Appendix C: Test Data for E-UTRA Band 5

Product Name: LTE GSM/WCDMA Smartphone

Trade Mark: DOOGEE Test Model: S90

Environmental Conditions

Temperature:	23.9
Relative Humidity:	52.8
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden Zhuo

C.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Madulation	Channal	RB Configuration		Average Power [dBm]	Average Power [dBm]	\/a nali at
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	23.79	23.07	PASS
		1	3	23.87	23.20	PASS
		1	5	23.73	23.05	PASS
	LCH	3	0	23.83	23.01	PASS
		3	2	23.87	23.01	PASS
		3	3	23.84	22.98	PASS
		6	0	22.79	21.81	PASS
	МСН	1	0	23.49	22.95	PASS
		1	3	23.56	23.08	PASS
ODOK /		1	5	23.50	22.88	PASS
QPSK / 16QAM		3	0	23.62	22.61	PASS
TOQAIVI		3	2	23.58	22.60	PASS
		3	3	23.56	22.63	PASS
		6	0	22.50	21.51	PASS
		1	0	23.66	22.95	PASS
		1	3	23.84	23.10	PASS
		1	5	23.65	23.02	PASS
	нсн	3	0	23.77	22.81	PASS
		3	2	23.80	22.88	PASS
		3	3	23.79	22.87	PASS
		6	0	22.74	21.87	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	el RB Configuration Size Offse		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		1	0	23.77	23.18	PASS
		1	7	24.06	23.34	PASS
		1	14	23.75	23.09	PASS
	LCH	8	0	22.76	21.94	PASS
		8	4	22.86	21.97	PASS
		8	7	22.76	21.89	PASS
		15	0	22.77	21.78	PASS
	MCH	1	0	23.50	22.83	PASS
		1	7	23.75	23.07	PASS
QPSK /		1	14	23.57	22.82	PASS
16QAM		8	0	22.53	21.69	PASS
TOQAM		8	4	22.61	21.73	PASS
		8	7	22.57	21.64	PASS
		15	0	22.52	21.60	PASS
		1	0	23.64	23.08	PASS
		1	7	24.06	23.31	PASS
		1	14	23.75	23.17	PASS
	HCH	8	0	22.72	21.73	PASS
		8	4	22.74	21.78	PASS
		8	7	22.75	21.75	PASS
		15	0	22.69	21.73	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
modulation	Onamo	Size	Offset	QPSK	16QAM	Vordict
		1	0	23.69	23.13	PASS
		1	12	24.03	23.49	PASS
		1	24	23.56	22.98	PASS
	LCH	12	0	22.69	21.93	PASS
		12	6	22.79	22.02	PASS
		12	13	22.75	22.01	PASS
		25	0	22.78	21.89	PASS
	МСН	1	0	23.45	22.90	PASS
		1	12	23.80	23.19	PASS
ODCK /		1	24	23.44	22.87	PASS
QPSK / 16QAM		12	0	22.59	21.83	PASS
TOQAM		12	6	22.61	21.88	PASS
		12	13	22.53	21.78	PASS
		25	0	22.65	21.73	PASS
		1	0	23.52	22.59	PASS
		1	12	24.10	22.95	PASS
		1	24	23.63	22.66	PASS
	HCH	12	0	22.70	21.77	PASS
		12	6	22.70	21.83	PASS
		12	13	22.55	21.68	PASS
		25	0	22.67	21.72	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Chamilei	Size	Offset	QPSK	16QAM	verdict
		1	0	23.79	23.13	PASS
		1	24	23.90	23.20	PASS
		1	49	23.53	22.80	PASS
	LCH	25	0	22.71	21.77	PASS
		25	12	22.69	21.76	PASS
		25	25	22.47	21.58	PASS
		50	0	22.74	21.81	PASS
	MCH	1	0	23.70	23.04	PASS
		1	24	23.89	23.21	PASS
QPSK /		1	49	23.67	23.02	PASS
16QAM		25	0	23.02	22.10	PASS
TOQAIVI		25	12	22.76	21.83	PASS
		25	25	22.92	21.98	PASS
		50	0	22.97	21.95	PASS
		1	0	23.70	23.12	PASS
		1	24	23.98	23.42	PASS
		1	49	23.94	23.37	PASS
	HCH	25	0	22.68	21.73	PASS
		25	12	22.86	21.93	PASS
		25	25	22.77	21.85	PASS
		50	0	22.72	21.83	PASS

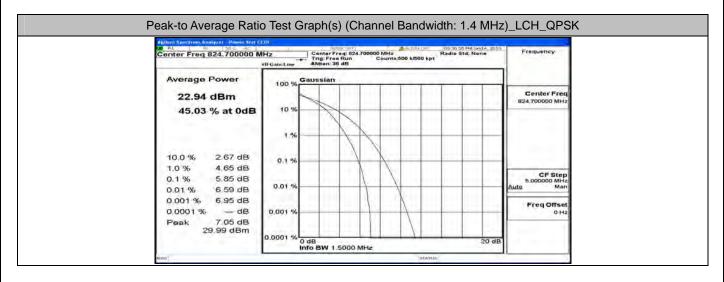
C.2 Peak-to-Average Ratio

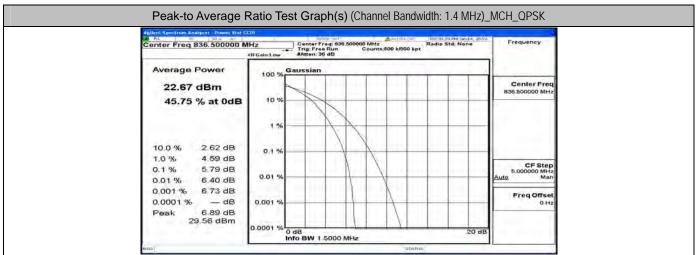
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Grianner	[dB]	[dB]	verdict		
	LCH	5.85	<13	PASS		
QPSK	MCH	5.79	<13	PASS		
	HCH	5.58	<13	PASS		
16QAM	LCH	6.76	<13	PASS		
	MCH	6.72	<13	PASS		
	HCH	6.5	<13	PASS		

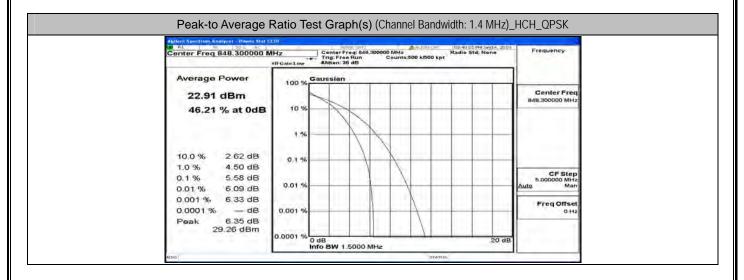
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channal	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Channel	[dB]	[dB]	verdict		
	LCH	5.77	<13	PASS		
QPSK	MCH	5.74	<13	PASS		
	HCH	5.71	<13	PASS		
16QAM	LCH	6.74	<13	PASS		
	MCH	6.75	<13	PASS		
	HCH	6.43	<13	PASS		

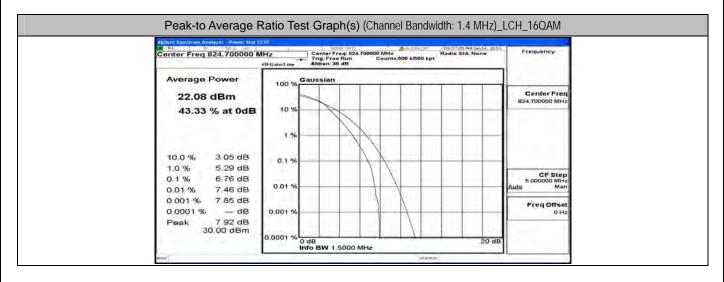
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
iviodulation	Charmer	[dB]	[dB]	verdict		
	LCH	5.84	<13	PASS		
QPSK	MCH	5.85	<13	PASS		
	HCH	5.6	<13	PASS		
16QAM	LCH	6.63	<13	PASS		
	MCH	6.6	<13	PASS		
	HCH	6.39	<13	PASS		

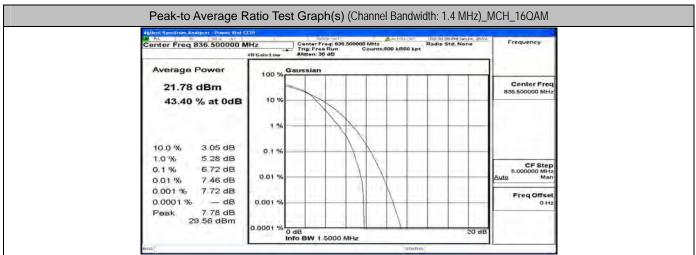
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
iviodulation	Griannei	[dB]	[dB]	verdict		
	LCH	5.6	<13	PASS		
QPSK	MCH	5.91	<13	PASS		
	HCH	5.55	<13	PASS		
	LCH	6.4	<13	PASS		
16QAM	MCH	6.52	<13	PASS		
	HCH	6.3	<13	PASS		

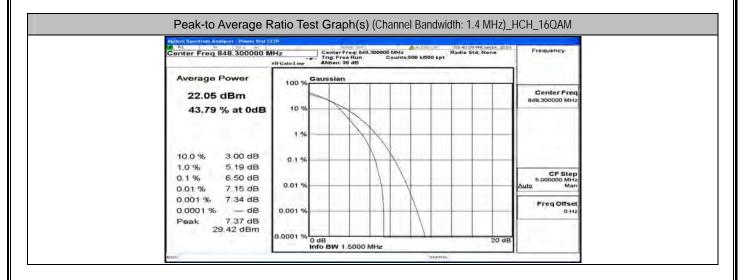


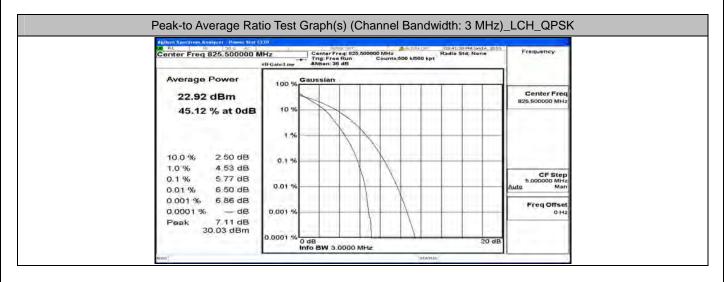


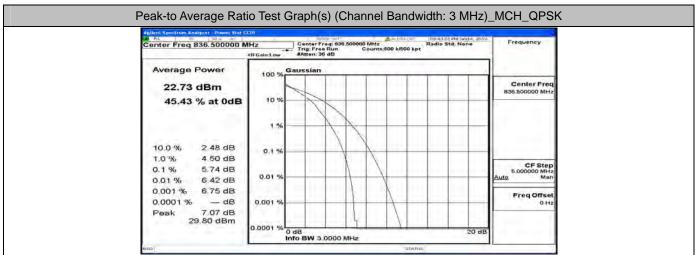


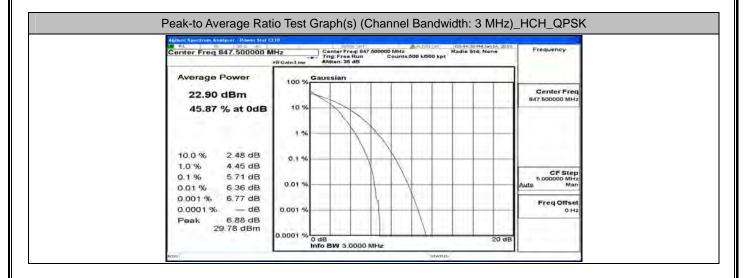


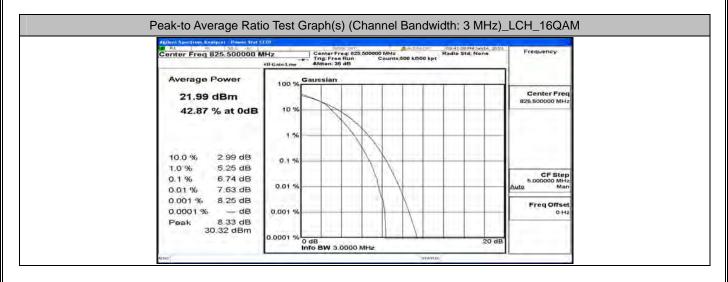


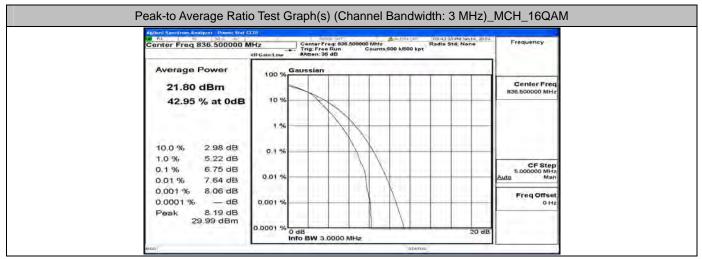


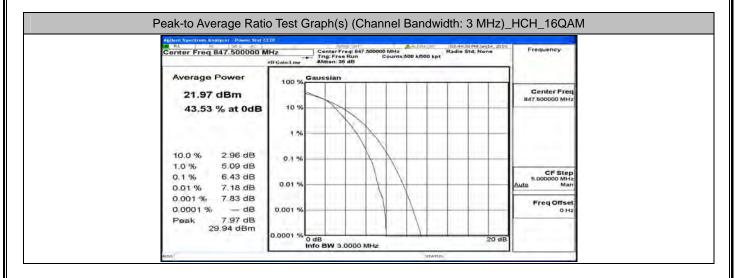


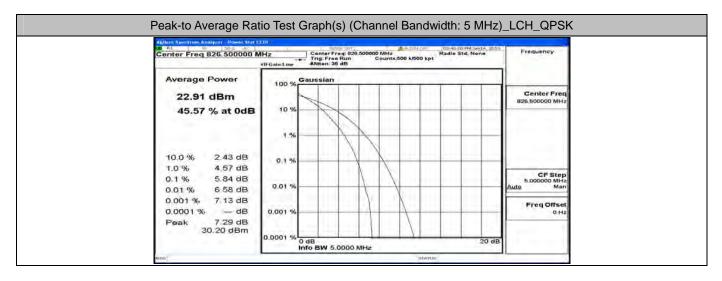


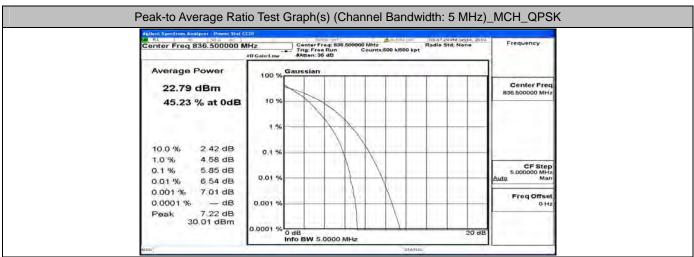


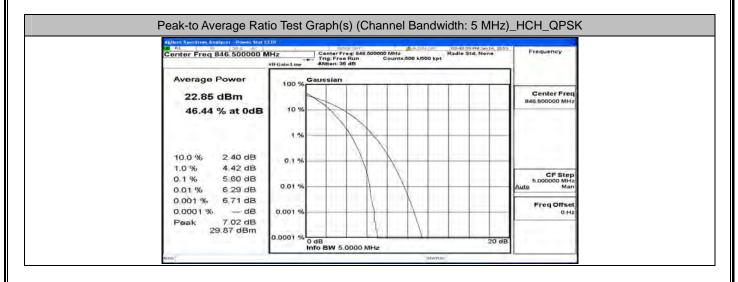


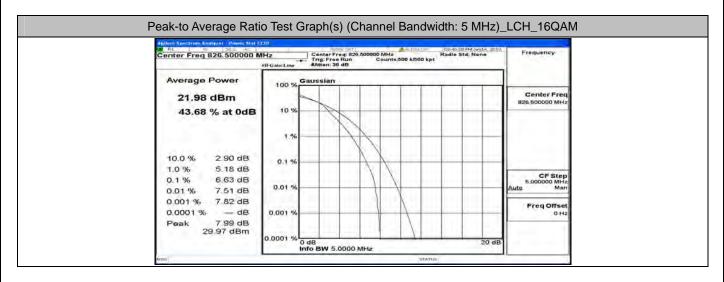


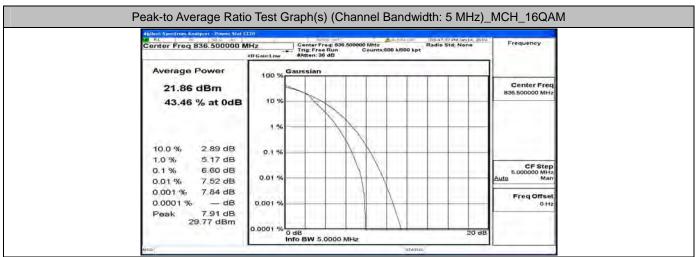


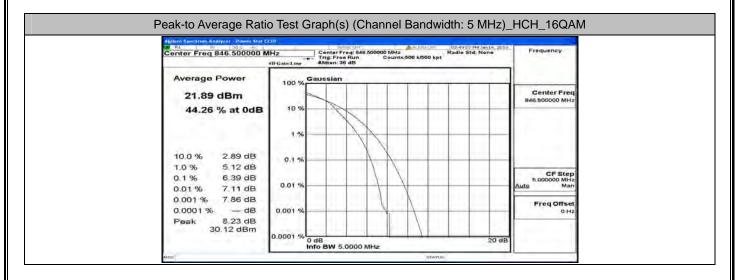


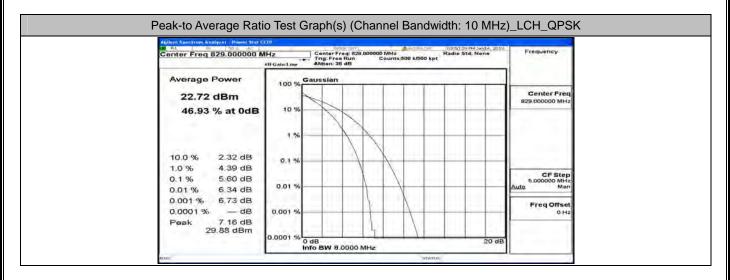


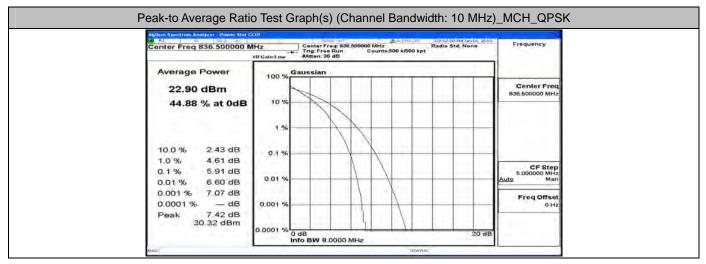


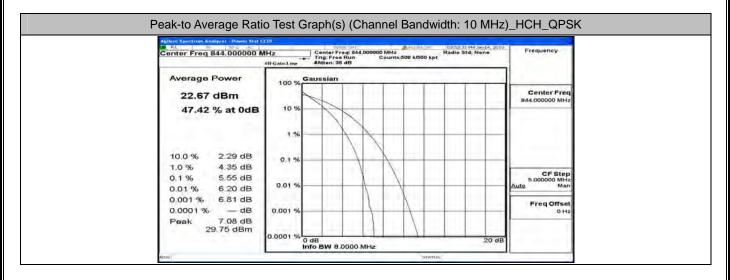


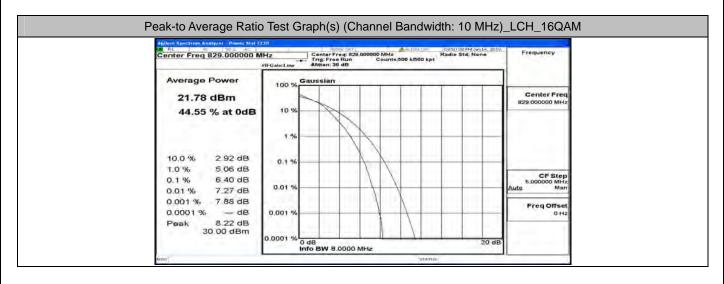


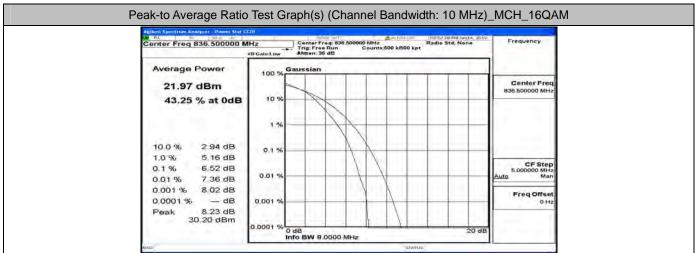


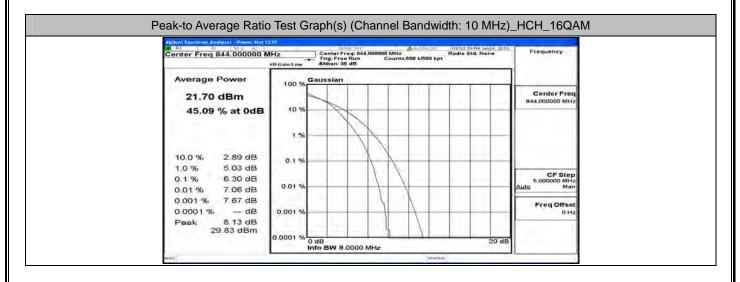












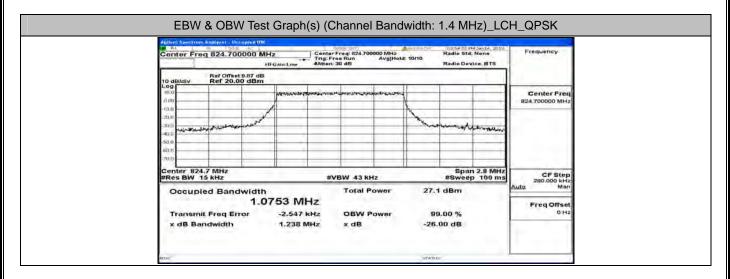
C.3 26dB Bandwidth and Occupied Bandwidth

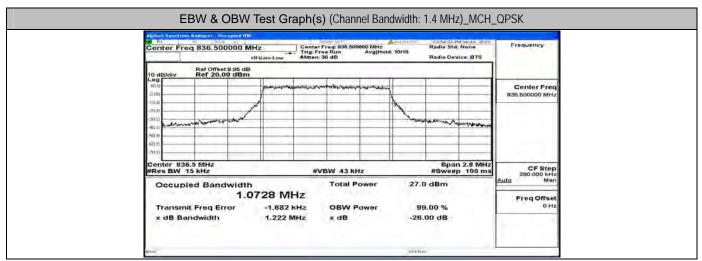
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
Modulation	Charmer	(MHz)	(MHz)	verdict		
QPSK	LCH	1.0753	1.238	PASS		
	MCH	1.0728	1.222	PASS		
	HCH	1.0763	1.228	PASS		
16QAM	LCH	1.0768	1.223	PASS		
	MCH	1.0783	1.236	PASS		
	HCH	1.0726	1.229	PASS		

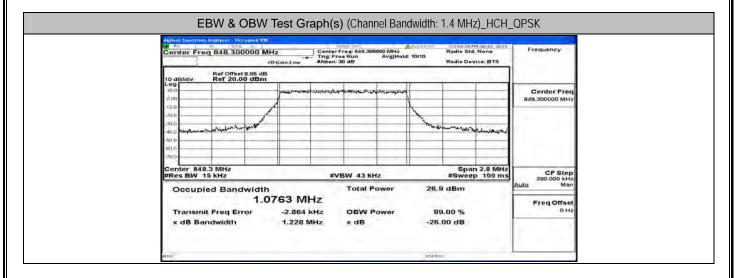
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
	3 77 a 1111 o 7	(MHz)	(MHz)	7 0 1 0 1 0 1		
QPSK	LCH	2.6802	2.828	PASS		
	MCH	2.6764	2.822	PASS		
	HCH	2.6767	2.831	PASS		
16QAM	LCH	2.6799	2.832	PASS		
	MCH	2.6779	2.821	PASS		
	HCH	2.6847	2.819	PASS		

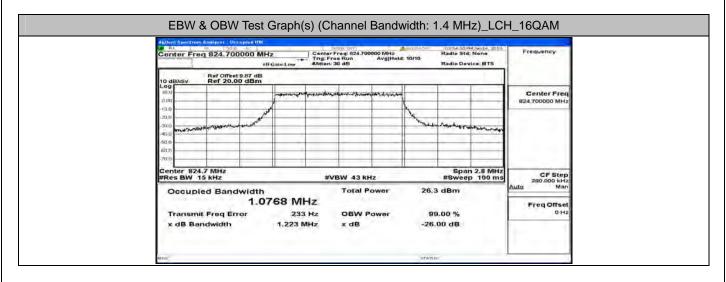
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
IVIOGUIATIOTI	Charmer	(MHz)	(MHz)	verdict		
QPSK	LCH	4.4758	4.849	PASS		
	MCH	4.4827	4.863	PASS		
	HCH	4.4659	4.877	PASS		
16QAM	LCH	4.4821	4.882	PASS		
	MCH	4.4806	4.879	PASS		
	HCH	4.4813	4.805	PASS		

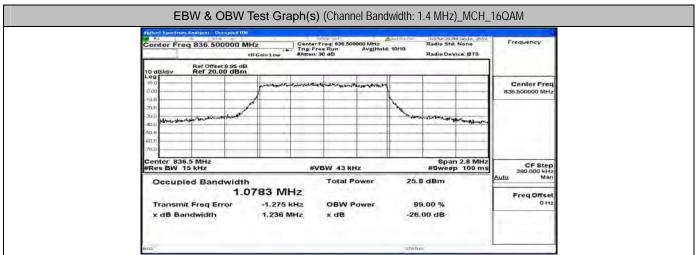
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	8.9177	9.454	PASS
	MCH	8.9631	9.591	PASS
	HCH	8.9050	9.451	PASS
16QAM	LCH	8.9230	9.455	PASS
	MCH	8.9645	9.543	PASS
	HCH	8.9279	9.445	PASS

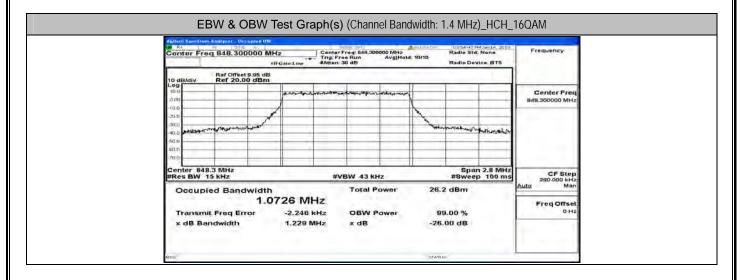


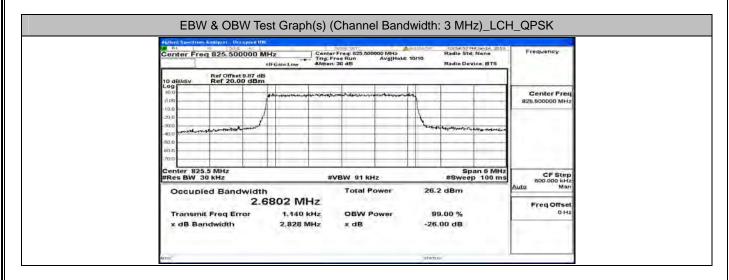


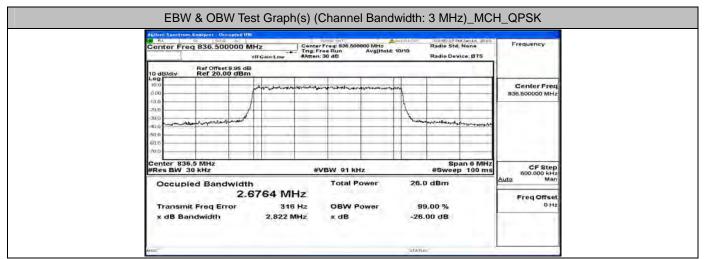


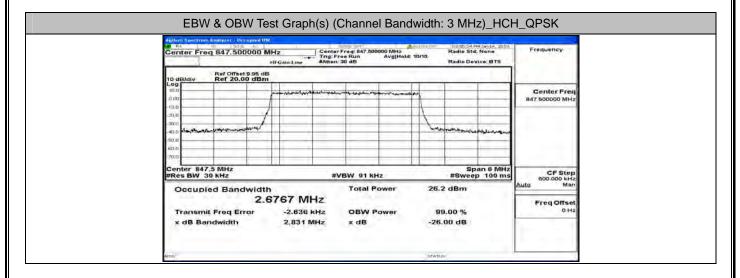


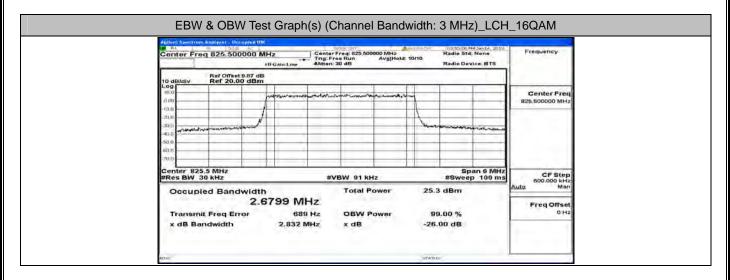


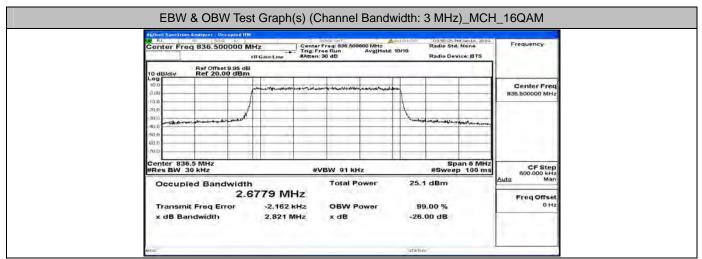


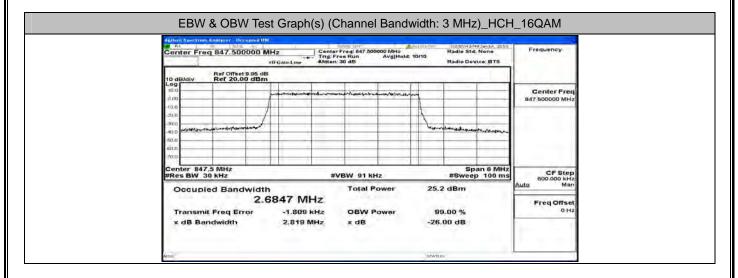


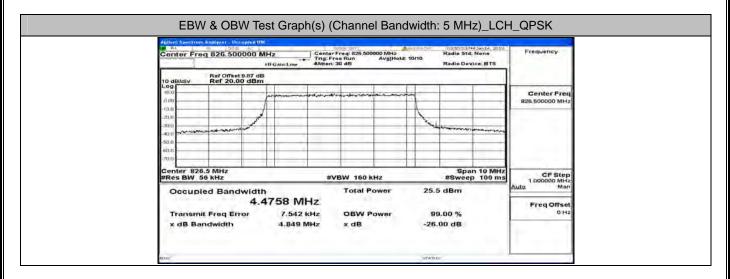


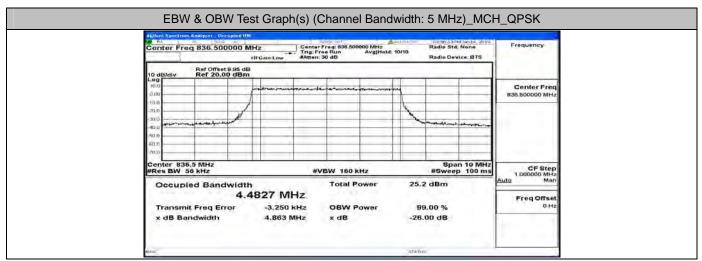


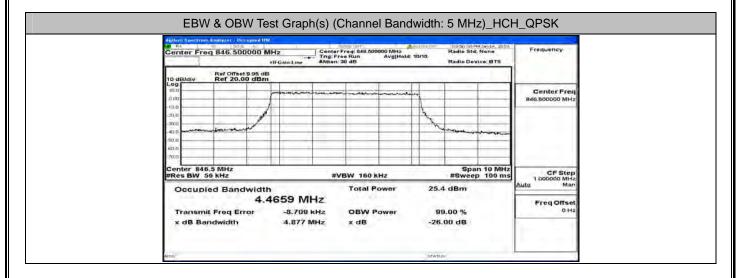


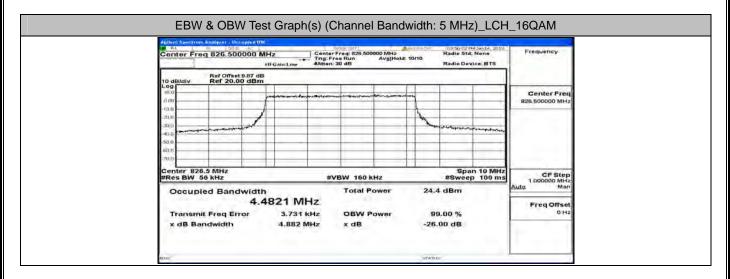


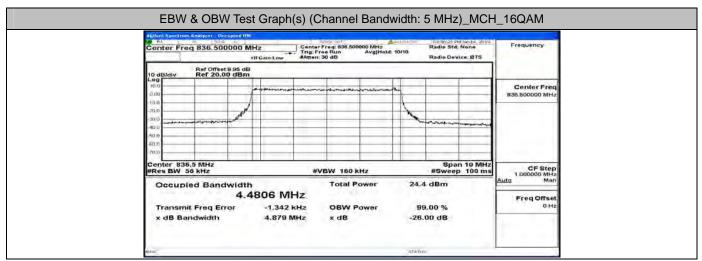


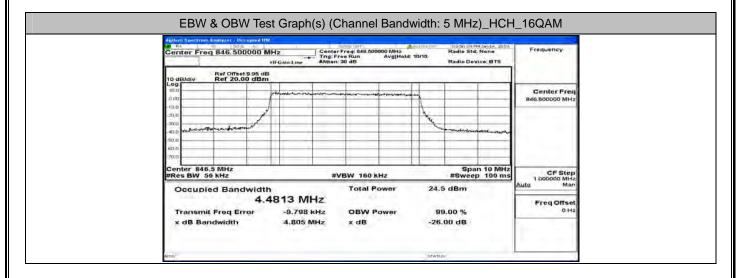


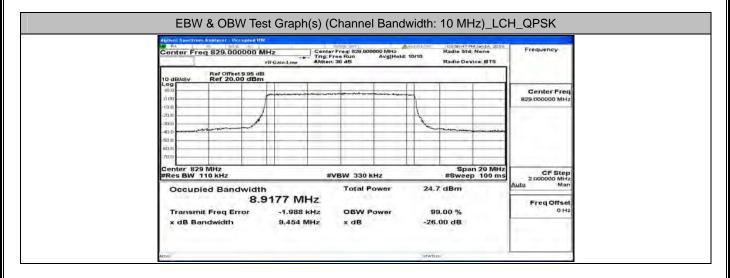


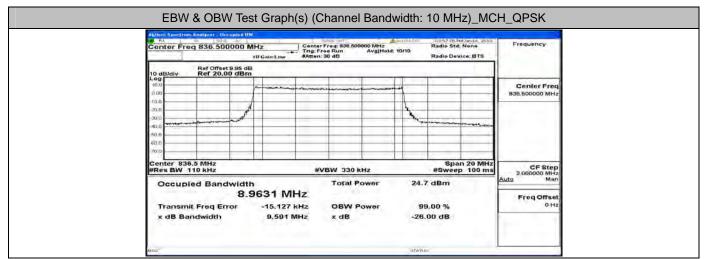


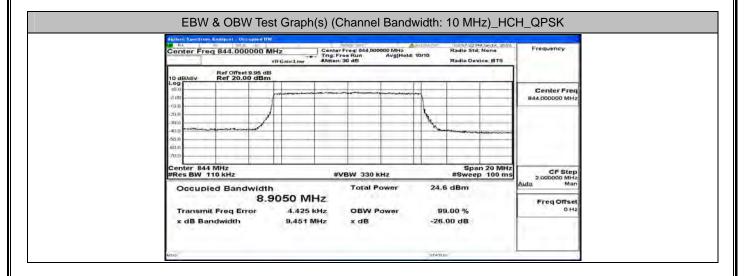


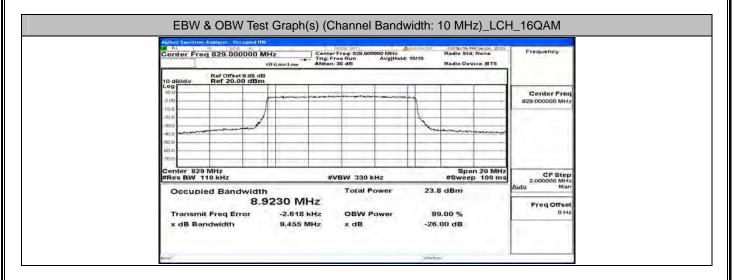


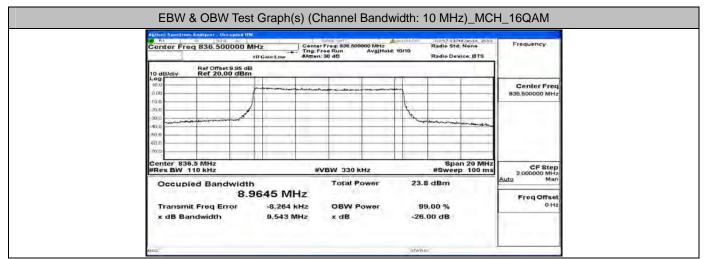


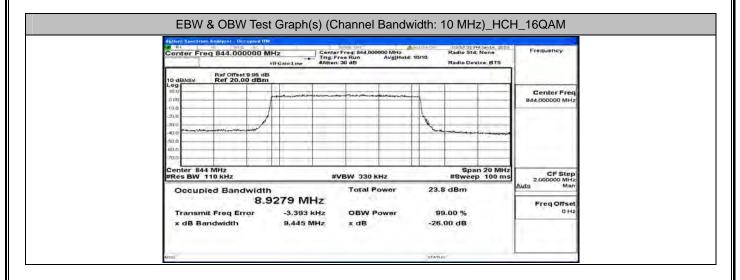




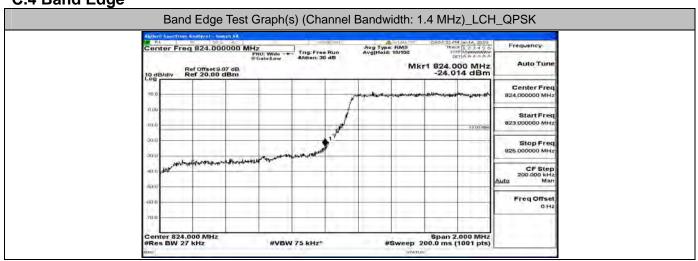


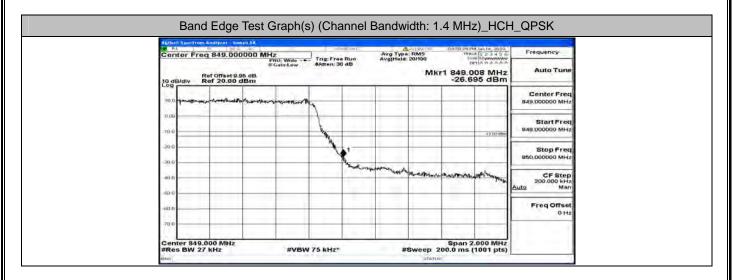


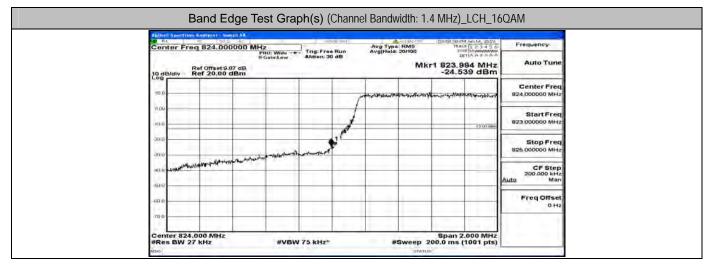


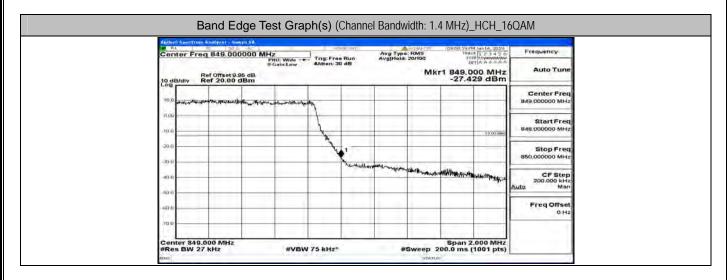


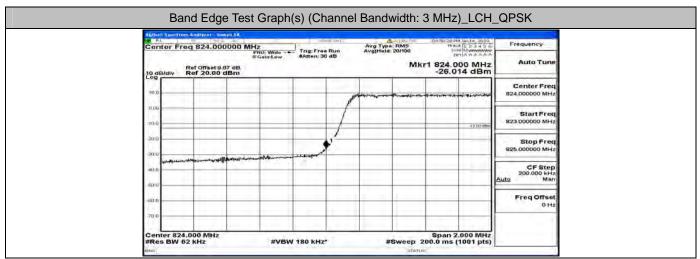
C.4 Band Edge

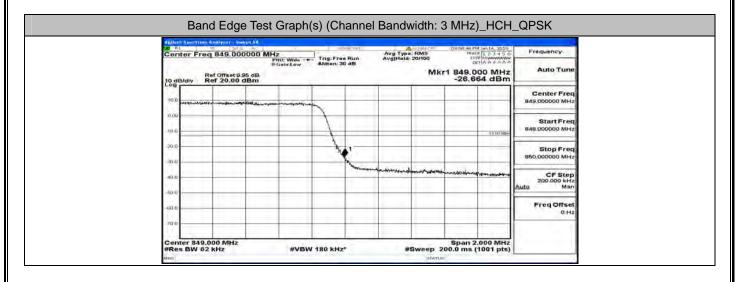


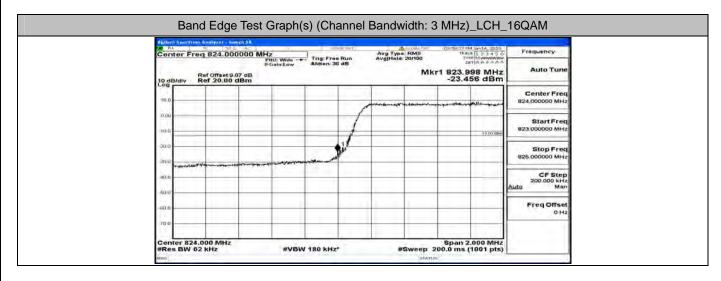


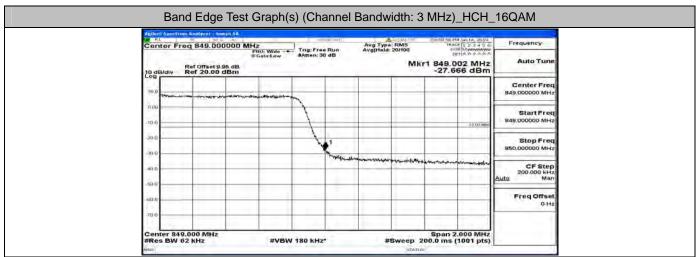


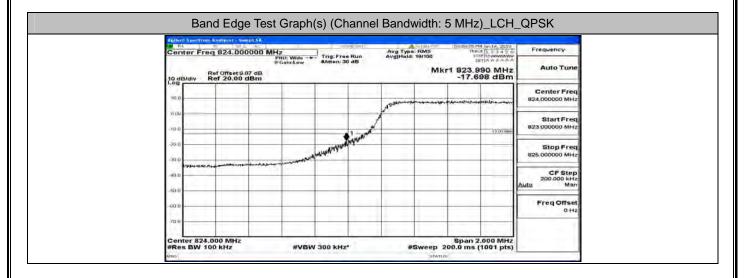


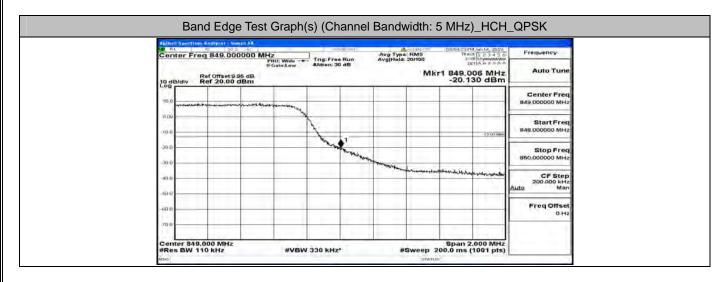


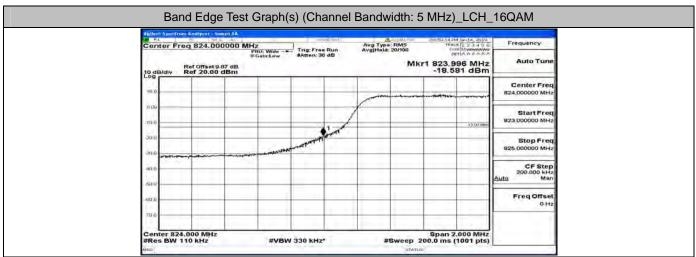


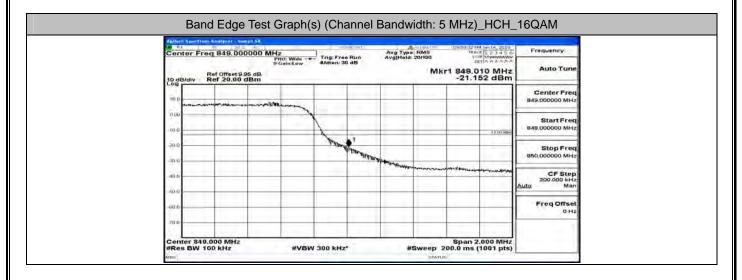


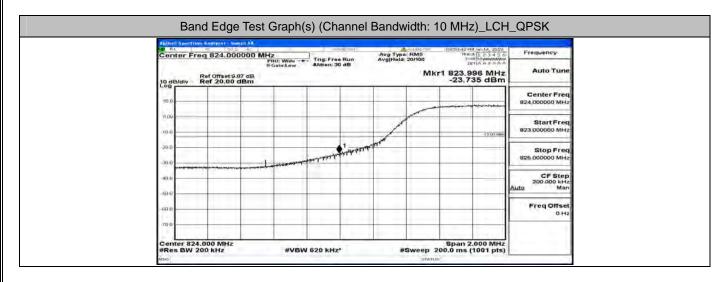


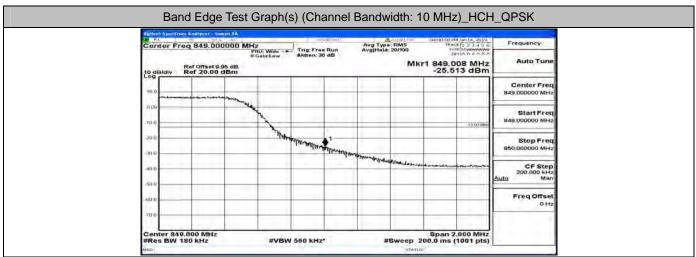


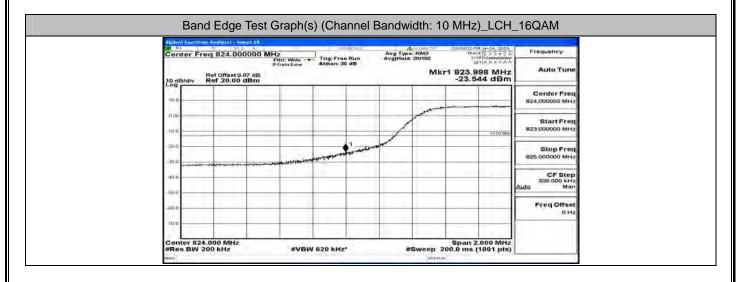


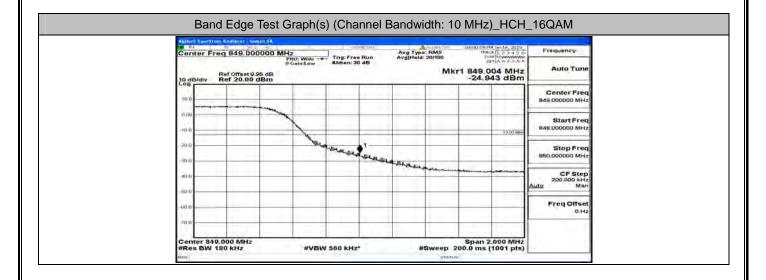












C.5 Conducted Spurious Emission

