Appendix F: Test Data for E-UTRA Band 5

Product Name: 3G/4G Smart Phone

Trade Mark: DOOGEE

Test Model: S59Pro

Environmental Conditions

Temperature:	22.9° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Li Huan

F.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	Verdict
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	22.62	21.84	PASS
		1	3	22.73	21.98	PASS
		1	5	22.66	21.82	PASS
	LCH	3	0	22.73	21.65	PASS
		3	2	22.73	21.68	PASS
		3	3	22.84	21.69	PASS
		6	0	21.73	20.63	PASS
		1	0	22.57	21.54	PASS
	MCH	1	3	22.73	21.70	PASS
QPSK /		1	5	22.54	21.48	PASS
16QAM		3	0	22.67	21.50	PASS
TOQAIVI		3	2	22.66	21.52	PASS
		3	3	22.70	21.49	PASS
		6	0	21.64	20.64	PASS
		1	0	22.54	21.76	PASS
		1	3	22.76	21.97	PASS
		1	5	22.64	21.78	PASS
	HCH	3	0	22.73	21.67	PASS
		3	2	22.73	21.66	PASS
		3	3	22.74	21.65	PASS
		6	0	21.74	20.79	PASS

Conducted Output Power Test Result (Channel Bandwidth: 3 MHz)						
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a ==li =4
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	22.64	21.86	PASS
		1	7	22.65	21.87	PASS
		1	14	22.72	21.92	PASS
	LCH	8	0	21.73	20.77	PASS
		8	4	21.70	20.75	PASS
		8	7	21.75	20.76	PASS
		15	0	21.69	20.68	PASS
		1	0	22.59	21.78	PASS
	МСН	1	7	22.56	21.75	PASS
QPSK /		1	14	22.61	21.73	PASS
16QAM		8	0	21.62	20.61	PASS
IOQAW		8	4	21.62	20.62	PASS
		8	7	21.62	20.62	PASS
		15	0	21.60	20.53	PASS
		1	0	22.69	21.60	PASS
		1	7	22.70	21.64	PASS
		1	14	22.71	21.70	PASS
	HCH	8	0	21.71	20.74	PASS
		8	4	21.73	20.74	PASS
		8	7	21.74	20.74	PASS
		15	0	21.66	20.60	PASS

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Madulation	Channal	RB Con	figuration	Average Power [dBm]	Average Power [dBm]	\/a nali a t
Modulation	Channel	Size	Offset	QPSK	16QAM	Verdict
		1	0	22.62	21.68	PASS
		1	12	22.79	21.86	PASS
		1	24	22.65	21.73	PASS
	LCH	12	0	21.66	20.65	PASS
		12	6	21.68	20.66	PASS
		12	13	21.77	20.77	PASS
		25	0	21.72	20.77	PASS
		1	0	22.57	21.82	PASS
		1	12	22.65	21.92	PASS
QPSK /		1	24	22.56	21.80	PASS
16QAM	MCH	12	0	21.63	20.69	PASS
TOQAIVI		12	6	21.63	20.70	PASS
		12	13	21.58	20.65	PASS
		25	0	21.67	20.67	PASS
		1	0	22.52	21.63	PASS
		1	12	22.70	21.78	PASS
		1	24	22.66	21.69	PASS
	HCH	12	0	21.69	20.66	PASS
		12	6	21.65	20.66	PASS
		12	13	21.73	20.69	PASS
		25	0	21.70	20.72	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 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	22.62	21.88	PASS
		1	24	22.80	22.03	PASS
		1	49	22.54	21.81	PASS
	LCH	25	0	21.79	20.84	PASS
		25	12	21.82	20.83	PASS
		25	25	21.87	20.86	PASS
		50	0	21.82	20.82	PASS
	мсн	1	0	22.60	21.86	PASS
		1	24	22.69	21.91	PASS
QPSK /		1	49	22.60	21.83	PASS
16QAM		25	0	21.74	20.75	PASS
TOQAW		25	12	21.72	20.76	PASS
		25	25	21.61	20.70	PASS
		50	0	21.66	20.70	PASS
		1	0	22.47	21.73	PASS
		1	24	22.65	21.88	PASS
		1	49	22.67	21.93	PASS
	HCH	25	0	21.69	20.73	PASS
		25	12	21.67	20.72	PASS
		25	25	21.71	20.74	PASS
		50	0	21.67	20.68	PASS

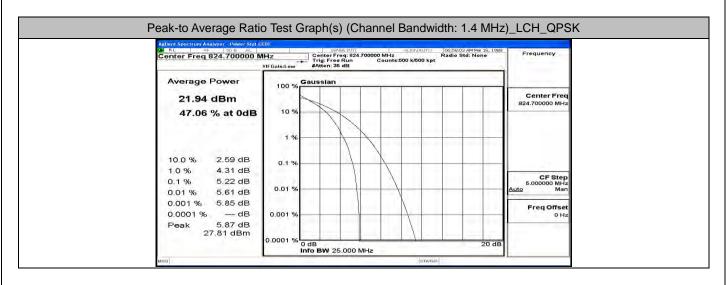
F.2 Peak-to-Average Ratio

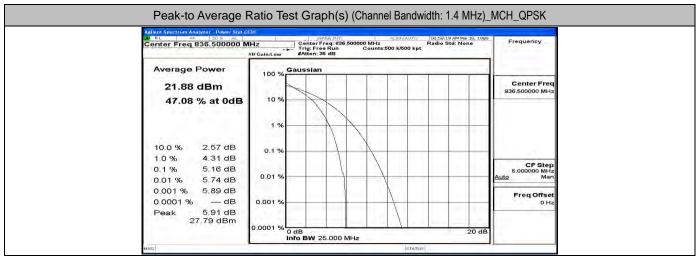
Peak-to Average Ratio Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
iviodulation	Griannei	[dB]	[dB]	verdict		
QPSK	LCH	5.22	<13	PASS		
	MCH	5.16	<13	PASS		
	HCH	5.26	<13	PASS		
16QAM	LCH	6.07	<13	PASS		
	MCH	5.87	<13	PASS		
	HCH	6.03	<13	PASS		

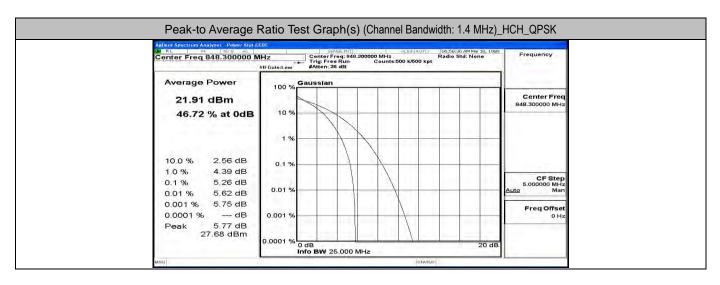
Peak-to Average Ratio Test Result (Channel Bandwidth: 3 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation	Channel	[dB]	[dB]	verdict	
QPSK	LCH	5.3	<13	PASS	
	MCH	5.15	<13	PASS	
	HCH	5.14	<13	PASS	
16QAM	LCH	6.04	<13	PASS	
	MCH	6.01	<13	PASS	
	HCH	6.06	<13	PASS	

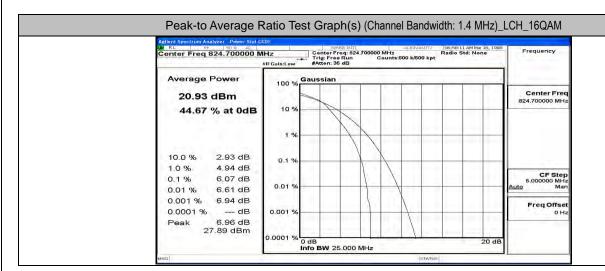
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)					
Marine	Channel	Peak-to-Average Ratio	Limit	Vordiet	
Modulation	Channel	[dB]	[dB]	Verdict	
QPSK	LCH	5.39	<13	PASS	
	MCH	5.22	<13	PASS	
	HCH	5.31	<13	PASS	
16QAM	LCH	6.12	<13	PASS	
	MCH	6.04	<13	PASS	
	HCH	6.1	<13	PASS	

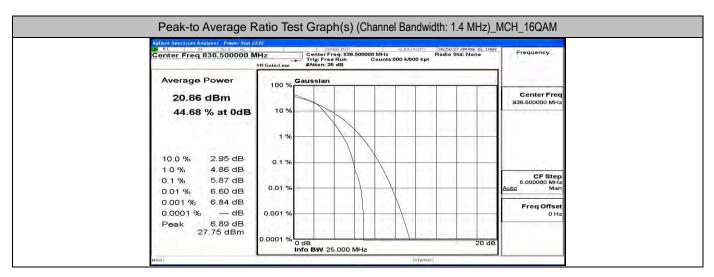
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict		
Modulation	Chamilei	[dB]	[dB]	verdict		
	LCH	5.44	<13	PASS		
QPSK	MCH	5.28	<13	PASS		
	HCH	5.28	<13	PASS		
16QAM	LCH	6.16	<13	PASS		
	MCH	6.06	<13	PASS		
	HCH	6.06	<13	PASS		

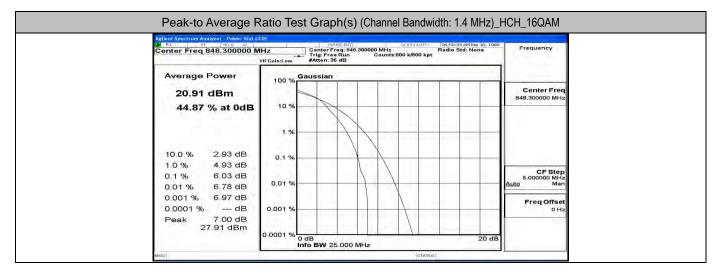


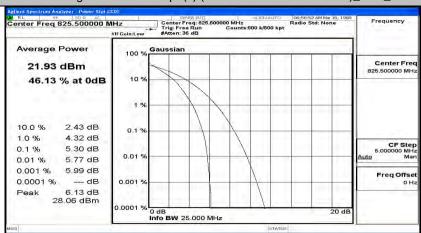


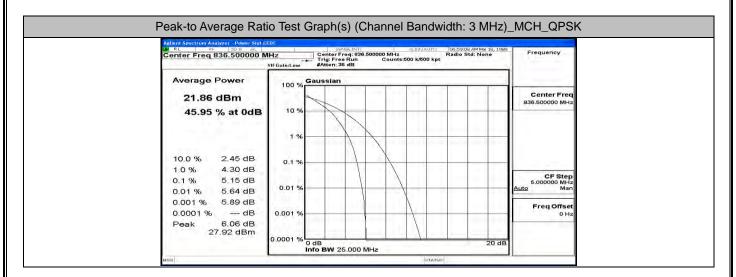


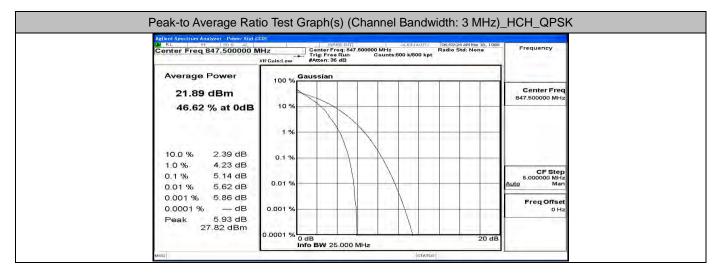


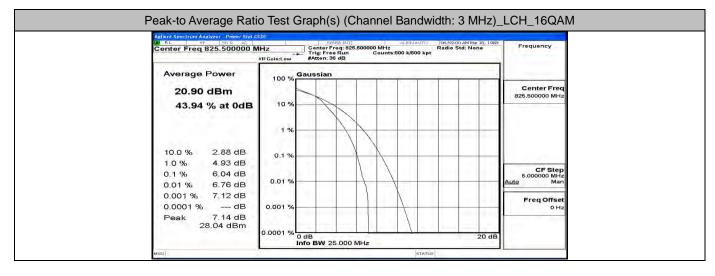


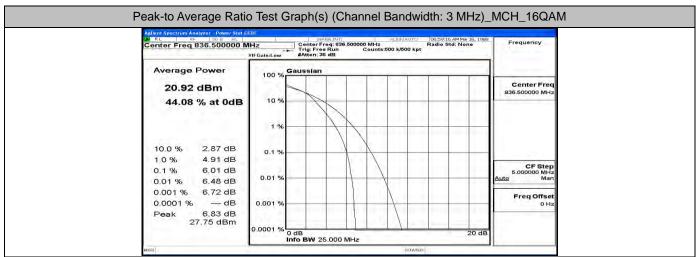


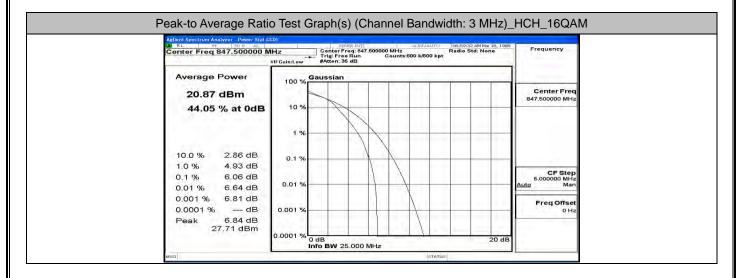


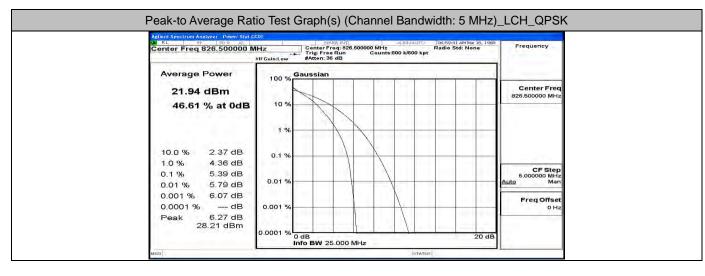


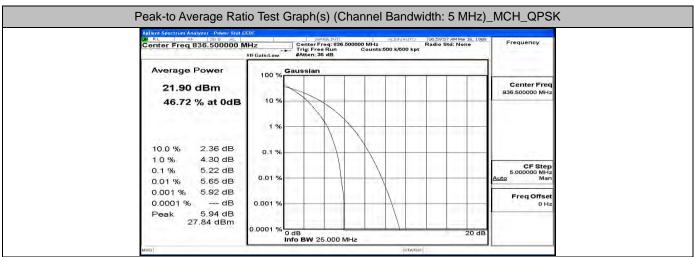


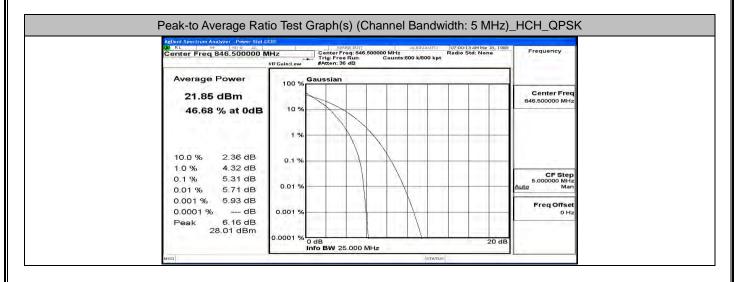


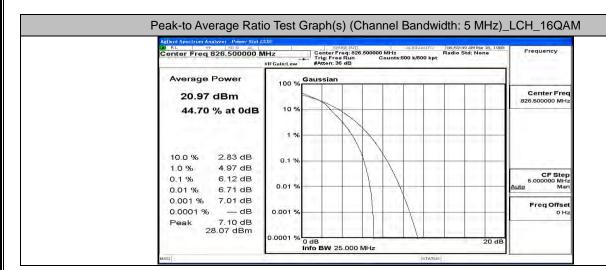


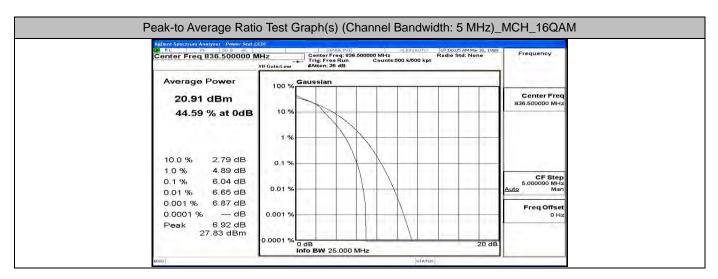


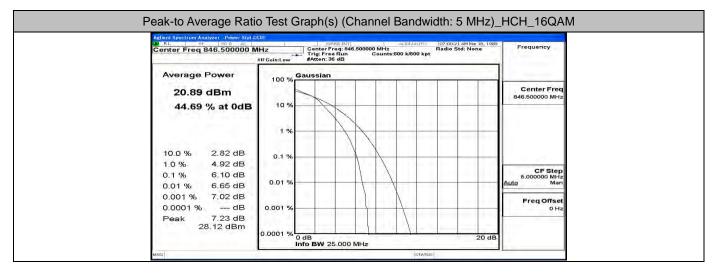


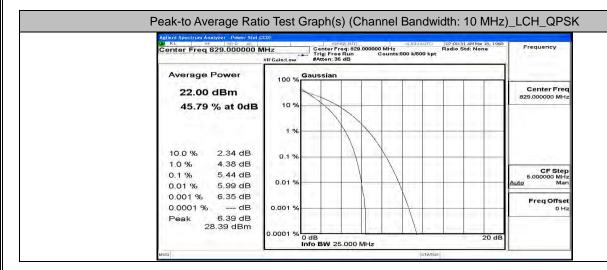


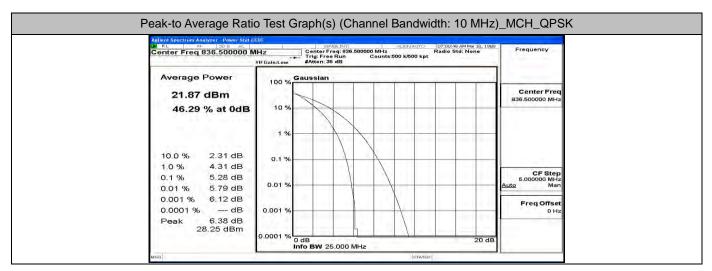


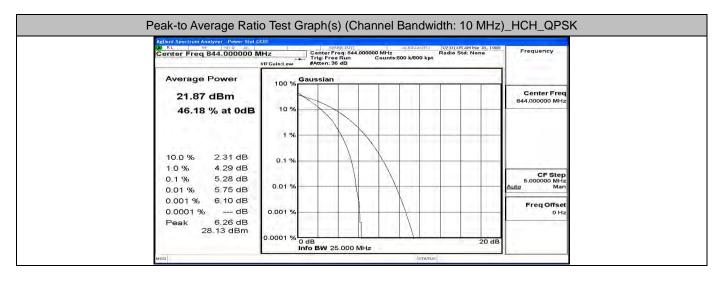


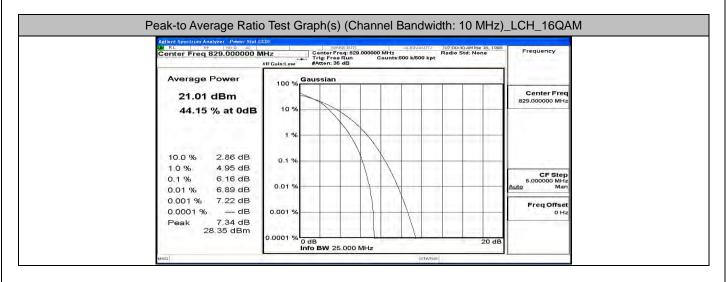


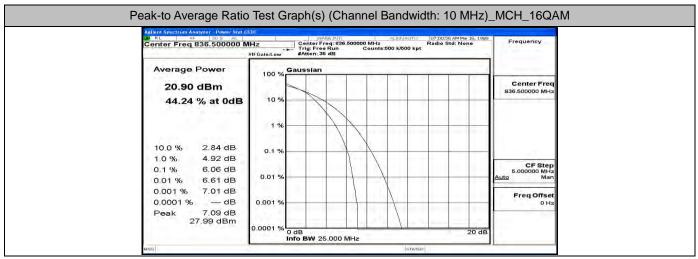


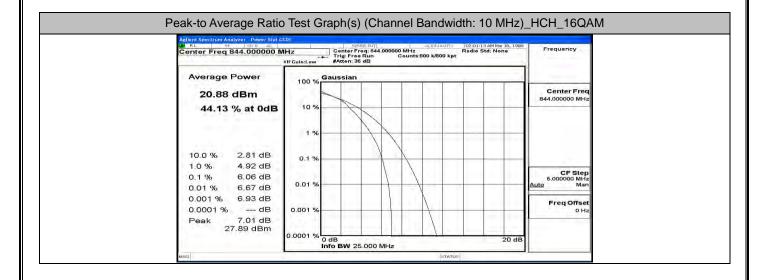












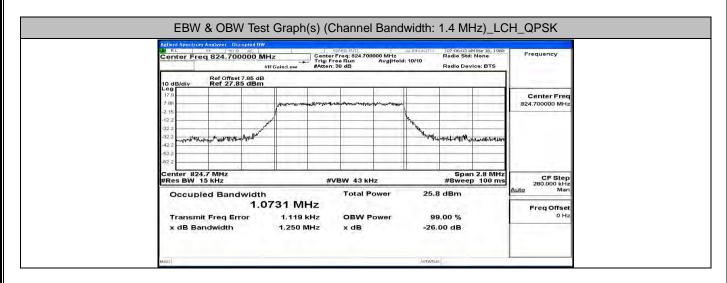
F.3 26dB Bandwidth and Occupied Bandwidth

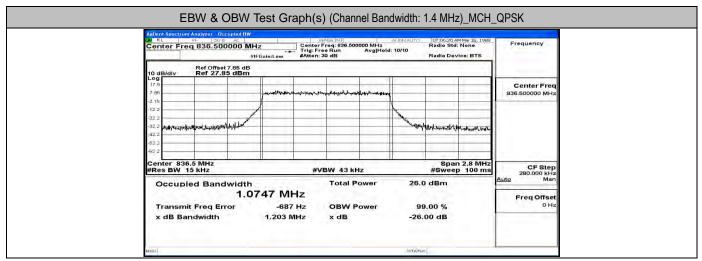
EBW & OBW Test Result (Channel Bandwidth: 1.4 MHz)						
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict		
	LCH	1.0731	1.250	PASS		
QPSK	MCH	1.0747	1.203	PASS		
	HCH	1.0776	1.216	PASS		
16QAM	LCH	1.0742	1.208	PASS		
	MCH	1.0781	1.226	PASS		
	HCH	1.0770	1.215	PASS		

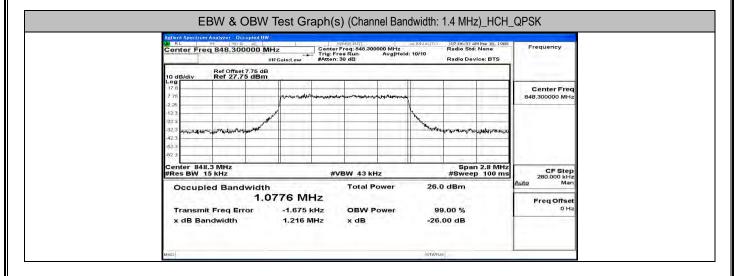
EBW & OBW Test Result (Channel Bandwidth: 3 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict		
Wodalation	Chamio	(MHz)	(MHz)	Voralot		
QPSK	LCH	2.6815	2.818	PASS		
	MCH	2.6805	2.831	PASS		
	HCH	2.6785	2.822	PASS		
16QAM	LCH	2.6735	2.812	PASS		
	MCH	2.6793	2.815	PASS		
	HCH	2.6765	2.812	PASS		

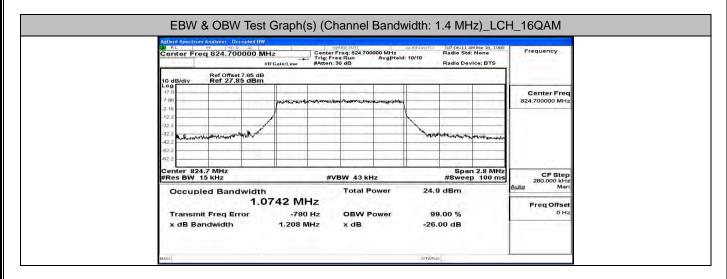
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Vordict		
Modulation	Griannei	(MHz)	(MHz)	Verdict		
QPSK	LCH	4.4687	4.740	PASS		
	MCH	4.4692	4.707	PASS		
	HCH	4.4732	4.754	PASS		
16QAM	LCH	4.4695	4.710	PASS		
	MCH	4.4721	4.756	PASS		
	HCH	4.4834	4.715	PASS		

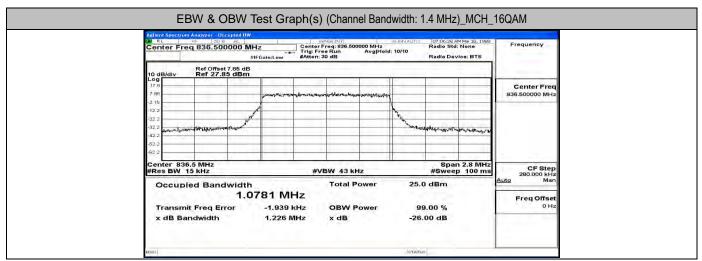
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
		(MHz)	(MHz)	
QPSK	LCH	8.9527	9.378	PASS
	MCH	8.9371	9.341	PASS
	HCH	8.9310	9.354	PASS
16QAM	LCH	8.9407	9.327	PASS
	MCH	8.9452	9.381	PASS
	HCH	8.9444	9.360	PASS

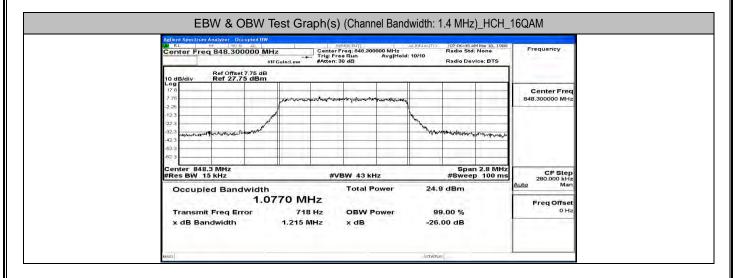


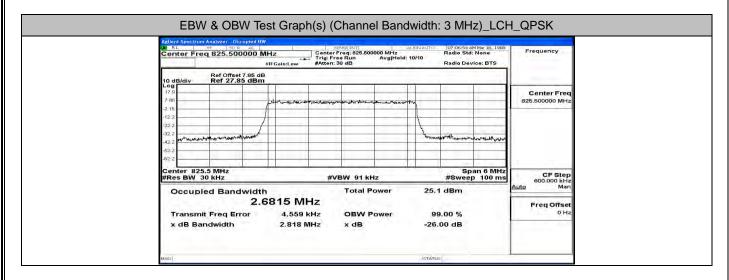


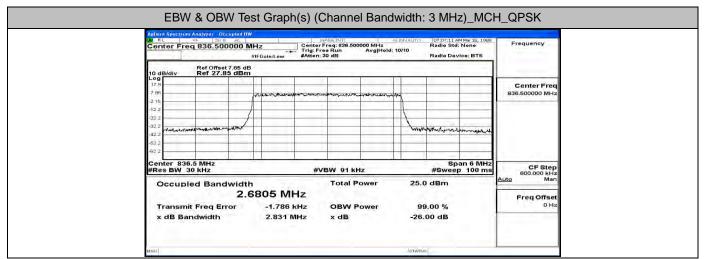


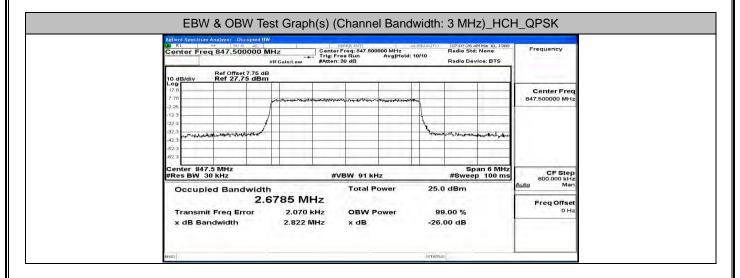


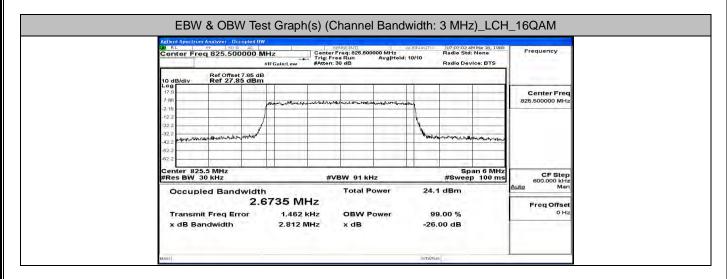


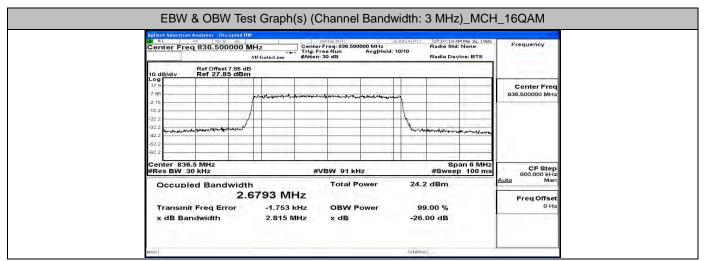


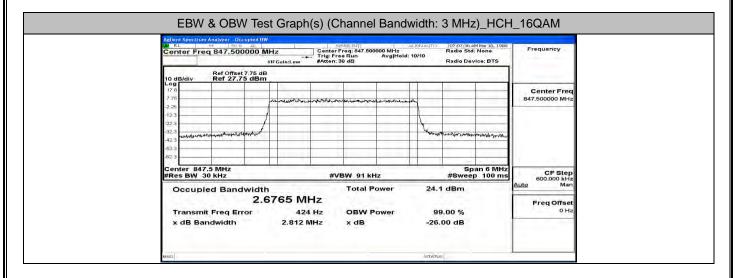


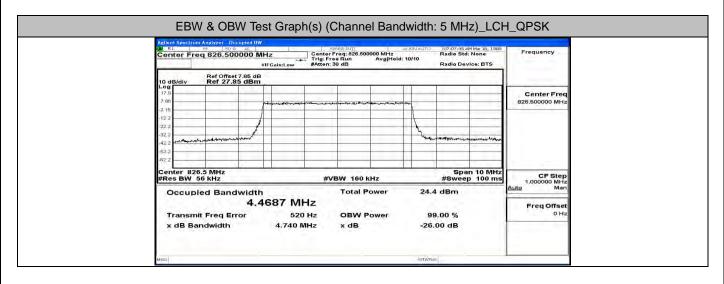


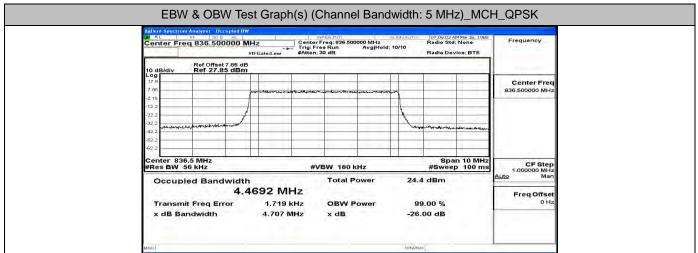


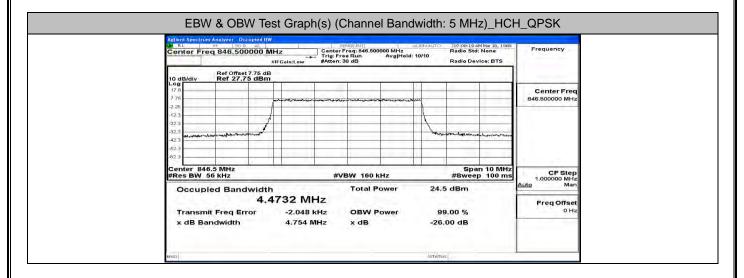




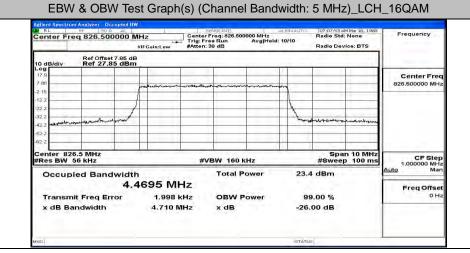


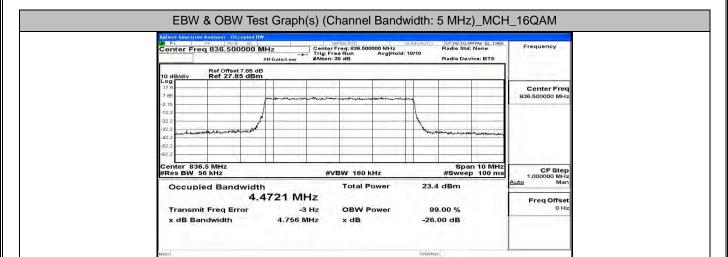


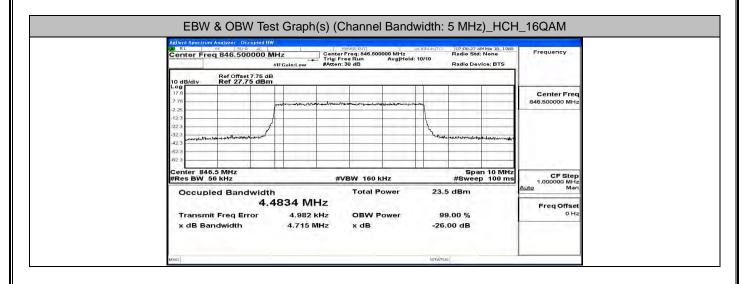


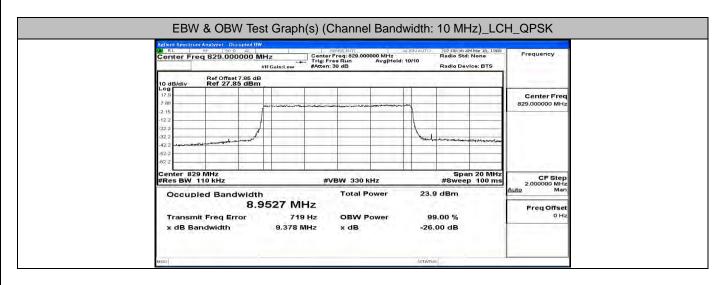


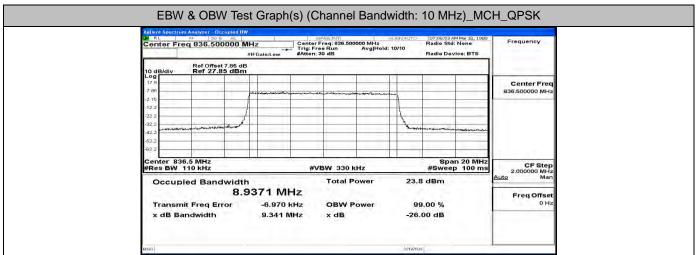


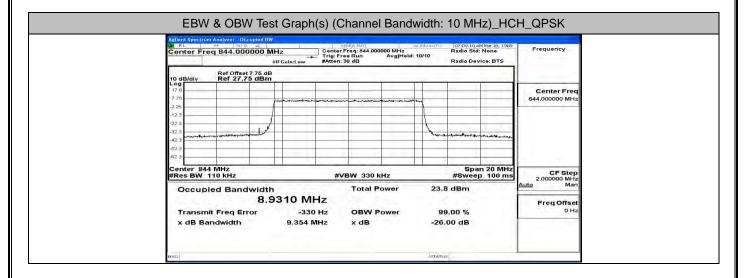


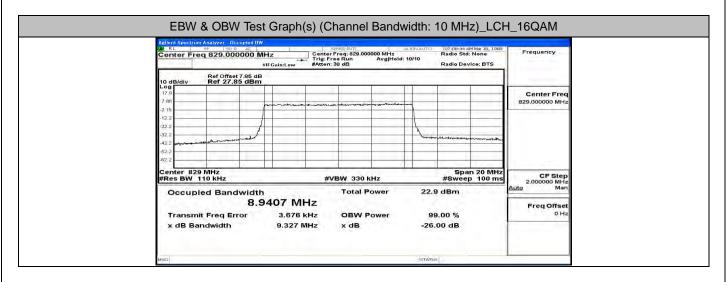


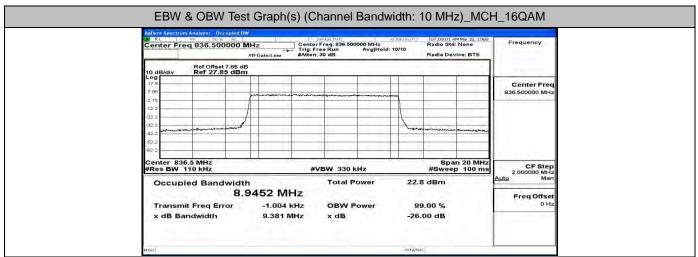


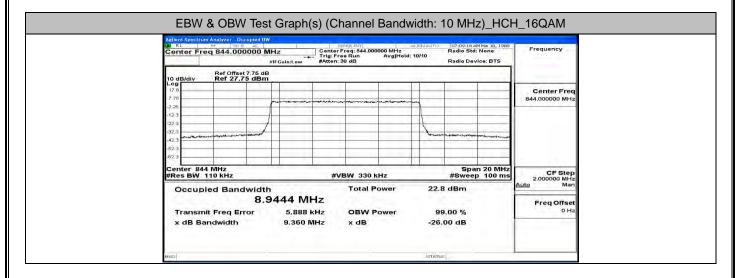




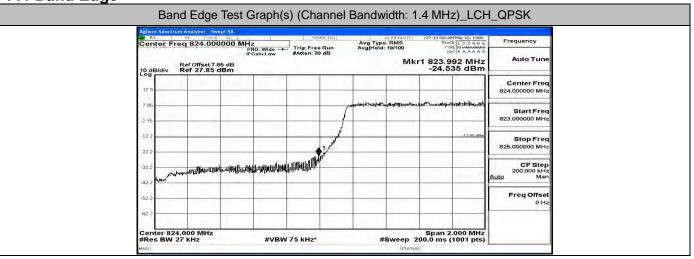


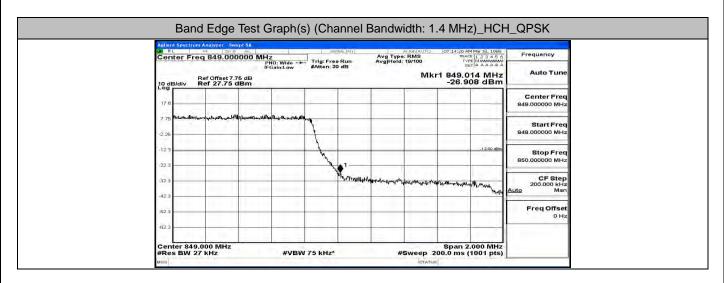


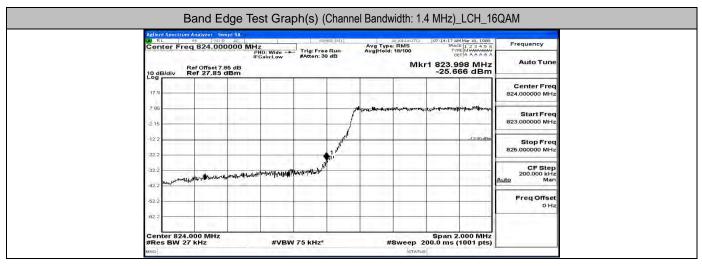


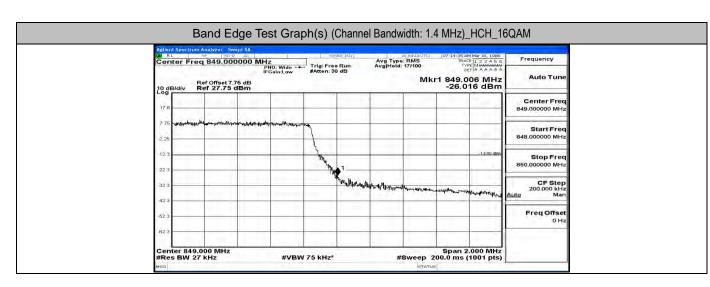


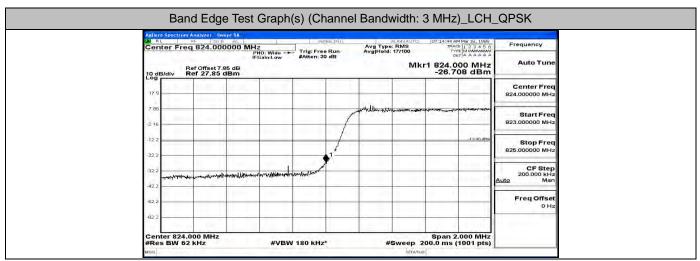
F.4 Band Edge

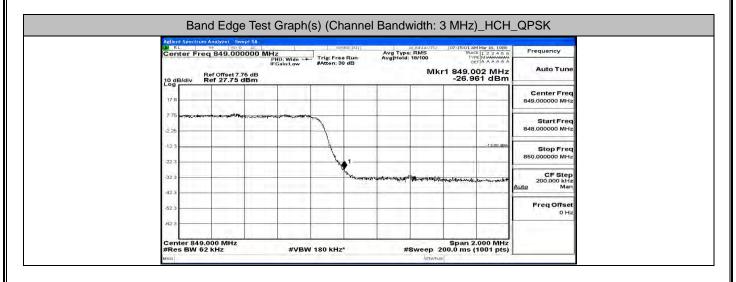


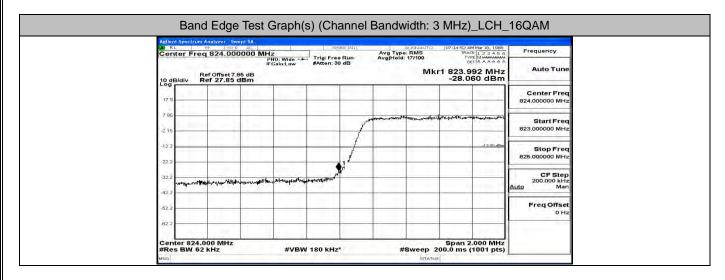


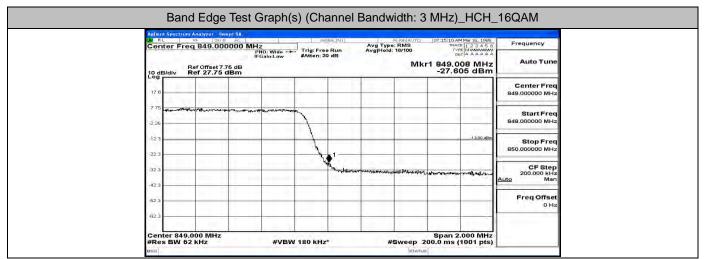


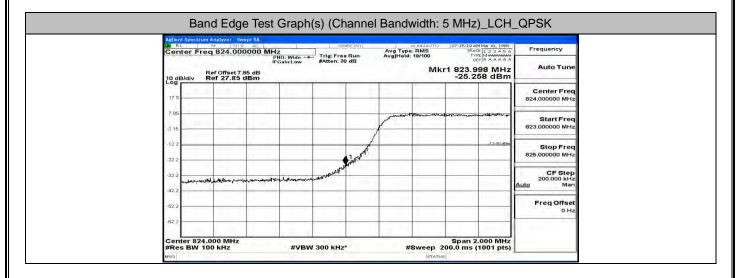


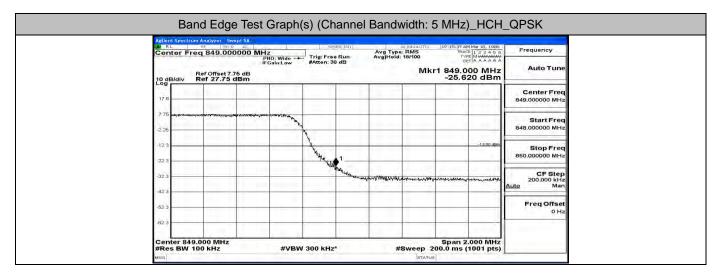


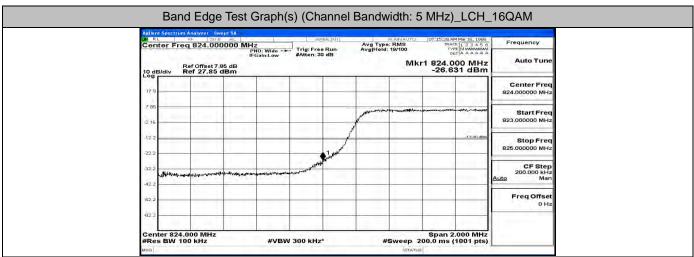


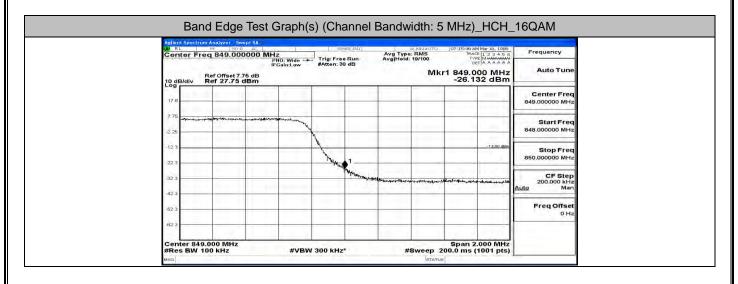


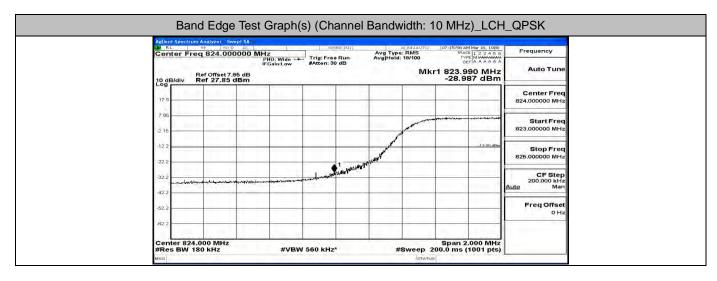


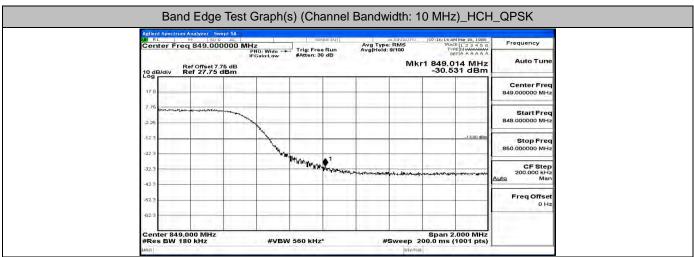


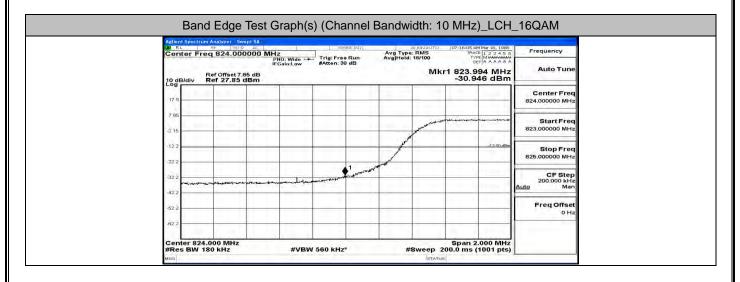


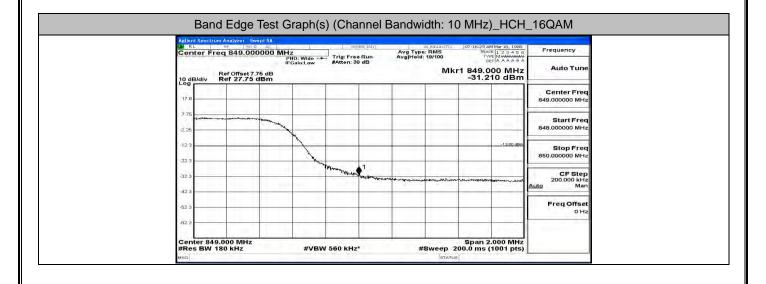






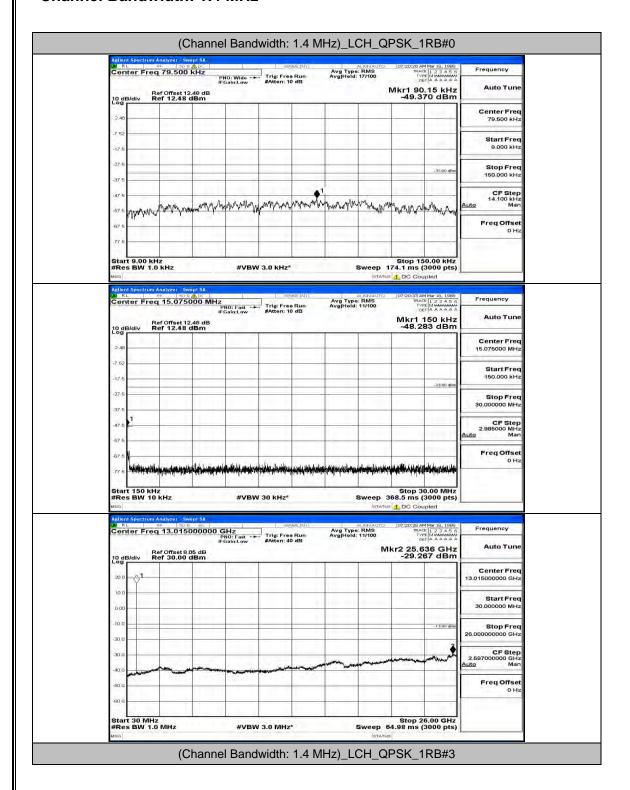


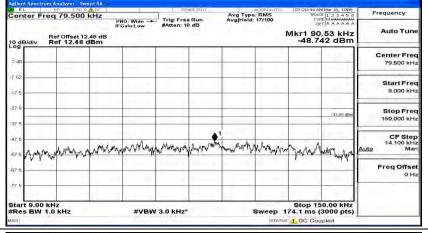


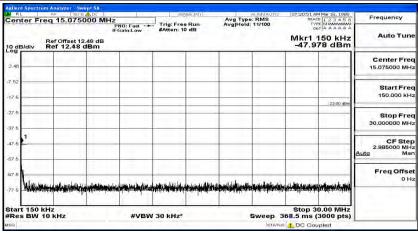


F.5 Conducted Spurious Emission

Channel Bandwidth: 1.4 MHz

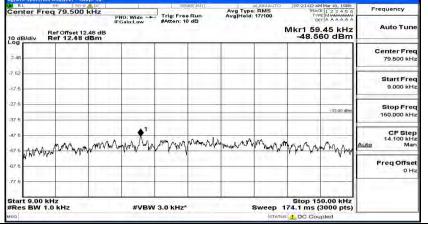


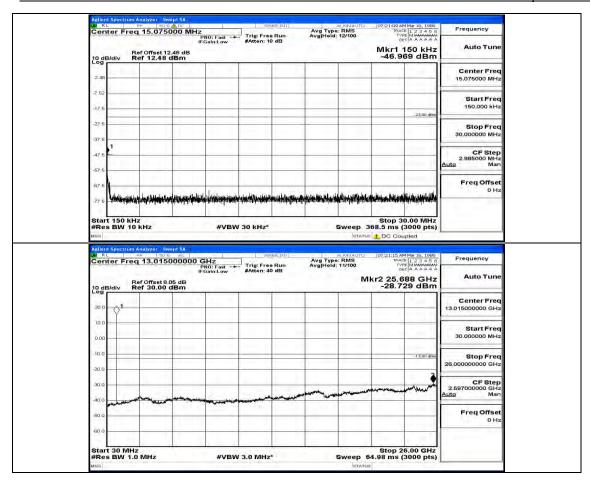


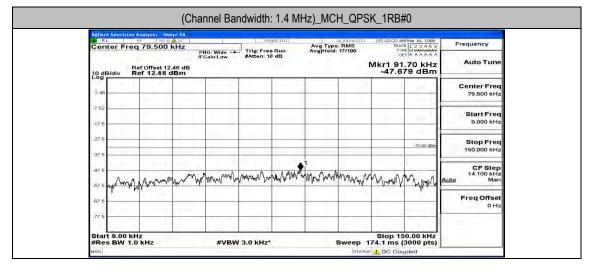


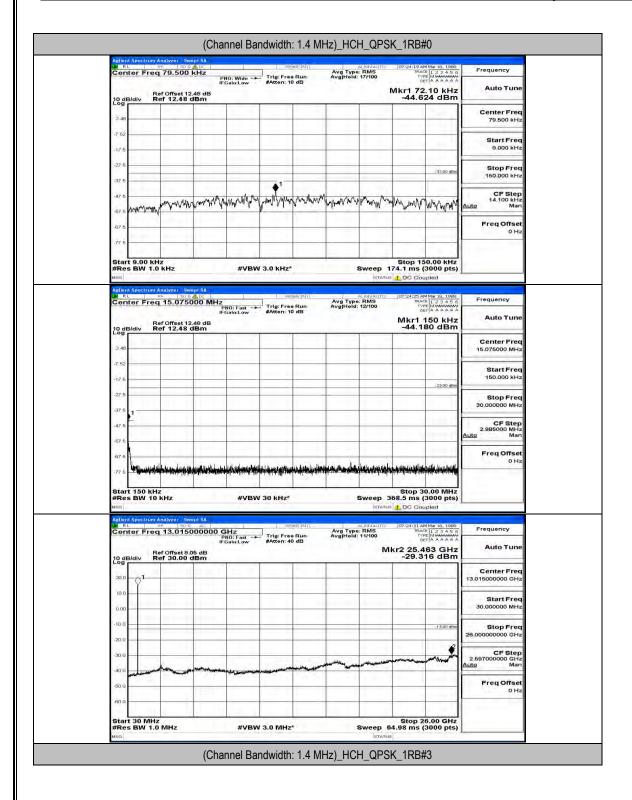


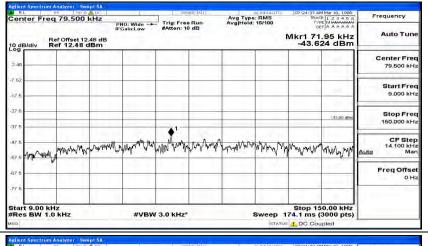


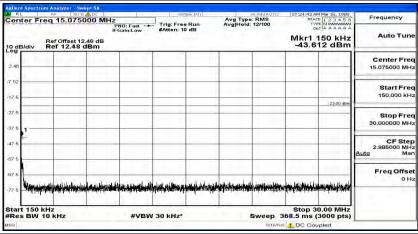




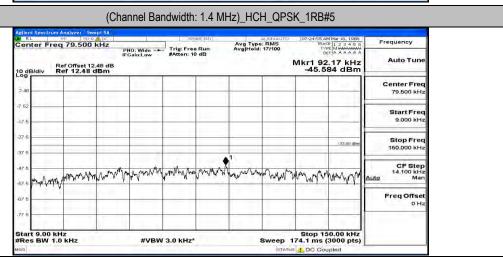


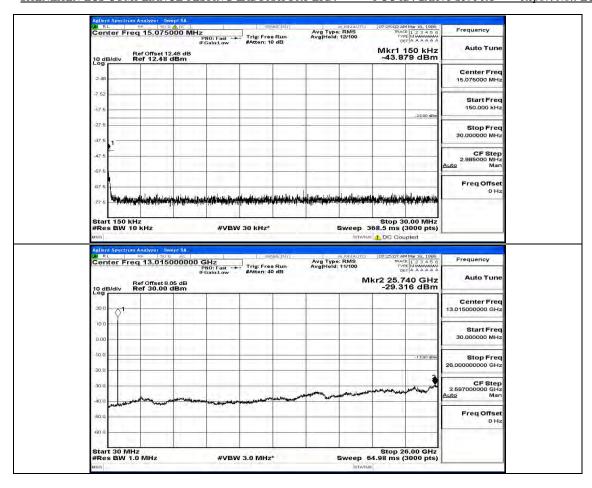


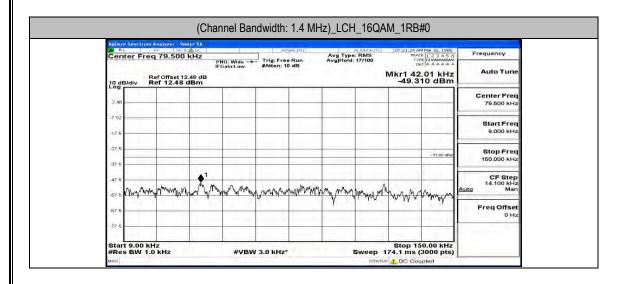


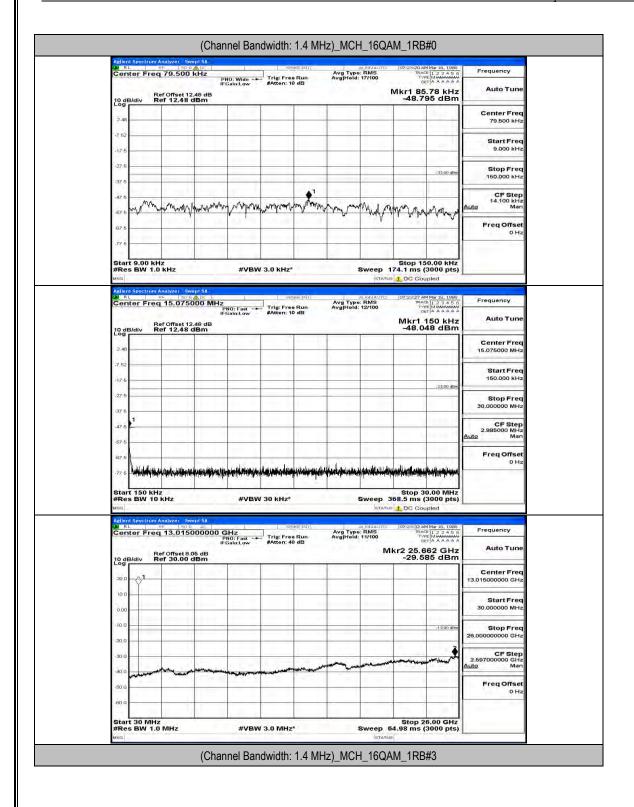


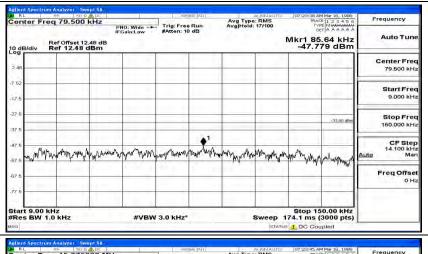


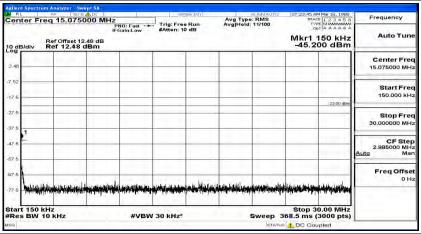




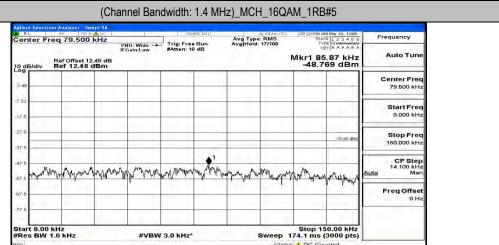


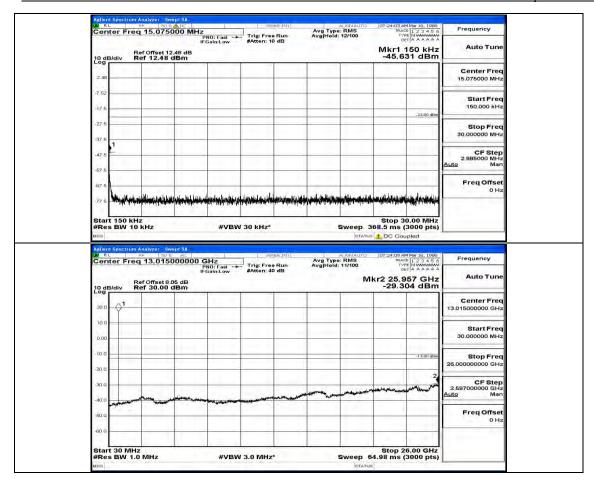


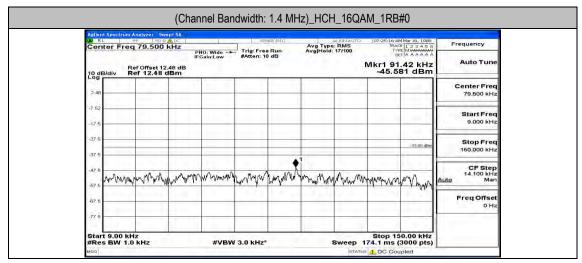












Channel Bandwidth: 3 MHz

