

Appendix I: Test Data for E-UTRA Band 7

Product Name: 3-D VR Smartphone

Trade Mark: Q PHONE

Test Model: Qphone2019_A

Environmental Conditions

Temperature:	23.1 ° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Jayden Zhuo

A.1 Conducted Output Power

Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.58	21.60	PASS
		1	12	22.38	21.39	PASS
		1	24	22.04	21.04	PASS
		12	0	22.59	21.40	PASS
		12	6	22.43	21.24	PASS
		12	13	22.17	21.16	PASS
		25	0	22.37	21.33	PASS
	MCH	1	0	23.11	22.29	PASS
		1	12	23.24	22.38	PASS
		1	24	23.10	22.20	PASS
		12	0	22.18	21.15	PASS
		12	6	22.18	21.13	PASS
		12	13	22.07	21.03	PASS
		25	0	22.10	21.10	PASS
	HCH	1	0	22.87	21.69	PASS
		1	12	22.23	21.03	PASS
		1	24	22.38	21.06	PASS
		12	0	22.01	21.06	PASS
		12	6	22.10	21.14	PASS
		12	13	22.12	21.12	PASS
		25	0	22.04	21.03	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.84	21.66	PASS
		1	24	22.26	21.07	PASS
		1	49	22.86	21.75	PASS
		25	0	22.50	21.45	PASS
		25	12	22.13	21.09	PASS
		25	25	22.10	21.03	PASS
		50	0	22.19	21.15	PASS
	MCH	1	0	23.13	22.11	PASS
		1	24	23.31	22.19	PASS
		1	49	23.17	21.96	PASS
		25	0	22.20	21.19	PASS
		25	12	22.17	21.14	PASS
		25	25	22.98	21.95	PASS
		50	0	22.09	21.07	PASS
	HCH	1	0	22.38	21.59	PASS
		1	24	22.86	21.99	PASS
		1	49	22.45	21.38	PASS
		25	0	22.67	21.73	PASS
		25	12	22.87	21.94	PASS
		25	25	23.02	22.06	PASS
		50	0	22.86	21.87	PASS

Conducted Output Power Test Result (Channel Bandwidth: 15 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	22.95	21.72	PASS
		1	37	22.96	21.82	PASS
		1	74	22.75	21.76	PASS
		37	0	22.60	21.47	PASS
		37	18	22.08	21.05	PASS
		37	38	22.05	21.03	PASS
		75	0	22.25	21.15	PASS
	MCH	1	0	23.08	22.03	PASS
		1	37	23.33	22.22	PASS
		1	74	23.00	21.76	PASS
		37	0	22.34	21.23	PASS
		37	18	22.36	21.22	PASS
		37	38	22.15	21.01	PASS
		75	0	22.25	21.14	PASS
	HCH	1	0	22.35	21.55	PASS
		1	37	22.74	21.92	PASS
		1	74	22.64	21.60	PASS
		37	0	22.40	21.43	PASS
		37	18	22.70	21.69	PASS
		37	38	22.11	21.04	PASS
		75	0	22.78	21.74	PASS

Conducted Output Power Test Result (Channel Bandwidth: 20 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	23.05	22.28	PASS
		1	49	22.83	22.23	PASS
		1	99	22.22	21.70	PASS
		50	0	22.34	21.27	PASS
		50	25	22.80	21.77	PASS
		50	50	22.95	21.95	PASS
		100	0	22.20	21.16	PASS
	MCH	1	0	23.03	22.50	PASS
		1	49	23.38	22.73	PASS
		1	99	22.81	22.03	PASS
		50	0	22.21	21.17	PASS
		50	25	22.15	21.10	PASS
		50	50	22.78	21.68	PASS
		100	0	23.01	22.91	PASS
	HCH	1	0	22.65	21.58	PASS
		1	49	22.43	21.47	PASS
		1	99	22.73	21.49	PASS
		50	0	22.28	21.36	PASS
		50	25	22.49	21.58	PASS
		50	50	22.86	21.94	PASS
		100	0	22.58	21.67	PASS

I.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	4.06	<13	PASS
	MCH	4.4	<13	PASS
	HCH	4.33	<13	PASS
16QAM	LCH	4.9	<13	PASS
	MCH	5.27	<13	PASS
	HCH	5.15	<13	PASS

Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	4.62	<13	PASS
	MCH	4.68	<13	PASS
	HCH	4.82	<13	PASS
16QAM	LCH	5.34	<13	PASS
	MCH	5.48	<13	PASS
	HCH	5.67	<13	PASS

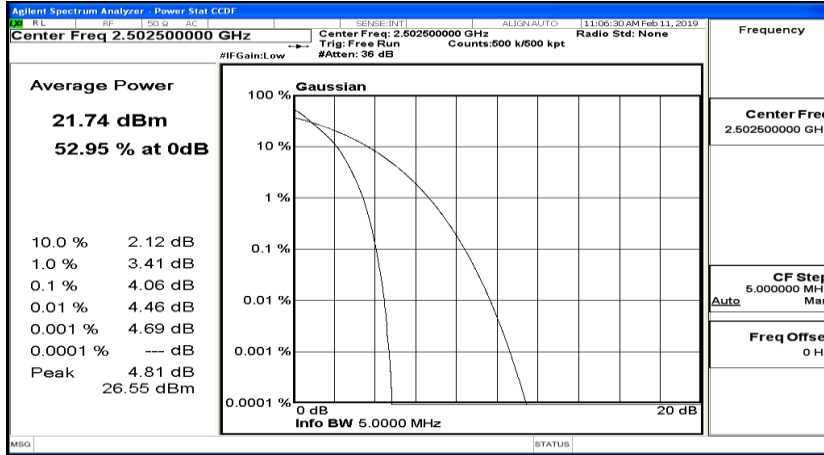
Peak-to Average Ratio Test Result (Channel Bandwidth: 15 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.02	<13	PASS
	MCH	4.91	<13	PASS
	HCH	5.03	<13	PASS
16QAM	LCH	5.91	<13	PASS
	MCH	5.85	<13	PASS
	HCH	6.26	<13	PASS

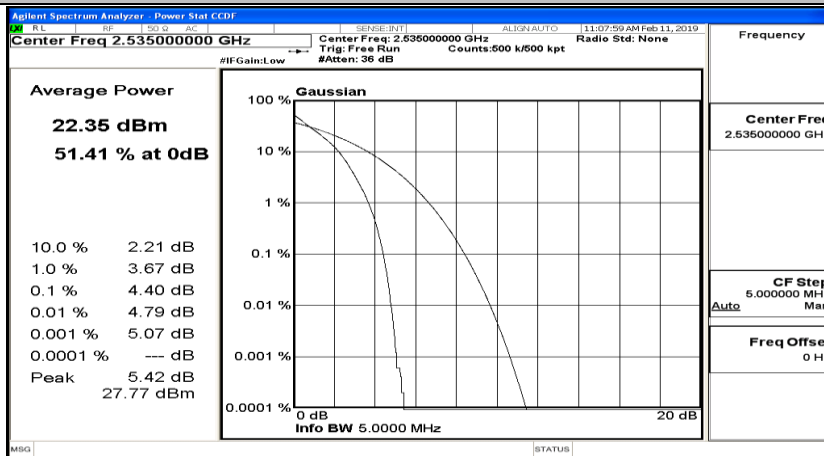
Peak-to Average Ratio Test Result (Channel Bandwidth: 20 MHz)

Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.85	<13	PASS
	MCH	5.75	<13	PASS
	HCH	5.79	<13	PASS
16QAM	LCH	6.71	<13	PASS
	MCH	6.58	<13	PASS
	HCH	6.8	<13	PASS

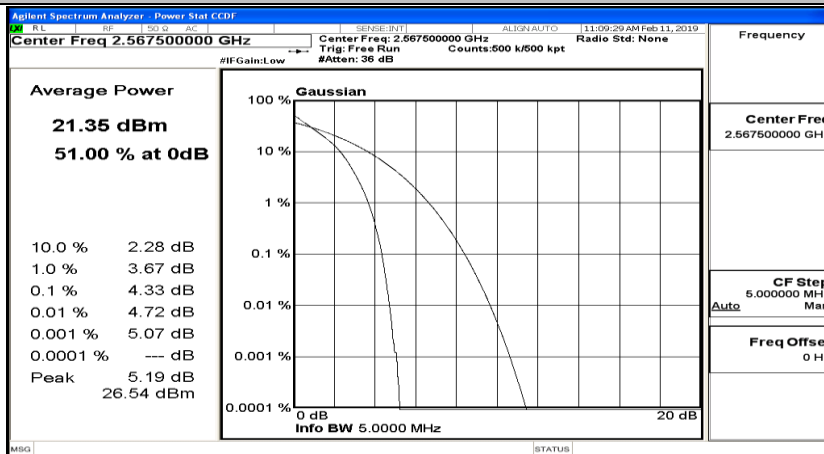
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



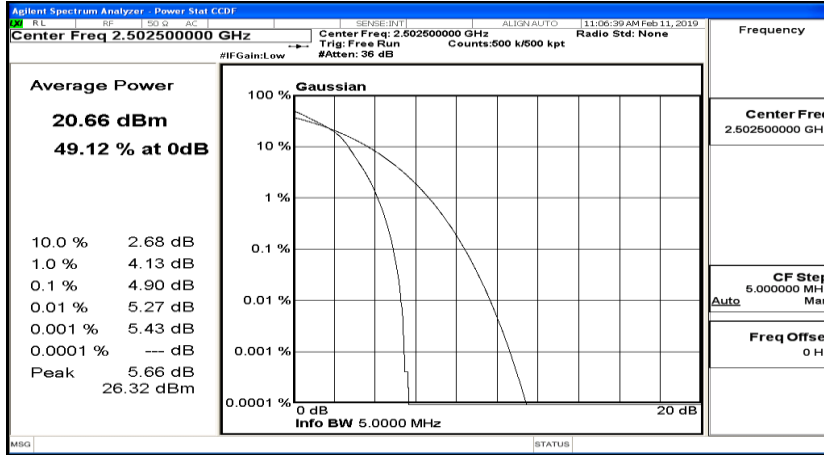
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



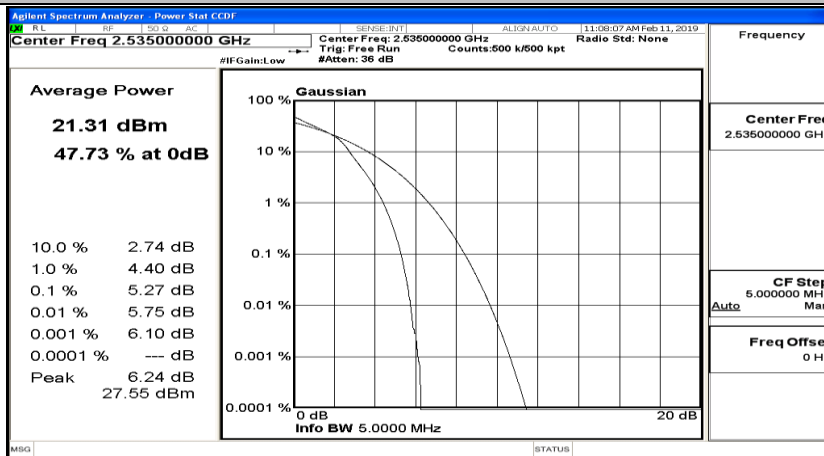
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



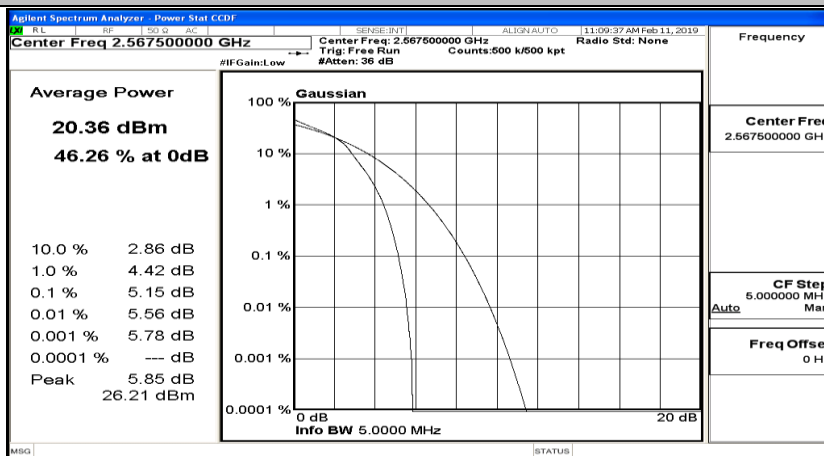
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



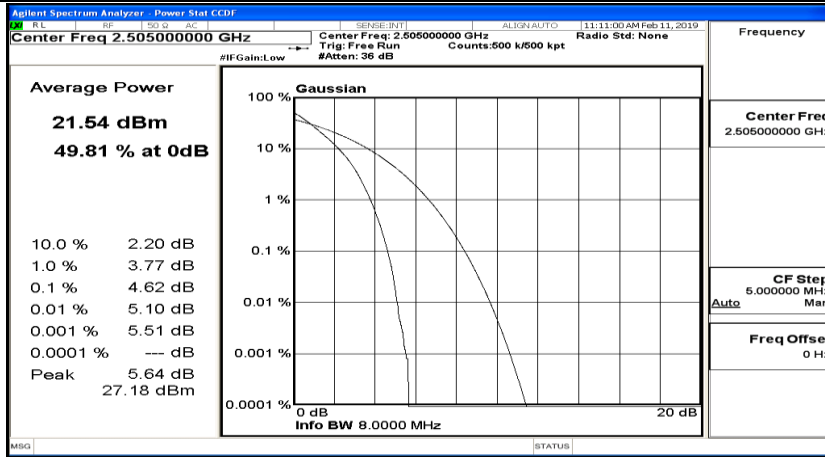
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



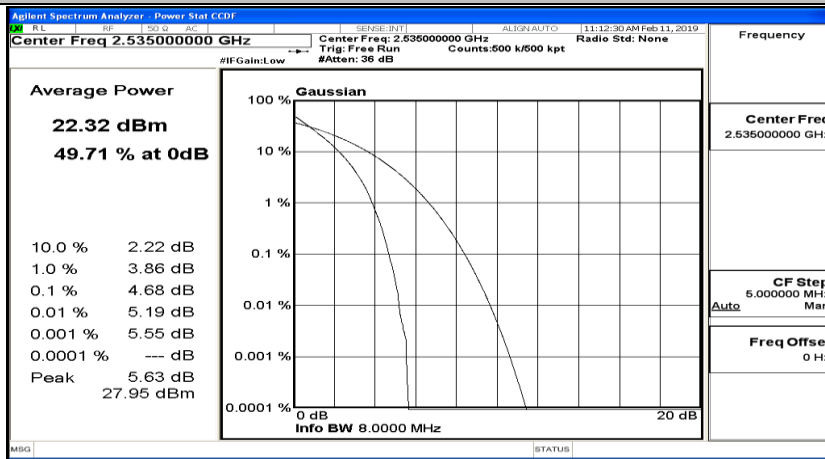
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



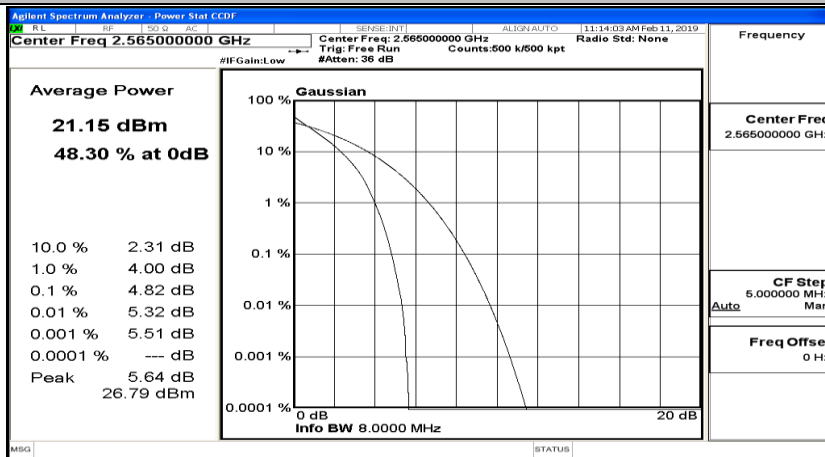
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_QPSK



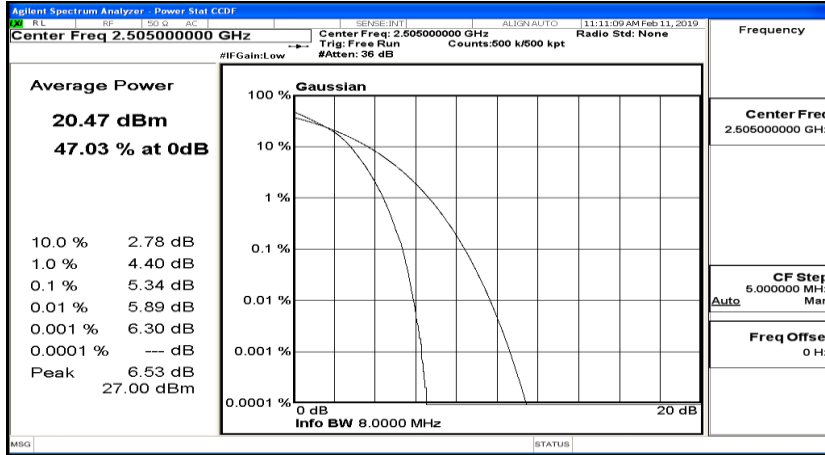
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz) MCH_QPSK



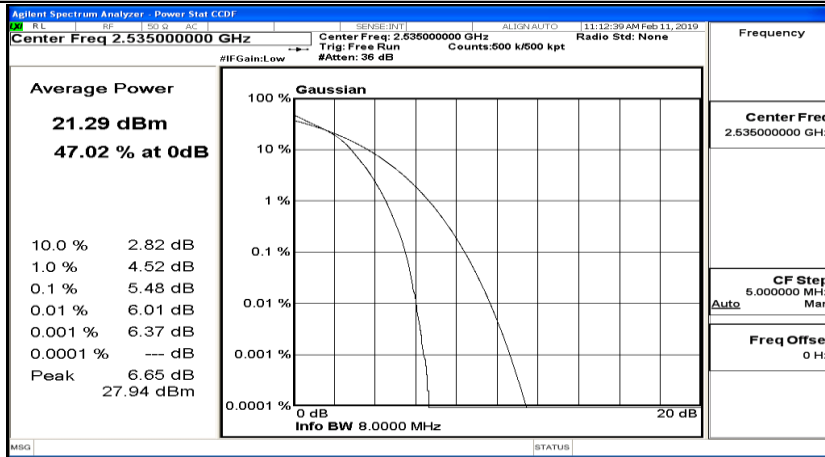
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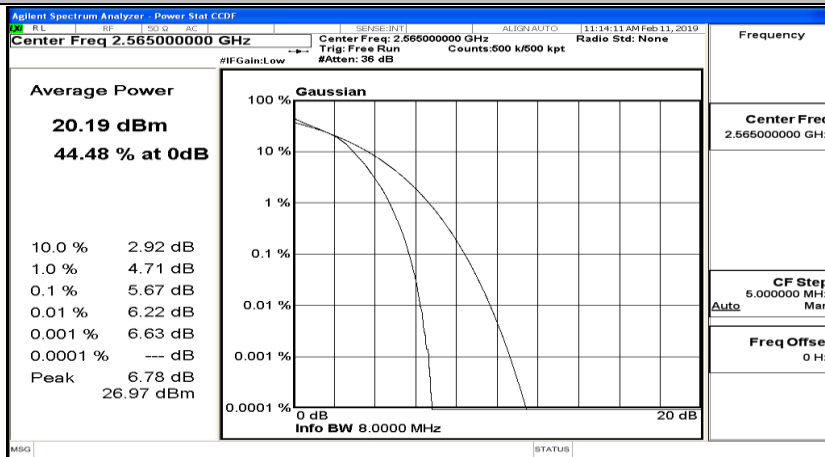
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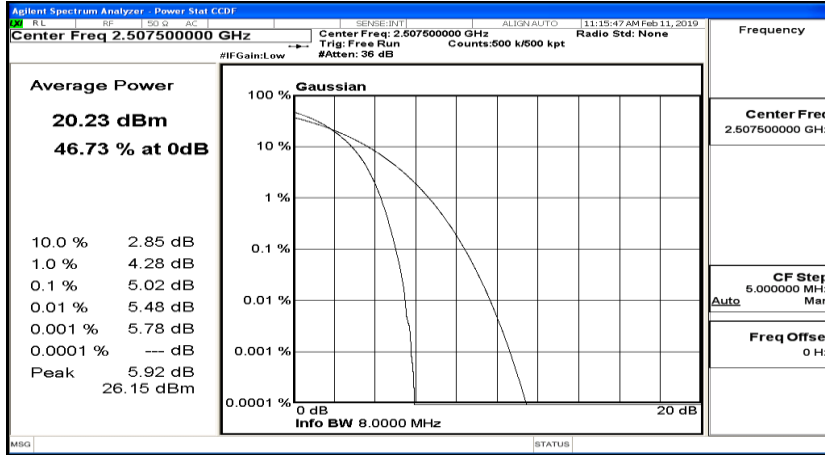
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



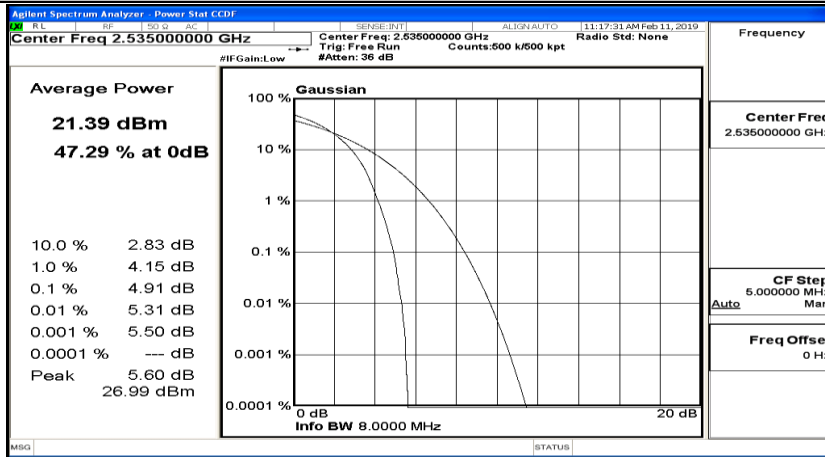
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



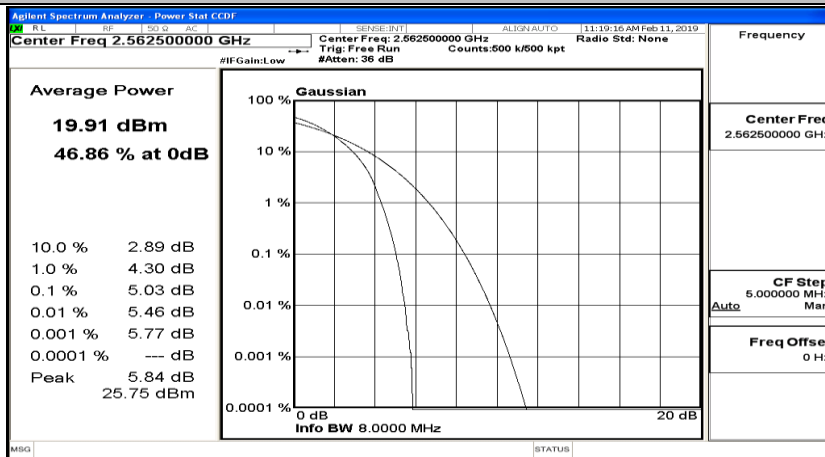
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz) LCH_QPSK



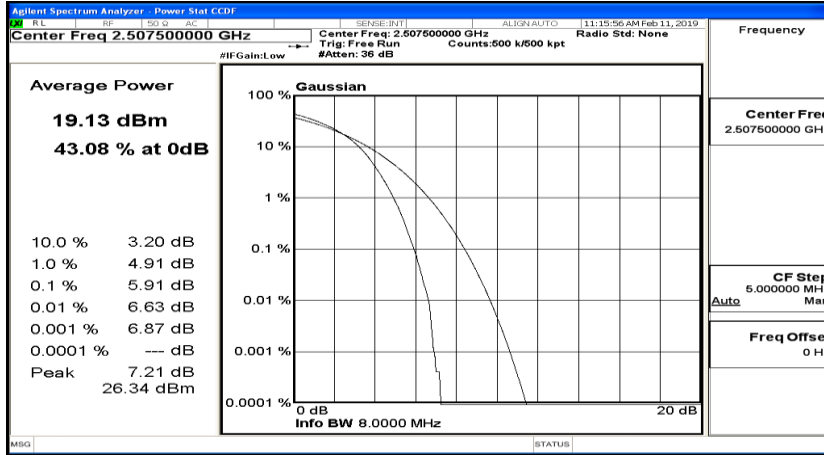
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz) MCH_QPSK



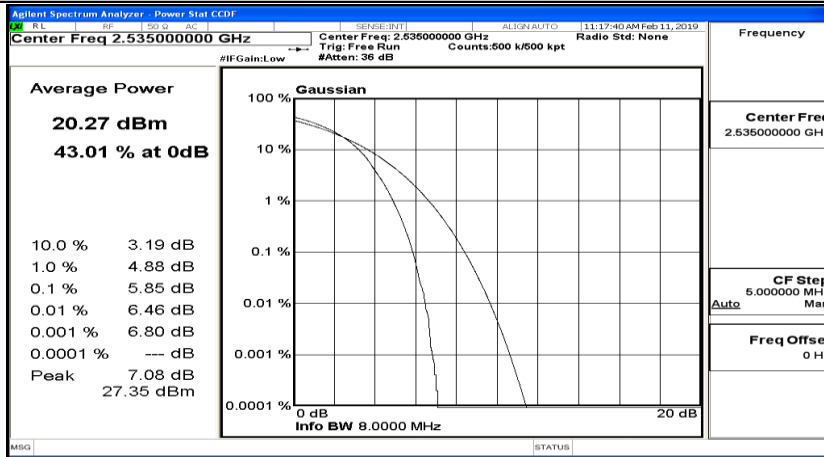
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz) HCH_QPSK



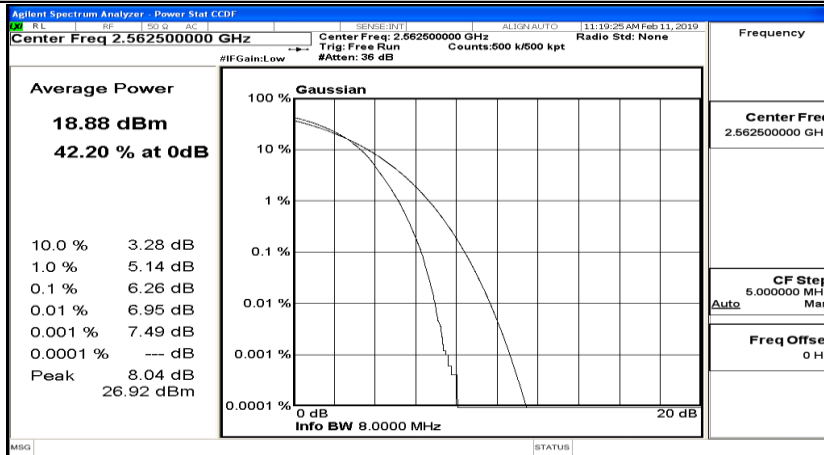
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



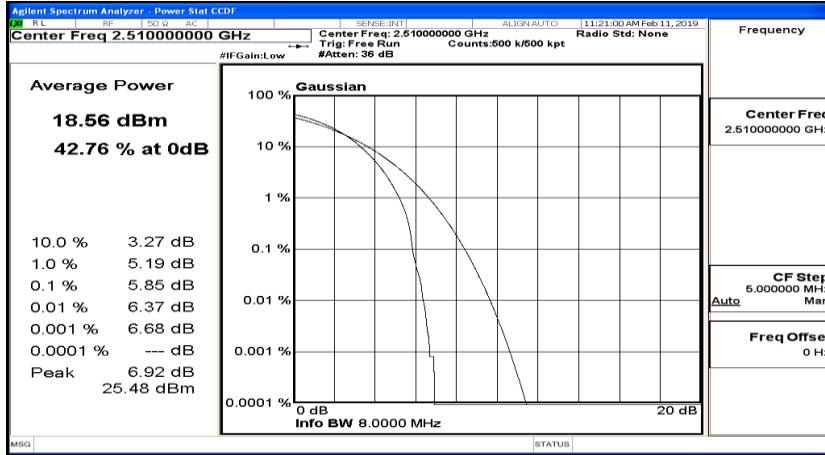
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



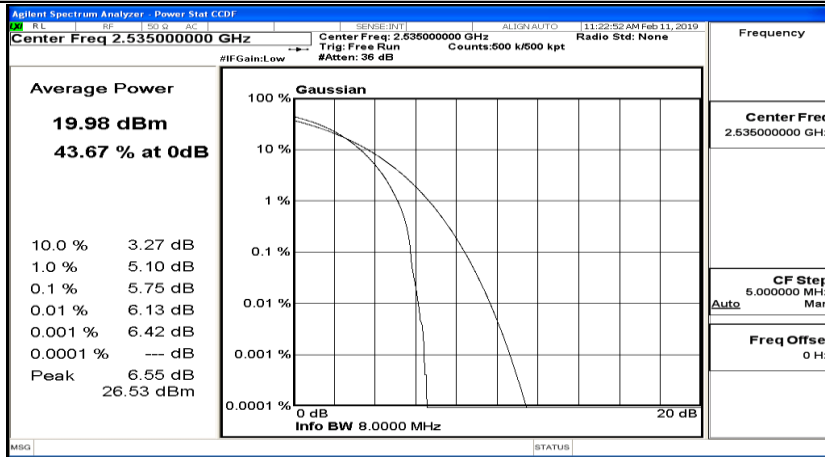
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



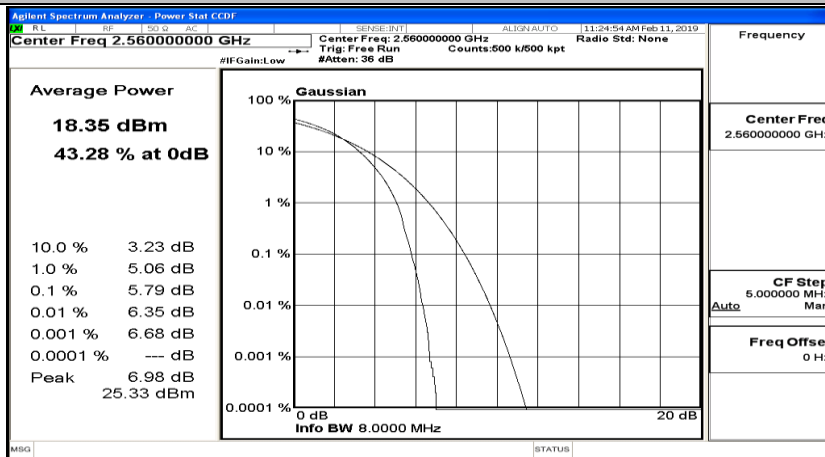
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz) LCH_QPSK



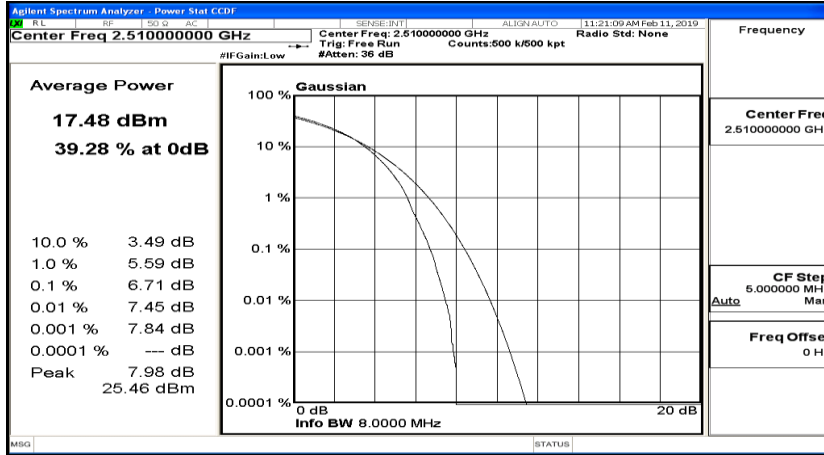
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz) MCH_QPSK



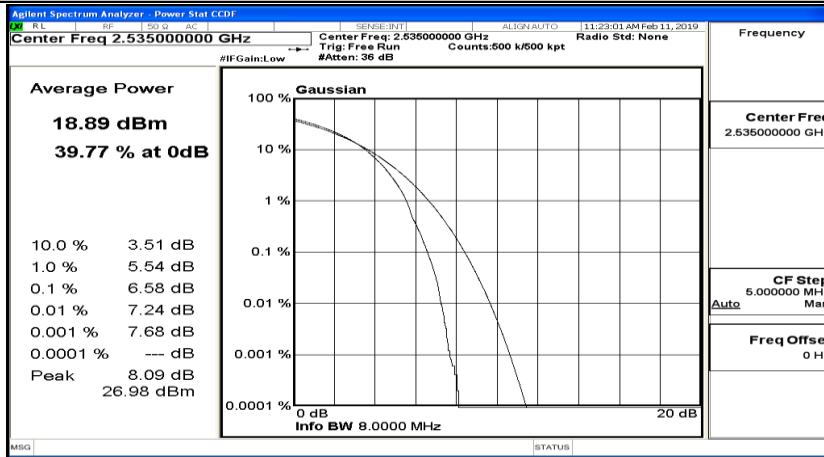
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz) HCH_QPSK



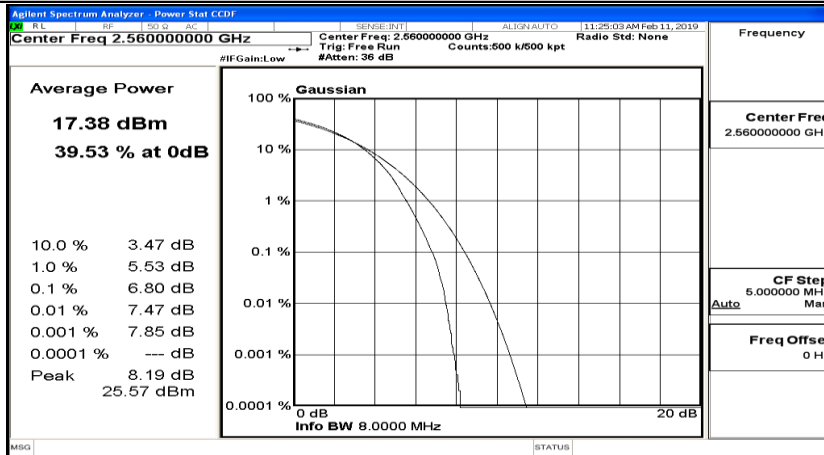
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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



I.3 26dB Bandwidth and Occupied Bandwidth

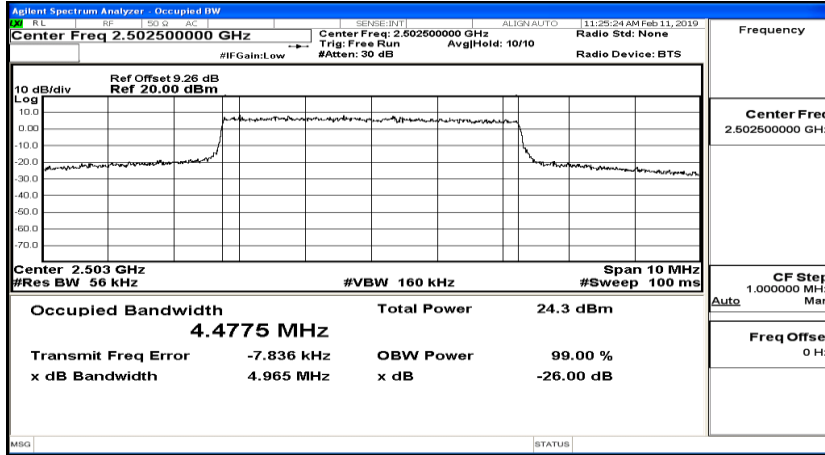
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4775	4.965	PASS
	MCH	4.4824	4.854	PASS
	HCH	4.4807	4.924	PASS
16QAM	LCH	4.4807	4.847	PASS
	MCH	4.4788	4.862	PASS
	HCH	4.4749	4.832	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9757	9.707	PASS
	MCH	8.9477	9.517	PASS
	HCH	8.9379	9.487	PASS
16QAM	LCH	8.9543	9.497	PASS
	MCH	8.9467	9.501	PASS
	HCH	8.9413	9.470	PASS

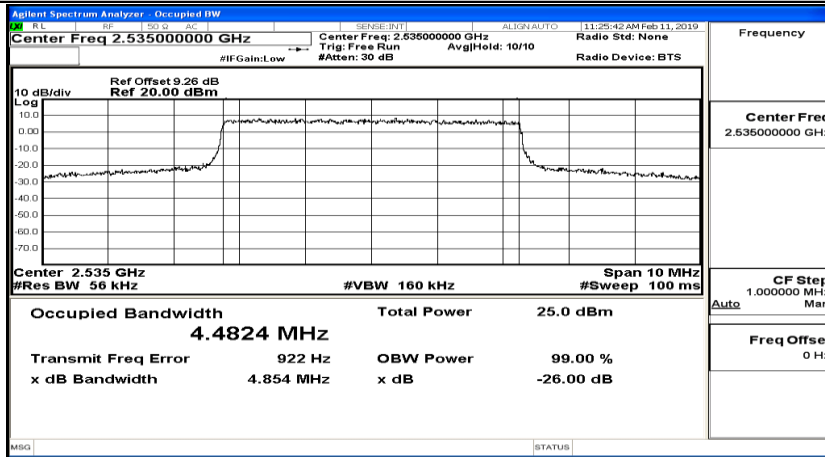
EBW & OBW Test Result (Channel Bandwidth: 15 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	13.480	18.32	PASS
	MCH	13.416	15.74	PASS
	HCH	13.405	14.06	PASS
16QAM	LCH	13.444	14.20	PASS
	MCH	13.398	14.09	PASS
	HCH	13.410	14.10	PASS

EBW & OBW Test Result (Channel Bandwidth: 20 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	17.961	18.97	PASS
	MCH	17.821	18.70	PASS
	HCH	17.893	18.62	PASS
16QAM	LCH	17.943	18.87	PASS
	MCH	17.826	18.79	PASS
	HCH	17.873	18.63	PASS

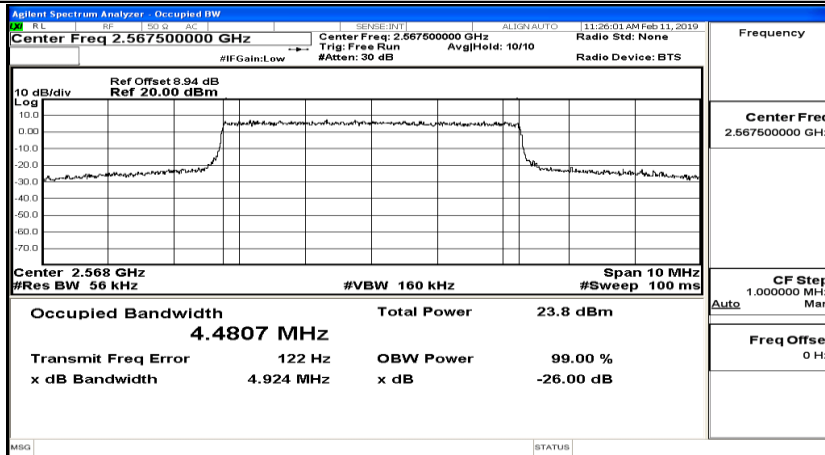
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



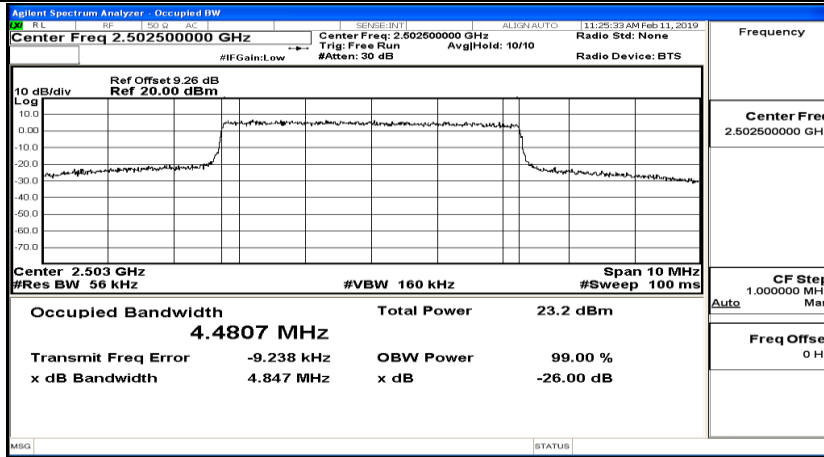
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



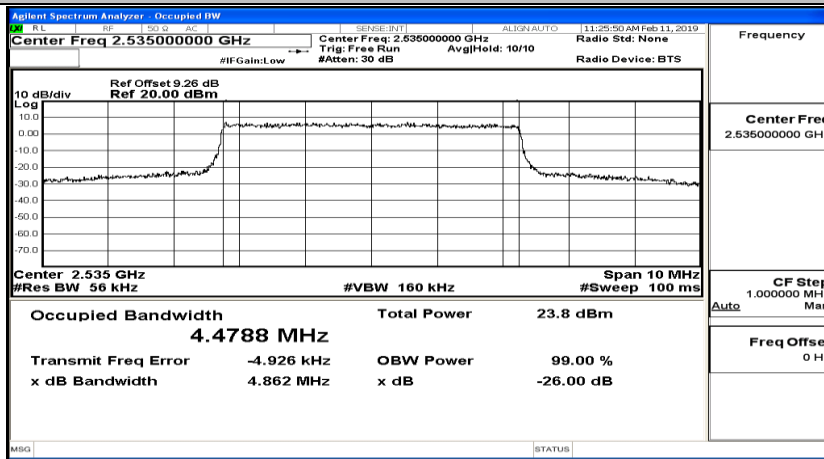
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



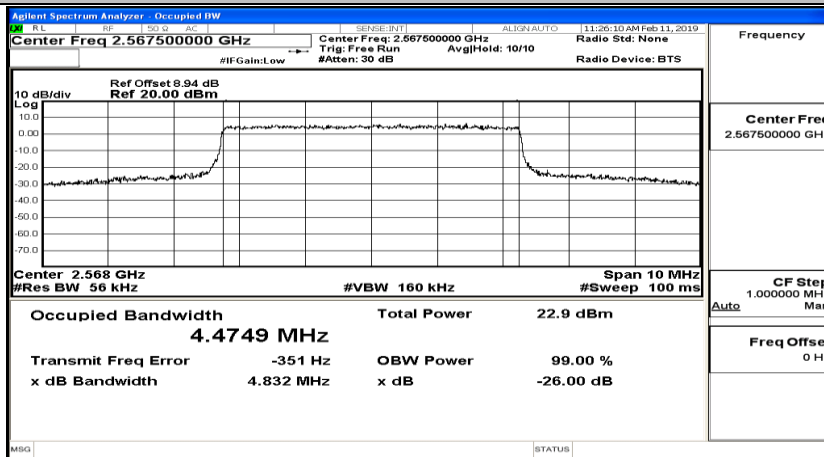
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



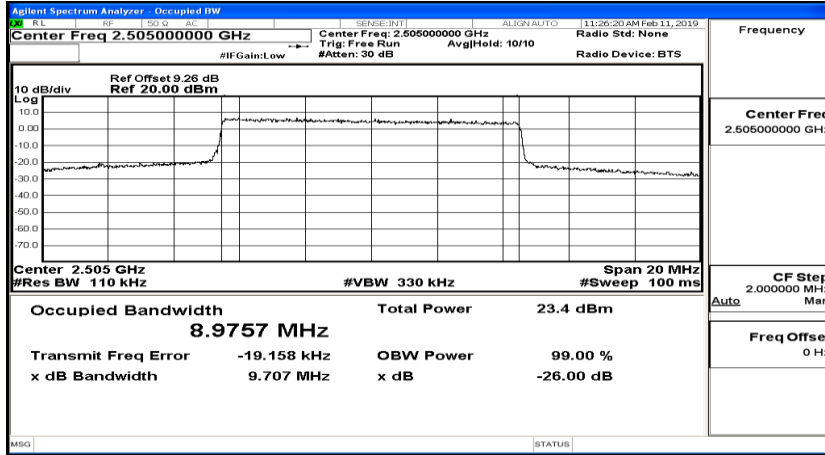
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



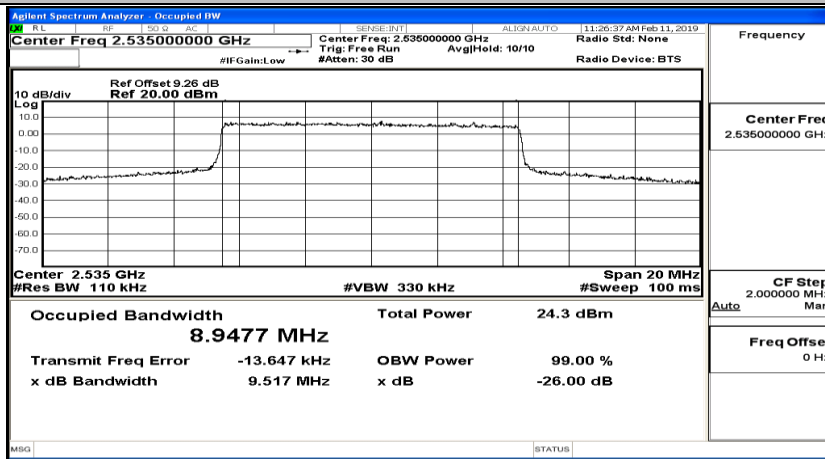
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



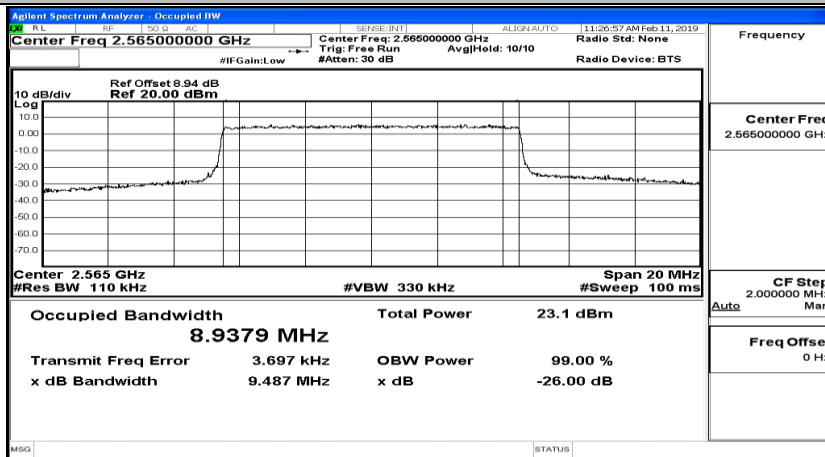
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



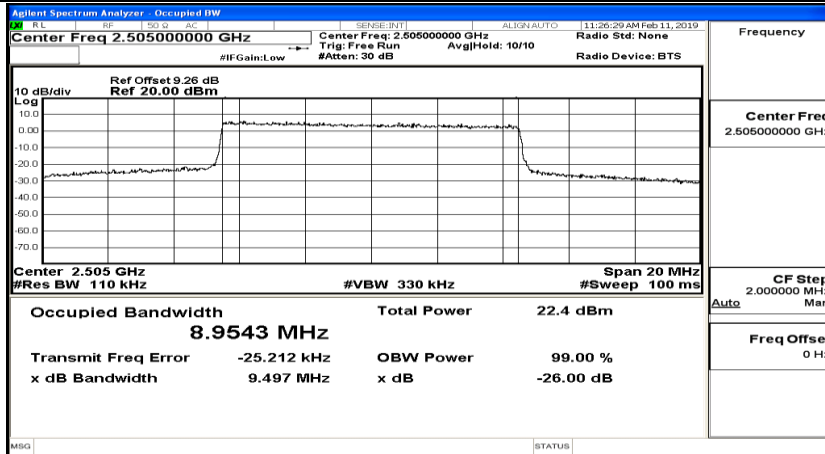
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



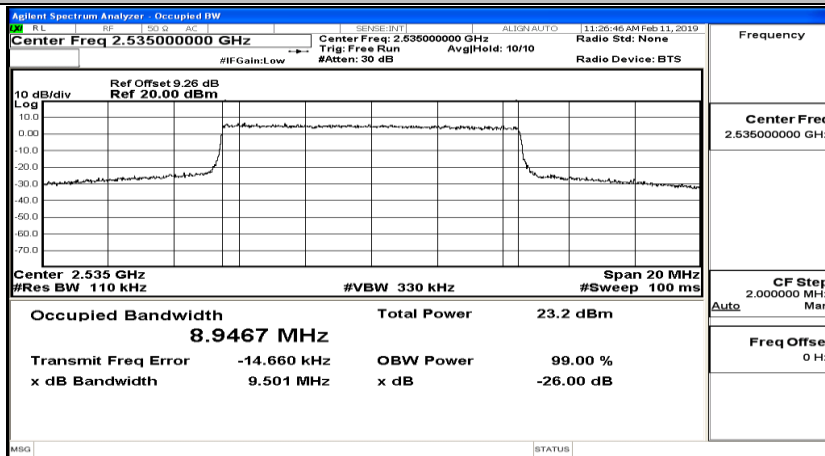
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



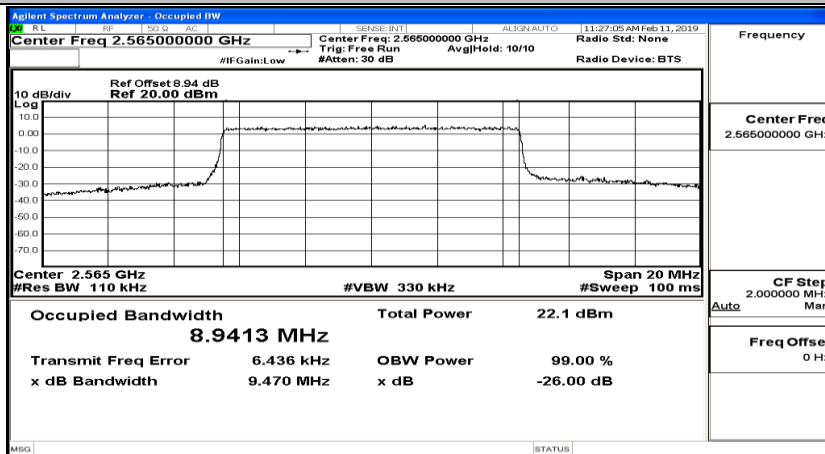
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



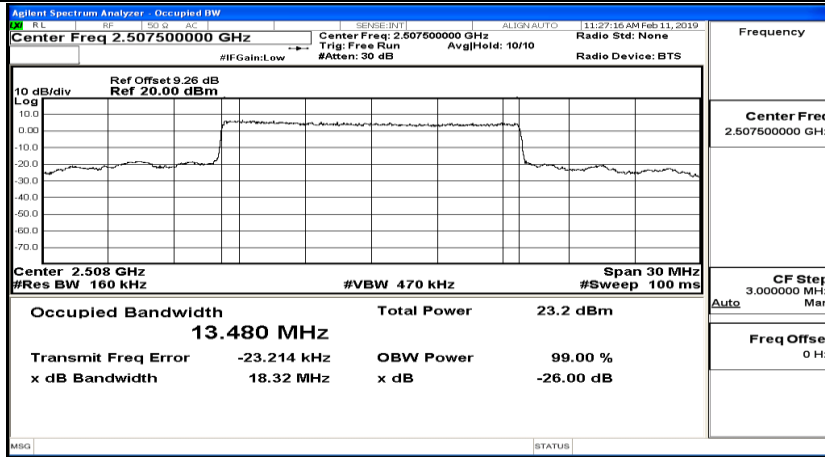
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



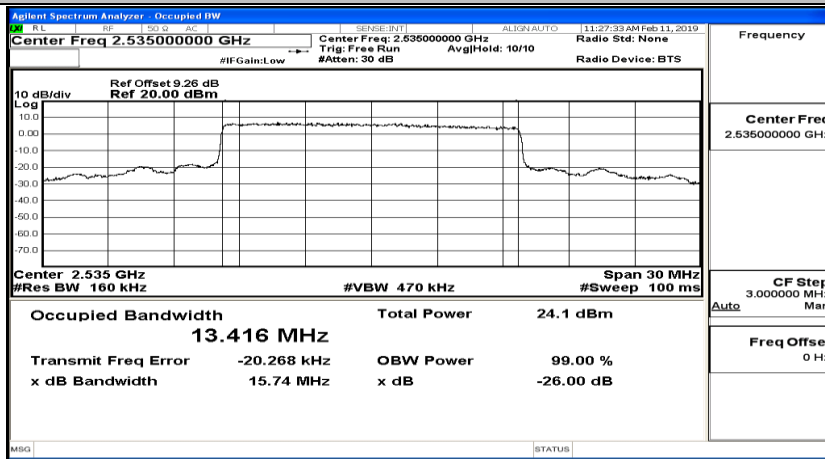
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



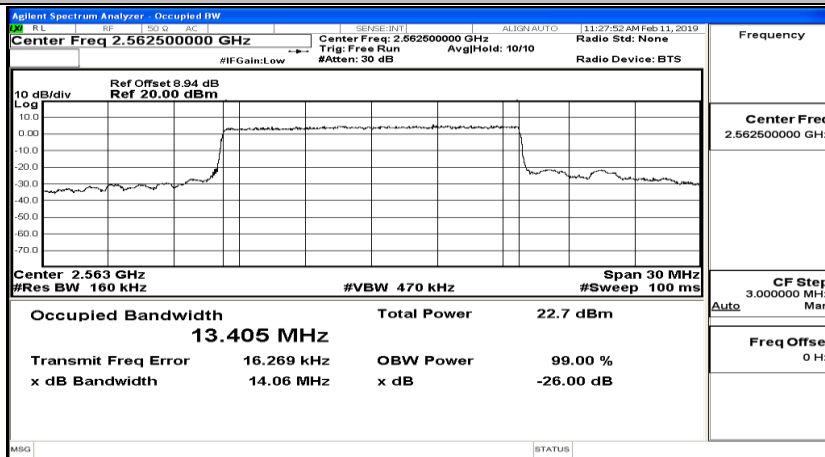
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_QPSK



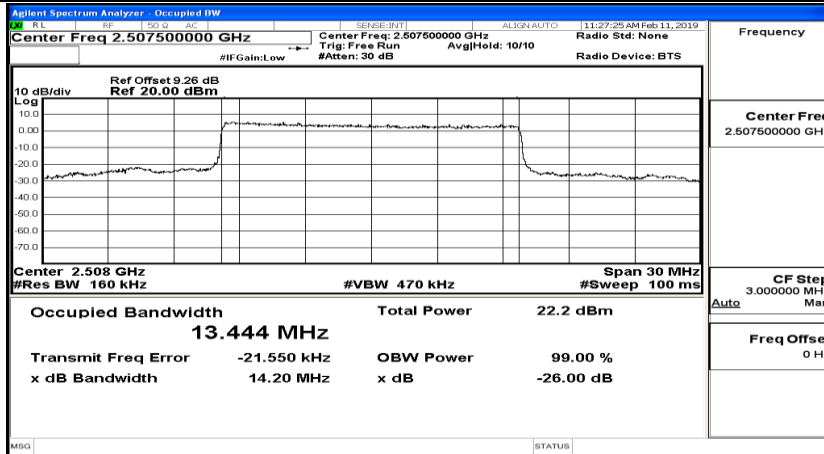
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_QPSK



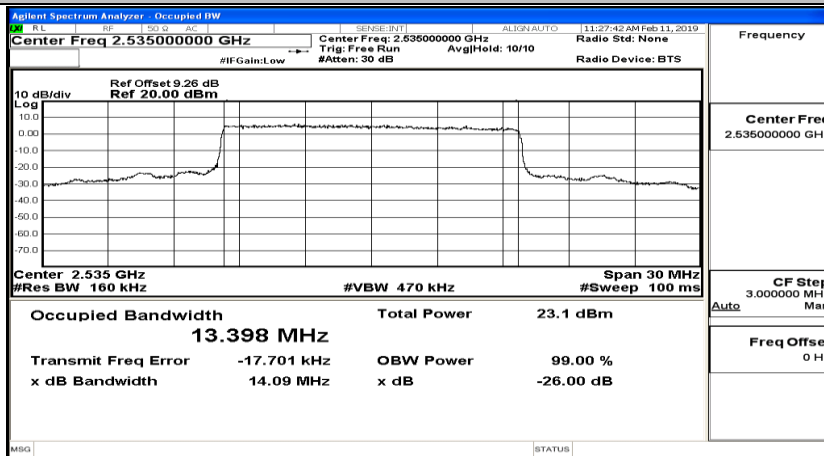
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



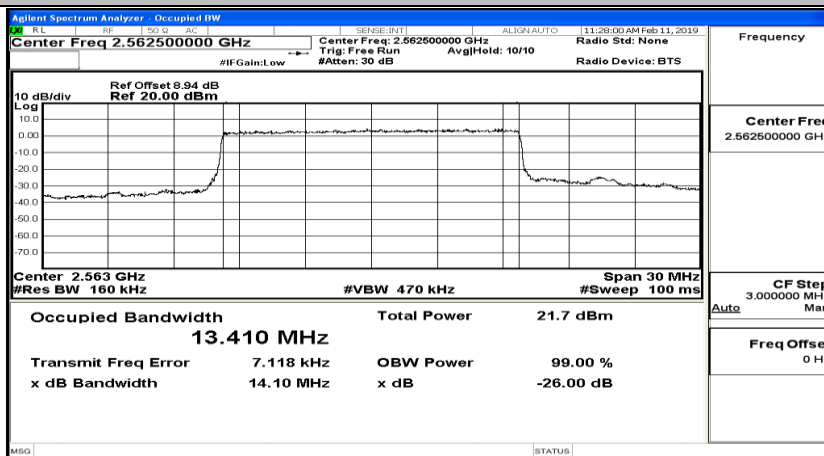
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



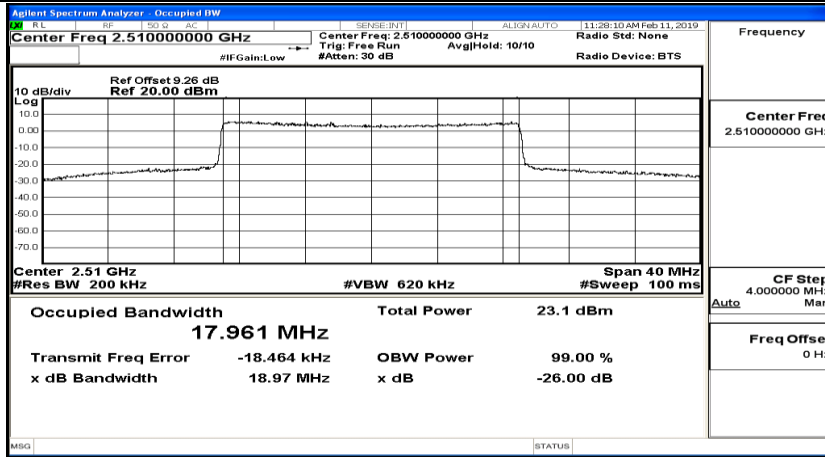
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_MCH_16QAM



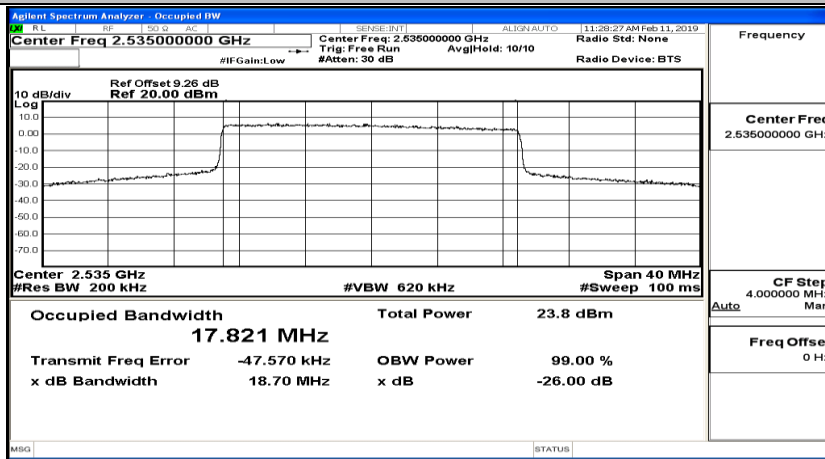
EBW & OBW Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



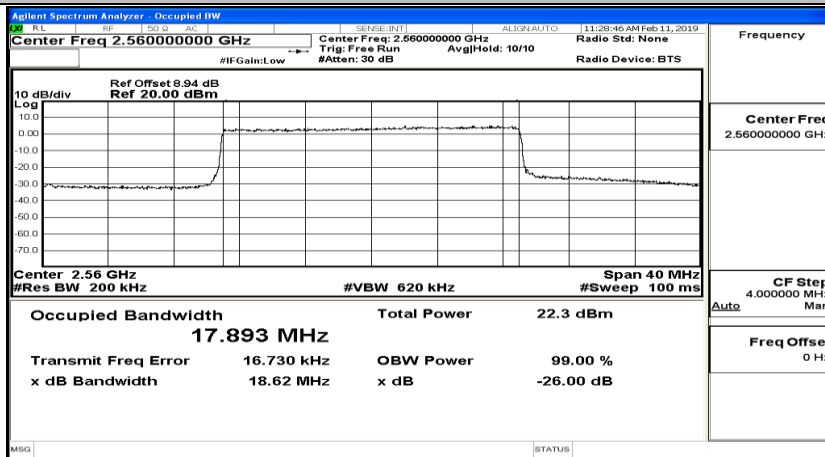
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_QPSK



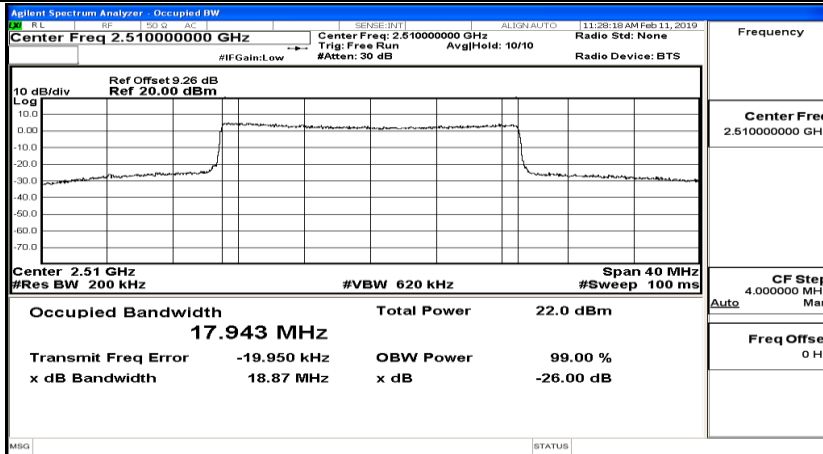
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_MCH_QPSK



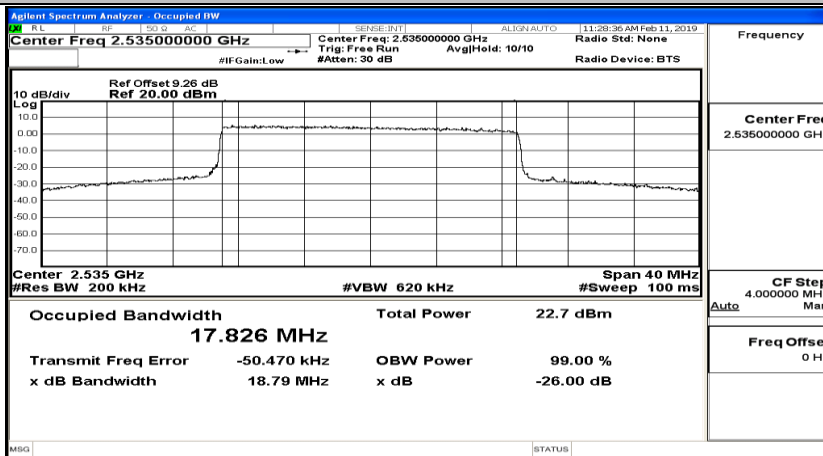
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_QPSK



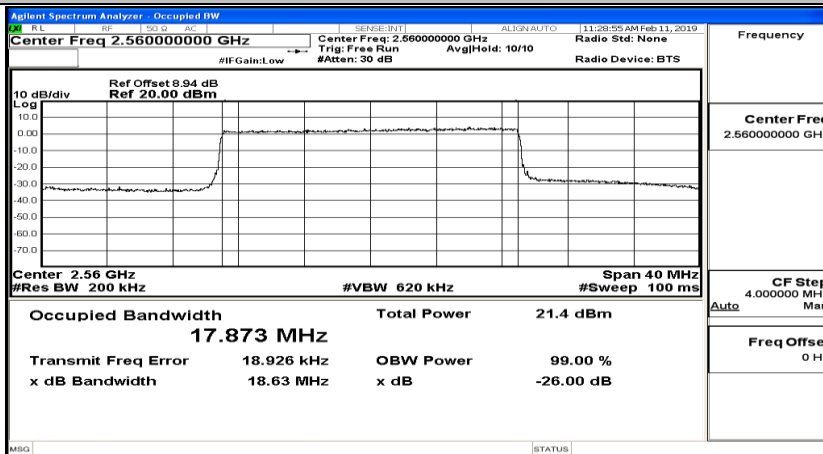
EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_LCH_16QAM



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

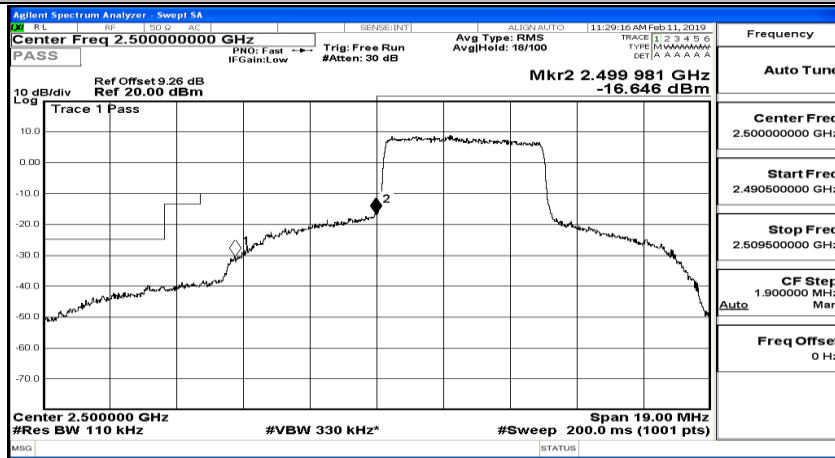


EBW & OBW Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM

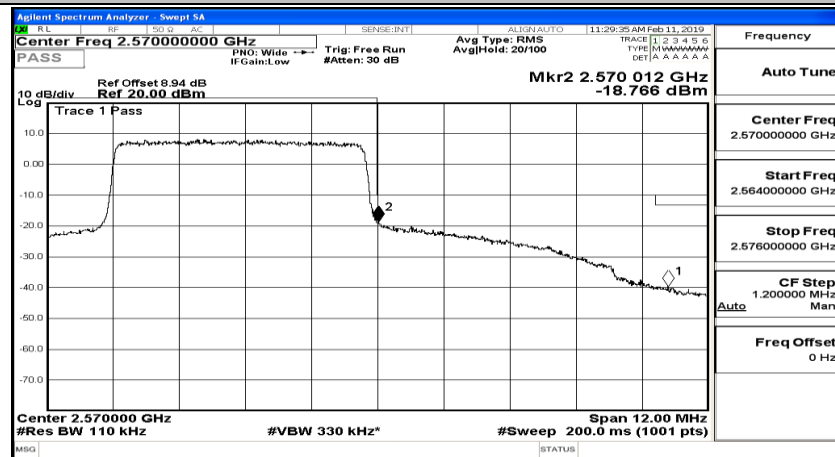


I.4 Band Edge

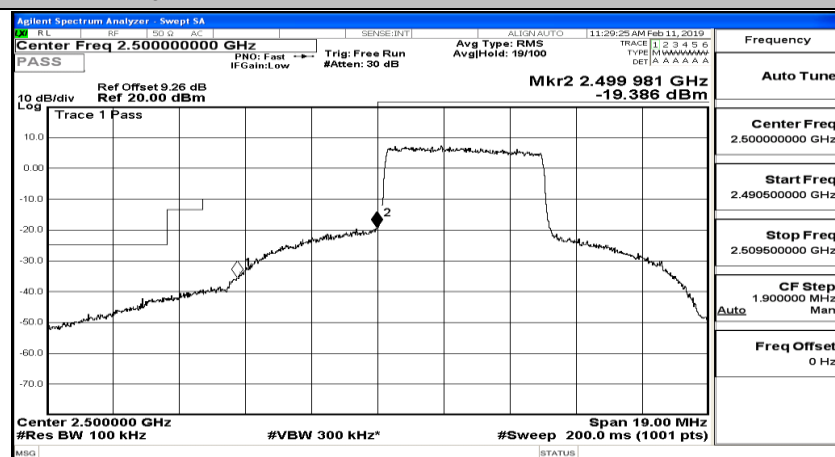
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



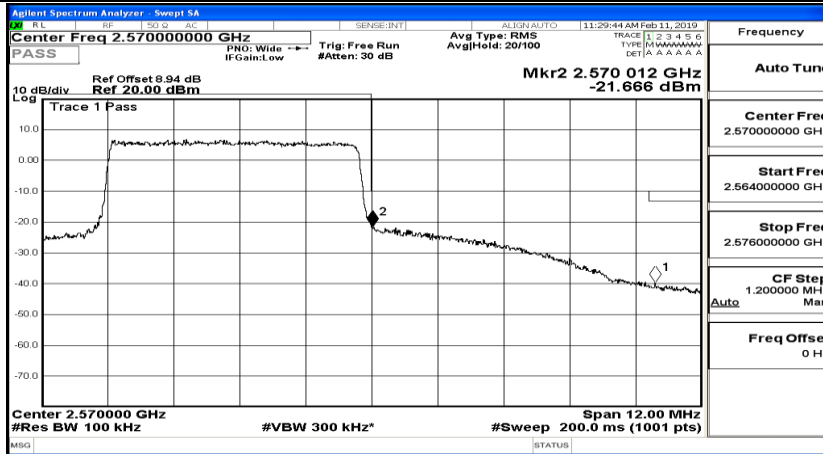
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



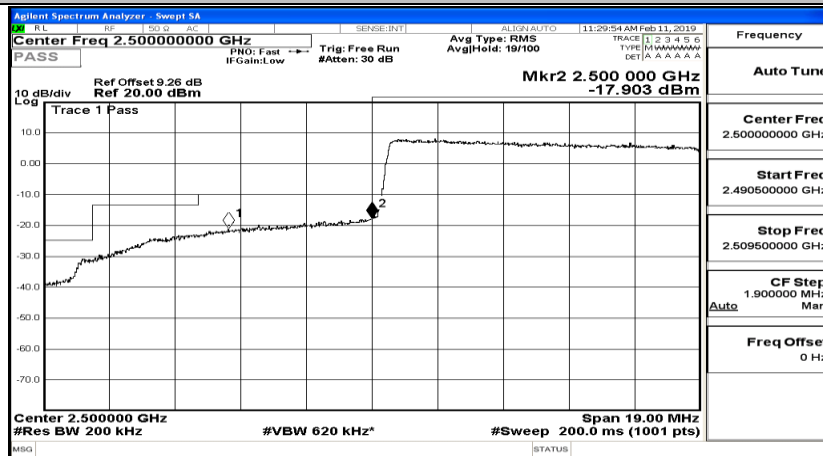
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



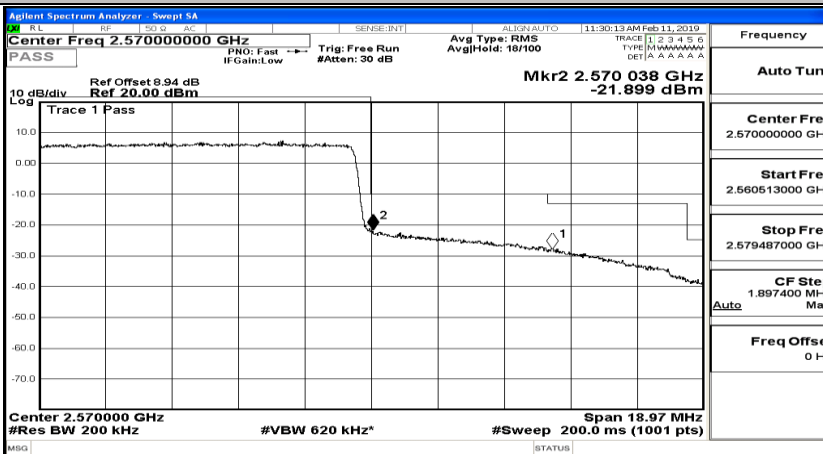
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



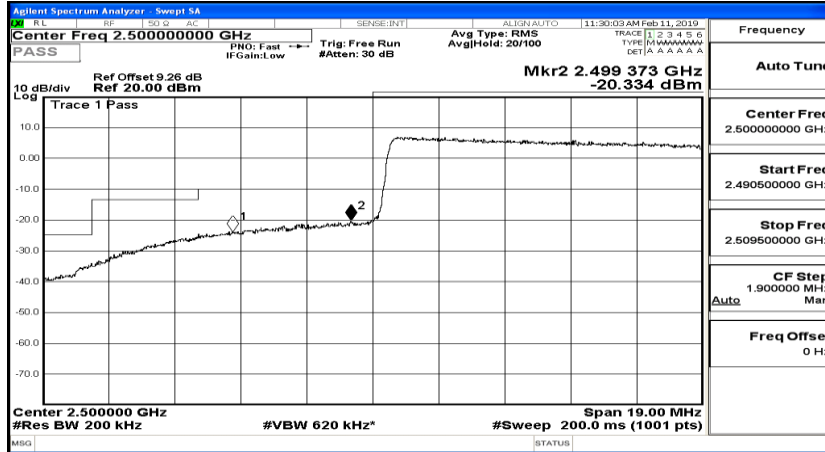
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



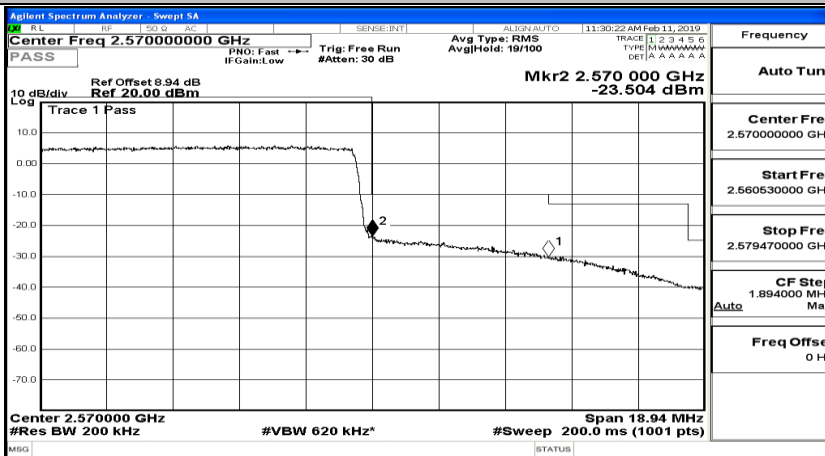
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



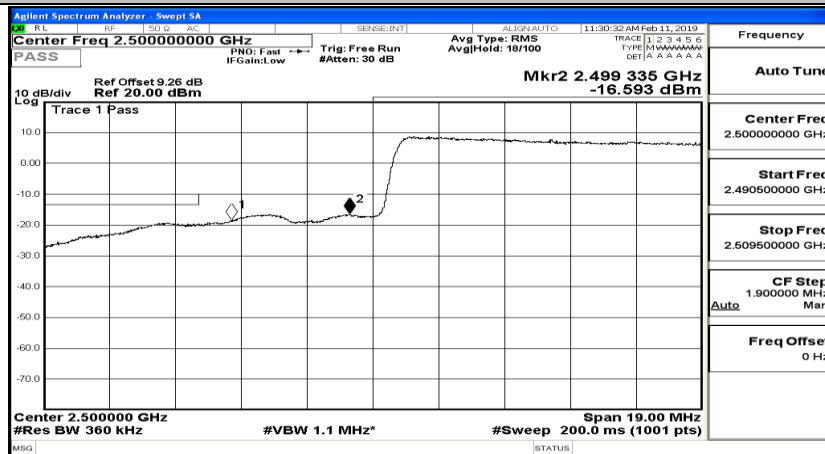
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_16QAM



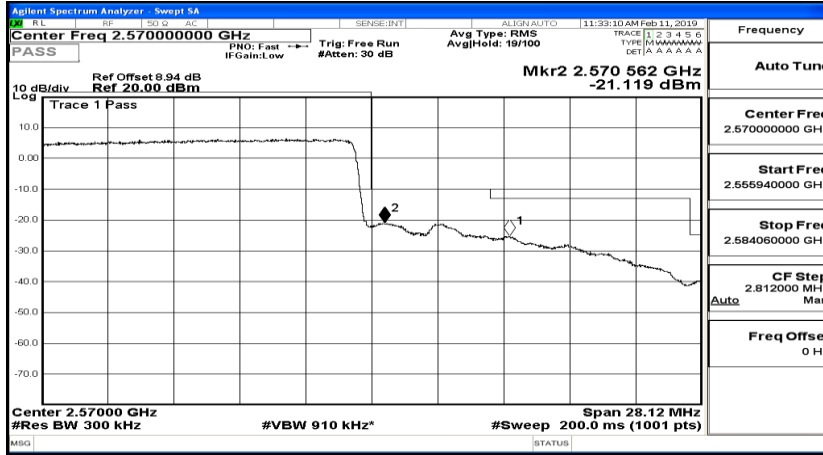
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



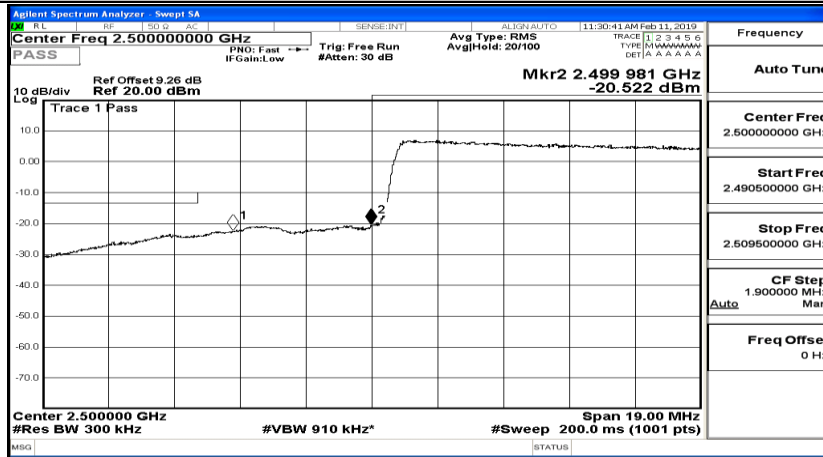
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz) LCH_QPSK



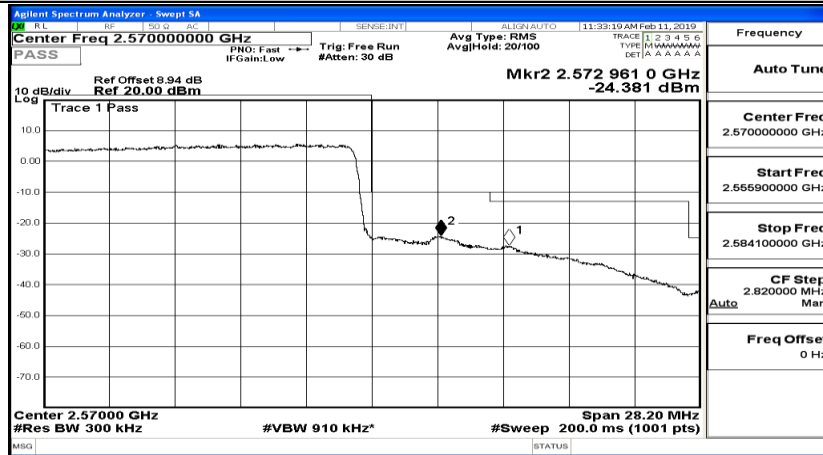
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_QPSK



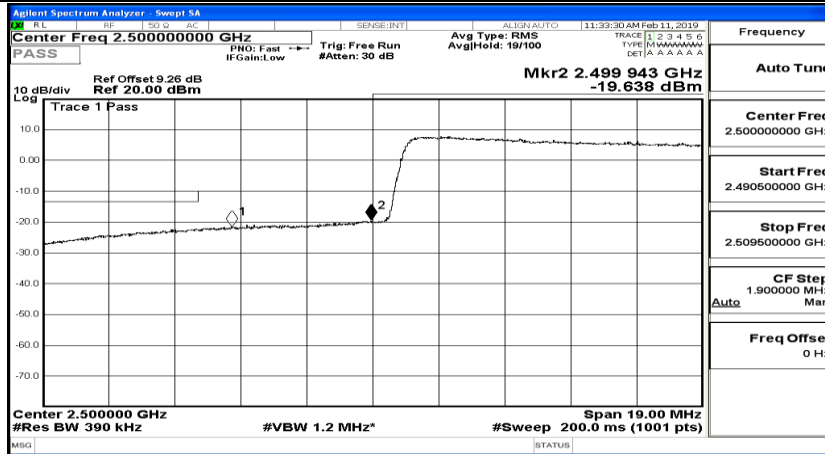
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_LCH_16QAM



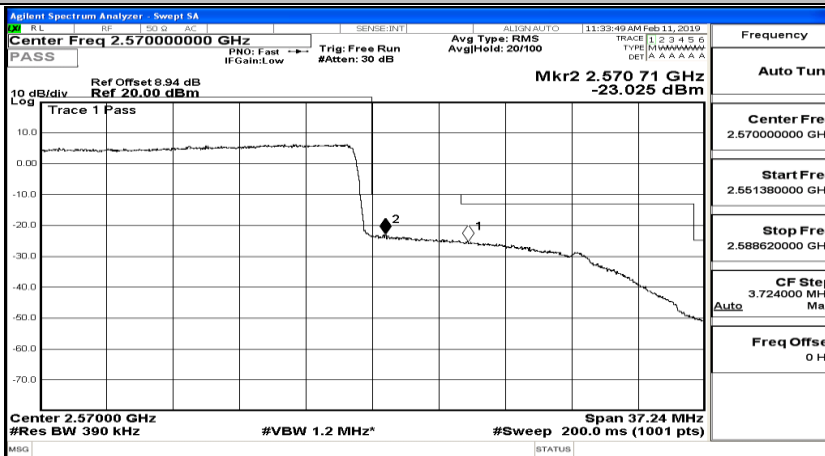
Band Edge Test Graph(s) (Channel Bandwidth:15 MHz)_HCH_16QAM



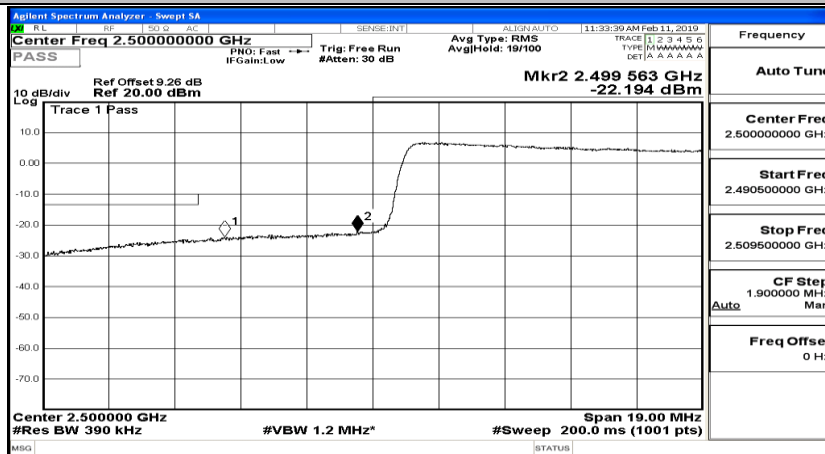
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz) LCH_QPSK



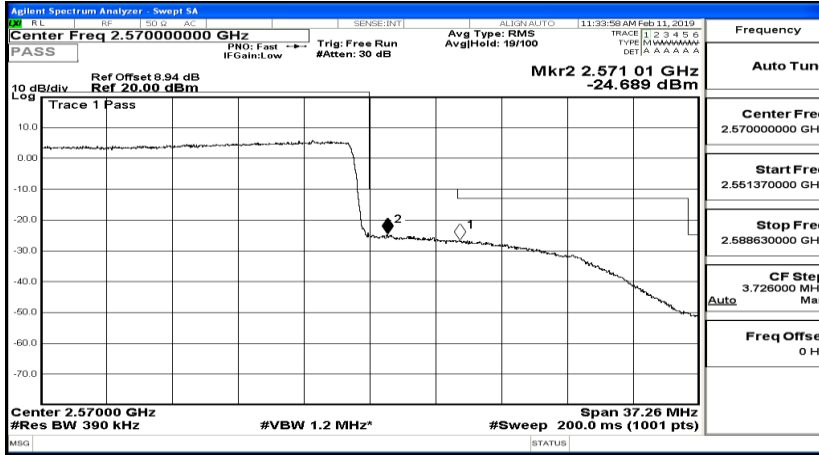
Band Edge Test Graph(s) (Channel Bandwidth:20 MHz) HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth:20 MHz) LCH_16QAM



Band Edge Test Graph(s) (Channel Bandwidth:20 MHz)_HCH_16QAM



I.5 Conducted Spurious Emission

CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK

