

Appendix F: Test Data for E-UTRA Band 7

Product Name: Smart Phone
Test Model: W55s

Environmental Conditions

Temperature:	24.8
Relative Humidity:	53.2
ATM Pressure:	100.0 kPa
Test Engineer:	Mina Xu
Supervised by:	Jayden Zhuo

F.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.99	22.12	PASS
		1	12	22.81	22.02	PASS
		1	24	22.65	21.79	PASS
		12	0	22.68	21.72	PASS
		12	6	22.86	22.04	PASS
		12	13	22.73	21.66	PASS
		25	0	23.12	21.88	PASS
	MCH	1	0	22.91	21.68	PASS
		1	12	23.09	21.94	PASS
		1	24	22.68	21.91	PASS
		12	0	22.60	21.79	PASS
		12	6	22.38	21.76	PASS
		12	13	22.88	21.87	PASS
		25	0	22.85	21.83	PASS
	HCH	1	0	22.70	21.77	PASS
		1	12	22.51	21.59	PASS
		1	24	22.33	21.51	PASS
		12	0	22.36	21.57	PASS
		12	6	22.66	21.65	PASS
		12	13	22.45	21.61	PASS
		25	0	22.92	21.69	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	23.38	22.40	PASS
		1	24	22.80	21.84	PASS
		1	49	23.27	22.43	PASS
		25	0	23.06	21.90	PASS
		25	12	23.24	22.05	PASS
		25	25	22.73	21.85	PASS
		50	0	23.19	22.10	PASS
	MCH	1	0	23.16	21.90	PASS
		1	24	23.10	22.21	PASS
		1	49	23.33	22.39	PASS
		25	0	23.03	21.96	PASS
		25	12	23.17	22.24	PASS
		25	25	22.90	21.93	PASS
		50	0	23.30	22.49	PASS
	HCH	1	0	23.25	22.48	PASS
		1	24	23.04	22.05	PASS
		1	49	23.13	22.18	PASS
		25	0	23.00	21.94	PASS
		25	12	23.07	22.03	PASS
		25	25	23.26	22.62	PASS
		50	0	22.69	21.88	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.36	21.49	PASS
		1	37	22.84	21.61	PASS
		1	74	22.85	21.74	PASS
		37	0	22.44	21.49	PASS
		37	18	22.59	21.63	PASS
		37	38	22.74	21.73	PASS
		75	0	22.84	21.88	PASS
	MCH	1	0	22.90	21.98	PASS
		1	37	22.61	21.73	PASS
		1	74	22.18	21.36	PASS
		37	0	22.73	21.62	PASS
		37	18	22.48	21.56	PASS
		37	38	22.37	21.55	PASS
		75	0	22.45	21.55	PASS
	HCH	1	0	22.82	21.70	PASS
		1	37	22.54	21.61	PASS
		1	74	22.24	21.49	PASS
		37	0	22.22	21.46	PASS
		37	18	22.99	21.72	PASS
		37	38	22.39	21.50	PASS
		75	0	22.12	21.37	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm] QPSK	Average Power [dBm] 16QAM	Verdict
		Size	Offset			
QPSK / 16QAM	LCH	1	0	22.86	21.79	PASS
		1	49	22.92	21.72	PASS
		1	99	22.75	21.64	PASS
		50	0	23.06	21.74	PASS
		50	25	22.96	21.85	PASS
		50	50	22.35	21.56	PASS
		100	0	22.47	21.55	PASS
	MCH	1	0	22.80	21.67	PASS
		1	49	22.85	21.70	PASS
		1	99	22.96	21.96	PASS
		50	0	22.46	21.55	PASS
		50	25	22.41	21.55	PASS
		50	50	22.98	21.65	PASS
		100	0	22.88	22.00	PASS
	HCH	1	0	23.08	22.13	PASS
		1	49	22.81	21.75	PASS
		1	99	22.82	21.70	PASS
		50	0	22.80	21.65	PASS
		50	25	22.79	20.81	PASS
		50	50	22.30	21.61	PASS
		100	0	22.47	21.67	PASS

F.2 Peak-to-Average Ratio

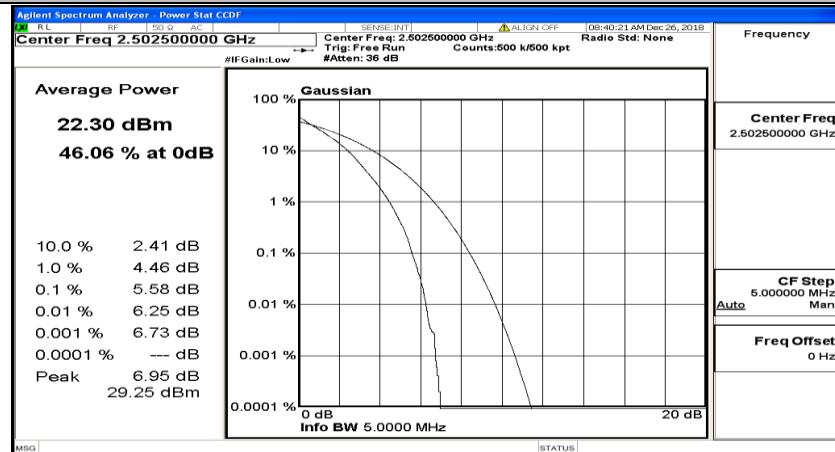
Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.58	<13	PASS
	MCH	5.79	<13	PASS
	HCH	5.72	<13	PASS
16QAM	LCH	6.39	<13	PASS
	MCH	6.54	<13	PASS
	HCH	6.57	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.59	<13	PASS
	MCH	5.78	<13	PASS
	HCH	5.73	<13	PASS
16QAM	LCH	6.3	<13	PASS
	MCH	6.43	<13	PASS
	HCH	6.44	<13	PASS

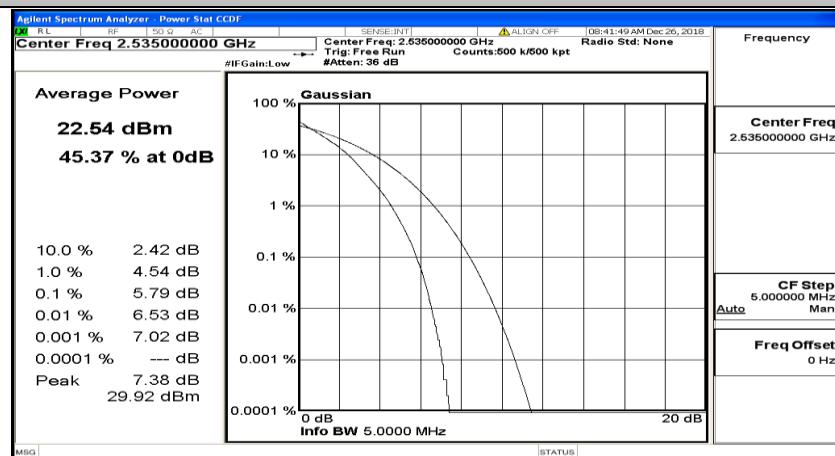
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.99	<13	PASS
	MCH	5.07	<13	PASS
	HCH	4.97	<13	PASS
16QAM	LCH	6.24	<13	PASS
	MCH	6.35	<13	PASS
	HCH	6.26	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.69	<13	PASS
	MCH	5.73	<13	PASS
	HCH	5.7	<13	PASS
16QAM	LCH	6.74	<13	PASS
	MCH	6.82	<13	PASS
	HCH	6.67	<13	PASS

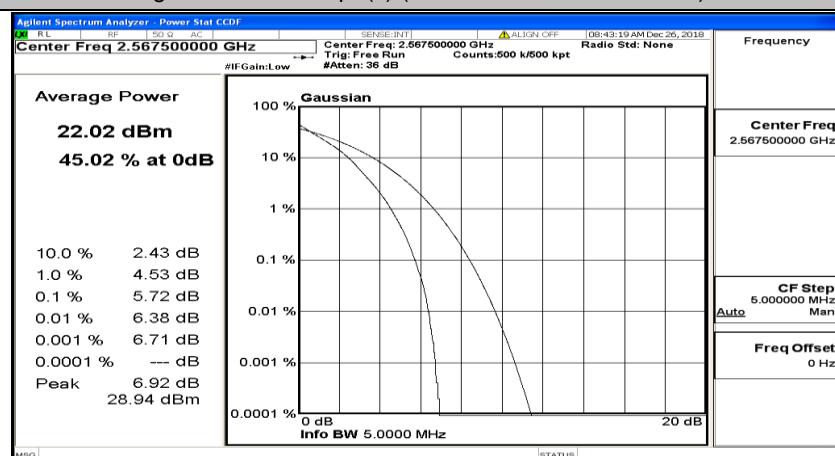
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



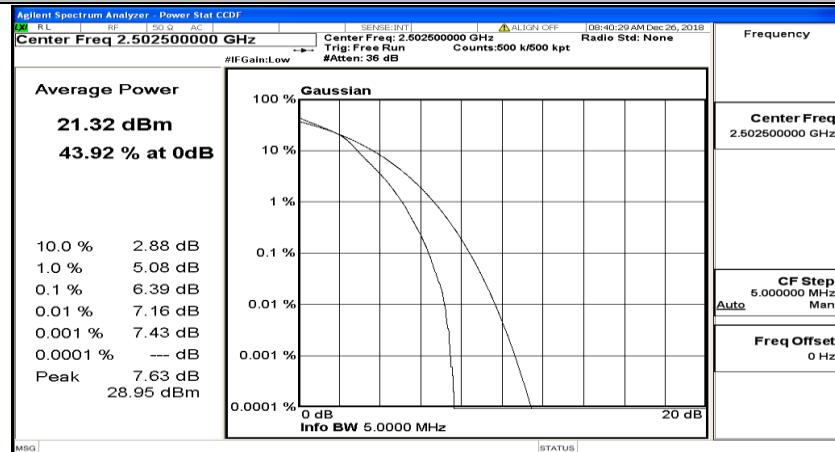
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



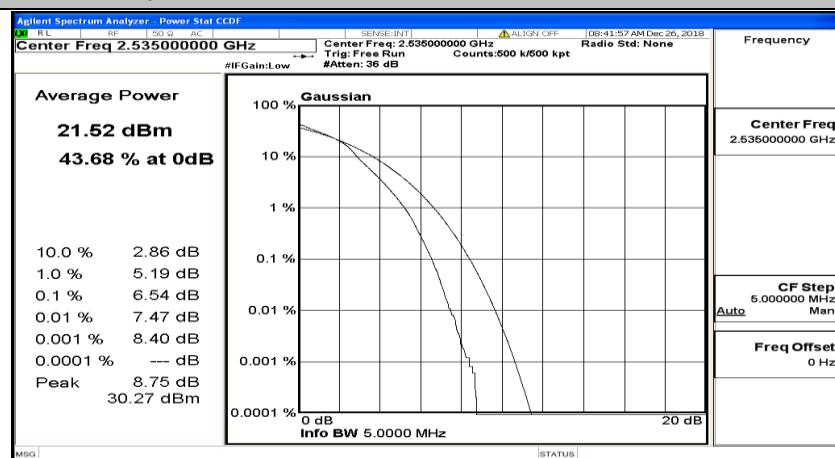
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



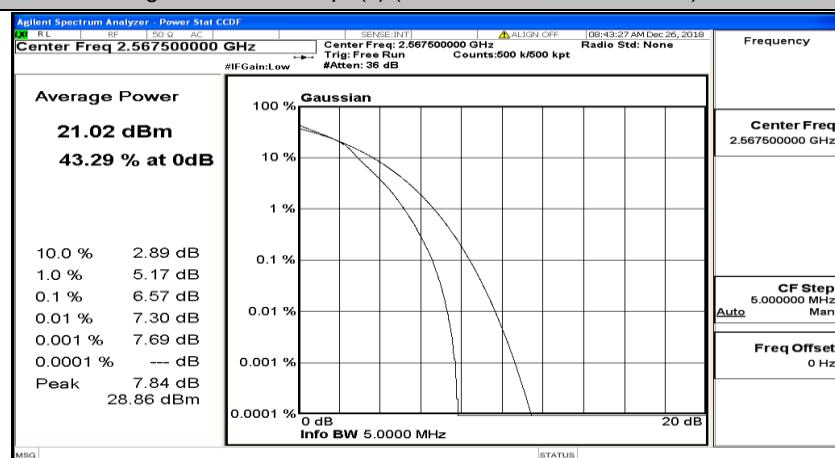
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



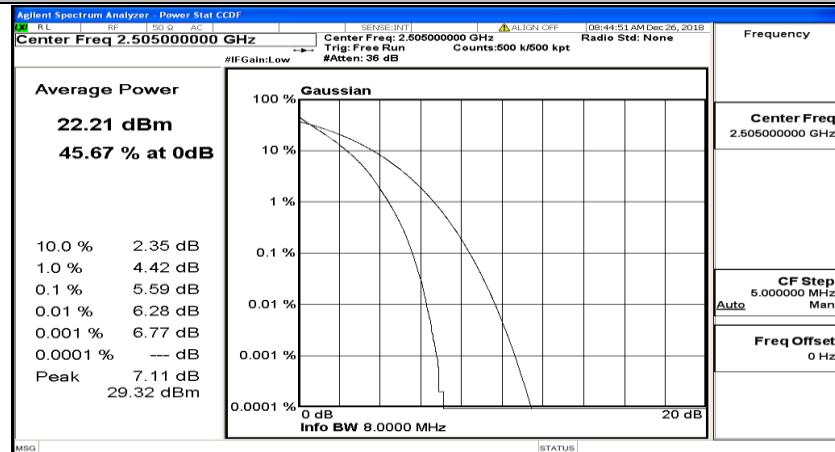
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



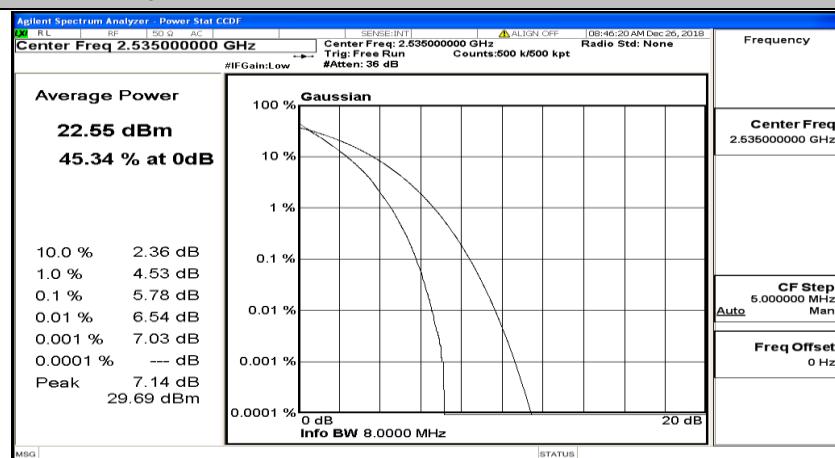
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



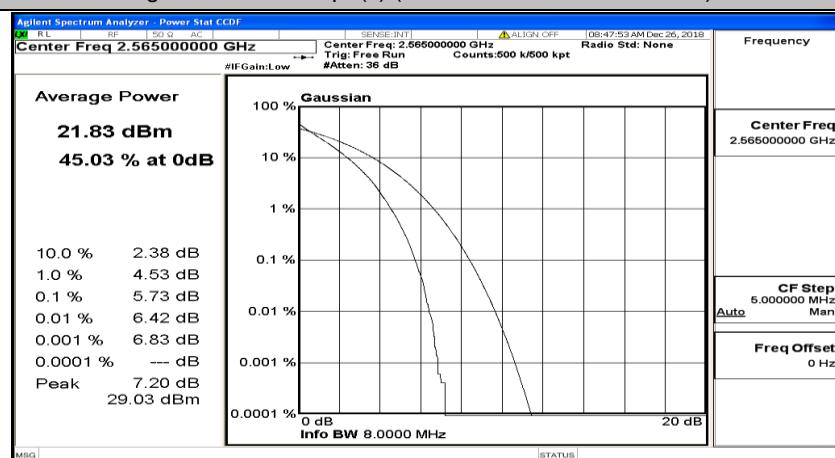
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



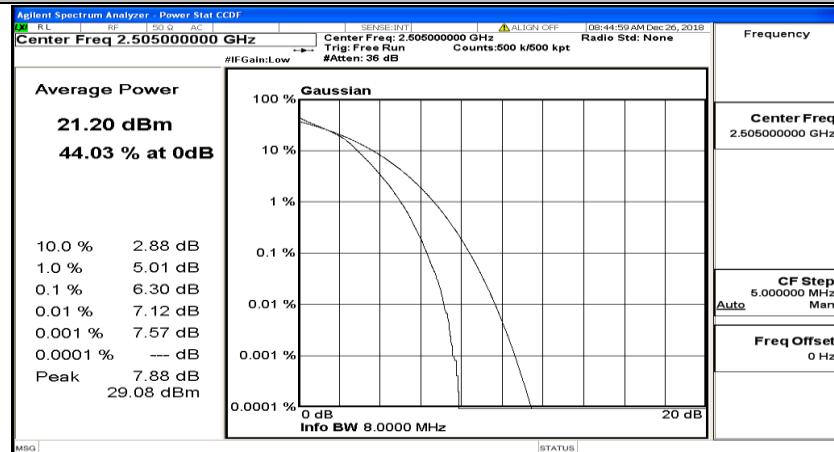
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



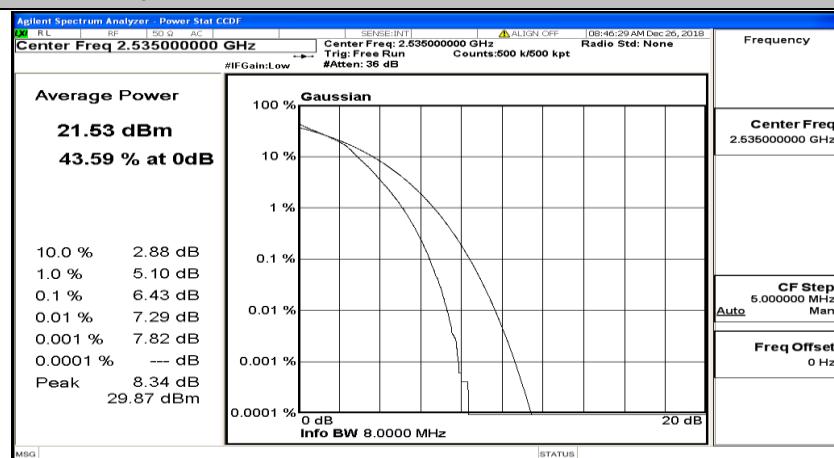
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



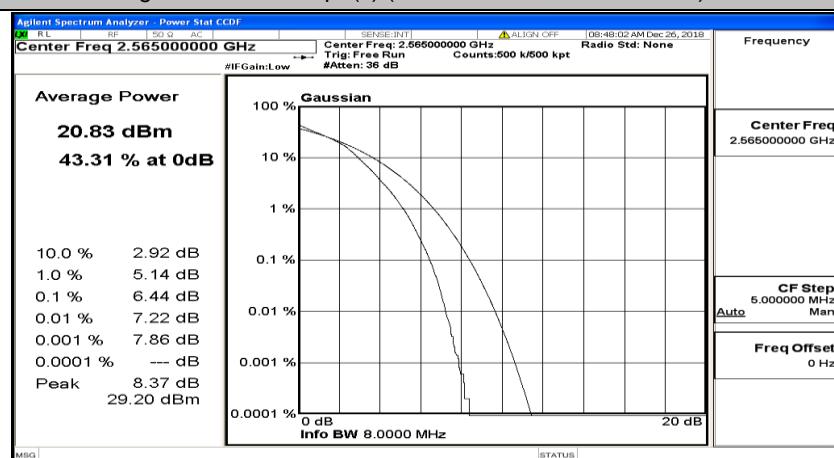
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



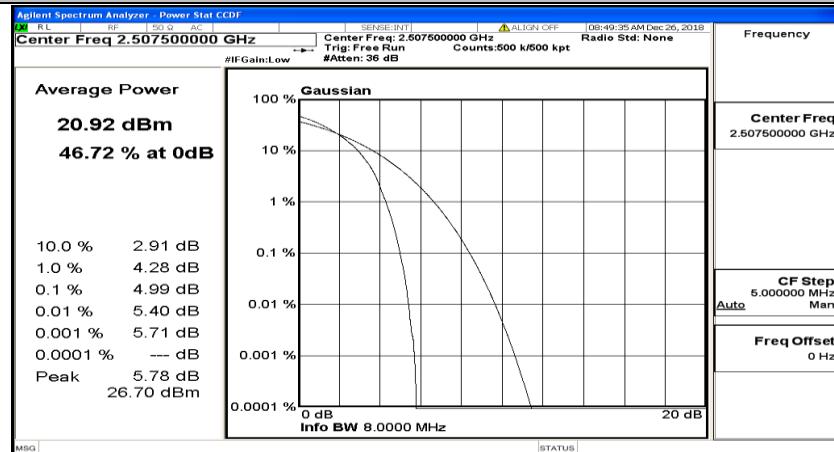
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



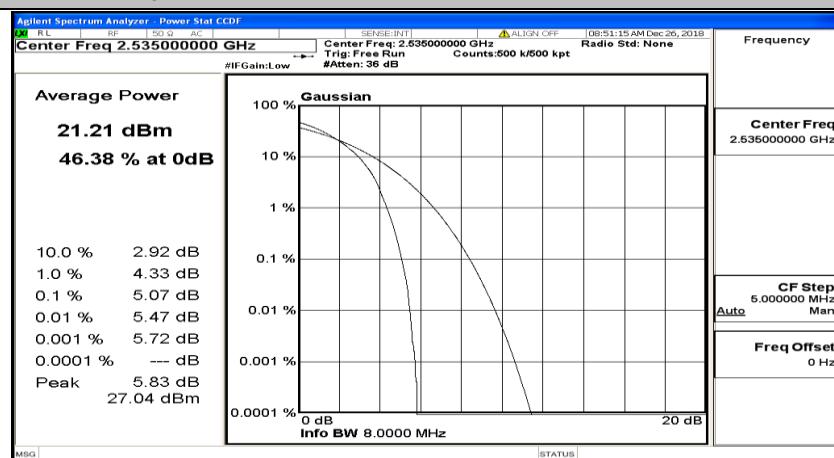
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



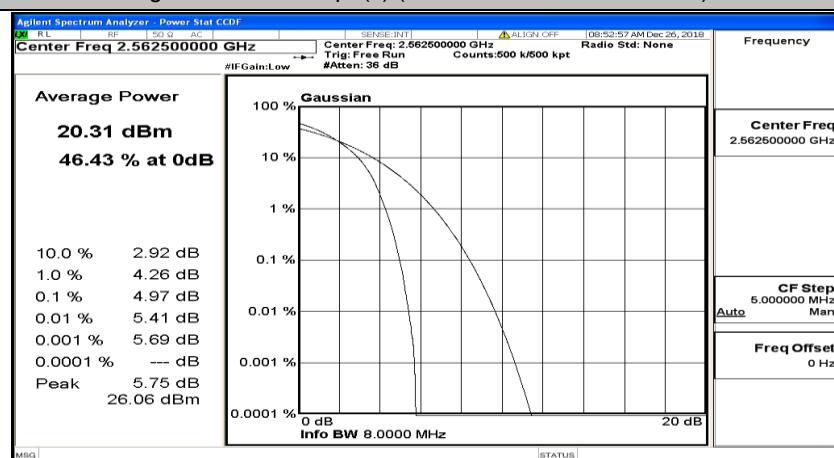
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



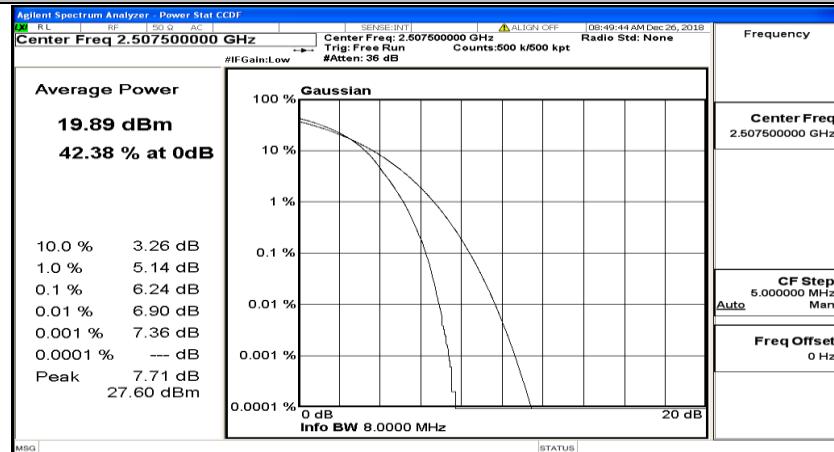
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



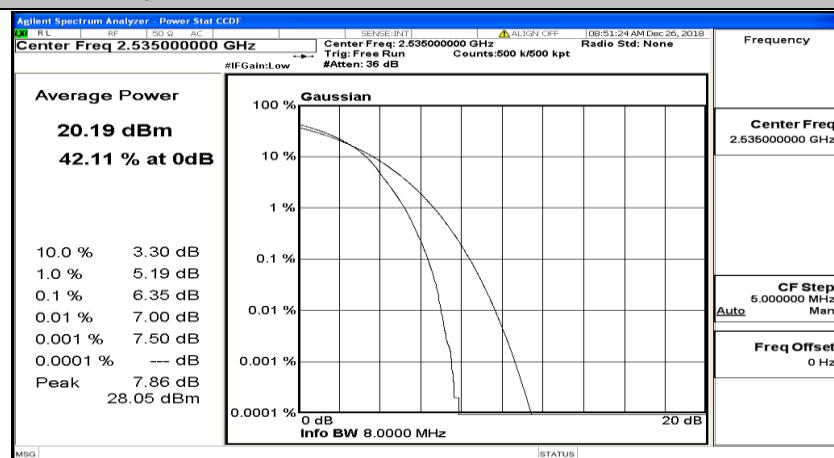
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



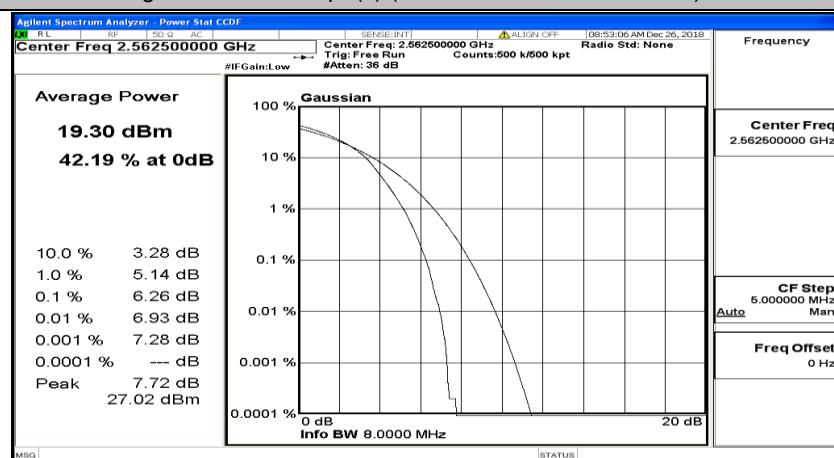
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



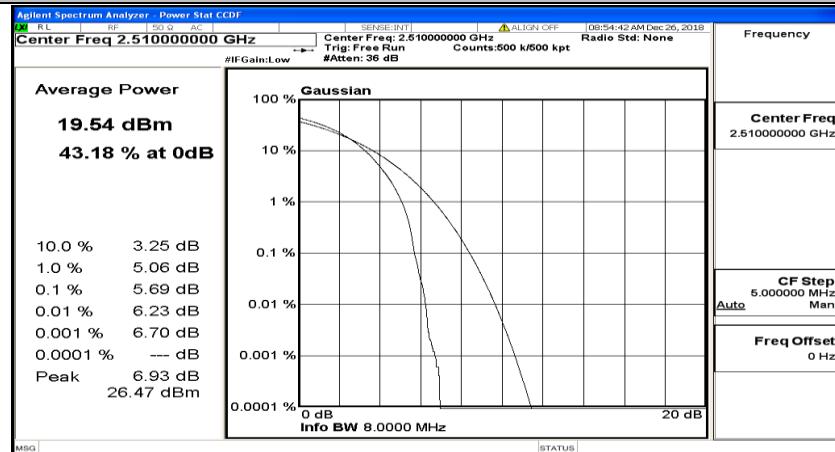
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



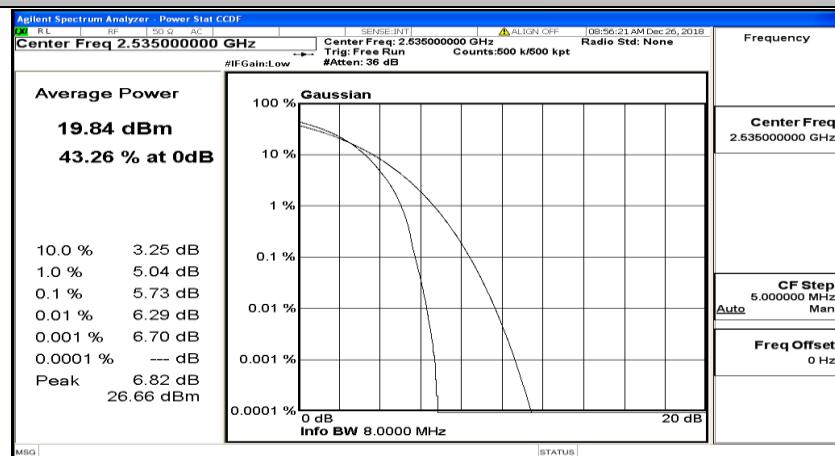
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



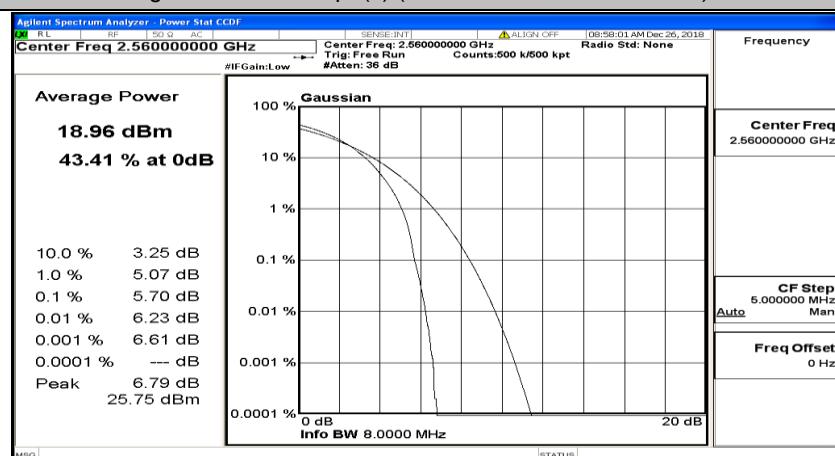
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



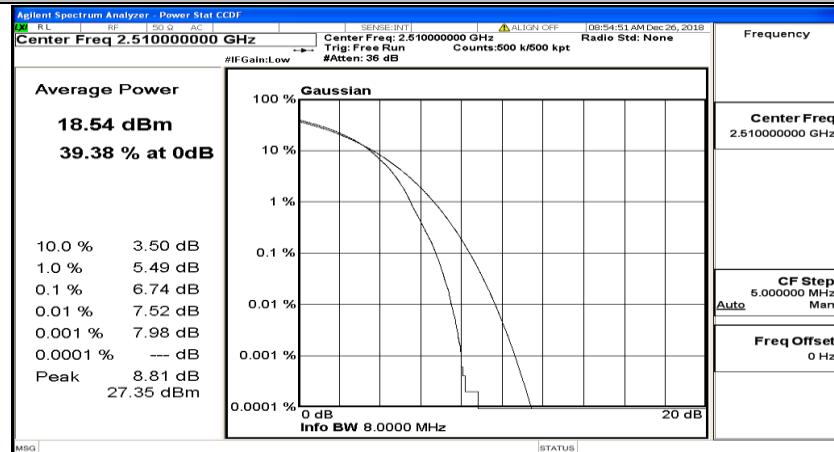
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



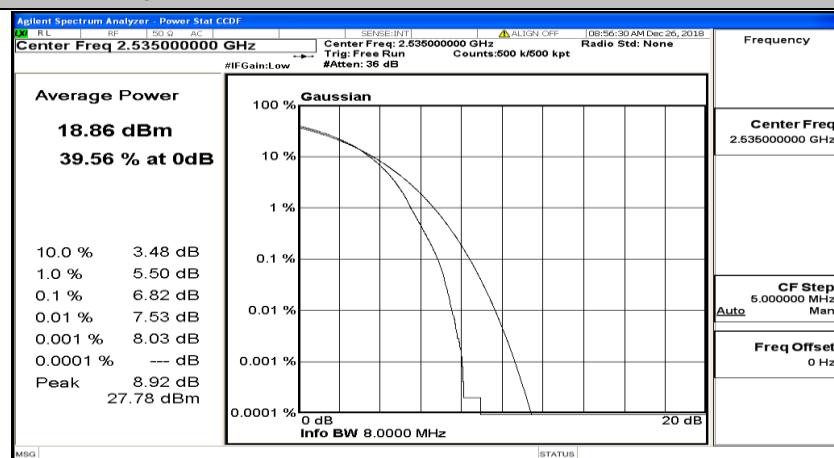
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



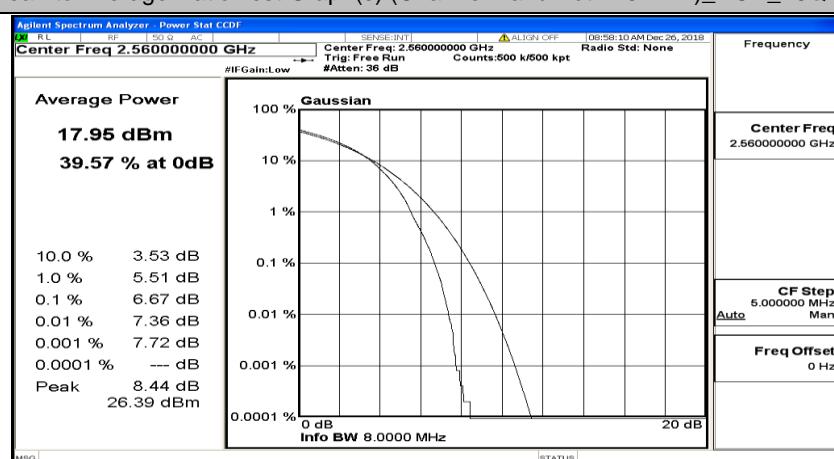
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



F.3 26dB Bandwidth and Occupied Bandwidth

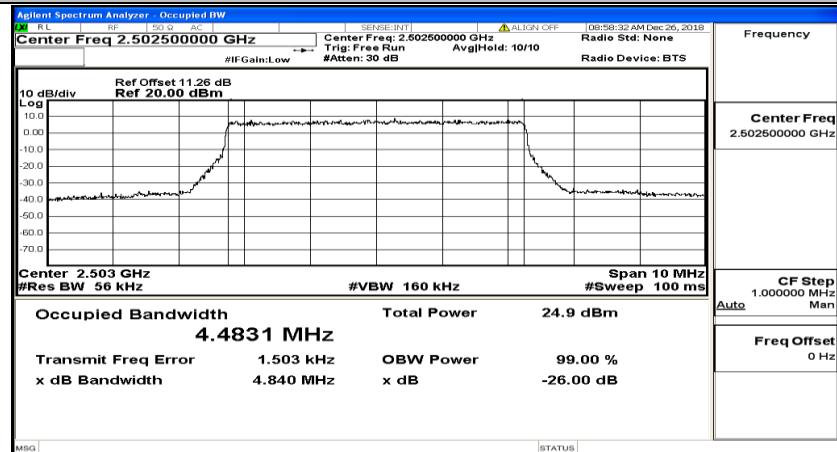
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4831	4.840	PASS
	MCH	4.4819	4.877	PASS
	HCH	4.4920	4.880	PASS
16QAM	LCH	4.4737	4.882	PASS
	MCH	4.4806	4.861	PASS
	HCH	4.4768	4.840	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9393	9.593	PASS
	MCH	8.9461	9.555	PASS
	HCH	8.9352	9.462	PASS
16QAM	LCH	8.9365	9.462	PASS
	MCH	8.9459	9.619	PASS
	HCH	8.9454	9.482	PASS

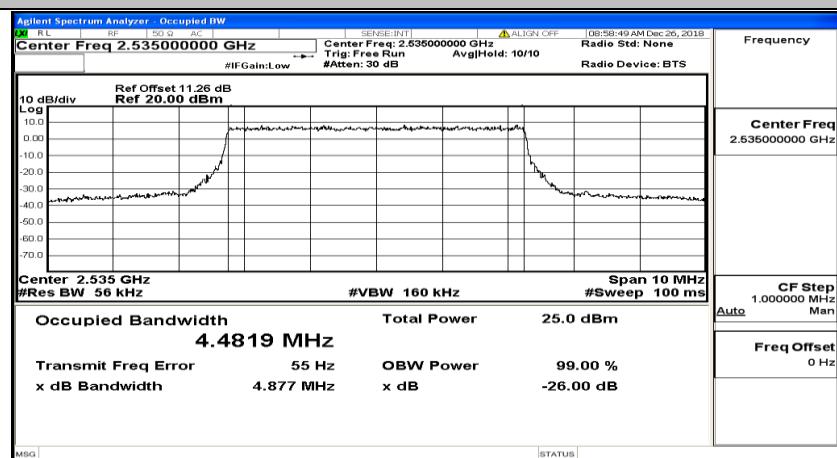
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.379	14.12	PASS
	MCH	13.423	14.20	PASS
	HCH	13.400	14.03	PASS
16QAM	LCH	13.394	14.11	PASS
	MCH	13.422	14.15	PASS
	HCH	13.402	14.09	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.841	18.65	PASS
	MCH	17.874	18.70	PASS
	HCH	17.869	18.57	PASS
16QAM	LCH	17.853	18.62	PASS
	MCH	17.883	18.66	PASS
	HCH	17.832	18.70	PASS

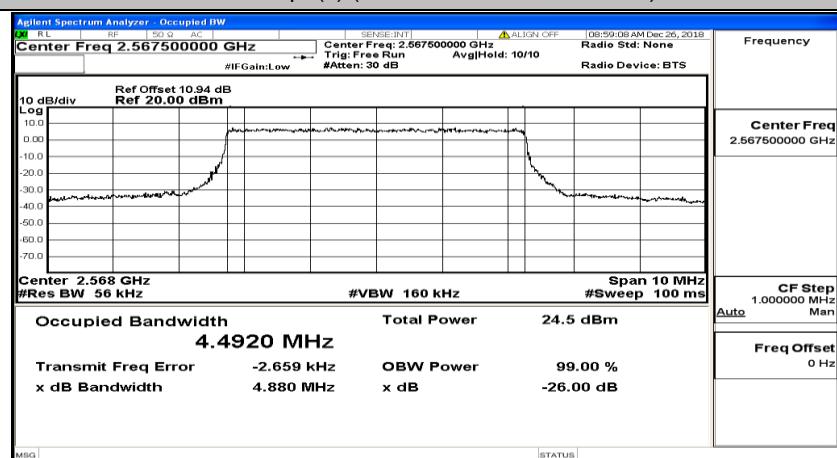
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



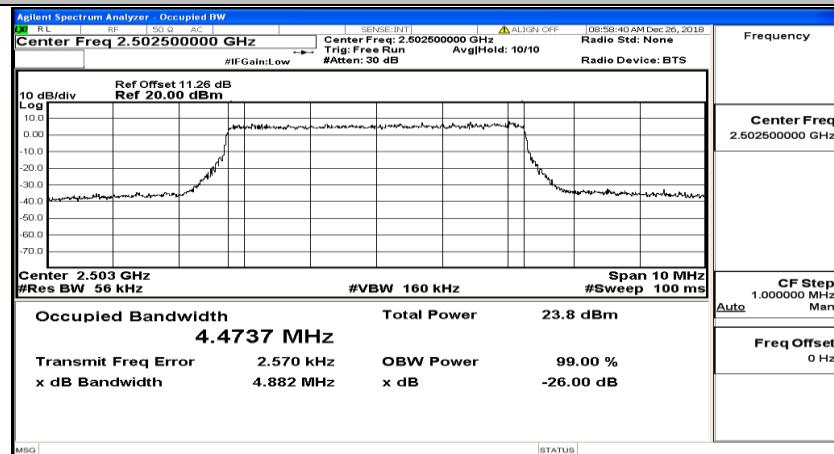
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



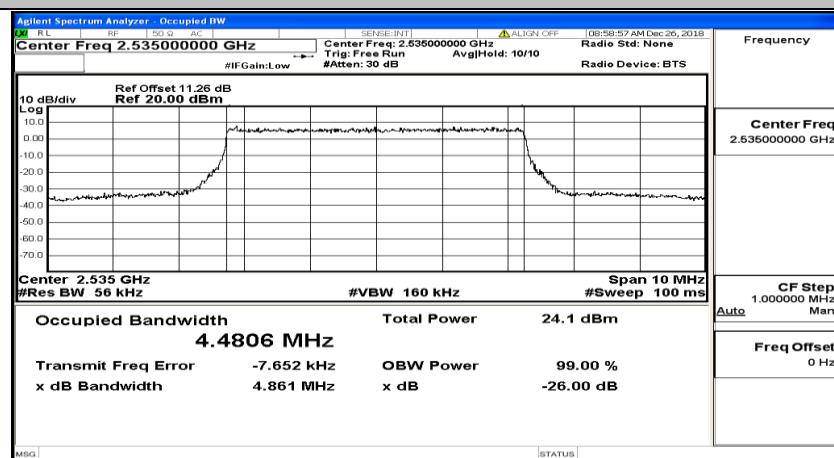
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



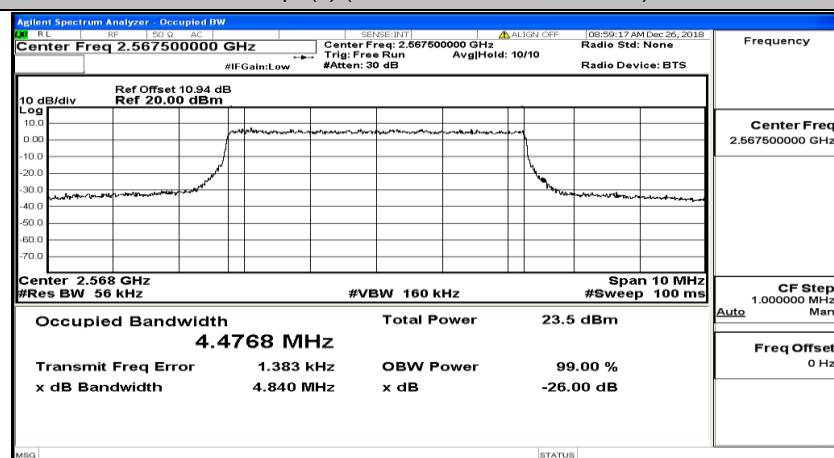
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



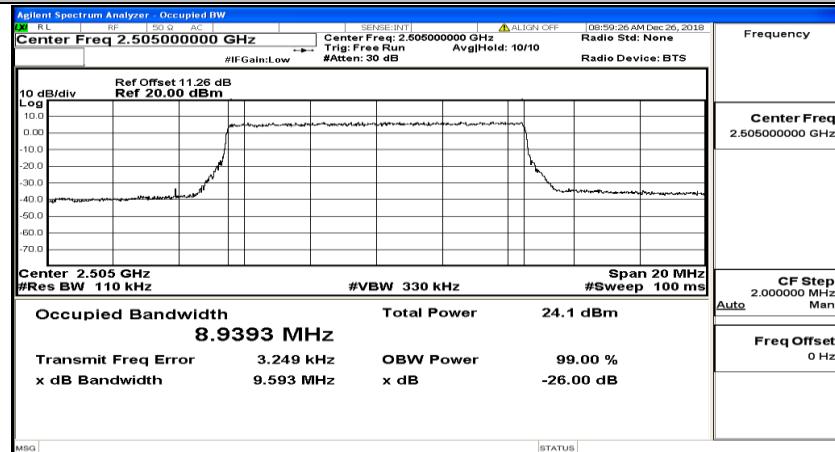
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



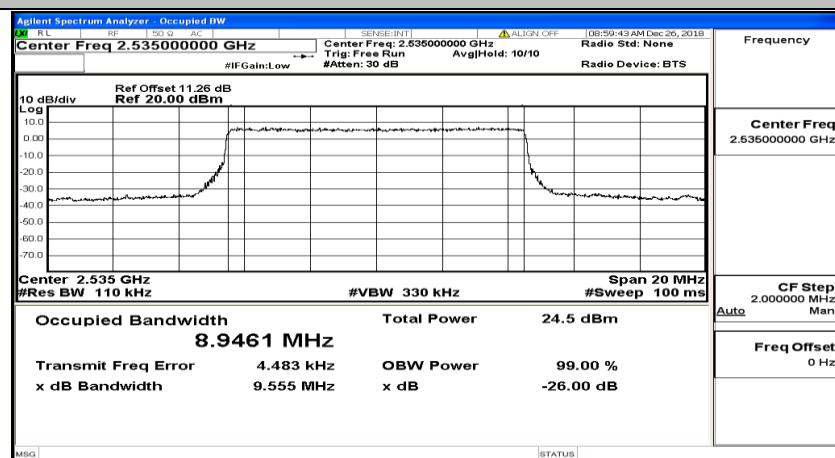
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



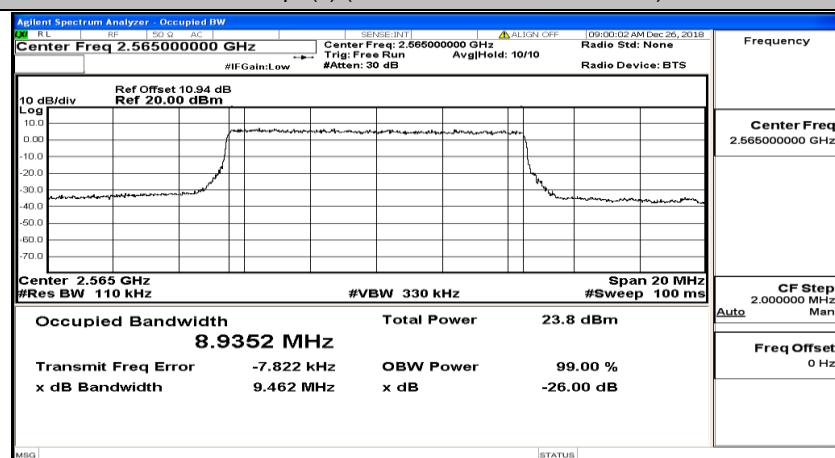
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



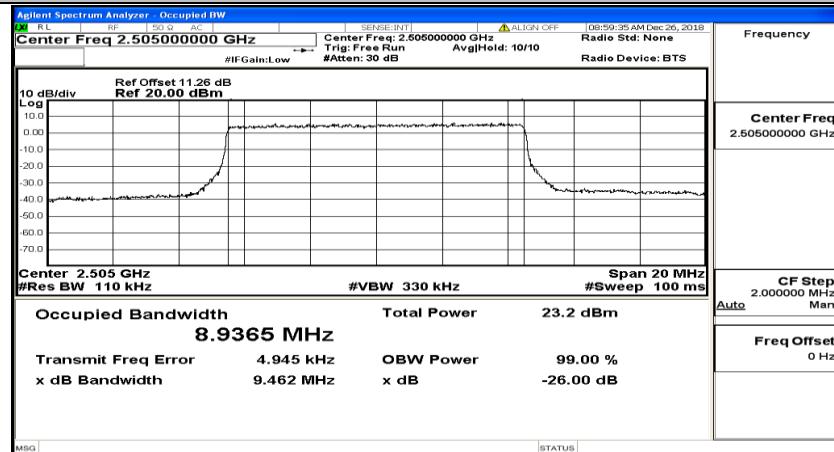
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



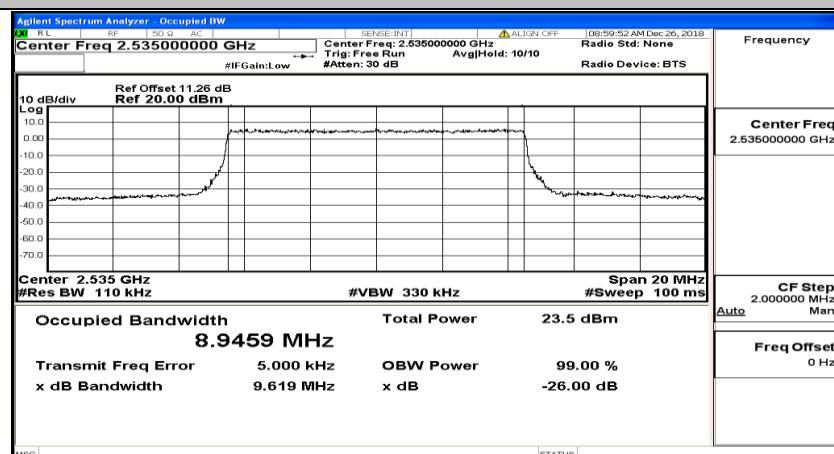
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



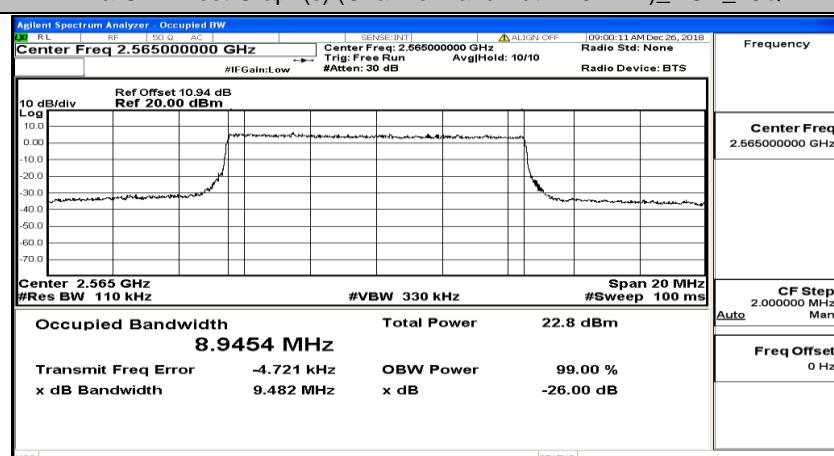
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



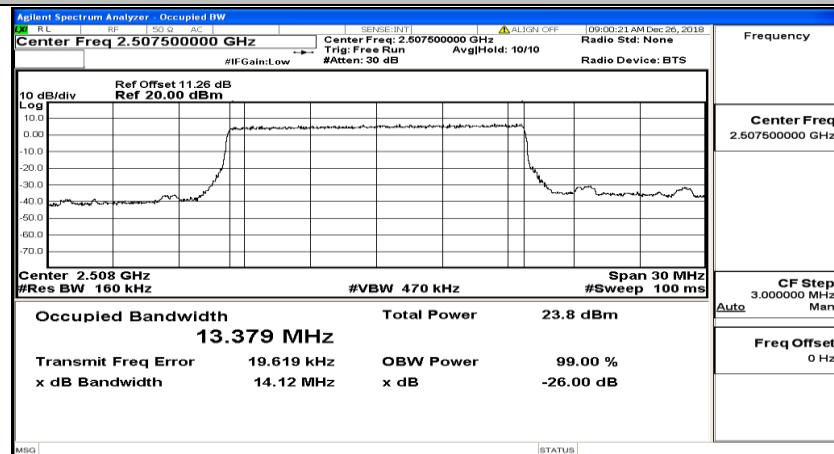
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



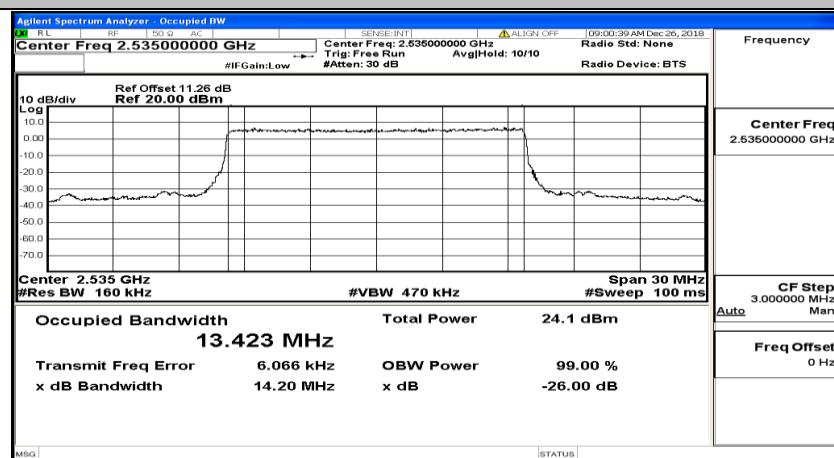
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



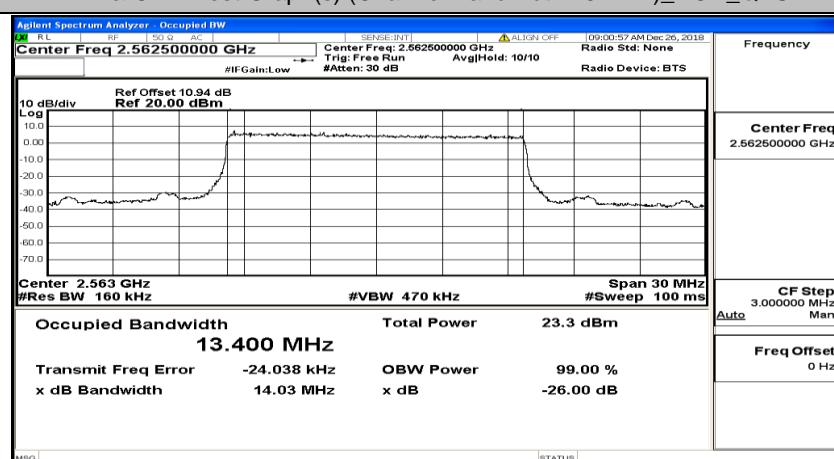
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



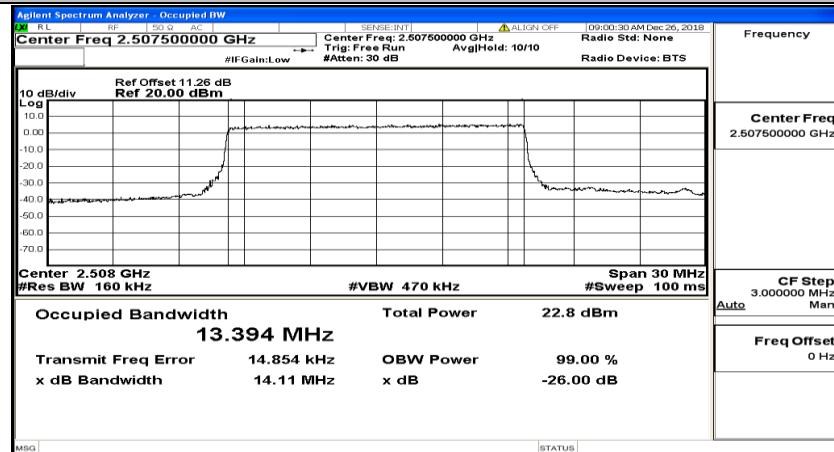
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



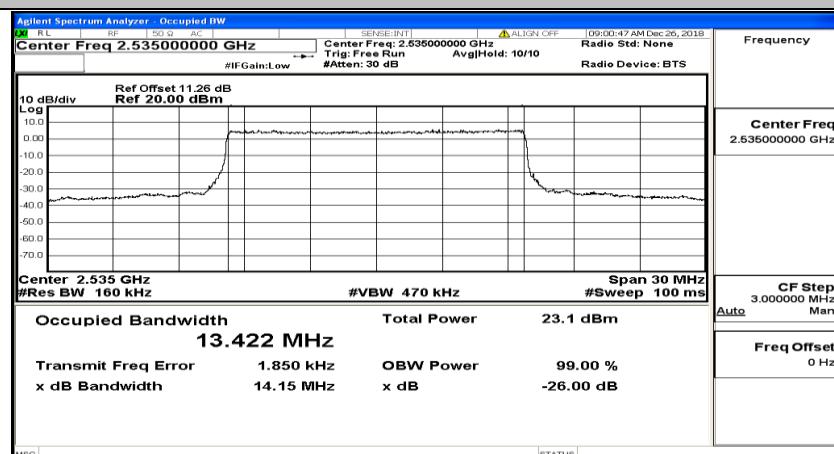
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



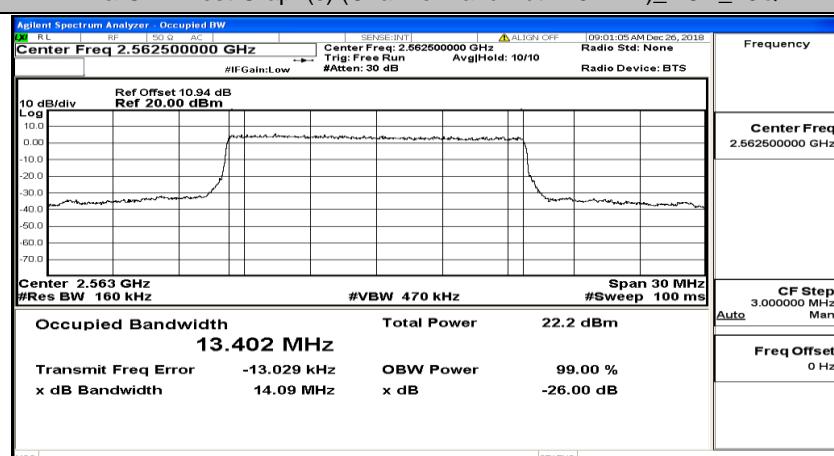
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



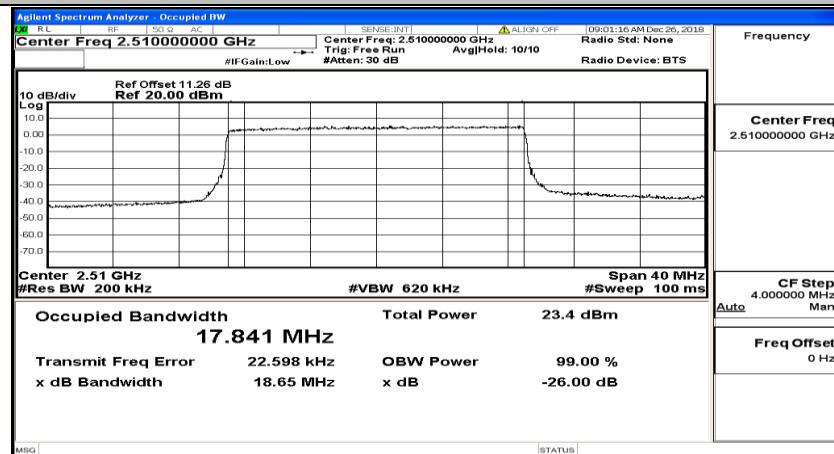
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



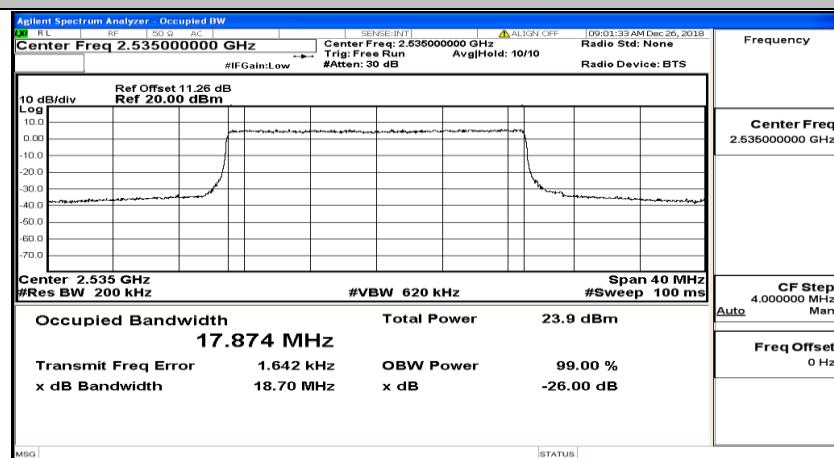
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



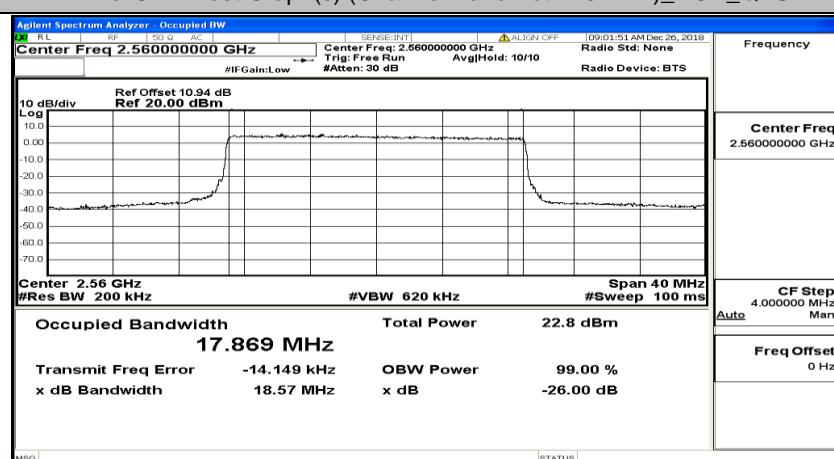
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



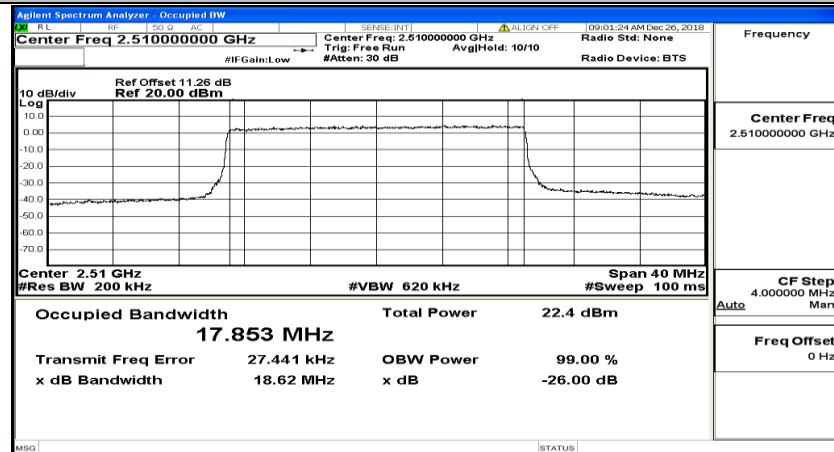
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



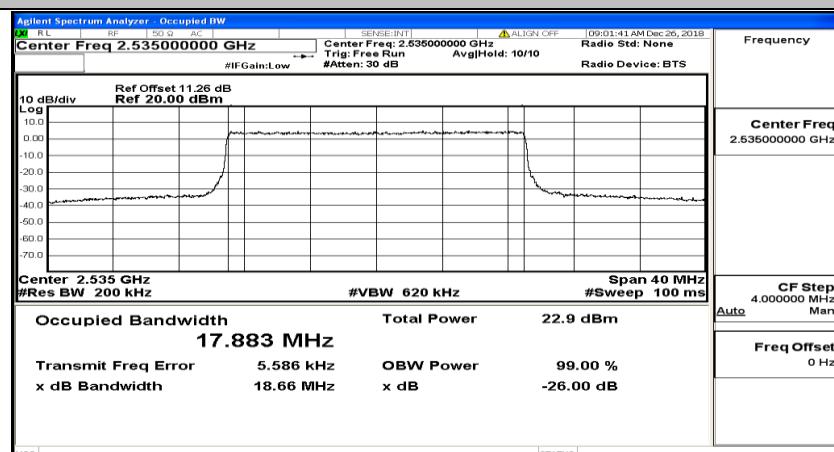
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



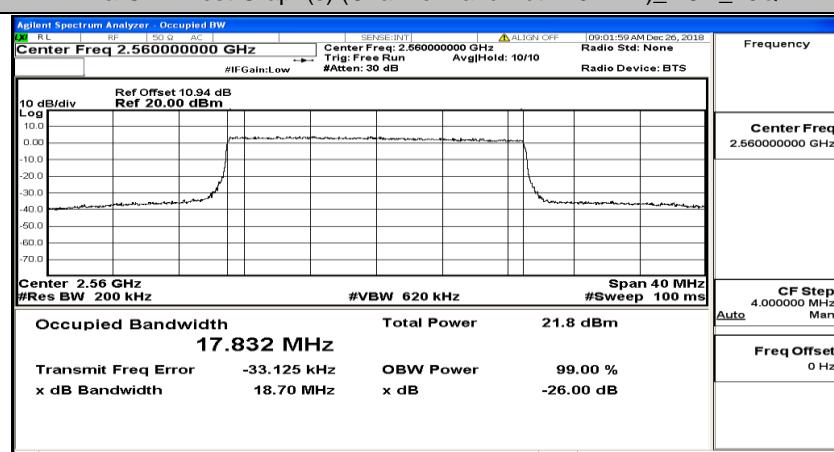
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_16QAM

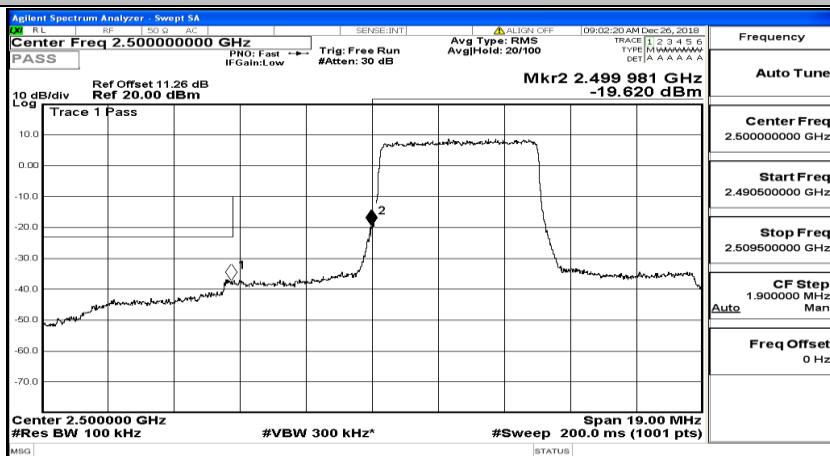


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

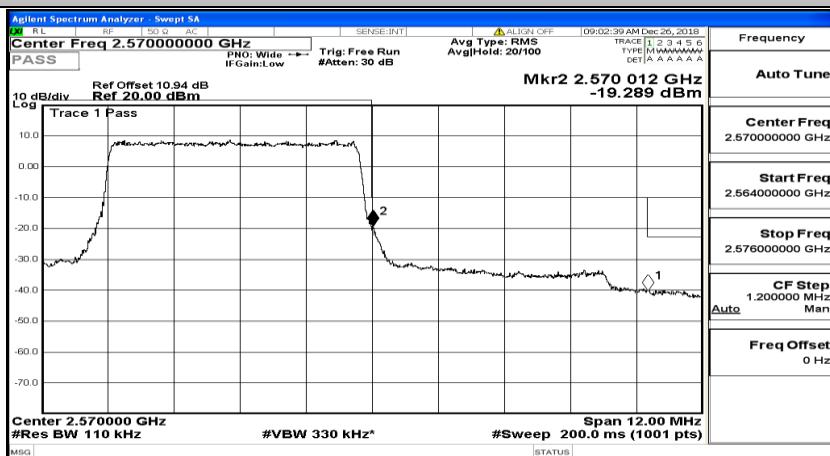


F.4 Band Edge

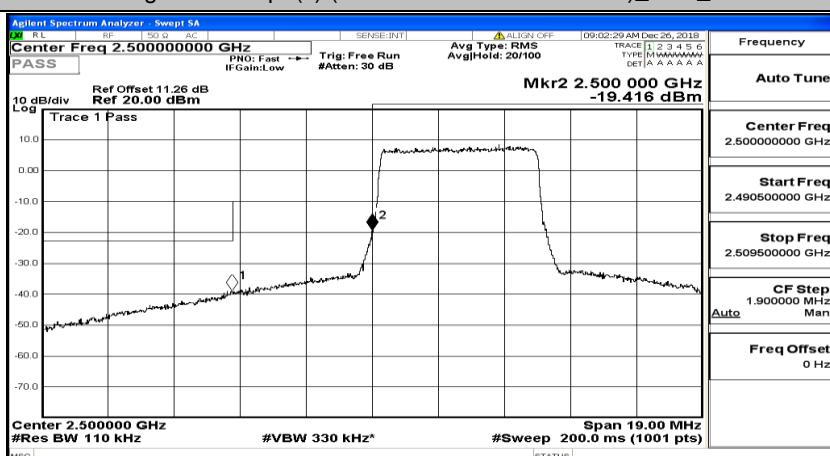
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



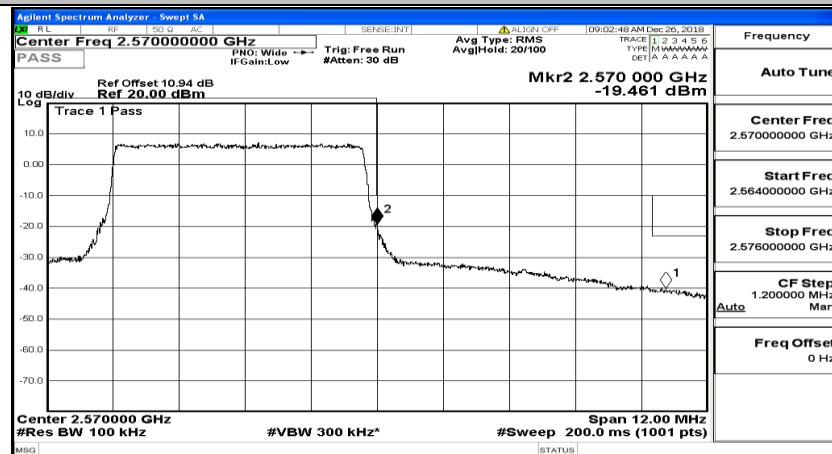
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



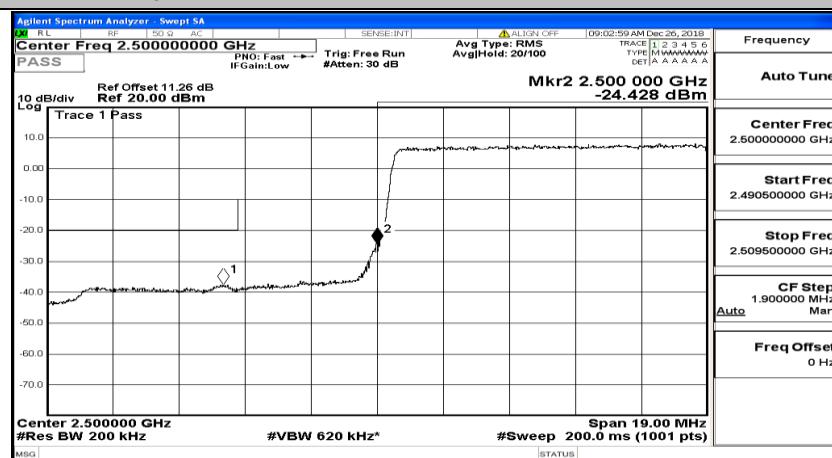
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



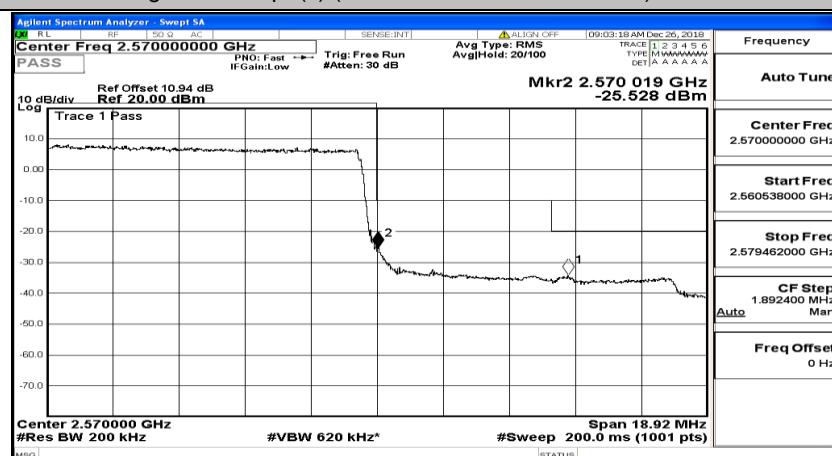
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



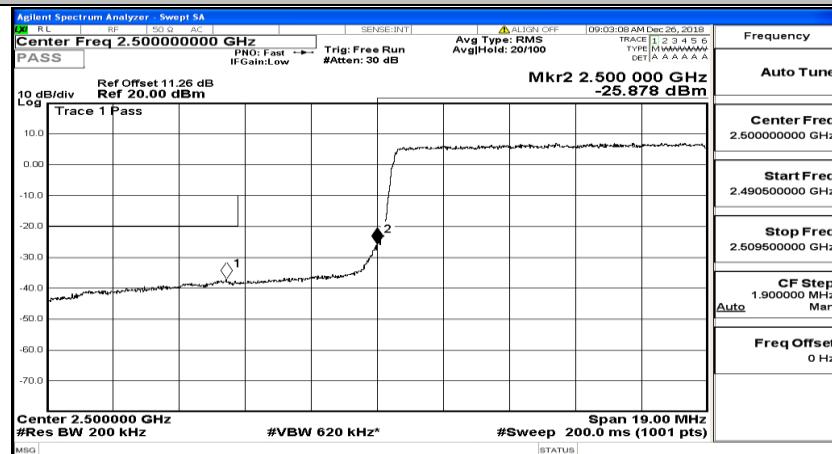
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



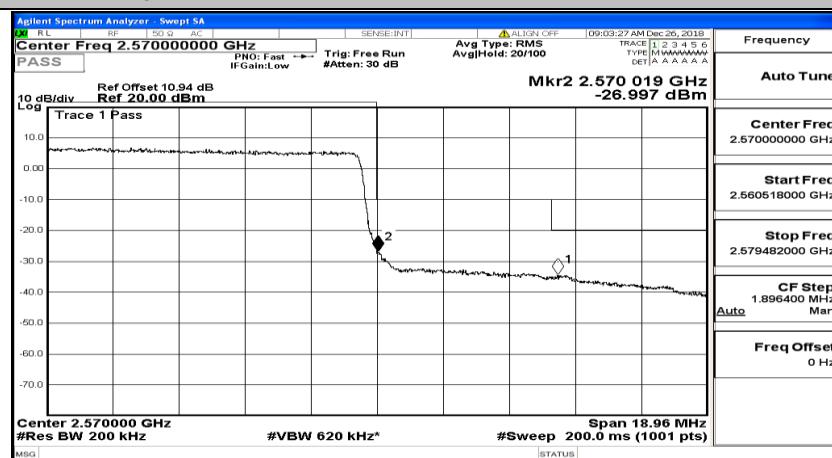
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



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



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



Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK

