

Appendix G: Test Data for E-UTRA Band 17

Product Name: 5 inch 4G Smart Phone

Trade Mark: LOGIC, iSWAG, UNONU

Test Model: L50T

Environmental Conditions

Temperature:	22.6 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang.Chuang
Supervised by:	TOM.LIU

Appendix G.1: Effective (Isotropic) Radiated Power Output Data

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	22.02	21.12	PASS
		1	12	22.34	21.44	PASS
		1	24	22.13	21.23	PASS
		12	0	21.10	20.20	PASS
		12	6	21.15	20.25	PASS
		12	13	21.16	20.26	PASS
		25	0	21.17	20.27	PASS
	MCH	1	0	22.15	21.25	PASS
		1	12	22.46	21.56	PASS
		1	24	22.11	21.21	PASS
		12	0	21.18	20.28	PASS
		12	6	21.18	20.28	PASS
		12	13	21.07	20.17	PASS
		25	0	21.14	20.24	PASS
	HCH	1	0	22.09	21.19	PASS
		1	12	22.35	21.45	PASS
		1	24	22.00	21.10	PASS
		12	0	21.14	20.24	PASS

16QAM		12	6	21.20	20.3	PASS
		12	13	21.09	20.19	PASS
		25	0	21.13	20.23	PASS
	LCH	1	0	21.40	20.5	PASS
		1	12	21.75	20.85	PASS
		1	24	21.48	20.58	PASS
		12	0	20.30	19.40	PASS
		12	6	20.35	19.45	PASS
		12	13	20.34	19.44	PASS
		25	0	20.22	19.32	PASS
	MCH	1	0	21.11	20.21	PASS
		1	12	21.43	20.53	PASS
		1	24	21.11	20.21	PASS
		12	0	20.27	19.37	PASS
		12	6	20.26	19.36	PASS
		12	13	20.11	19.21	PASS
		25	0	20.18	19.28	PASS
	HCH	1	0	21.18	20.28	PASS
		1	12	21.56	20.66	PASS
		1	24	21.13	20.23	PASS
		12	0	20.24	19.34	PASS
		12	6	20.29	19.39	PASS
		12	13	20.17	19.27	PASS
		25	0	20.20	19.30	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	E.i.r.p [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	22.08	21.18	PASS
		1	24	22.38	21.48	PASS
		1	49	22.16	21.26	PASS
		25	0	21.20	20.30	PASS
		25	12	21.21	20.31	PASS
		25	25	21.14	20.24	PASS
		50	0	21.14	20.24	PASS
	MCH	1	0	22.14	21.24	PASS
		1	24	22.41	21.51	PASS
		1	49	22.15	21.25	PASS
		25	0	21.23	20.33	PASS
		25	12	21.22	20.32	PASS
		25	25	21.18	20.28	PASS
		50	0	21.17	20.27	PASS

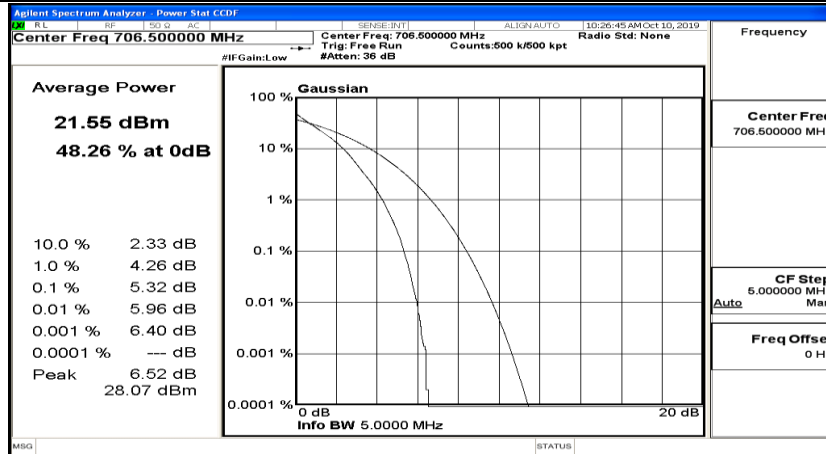
	HCH	1	0	22.16	21.26	PASS
		1	24	22.37	21.47	PASS
		1	49	22.12	21.22	PASS
		25	0	21.21	20.31	PASS
		25	12	21.17	20.27	PASS
		25	25	21.19	20.29	PASS
		50	0	21.21	20.31	PASS
16QAM	LCH	1	0	21.35	20.45	PASS
		1	24	21.62	20.72	PASS
		1	49	21.41	20.51	PASS
		25	0	20.20	19.30	PASS
		25	12	20.23	19.33	PASS
		25	25	20.14	19.24	PASS
		50	0	20.17	19.27	PASS
	MCH	1	0	21.39	20.49	PASS
		1	24	21.64	20.74	PASS
		1	49	21.40	20.50	PASS
		25	0	20.24	19.34	PASS
		25	12	20.25	19.35	PASS
		25	25	20.18	19.28	PASS
		50	0	20.18	19.28	PASS
	HCH	1	0	21.54	20.64	PASS
		1	24	21.75	20.85	PASS
		1	49	21.47	20.57	PASS
		25	0	20.26	19.36	PASS
		25	12	20.24	19.34	PASS
		25	25	20.21	19.31	PASS
		50	0	20.26	19.36	PASS

G.2: Peak-to-Average Ratio

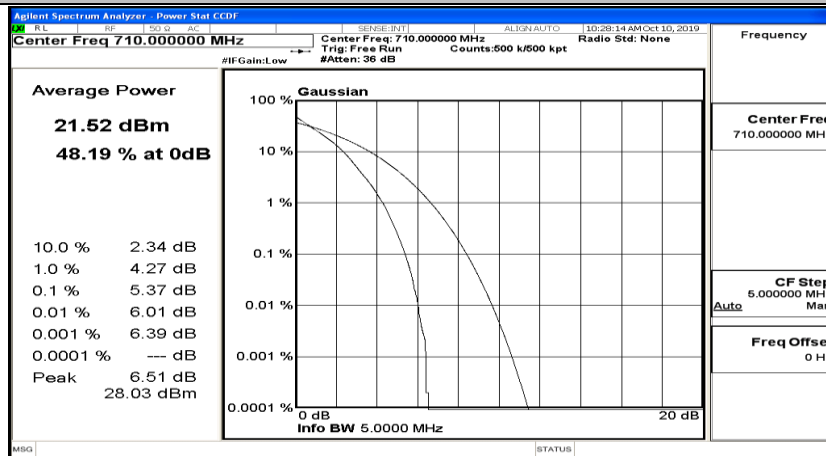
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.32	<13	PASS
	MCH	5.37	<13	PASS
	HCH	5.35	<13	PASS
16QAM	LCH	6.18	<13	PASS
	MCH	6.15	<13	PASS
	HCH	6.19	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.4	<13	PASS
	MCH	5.41	<13	PASS
	HCH	5.42	<13	PASS
16QAM	LCH	6.12	<13	PASS
	MCH	6.13	<13	PASS
	HCH	6.14	<13	PASS

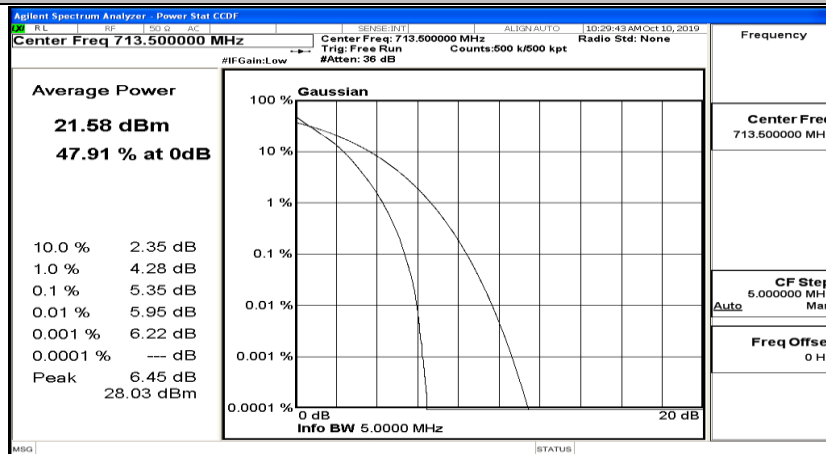
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



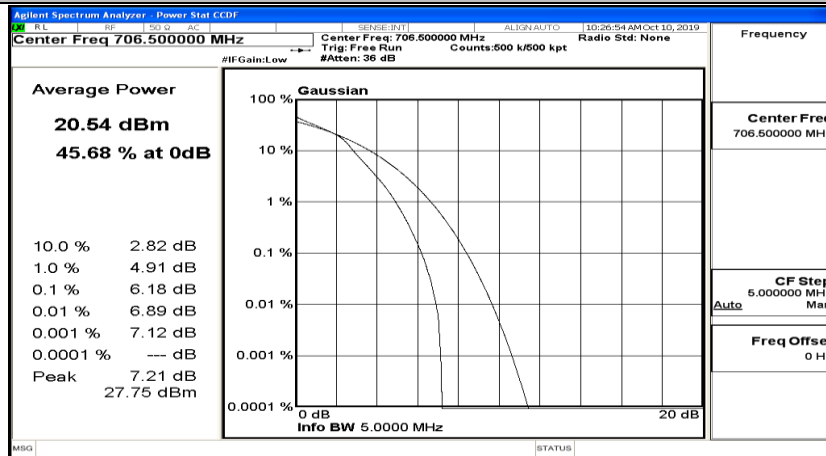
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



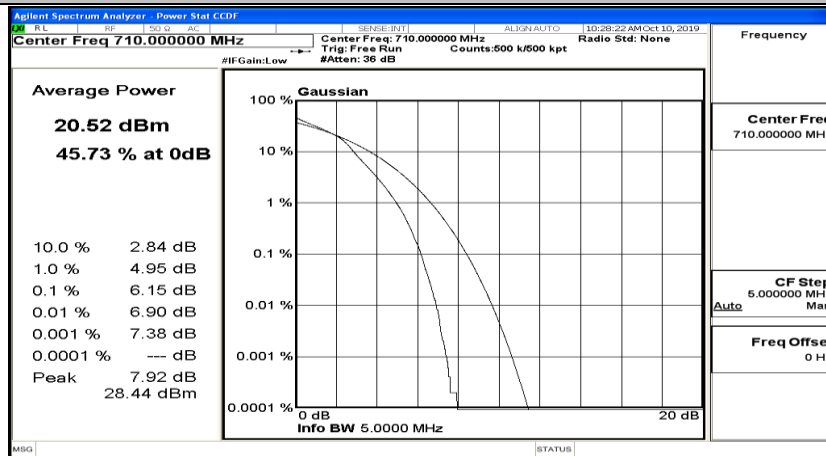
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



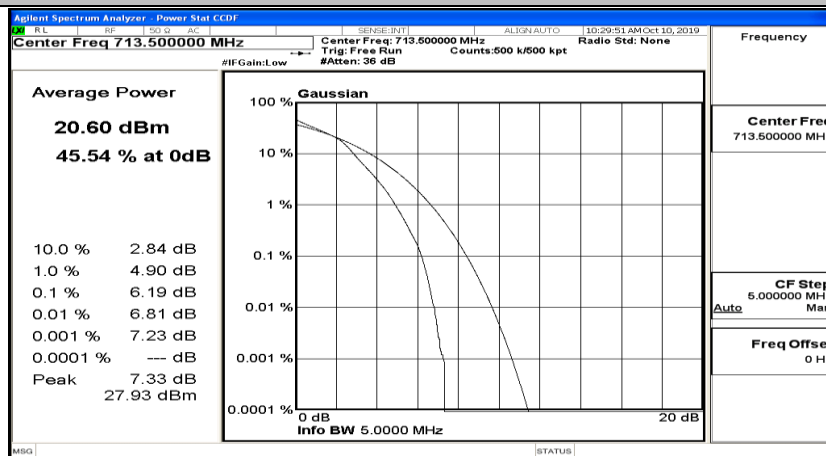
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



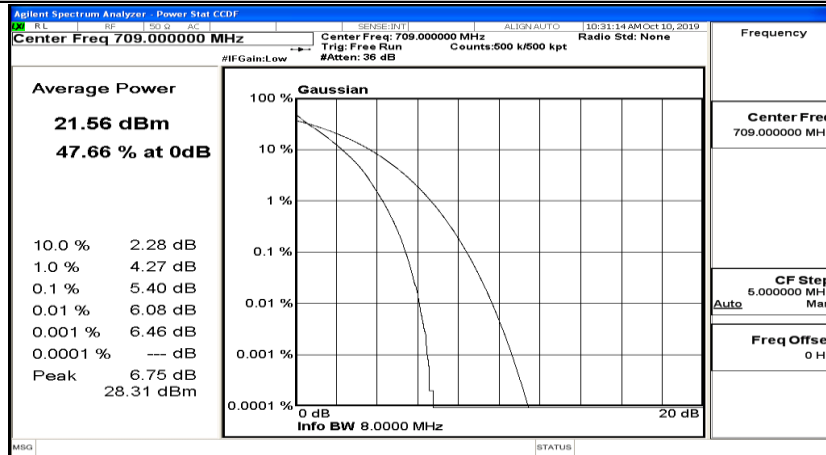
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



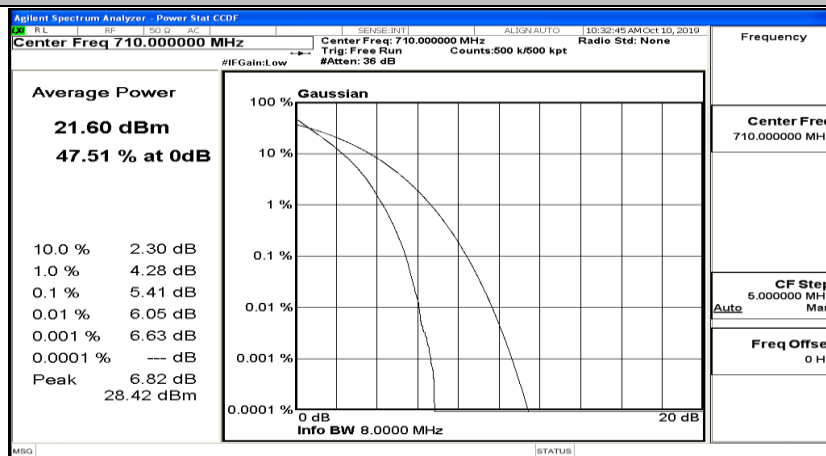
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



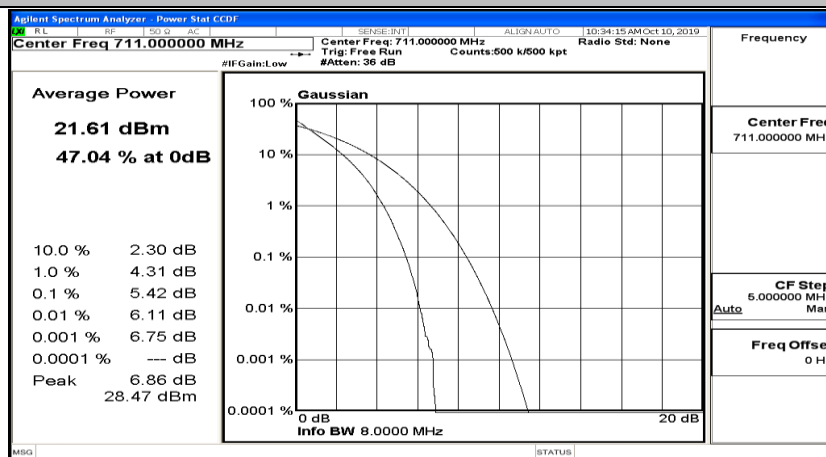
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



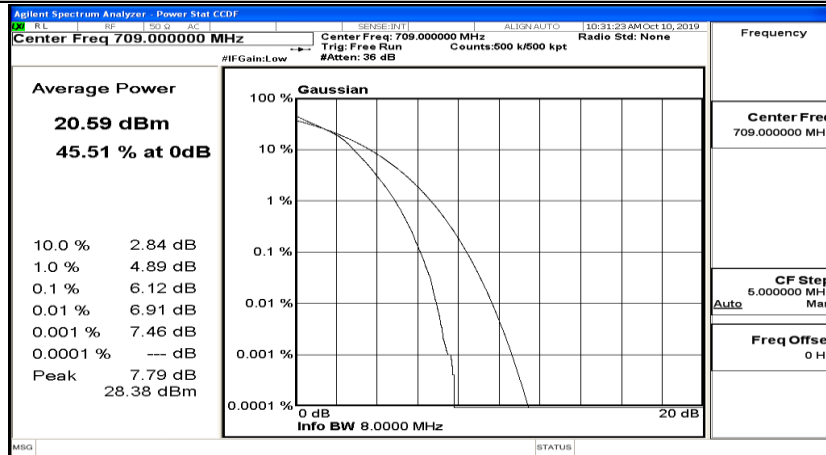
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



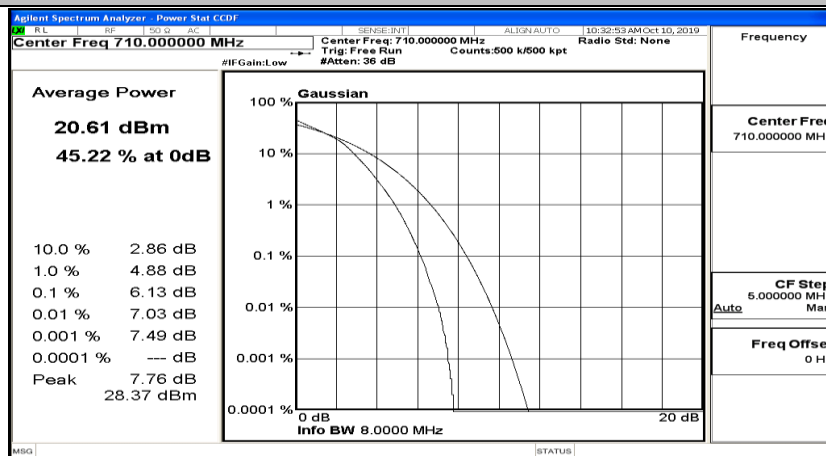
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



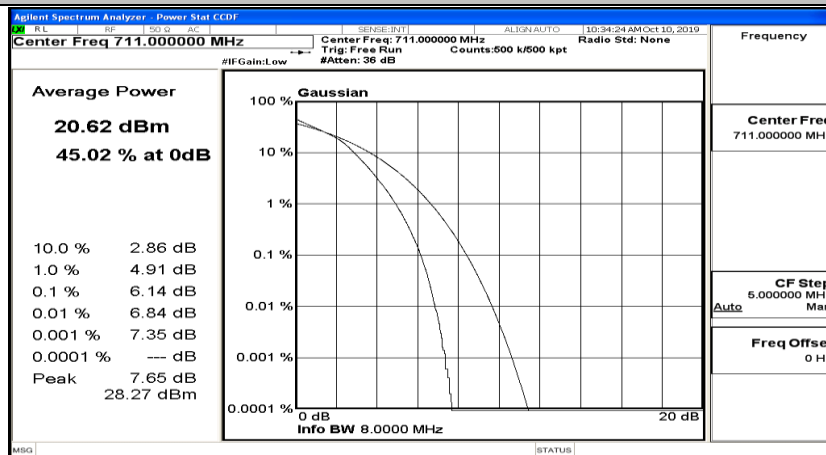
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

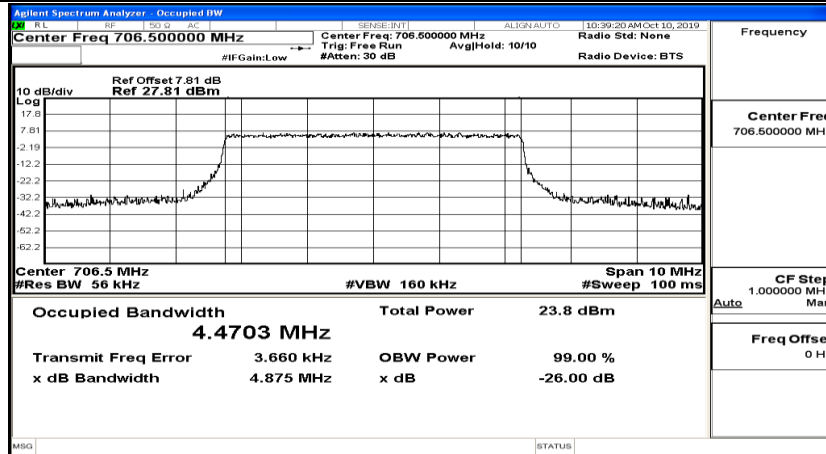


G.3 26dB Bandwidth and Occupied Bandwidth

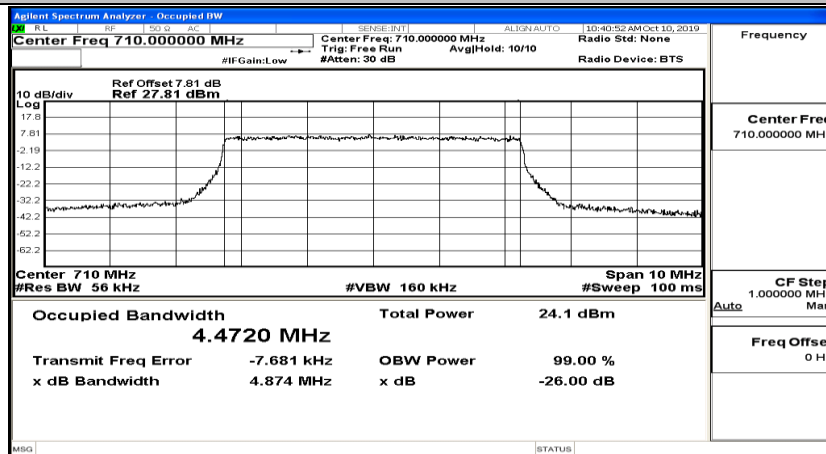
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4703	4.875	PASS
	MCH	4.4720	4.874	PASS
	HCH	4.4885	4.887	PASS
16QAM	LCH	4.4705	4.877	PASS
	MCH	4.4790	4.843	PASS
	HCH	4.4828	4.906	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9459	9.530	PASS
	MCH	8.9373	9.534	PASS
	HCH	8.9362	9.535	PASS
16QAM	LCH	8.9340	9.497	PASS
	MCH	8.9308	9.420	PASS
	HCH	8.9465	9.517	PASS

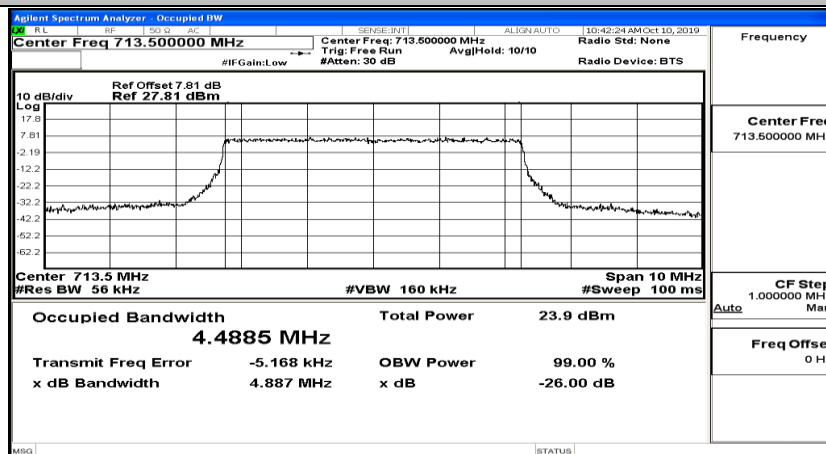
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



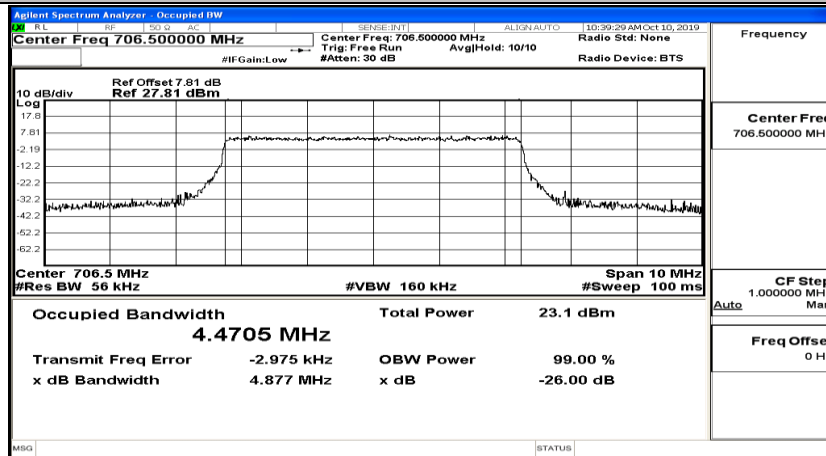
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



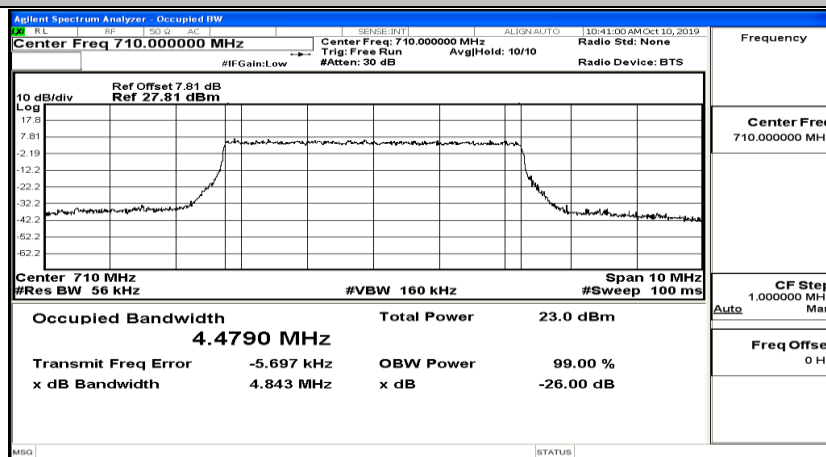
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



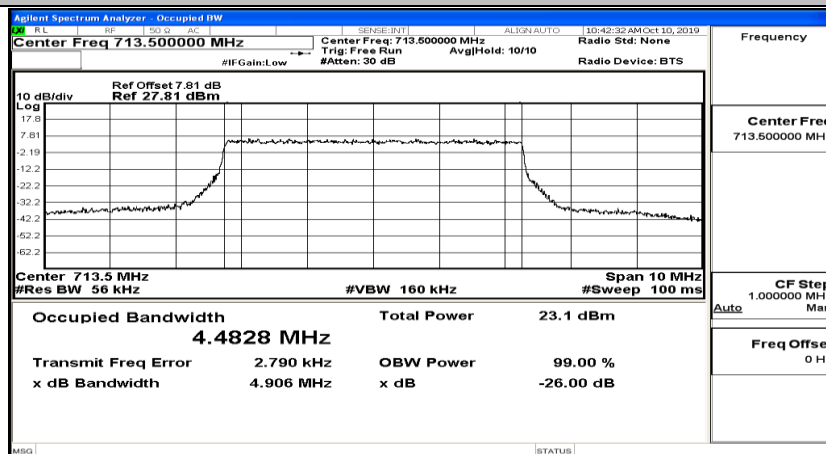
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



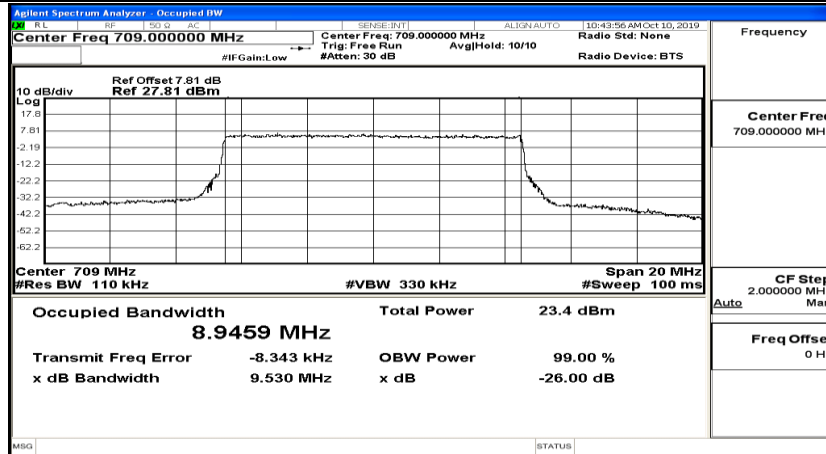
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



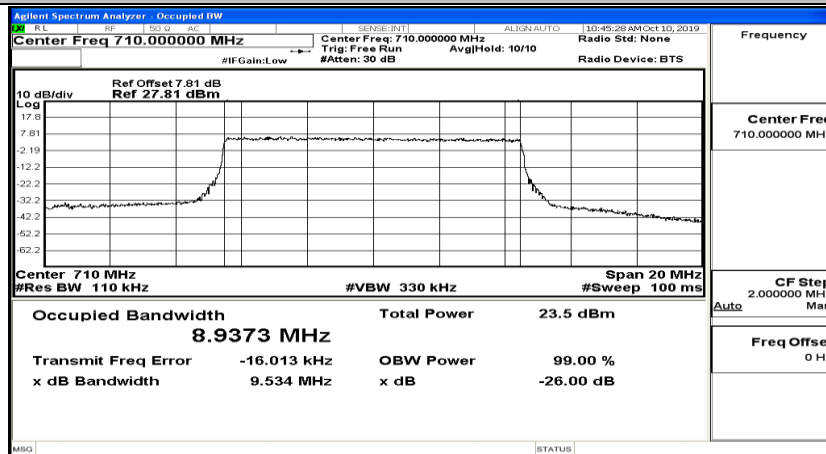
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



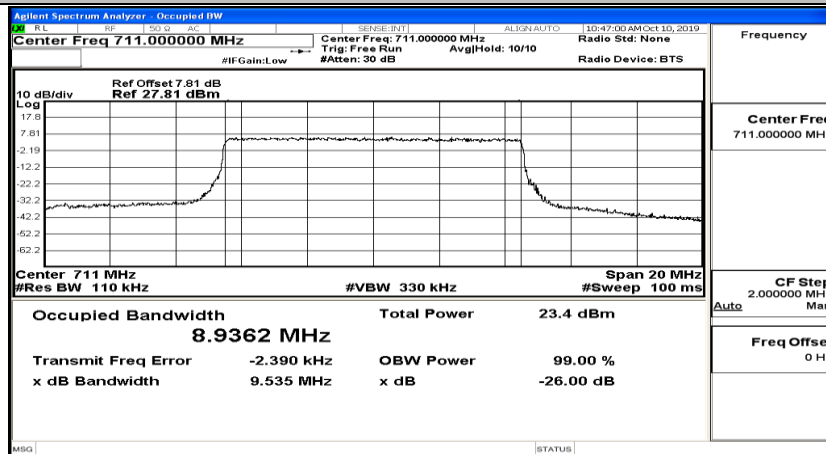
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



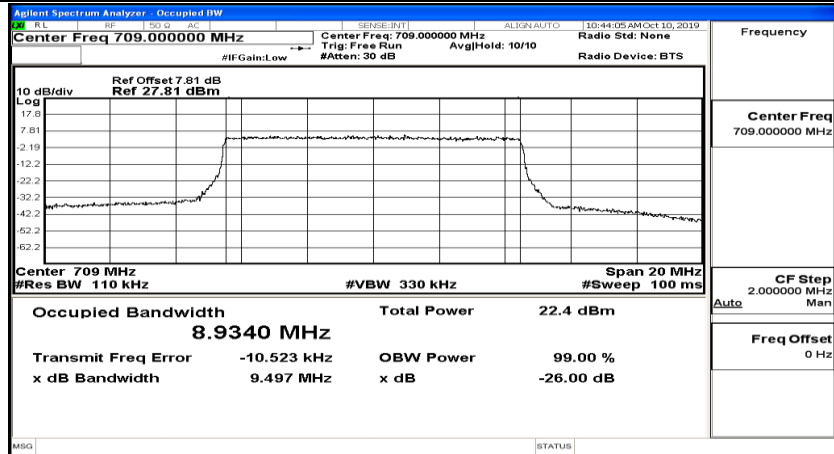
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



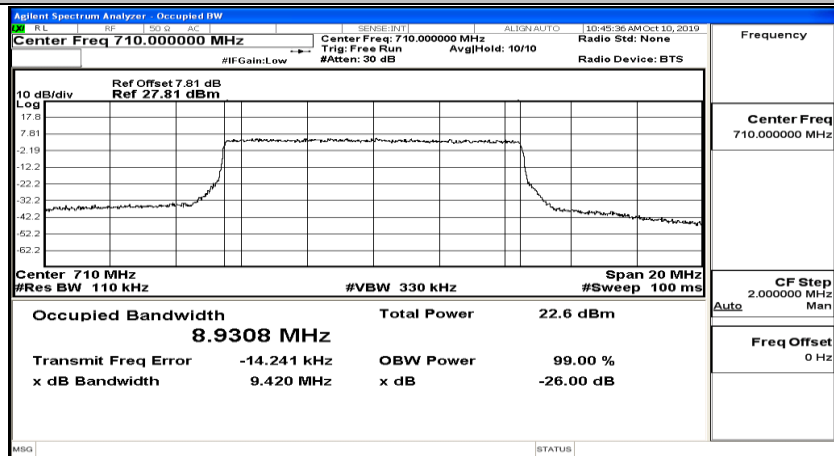
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



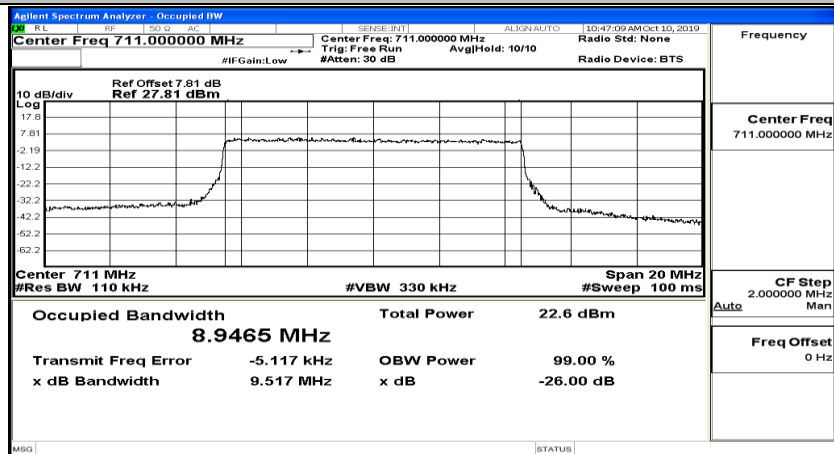
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

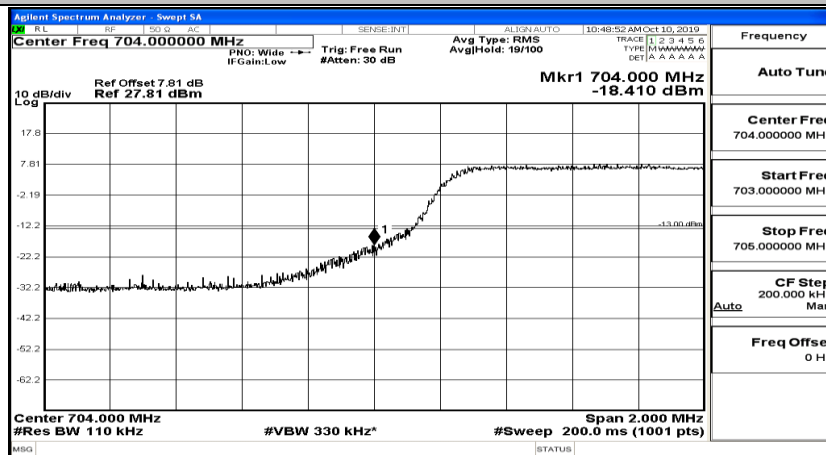


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

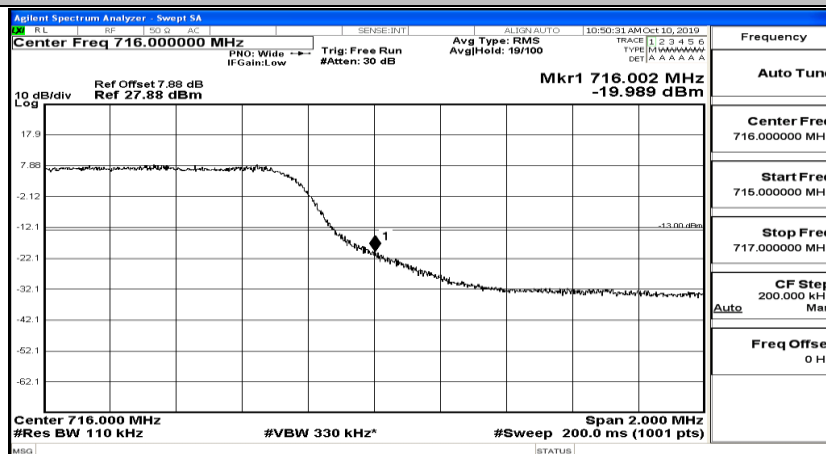


G.4 Band Edge

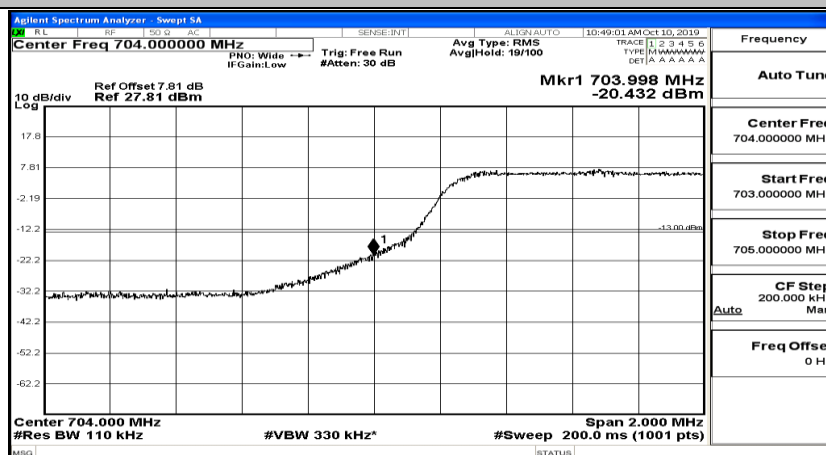
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



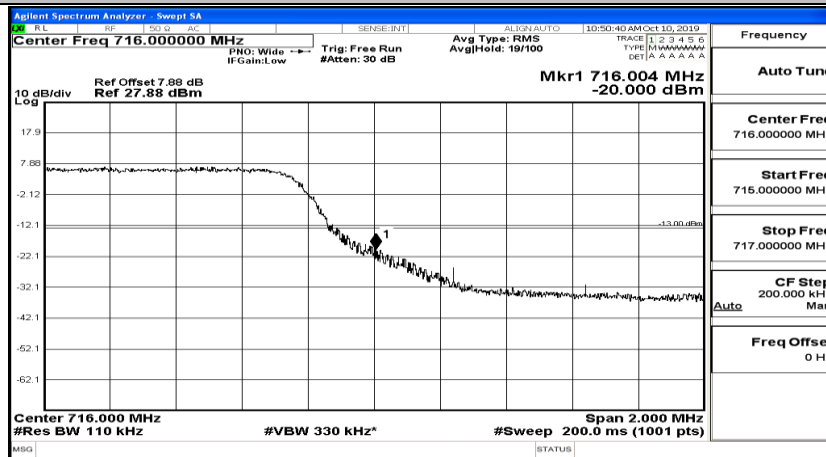
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



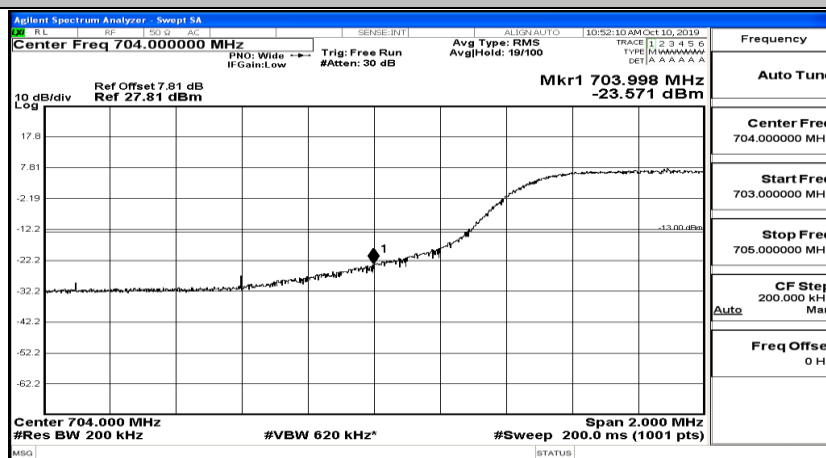
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



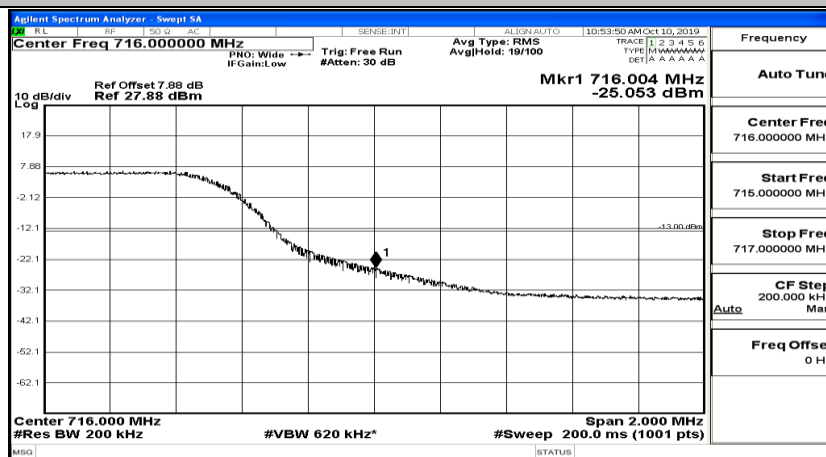
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



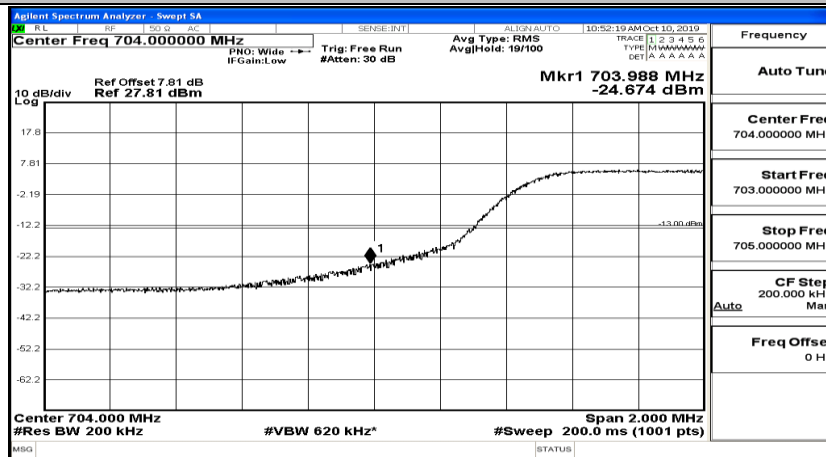
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

