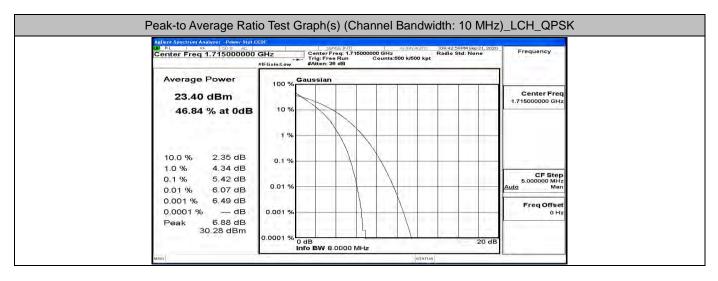


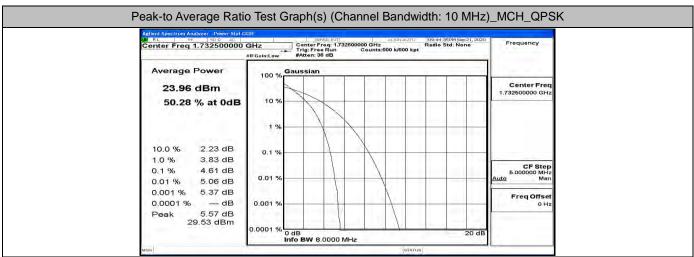


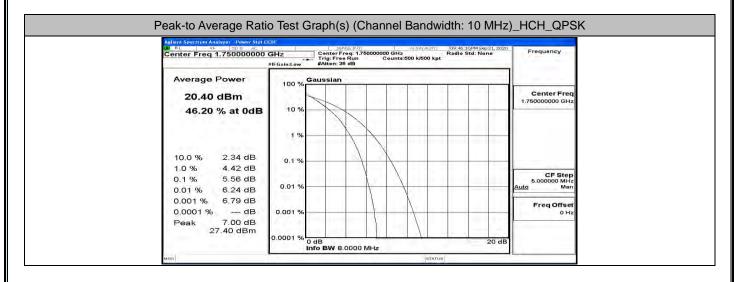


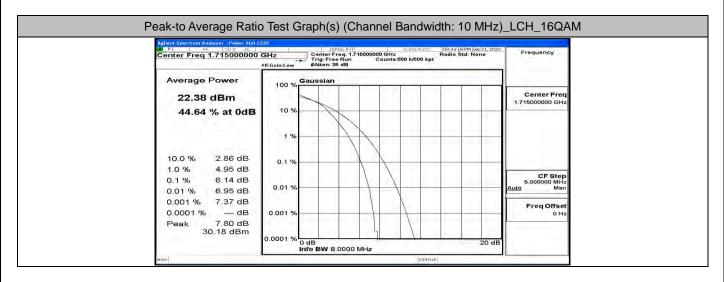


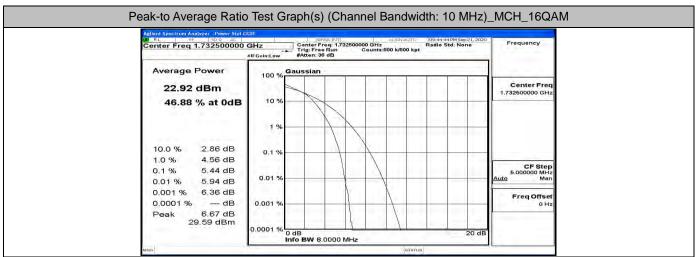


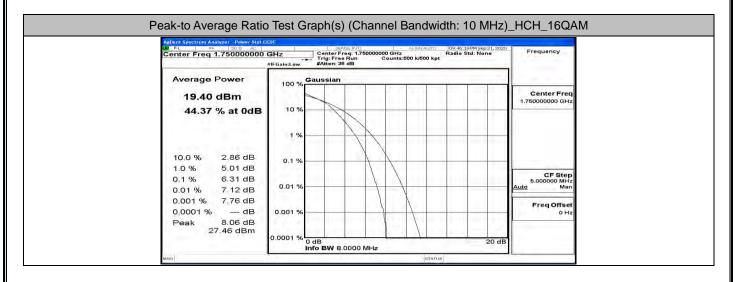


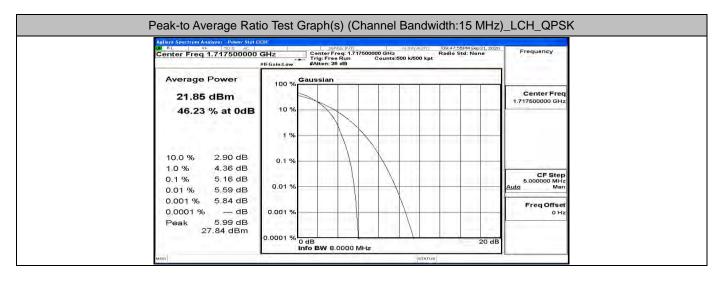


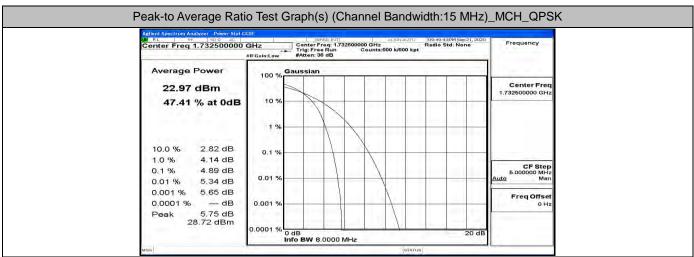


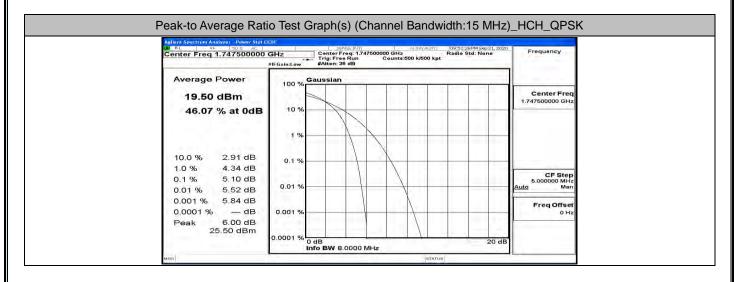


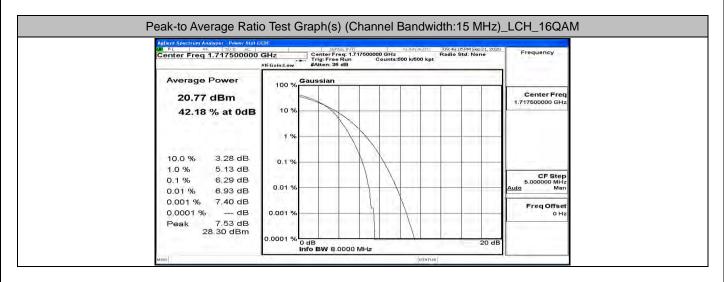


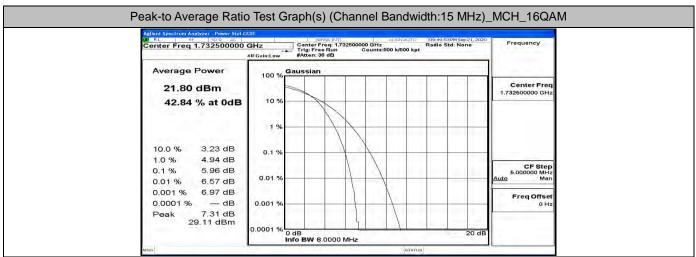


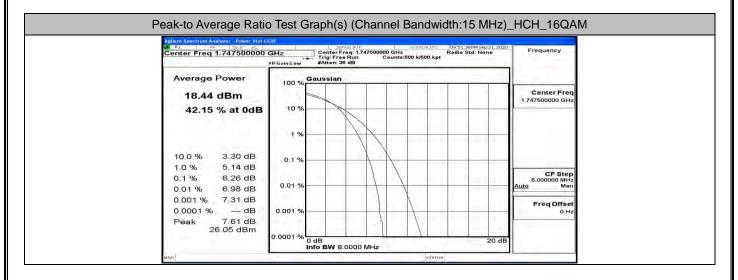


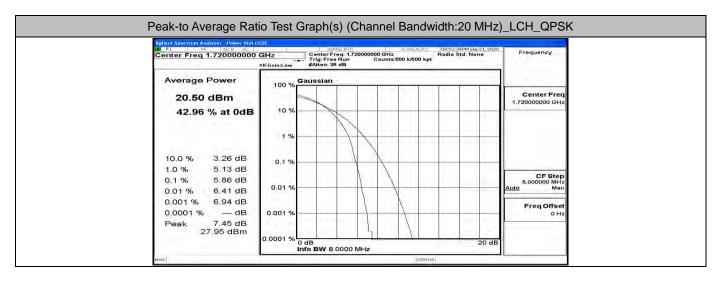


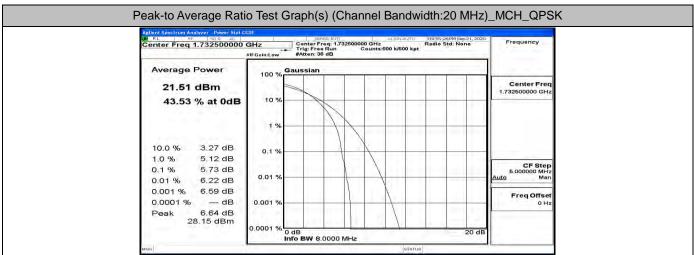


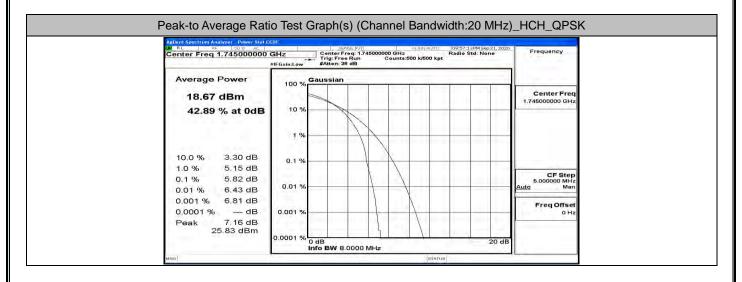


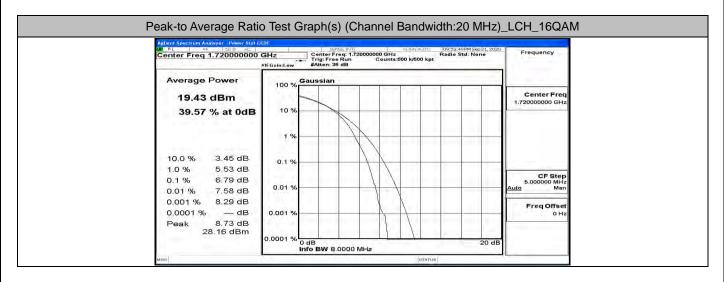


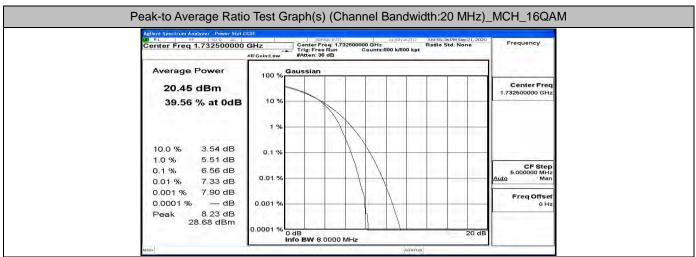


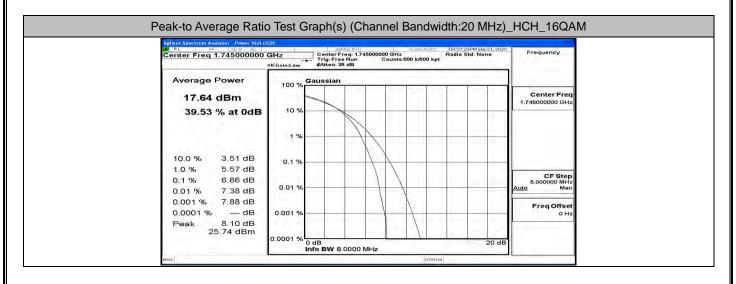












# E.3 26dB Bandwidth and Occupied Bandwidth

EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	1.0777	1.231	PASS
	MCH	1.0786	1.270	PASS
	HCH	1.0727	1.228	PASS
16QAM	LCH	1.0763	1.199	PASS
	MCH	1.0819	1.242	PASS
	HCH	1.0799	1.223	PASS

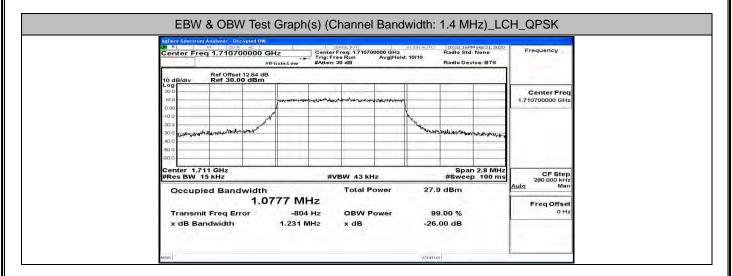
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	2.6770	2.839	PASS
	MCH	2.6818	2.838	PASS
	HCH	2.6790	2.824	PASS
16QAM	LCH	2.6798	2.843	PASS
	MCH	2.6840	2.832	PASS
	HCH	2.6789	2.823	PASS

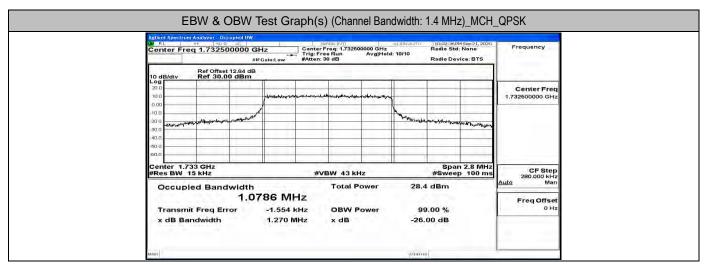
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	
QPSK	LCH	4.4831	4.887	PASS
	MCH	4.4779	4.889	PASS
	HCH	4.4828	4.873	PASS
16QAM	LCH	4.4792	4.871	PASS
	MCH	4.4801	4.836	PASS
	HCH	4.4758	4.850	PASS

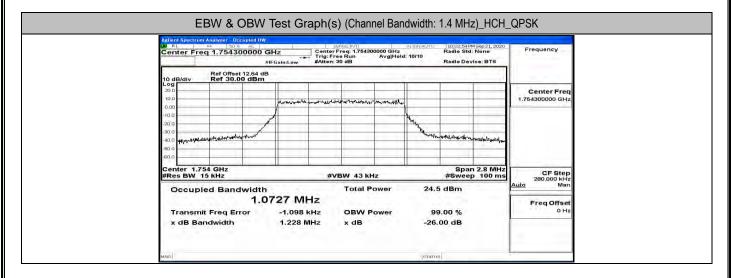
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
iviodulation		(MHz)	(MHz)	
QPSK	LCH	8.9479	9.571	PASS
	MCH	8.9229	9.604	PASS
	HCH	8.9611	9.567	PASS
16QAM	LCH	8.9504	9.652	PASS
	MCH	8.9323	9.427	PASS
	HCH	8.9402	9.549	PASS

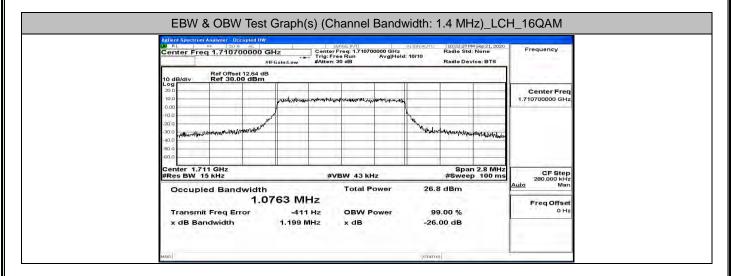
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
Modulation		(MHz)	(MHz)		
QPSK	LCH	13.430	14.22	PASS	
	MCH	13.365	15.39	PASS	
	HCH	13.457	14.16	PASS	
16QAM	LCH	13.445	14.10	PASS	
	MCH	13.364	14.08	PASS	
	HCH	13.449	14.05	PASS	

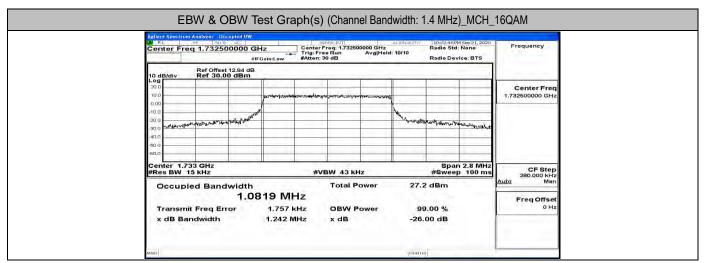
EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	17.899	18.65	PASS
	MCH	17.755	18.52	PASS
	HCH	17.941	18.59	PASS
16QAM	LCH	17.887	18.57	PASS
	MCH	17.768	18.62	PASS
	HCH	17.909	18.64	PASS

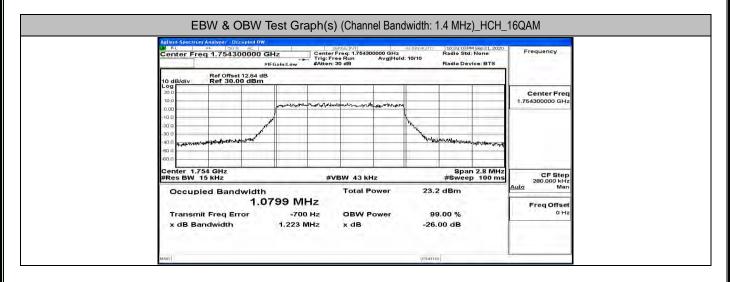


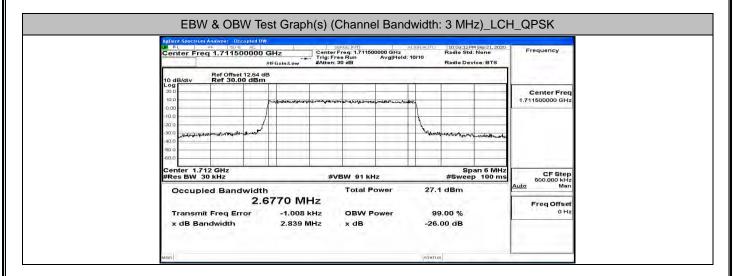


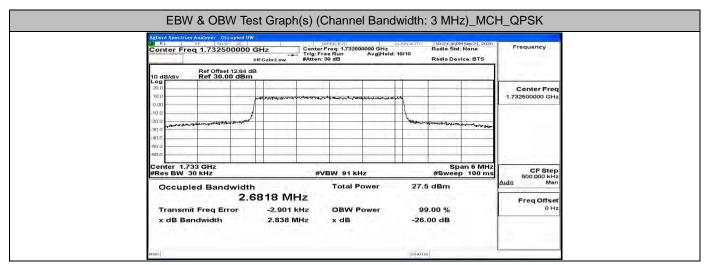


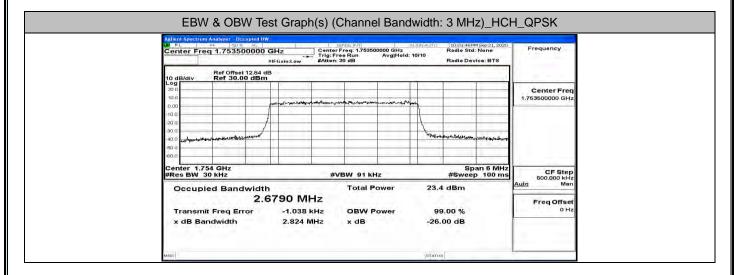


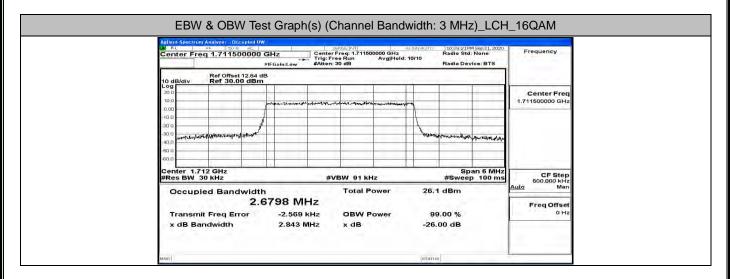


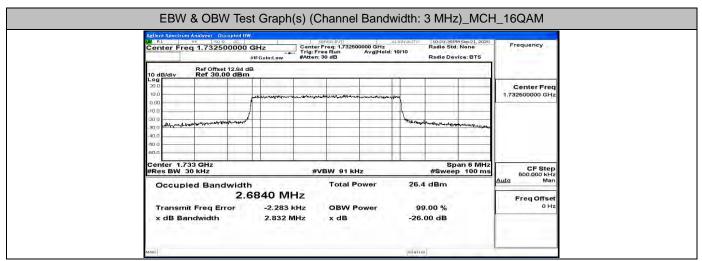


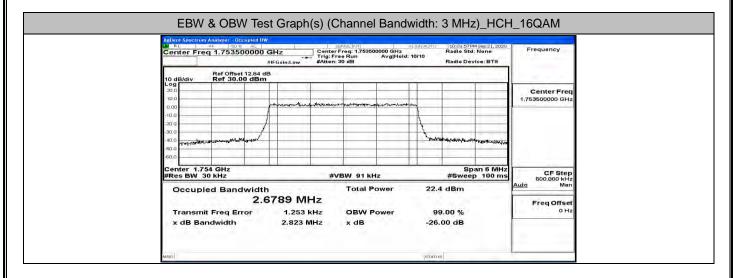


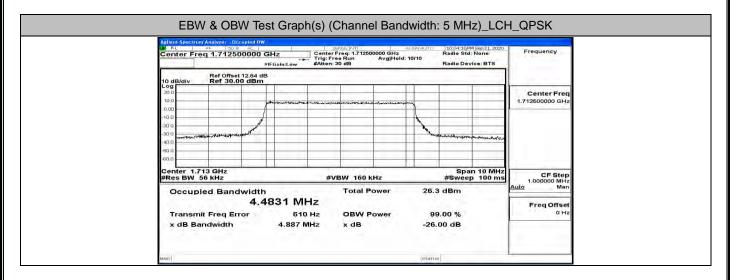


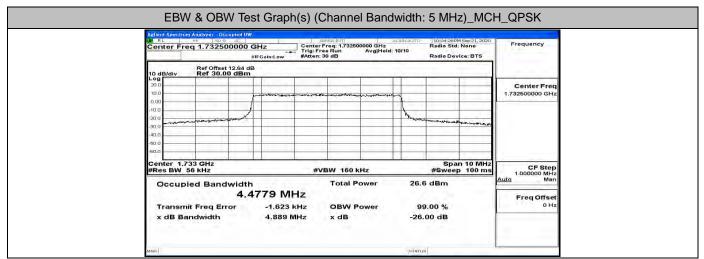


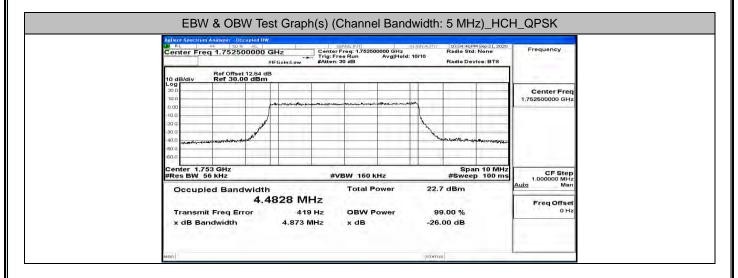


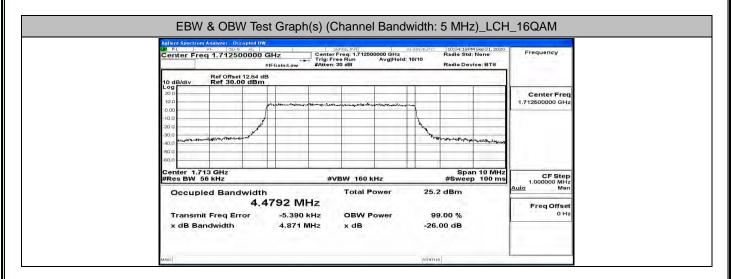


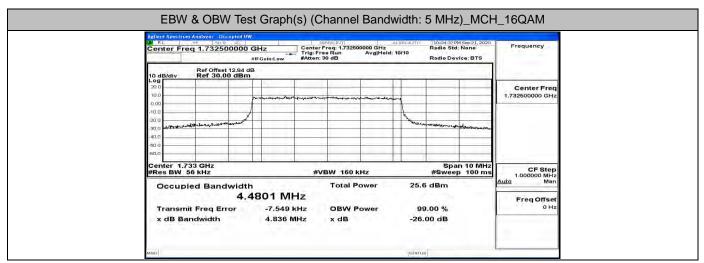


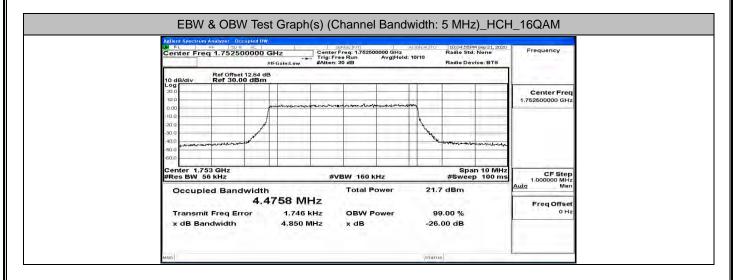


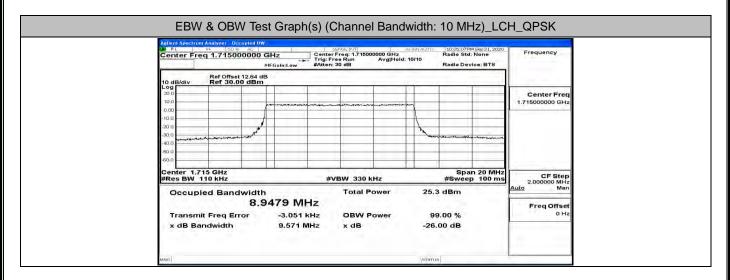


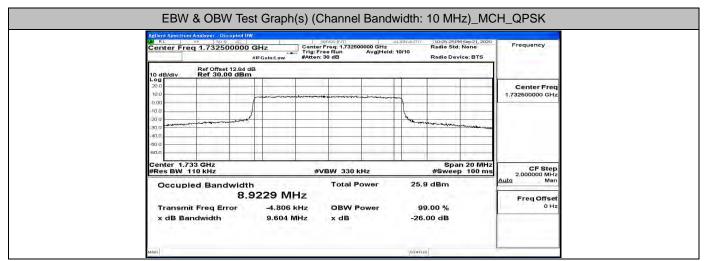


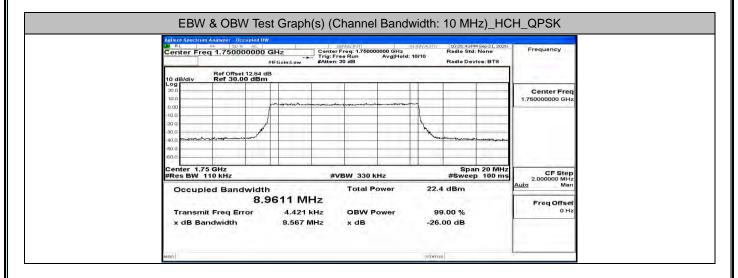


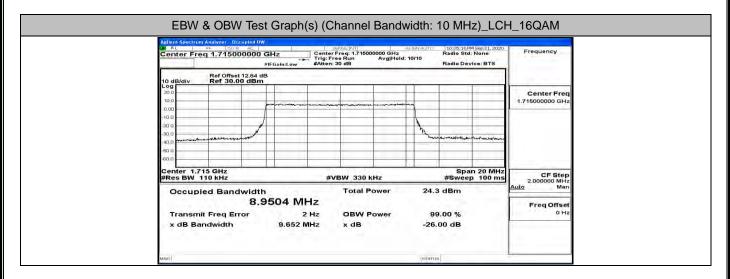


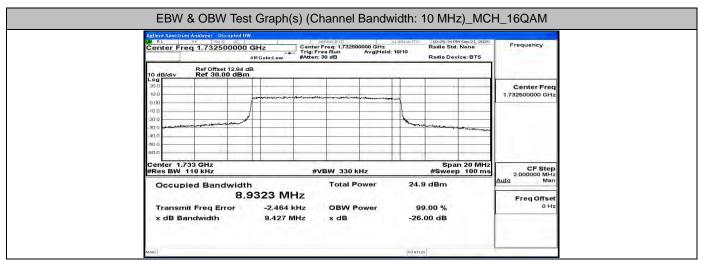


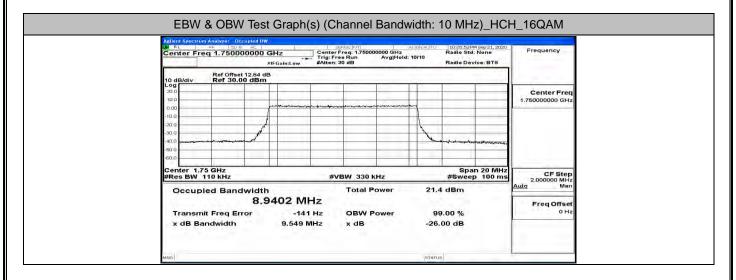


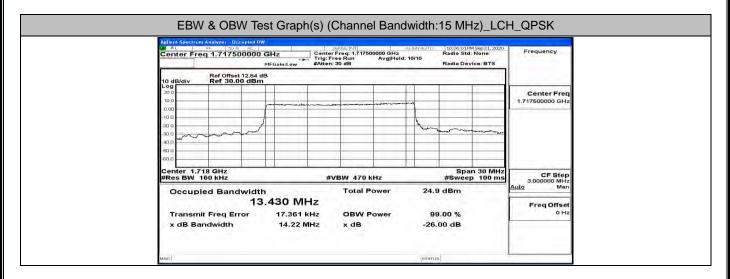


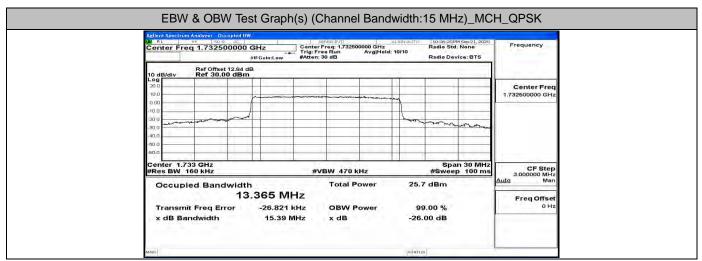


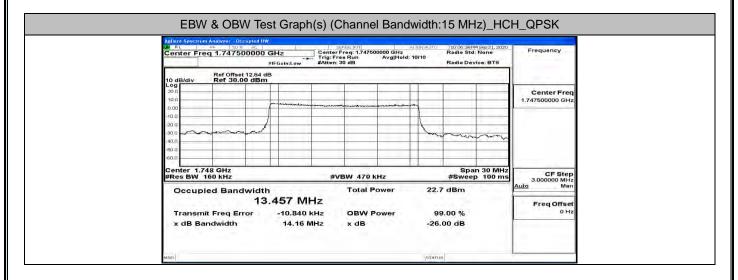


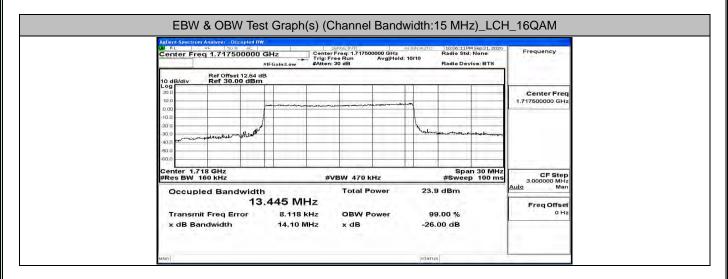


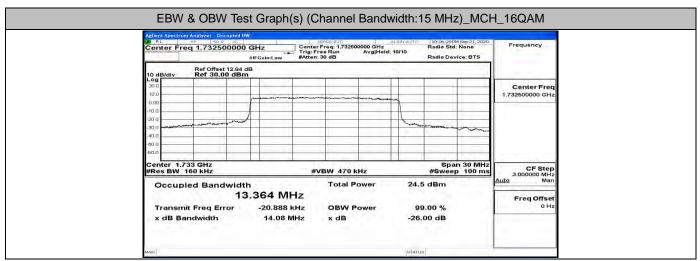


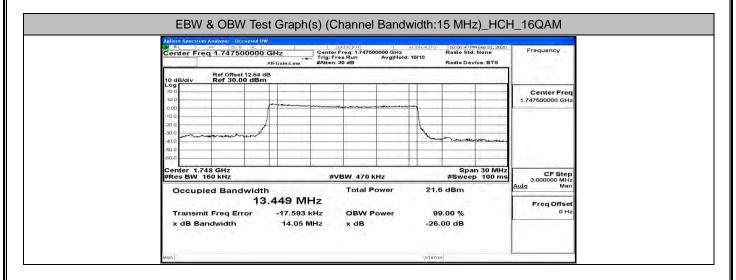


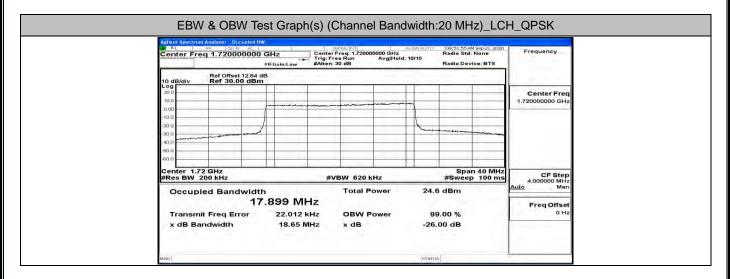


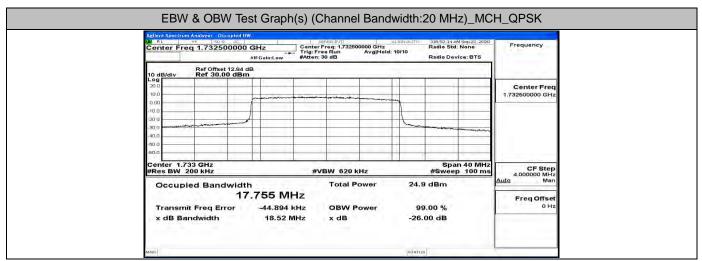


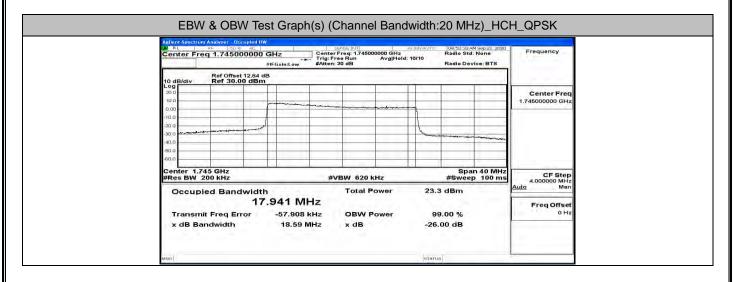


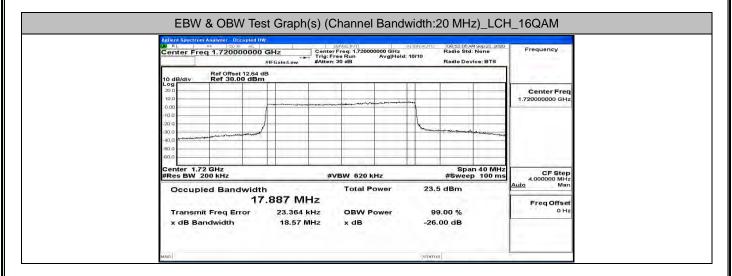


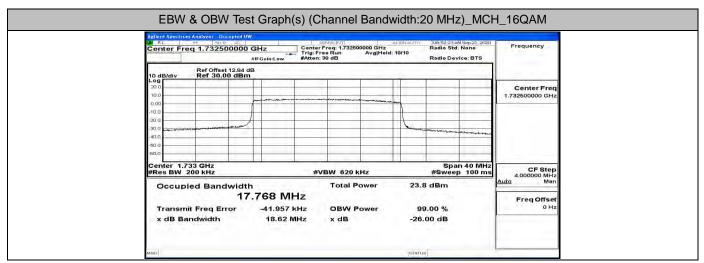


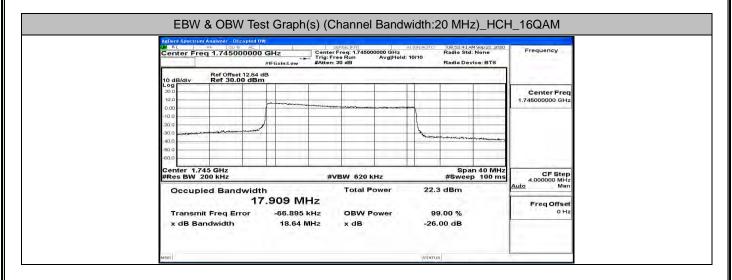




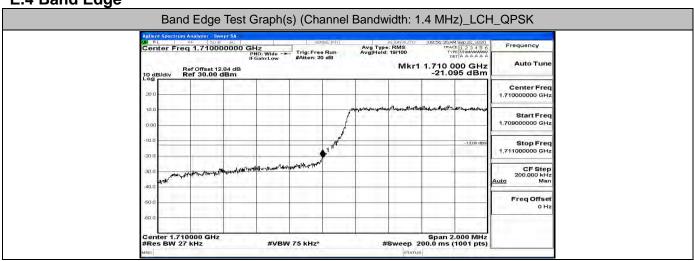


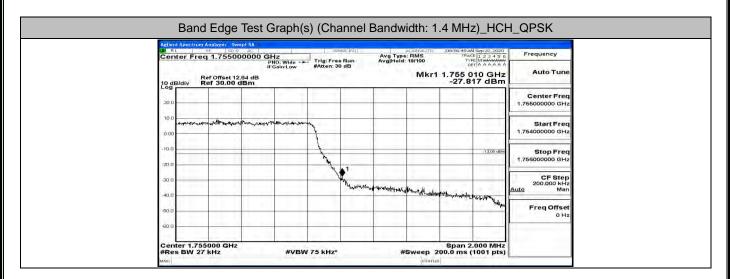


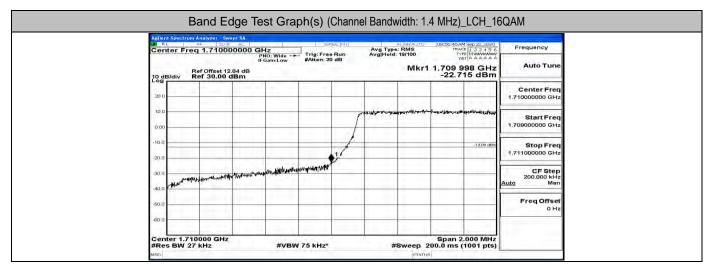


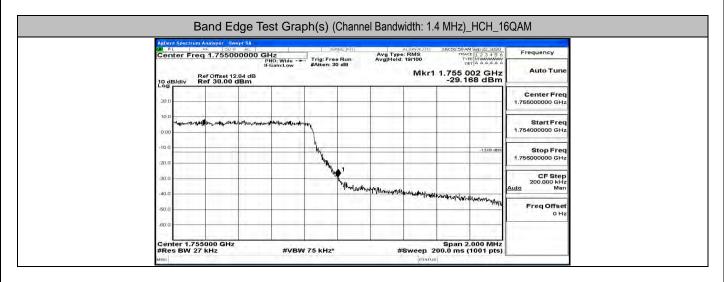


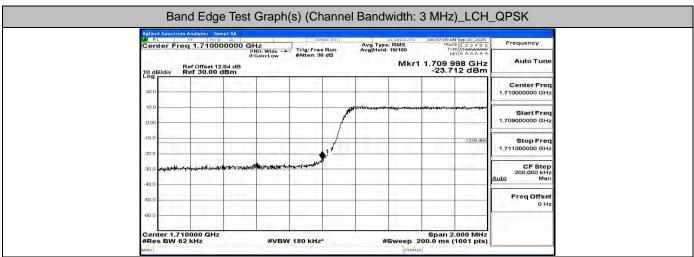
E.4 Band Edge

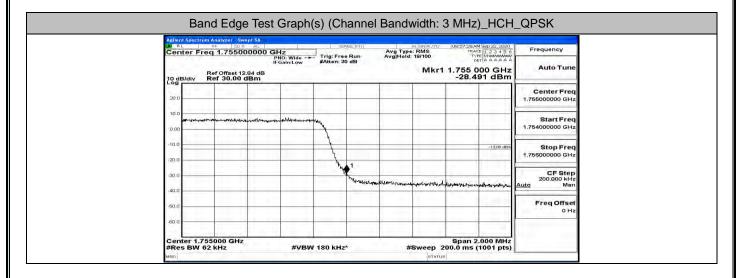


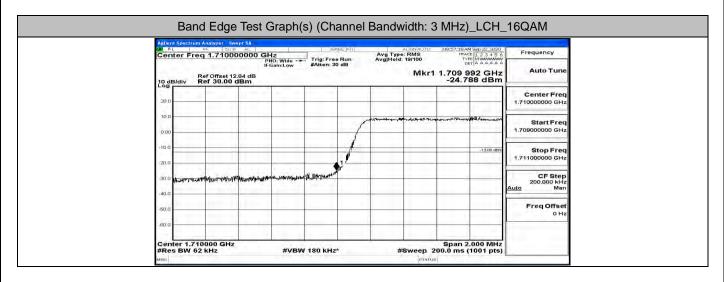


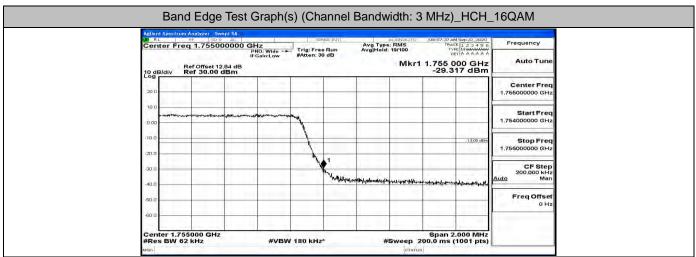


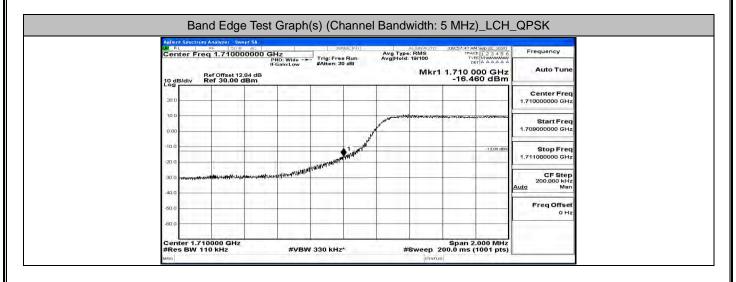


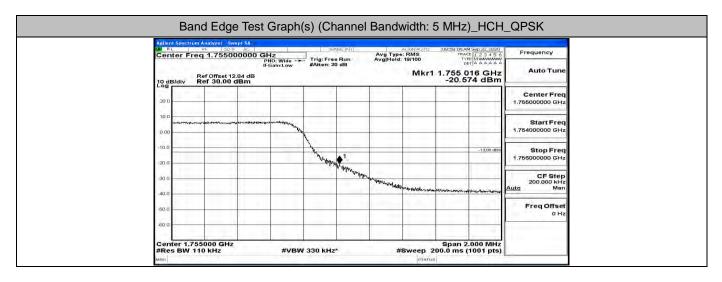


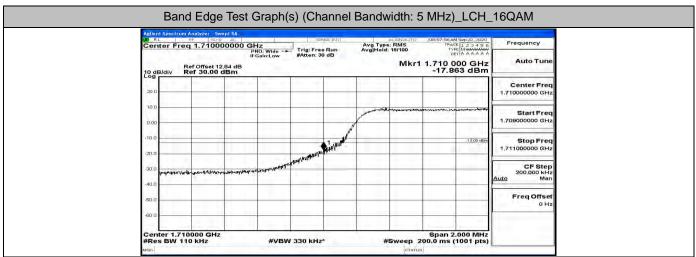


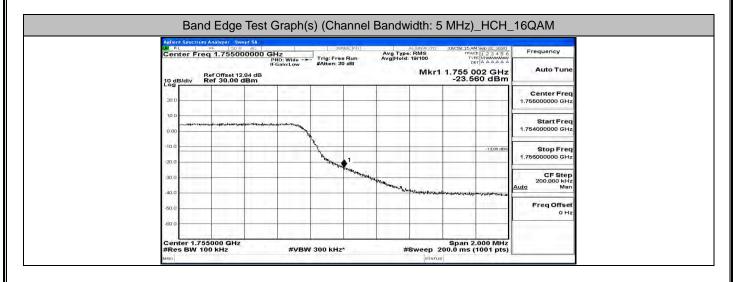


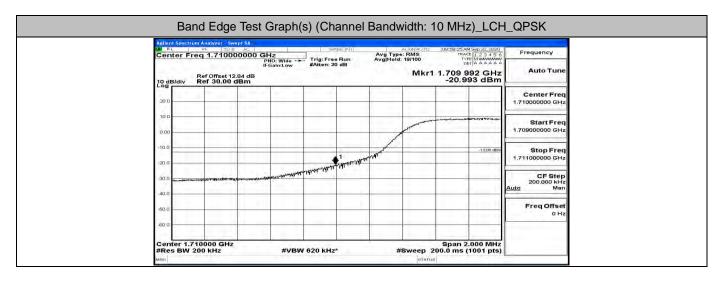


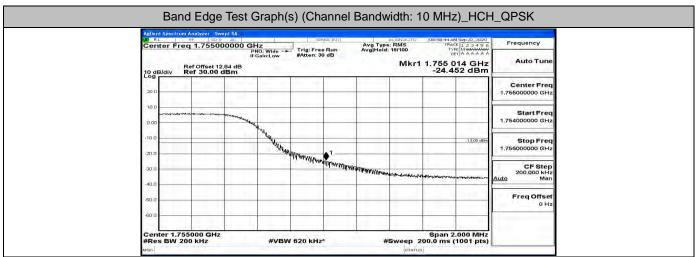


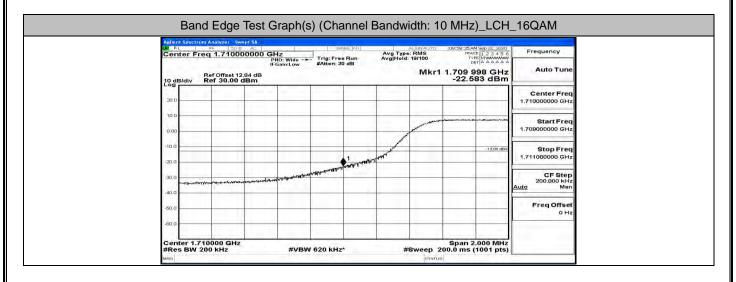


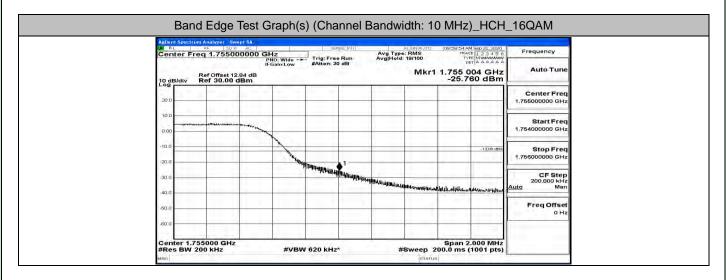


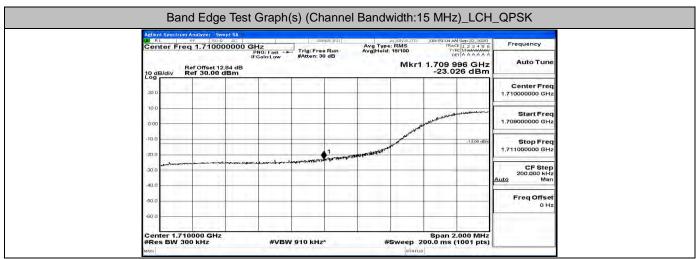


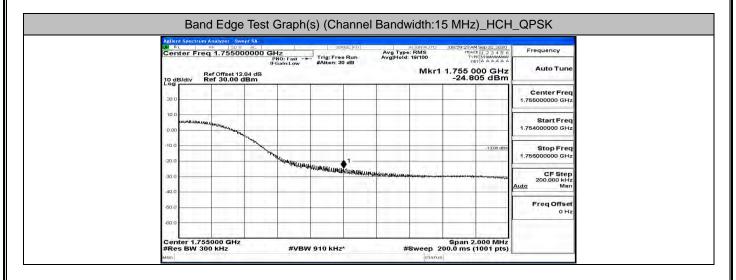


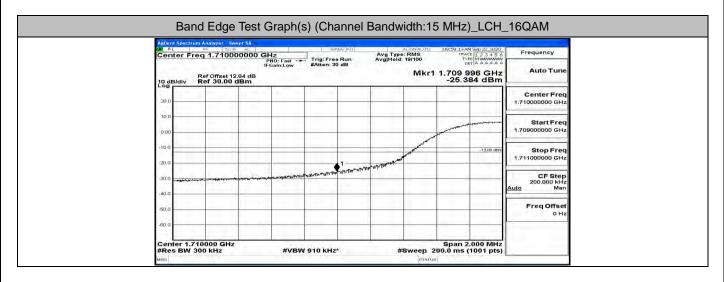


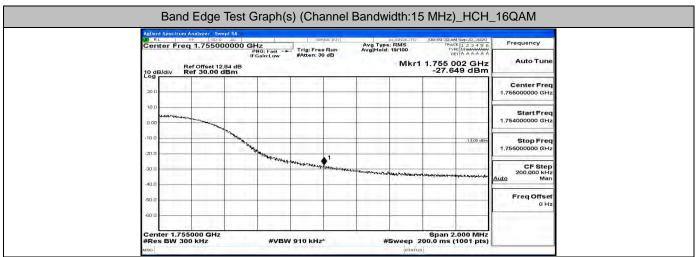


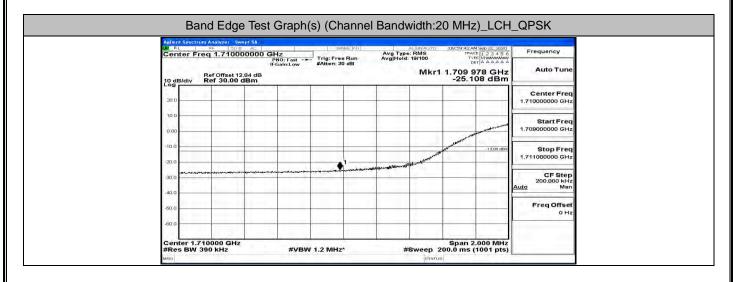


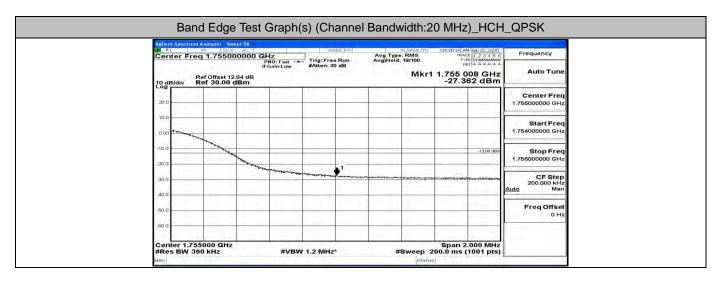


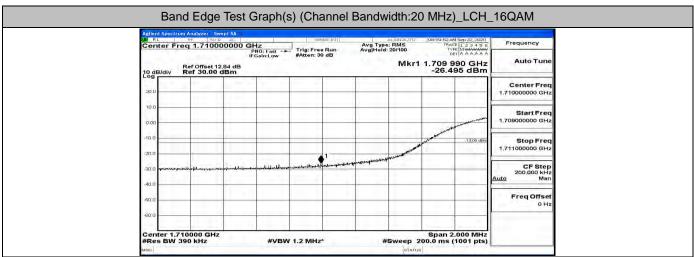


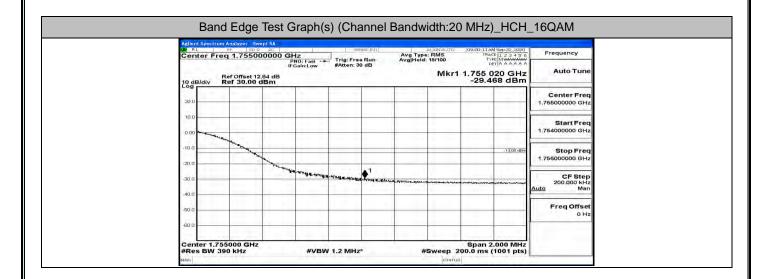




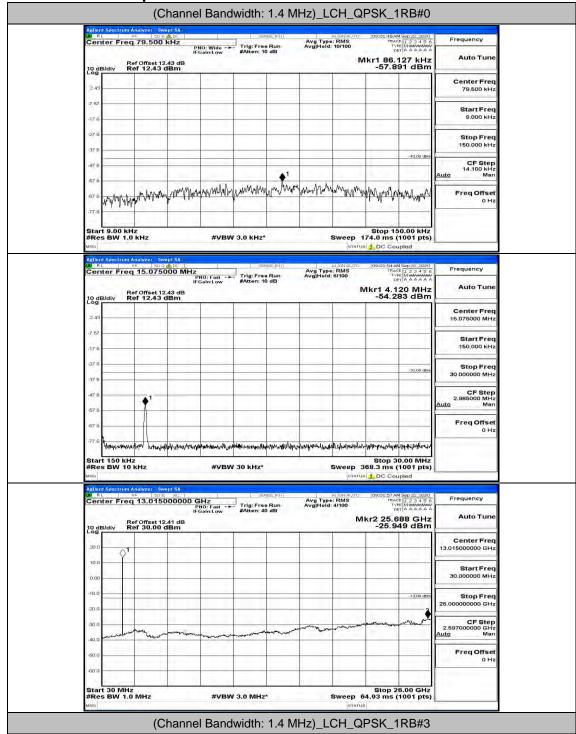


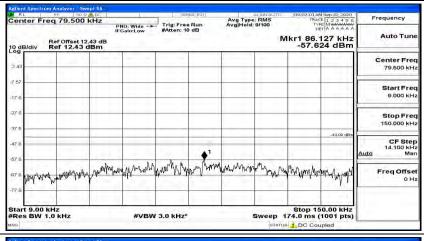


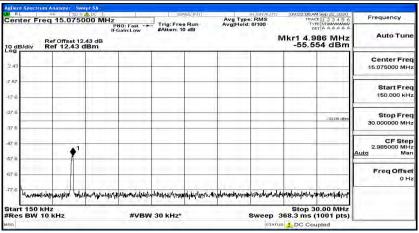




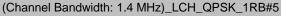
## **E.5 Conducted Spurious Emission**

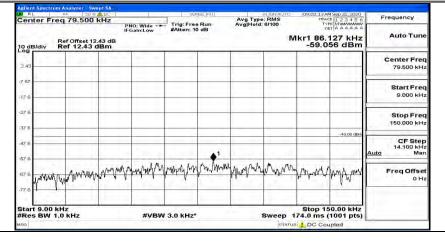


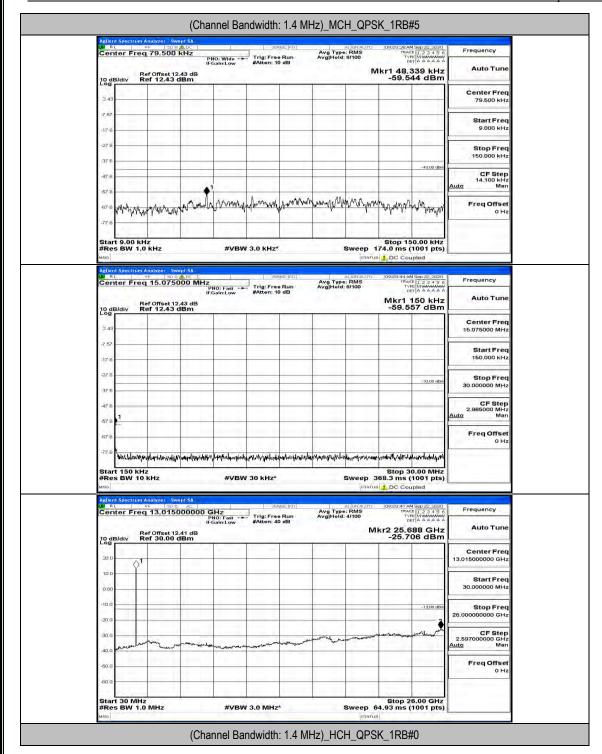


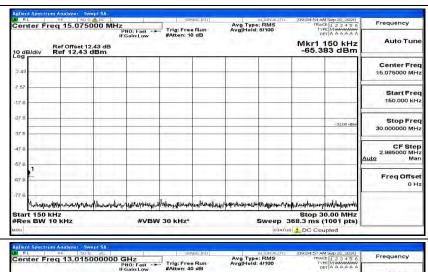




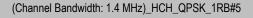


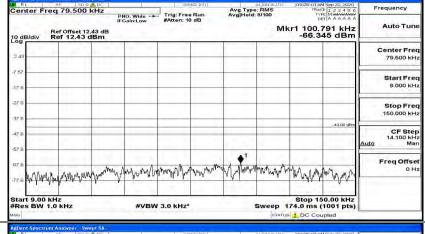


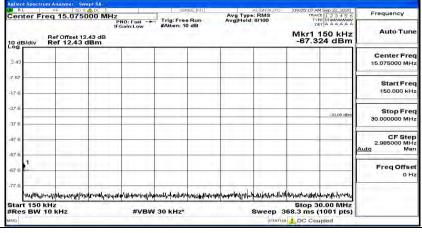


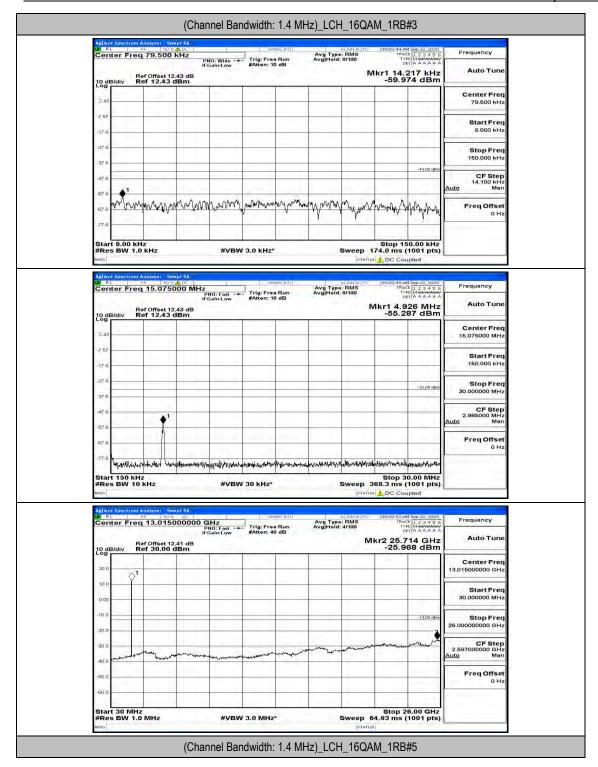












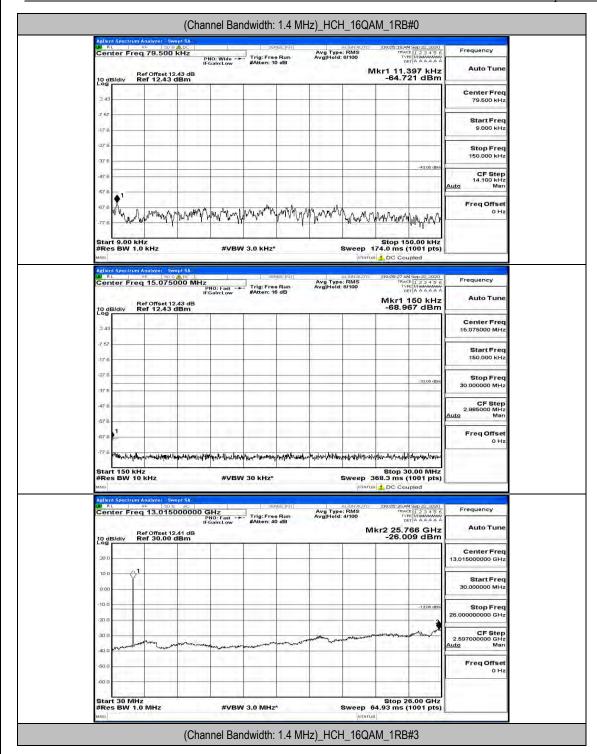
Stop 26.00 GHz Sweep 64.93 ms (1001 pts)

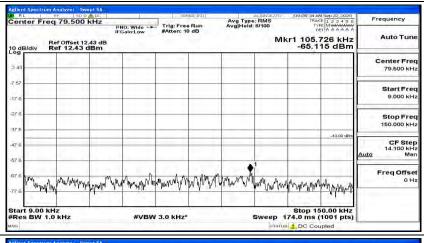
Start 30 MHz #Res BW 1.0 MHz

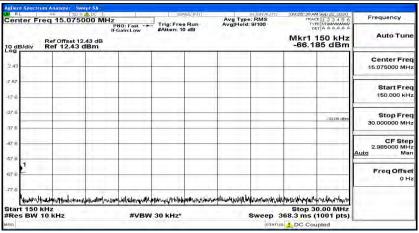
#VBW 3.0 MHz\*

CF Step 2.597000000 GHz

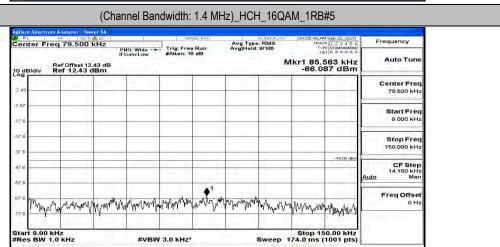
Freq Offset

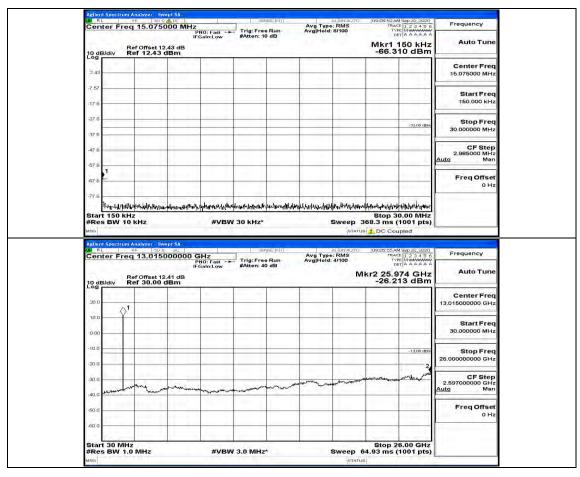




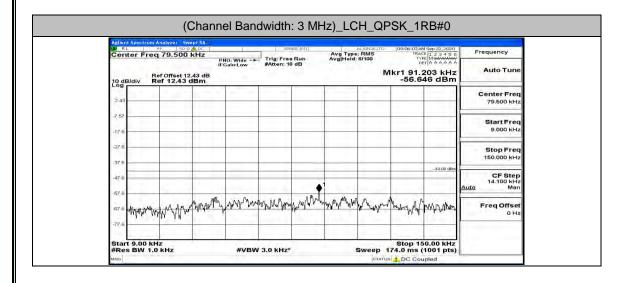


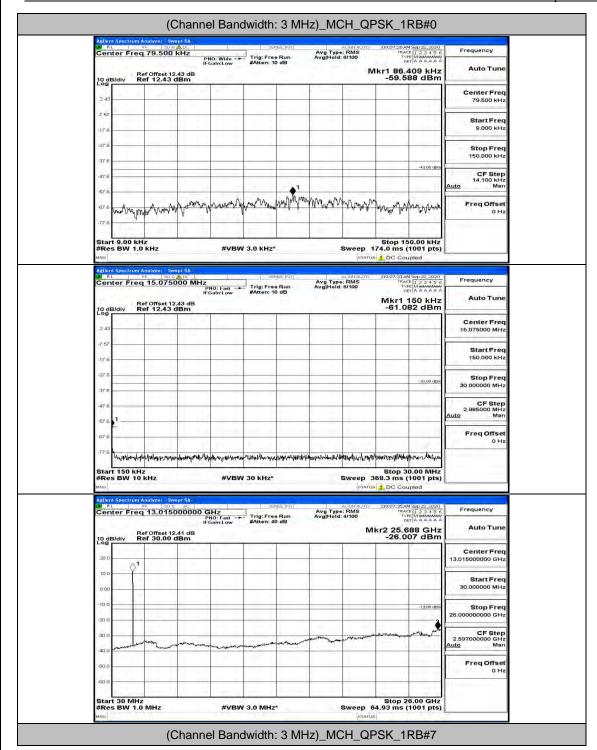


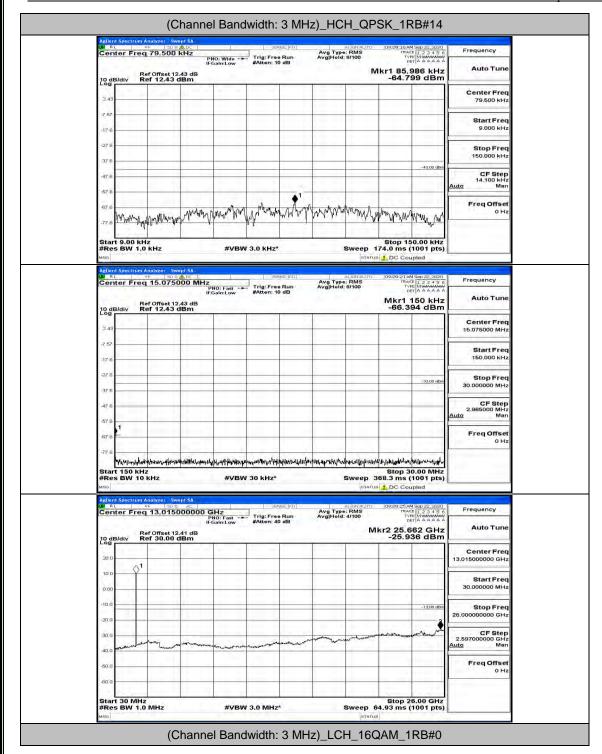


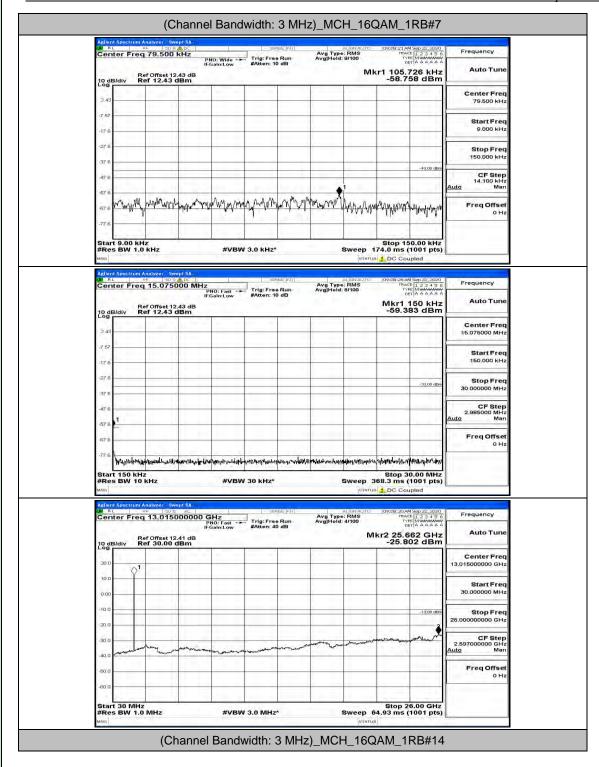


## **Channel Bandwidth: 3 MHz**









## **Channel Bandwidth: 5 MHz**

