# Appendix I: Test Data for E-UTRA Band 13

**Product Name: 3G/4G Smart Phone** 

**Trade Mark: DOOGEE Test Model: S88Plus** 

#### **Environmental Conditions**

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

# **I.1 Conducted Output Power**

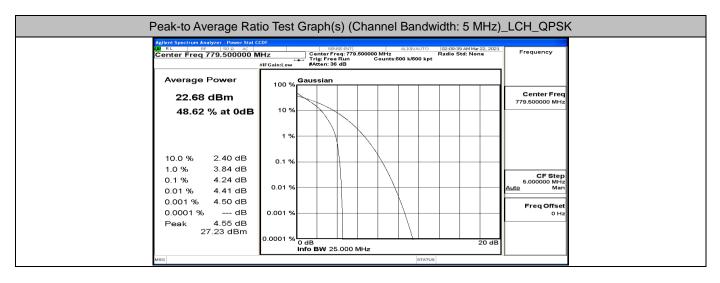
Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict	
	Size	Offset QPSK 160		16QAM	verdict	
		1	0	22.84	21.88	PASS
		1	12	23.07	21.93	PASS
		1	24	22.84	21.77	PASS
	LCH	12	0	22.00	20.81	PASS
		12	6	21.96	20.79	PASS
		12	13	21.94	20.67	PASS
		25	0	21.93	20.96	PASS
		1	0	22.96	21.94	PASS
00014		1	12	23.15	22.31	PASS
		1	24	22.84	21.81	PASS
QPSK / 16QAM	MCH	12	0	22.02	20.77	PASS
IOQAW		12	6	21.99	20.84	PASS
		12	13	22.06	20.95	PASS
		25	0	21.98	21.02	PASS
		1	0	23.02	21.81	PASS
	нсн	1	12	22.95	21.72	PASS
		1	24	22.84	21.16	PASS
		12	0	22.08	20.95	PASS
		12	6	22.06	20.94	PASS
		12	13	21.85	20.72	PASS
		25	0	21.96	21.06	PASS

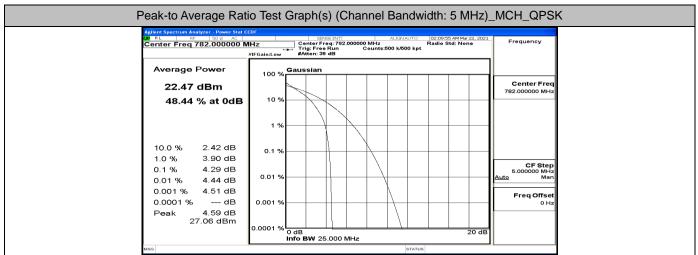
Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict	
Modulation	Channel	Size	Offset	QPSK	16QAM	verdict
		1	0	23.24	21.91	PASS
		1	24	23.47	22.72	PASS
		1	49	22.84	21.71	PASS
	LCH	25	0	22.10	21.07	PASS
		25	12	22.16	21.15	PASS
		25	25	22.05	21.01	PASS
		50	0	22.10	21.14	PASS
		1	0	23.04	22.15	PASS
	мсн	1	24	23.46	22.88	PASS
QPSK /		1	49	22.67	21.49	PASS
16QAM		25	0	22.23	21.18	PASS
IOQAW		25	12	22.32	21.17	PASS
		25	25	22.15	21.11	PASS
		50	0	22.25	21.14	PASS
		1	0	23.08	22.22	PASS
	нсн	1	24	23.52	22.89	PASS
		1	49	23.02	21.61	PASS
		25	0	22.31	21.22	PASS
		25	12	22.30	21.30	PASS
		25	25	22.05	21.06	PASS
		50	0	22.45	21.21	PASS

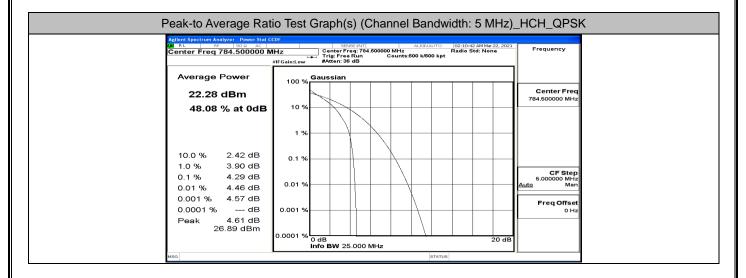
# I.2 Peak-to-Average Ratio

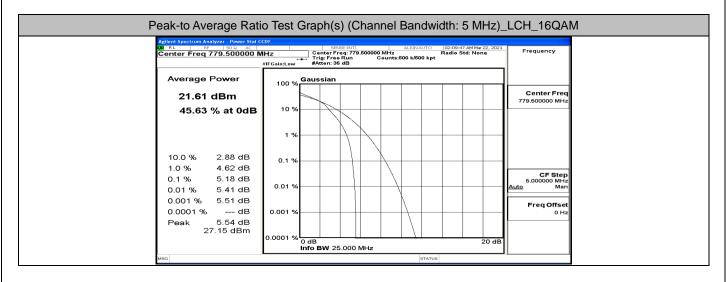
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
		[dB]	[dB]		
	LCH	4.24	<13	PASS	
QPSK	MCH	4.29	<13	PASS	
	HCH	4.29	<13	PASS	
16QAM	LCH	5.18	<13	PASS	
	MCH	5.21	<13	PASS	
	HCH	5.17	<13	PASS	

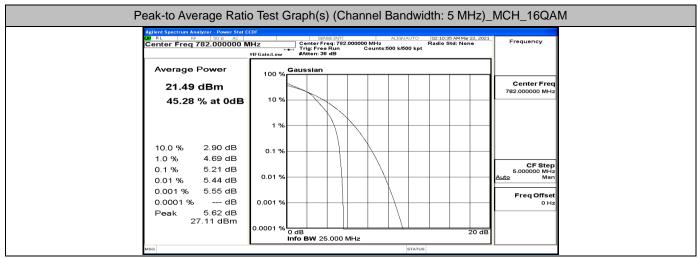
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)					
Modulation	Channel	Peak-to-Average Ratio	Limit	Verdict	
Modulation		[dB]	[dB]		
QPSK	LCH	4.36	<13	PASS	
	MCH	4.3	<13	PASS	
	HCH	4.34	<13	PASS	
16QAM	LCH	5.22	<13	PASS	
	MCH	5.21	<13	PASS	
	HCH	5.25	<13	PASS	

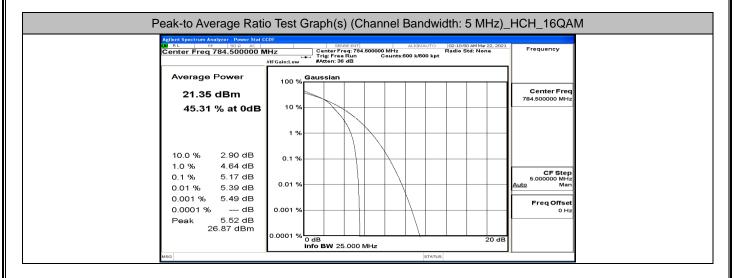


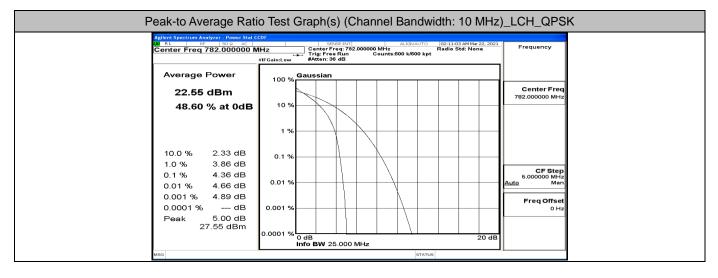


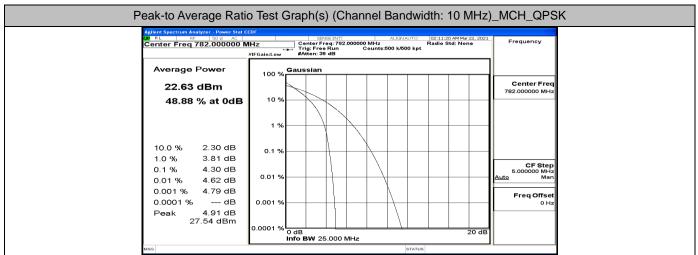


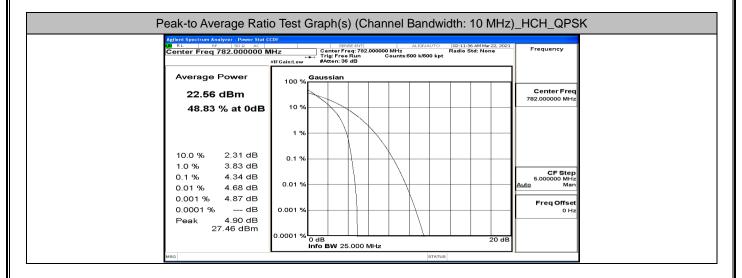


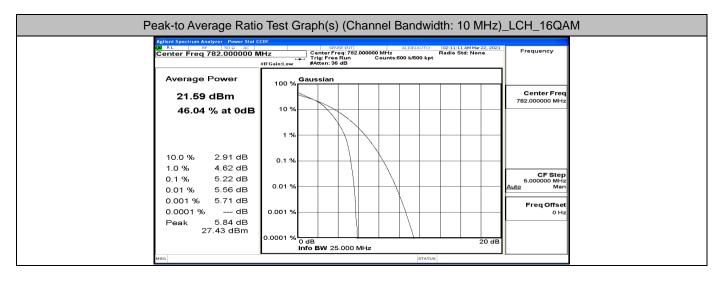


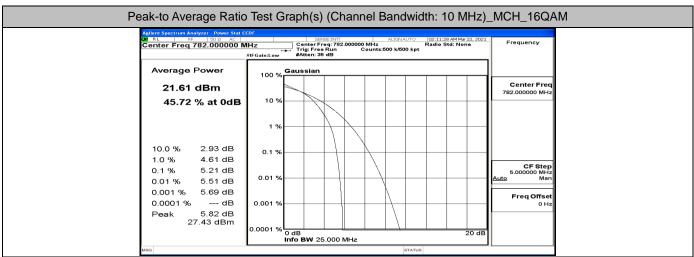


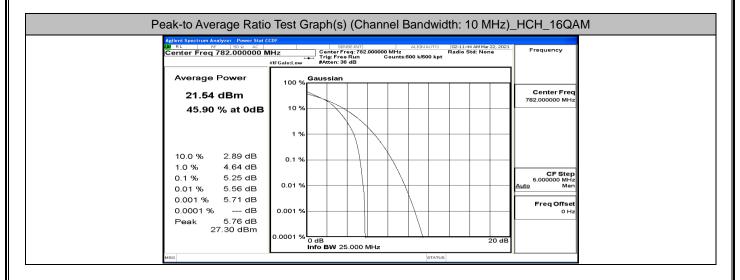








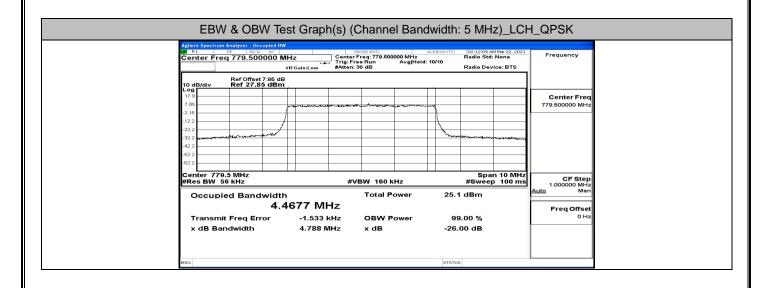


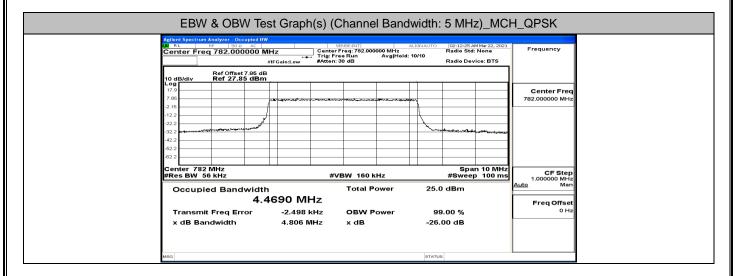


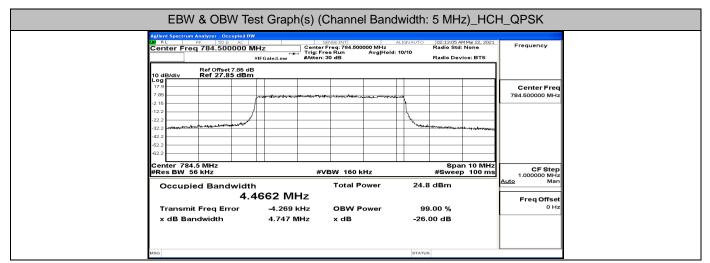
### I.3 26dB Bandwidth and Occupied Bandwidth

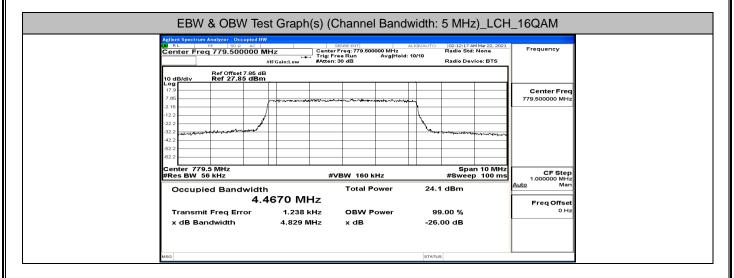
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)					
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict	
		(MHz)	(MHz)		
	LCH	4.4677	4.788	PASS	
QPSK	MCH	4.4690	4.806	PASS	
	HCH	4.4662	4.747	PASS	
16QAM	LCH	4.4670	4.829	PASS	
	MCH	9.9128	10.00	PASS	
	HCH	4.4637	4.849	PASS	

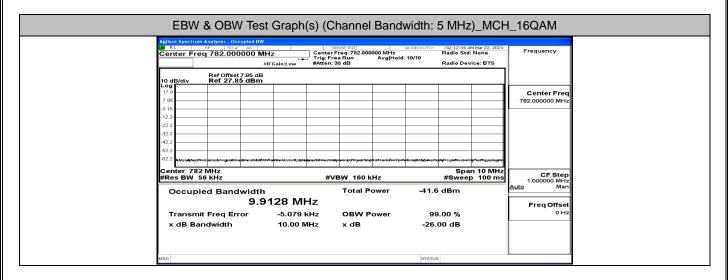
EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth	26dB Bandwidth	Verdict
Modulation		(MHz)	(MHz)	verdict
	LCH	8.9774	19.87	PASS
QPSK	MCH	8.9095	9.440	PASS
	HCH	8.9231	9.452	PASS
16QAM	LCH	8.9012	9.395	PASS
	MCH	8.9062	9.456	PASS
	HCH	8.9096	9.425	PASS

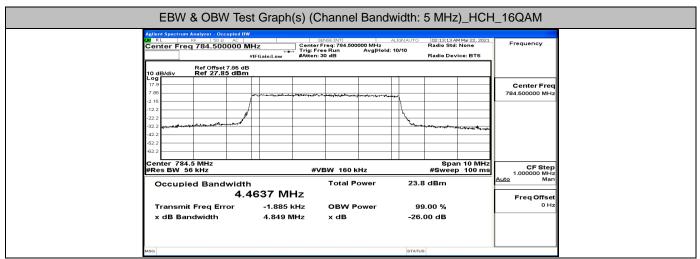


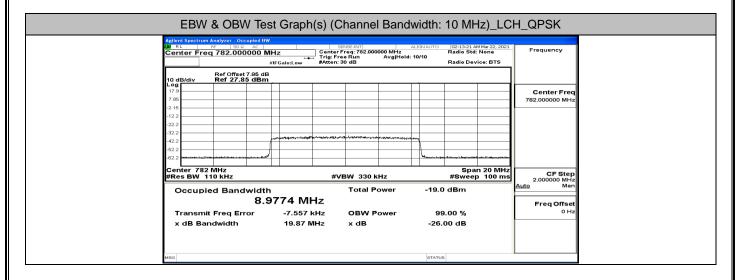


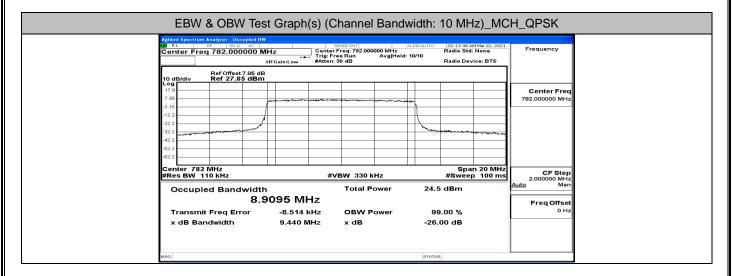


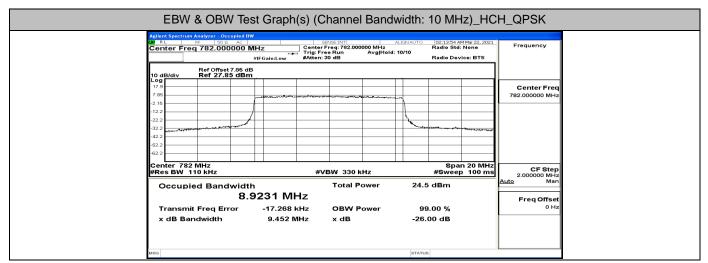


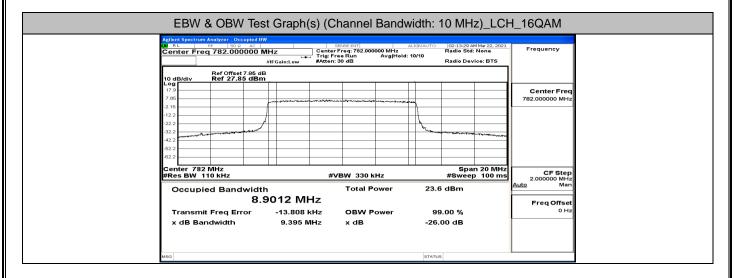


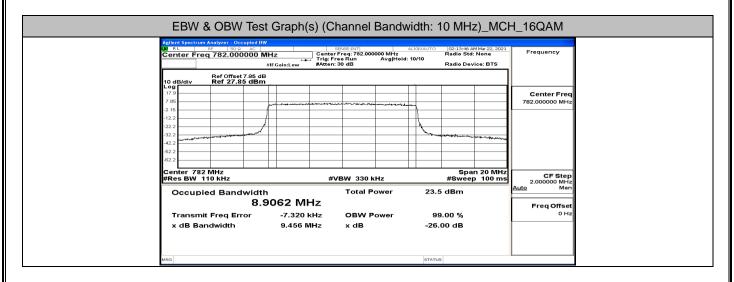


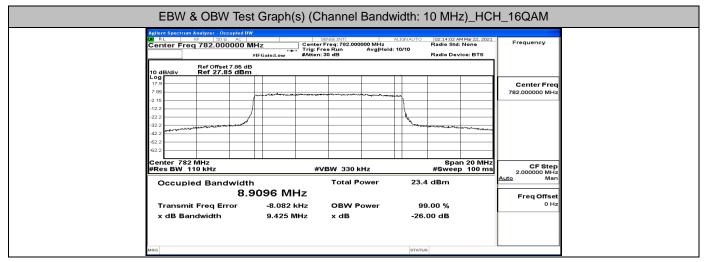




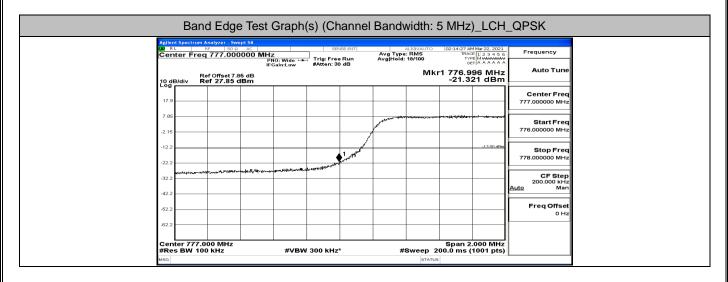


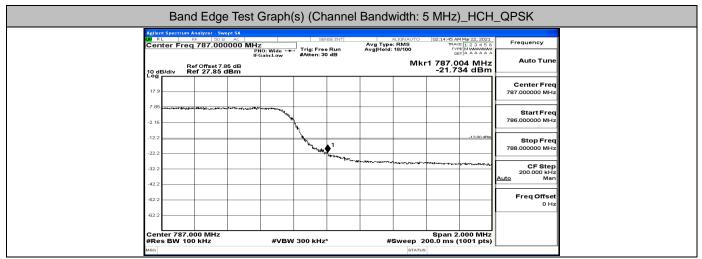


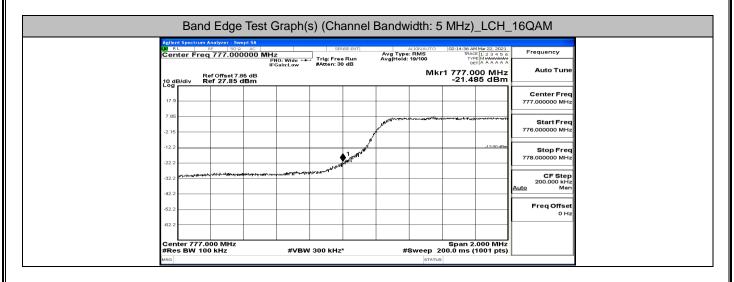


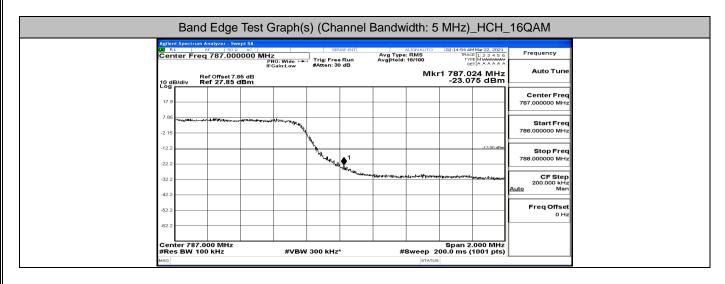


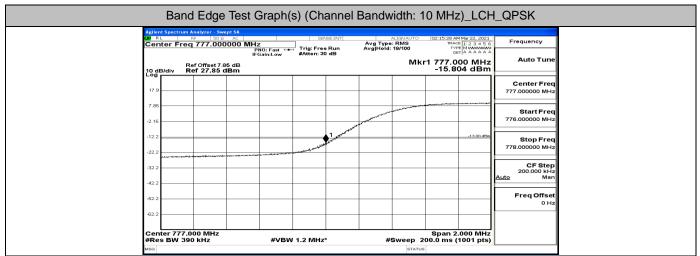
#### I.4 Band Edge

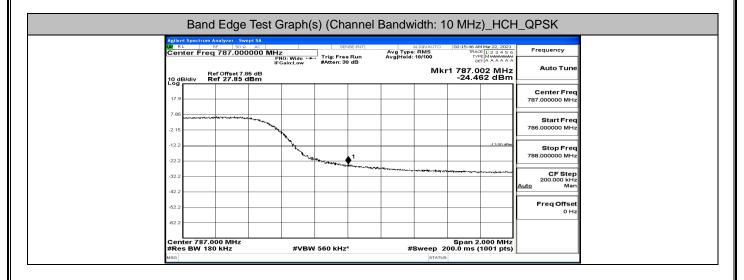


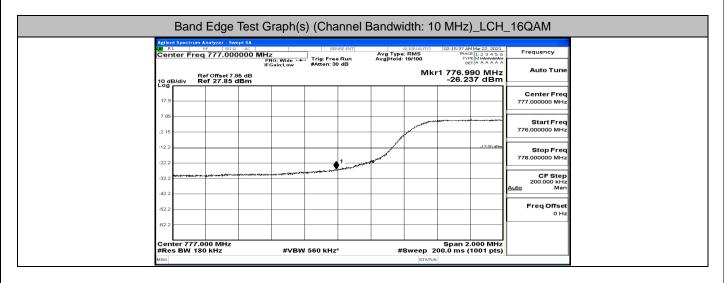


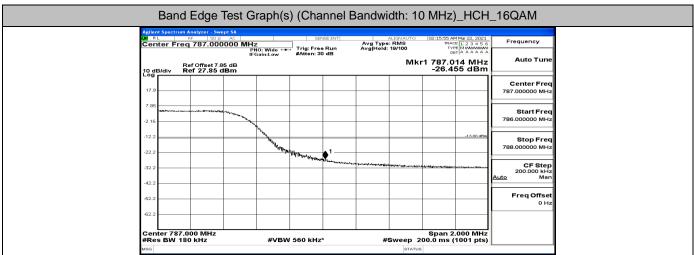


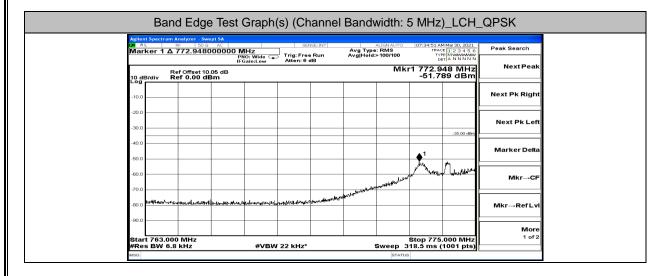




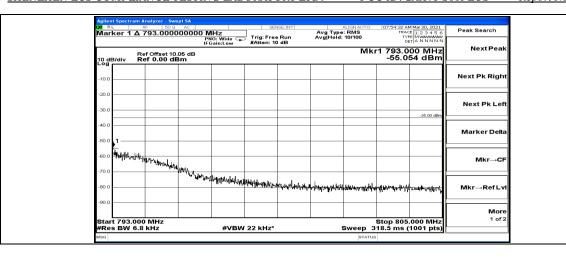


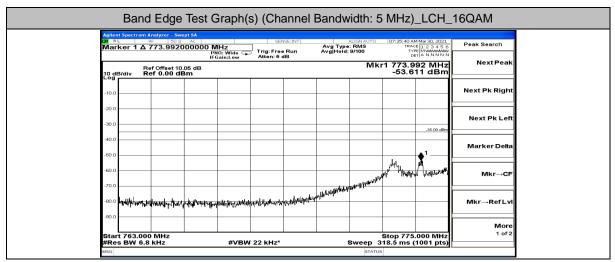


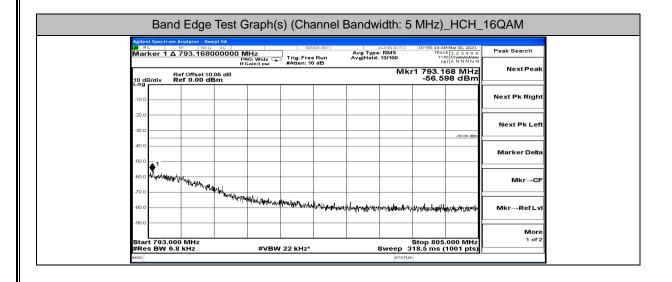


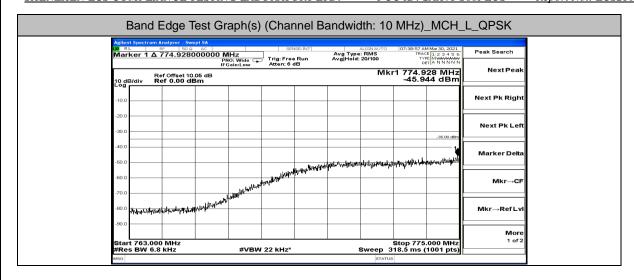


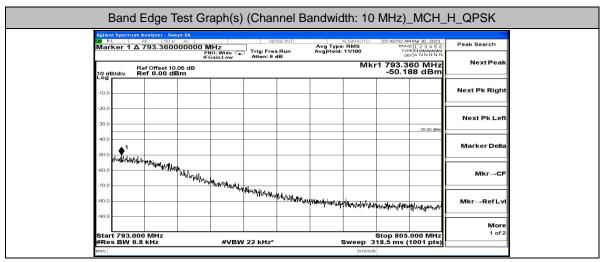
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)\_HCH\_QPSK

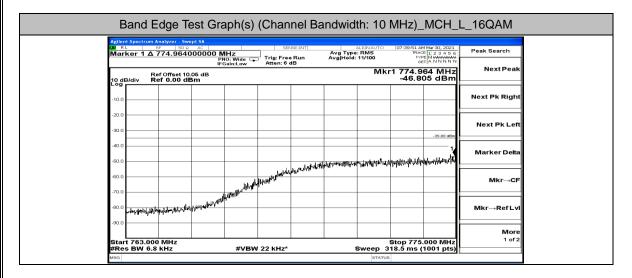


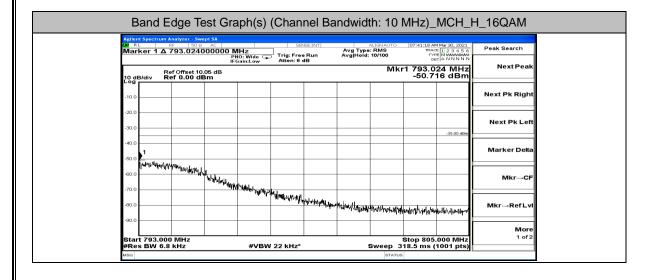












#### I.5 Conducted Spurious Emission

## **Test Graphs**

**Channel Bandwidth: 5 MHz** 

