



Appendix A: Average Output Power Data

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.19	PASS
		1	2	23.27	PASS
		1	5	23.18	PASS
		3	0	23.26	PASS
		3	1	23.30	PASS
		3	3	23.25	PASS
		6	0	22.30	PASS
	MCH	1	0	23.27	PASS
		1	2	23.37	PASS
		1	5	23.28	PASS
		3	0	23.33	PASS
		3	1	23.38	PASS
		3	3	23.33	PASS
		6	0	22.36	PASS
	HCH	1	0	23.16	PASS
		1	2	23.25	PASS
		1	5	23.17	PASS
		3	0	23.20	PASS
		3	1	23.30	PASS
		3	3	23.24	PASS
		6	0	22.29	PASS
16QAM	LCH	1	0	22.46	PASS
		1	2	22.56	PASS
		1	5	22.52	PASS
		3	0	22.43	PASS
		3	1	22.47	PASS
		3	3	22.42	PASS
		6	0	21.45	PASS
	MCH	1	0	22.71	PASS
		1	2	22.71	PASS
		1	5	22.63	PASS
		3	0	22.55	PASS
		3	1	22.60	PASS
		3	3	22.54	PASS

	HCH	6	0	21.55	PASS
		1	0	22.40	PASS
		1	2	22.42	PASS
		1	5	22.35	PASS
		3	0	22.32	PASS
		3	1	22.37	PASS
		3	3	22.32	PASS
		6	0	21.39	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.26	PASS
		1	7	23.41	PASS
		1	14	23.27	PASS
		8	0	22.38	PASS
		8	3	22.40	PASS
		8	7	22.36	PASS
		15	0	22.49	PASS
	MCH	1	0	23.35	PASS
		1	7	23.47	PASS
		1	14	23.33	PASS
		8	0	22.44	PASS
		8	3	22.47	PASS
		8	7	22.42	PASS
		15	0	22.42	PASS
	HCH	1	0	23.24	PASS
		1	7	23.33	PASS
		1	14	23.22	PASS
		8	0	22.32	PASS
		8	3	22.38	PASS
		8	7	22.33	PASS
		15	0	22.36	PASS
16QAM	LCH	1	0	22.58	PASS
		1	7	22.68	PASS
		1	14	22.57	PASS
		8	0	21.52	PASS
		8	3	21.55	PASS
		8	7	21.50	PASS
		15	0	21.54	PASS

	MCH	1	0	22.71	PASS
		1	7	22.84	PASS
		1	14	22.72	PASS
		8	0	21.61	PASS
		8	3	21.64	PASS
		8	7	21.60	PASS
		15	0	21.48	PASS
	HCH	1	0	22.50	PASS
		1	7	22.59	PASS
		1	14	22.36	PASS
		8	0	21.44	PASS
		8	3	21.49	PASS
		8	7	21.44	PASS
		15	0	21.44	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.29	PASS
		1	12	23.28	PASS
		1	24	23.24	PASS
		12	0	22.38	PASS
		12	6	22.43	PASS
		12	13	22.46	PASS
		25	0	22.48	PASS
	MCH	1	0	23.40	PASS
		1	12	23.41	PASS
		1	24	23.36	PASS
		12	0	22.45	PASS
		12	6	22.48	PASS
		12	13	22.44	PASS
		25	0	22.44	PASS
	HCH	1	0	23.25	PASS
		1	12	23.24	PASS
		1	24	23.24	PASS
		12	0	22.34	PASS
		12	6	22.37	PASS
		12	13	22.34	PASS
		25	0	22.36	PASS
16QAM	LCH	1	0	22.60	PASS
		1	12	22.59	PASS

		1	24	22.50	PASS
		12	0	21.63	PASS
		12	6	21.63	PASS
		12	13	21.60	PASS
		25	0	21.57	PASS
	MCH	1	0	22.73	PASS
		1	12	22.75	PASS
		1	24	22.69	PASS
		12	0	21.64	PASS
		12	6	21.63	PASS
		12	13	21.59	PASS
		25	0	21.54	PASS
	HCH	1	0	22.49	PASS
		1	12	22.50	PASS
		1	24	22.41	PASS
		12	0	21.44	PASS
		12	6	21.46	PASS
		12	13	21.44	PASS
		25	0	21.42	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.41	PASS
		1	24	23.35	PASS
		1	49	23.33	PASS
		25	0	22.53	PASS
		25	12	22.52	PASS
		25	25	22.48	PASS
		50	0	22.51	PASS
	MCH	1	0	23.50	PASS
		1	24	23.45	PASS
		1	49	23.43	PASS
		25	0	22.48	PASS
		25	12	22.48	PASS
		25	25	22.44	PASS
		50	0	22.48	PASS
	HCH	1	0	23.32	PASS
		1	24	23.30	PASS
		1	49	23.23	PASS
		25	0	22.39	PASS

16QAM		25	12	22.42	PASS
		25	25	22.34	PASS
		50	0	22.37	PASS
	LCH	1	0	22.85	PASS
		1	24	22.68	PASS
		1	49	22.64	PASS
		25	0	21.63	PASS
		25	12	21.60	PASS
		25	25	21.56	PASS
		50	0	21.59	PASS
	MCH	1	0	22.82	PASS
		1	24	22.82	PASS
		1	49	22.74	PASS
		25	0	21.58	PASS
		25	12	21.59	PASS
		25	25	21.57	PASS
		50	0	21.57	PASS
	HCH	1	0	22.46	PASS
		1	24	22.51	PASS
		1	49	22.45	PASS
		25	0	21.44	PASS
		25	12	21.46	PASS
		25	25	21.44	PASS
		50	0	21.44	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.32	PASS
		1	37	23.26	PASS
		1	74	23.20	PASS
		36	0	22.49	PASS
		36	19	22.51	PASS
		36	39	22.42	PASS
		75	0	22.48	PASS
	MCH	1	0	23.40	PASS
		1	37	23.36	PASS
		1	74	23.31	PASS
		36	0	22.45	PASS
		36	19	22.47	PASS
		36	39	22.45	PASS

	HCH	75	0	22.44	PASS
		1	0	23.28	PASS
		1	37	23.23	PASS
		1	74	23.23	PASS
		36	0	22.35	PASS
		36	19	22.38	PASS
		36	39	22.34	PASS
		75	0	22.37	PASS
16QAM	LCH	1	0	22.58	PASS
		1	37	22.52	PASS
		1	74	22.47	PASS
		36	0	21.55	PASS
		36	19	21.62	PASS
		36	39	21.51	PASS
		75	0	21.53	PASS
	MCH	1	0	22.71	PASS
		1	37	22.73	PASS
		1	74	22.61	PASS
		36	0	21.59	PASS
		36	19	21.63	PASS
		36	39	21.58	PASS
		75	0	21.55	PASS
	HCH	1	0	22.46	PASS
		1	37	22.46	PASS
		1	74	22.44	PASS
		36	0	21.40	PASS
		36	19	21.44	PASS
		36	39	21.44	PASS
		75	0	21.42	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	23.44	PASS
		1	49	23.39	PASS
		1	99	23.42	PASS
		50	0	22.51	PASS
		50	25	22.51	PASS
		50	50	22.53	PASS
		100	0	22.54	PASS
	MCH	1	0	23.41	PASS



		1	49	23.41	PASS
		1	99	23.32	PASS
		50	0	22.45	PASS
		50	25	22.47	PASS
		50	50	22.43	PASS
		100	0	22.46	PASS
	HCH	1	0	23.27	PASS
		1	49	23.26	PASS
		1	99	23.21	PASS
		50	0	22.39	PASS
		50	25	22.39	PASS
		50	50	22.35	PASS
		100	0	22.39	PASS
16QAM	LCH	1	0	22.72	PASS
		1	49	22.63	PASS
		1	99	22.72	PASS
		50	0	21.59	PASS
		50	25	21.59	PASS
		50	50	21.60	PASS
		100	0	21.61	PASS
	MCH	1	0	22.74	PASS
		1	49	22.75	PASS
		1	99	22.62	PASS
		50	0	21.58	PASS
		50	25	21.60	PASS
		50	50	21.55	PASS
		100	0	21.56	PASS
	HCH	1	0	22.62	PASS
		1	49	22.48	PASS
		1	99	22.46	PASS
		50	0	21.46	PASS
		50	25	21.44	PASS
		50	50	21.42	PASS
		100	0	21.42	PASS

Appendix B: Peak-to-Average Ratio

Test Result

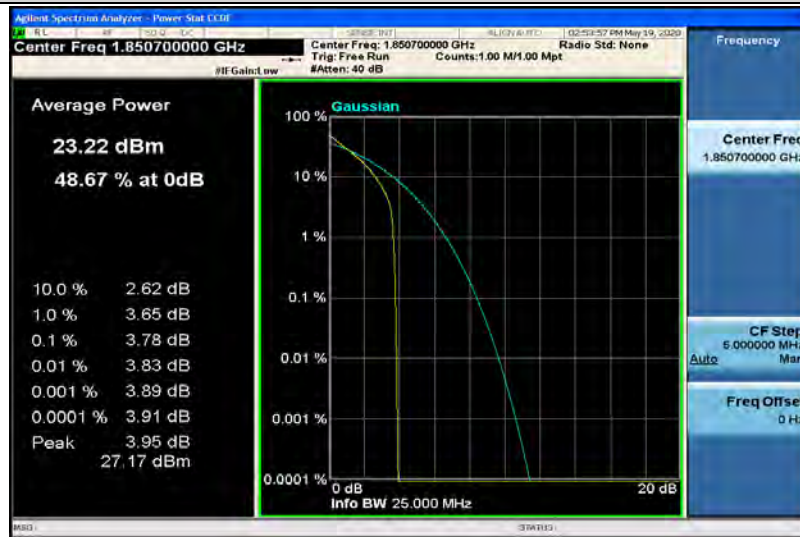
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	3.78	13	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	4.05	13	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	3.34	13	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	5.00	13	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	5.60	13	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	4.48	13	PASS
Band2	3MHz	QPSK	18615	1RB#0	3.50	13	PASS
Band2	3MHz	QPSK	18900	1RB#0	3.84	13	PASS
Band2	3MHz	QPSK	19185	1RB#0	3.33	13	PASS
Band2	3MHz	16QAM	18615	1RB#0	4.82	13	PASS
Band2	3MHz	16QAM	18900	1RB#0	5.32	13	PASS
Band2	3MHz	16QAM	19185	1RB#0	4.60	13	PASS
Band2	5MHz	QPSK	18625	1RB#0	3.44	13	PASS
Band2	5MHz	QPSK	18900	1RB#0	3.80	13	PASS
Band2	5MHz	QPSK	19175	1RB#0	3.28	13	PASS
Band2	5MHz	16QAM	18625	1RB#0	4.77	13	PASS
Band2	5MHz	16QAM	18900	1RB#0	5.30	13	PASS
Band2	5MHz	16QAM	19175	1RB#0	4.49	13	PASS
Band2	10MHz	QPSK	18650	1RB#0	3.40	13	PASS
Band2	10MHz	QPSK	18900	1RB#0	3.67	13	PASS
Band2	10MHz	QPSK	19150	1RB#0	2.91	13	PASS
Band2	10MHz	16QAM	18650	1RB#0	4.68	13	PASS
Band2	10MHz	16QAM	18900	1RB#0	5.14	13	PASS
Band2	10MHz	16QAM	19150	1RB#0	4.12	13	PASS
Band2	15MHz	QPSK	18675	1RB#0	3.37	13	PASS
Band2	15MHz	QPSK	18900	1RB#0	3.61	13	PASS
Band2	15MHz	QPSK	19125	1RB#0	2.97	13	PASS
Band2	15MHz	16QAM	18675	1RB#0	4.70	13	PASS
Band2	15MHz	16QAM	18900	1RB#0	5.00	13	PASS
Band2	15MHz	16QAM	19125	1RB#0	4.26	13	PASS
Band2	20MHz	QPSK	18700	1RB#0	3.35	13	PASS
Band2	20MHz	QPSK	18900	1RB#0	3.49	13	PASS
Band2	20MHz	QPSK	19100	1RB#0	3.33	13	PASS
Band2	20MHz	16QAM	18700	1RB#0	4.70	13	PASS
Band2	20MHz	16QAM	18900	1RB#0	4.88	13	PASS



Band2	20MHz	16QAM	19100	1RB#0	4.74	13	PASS
-------	-------	-------	-------	-------	------	----	------

Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



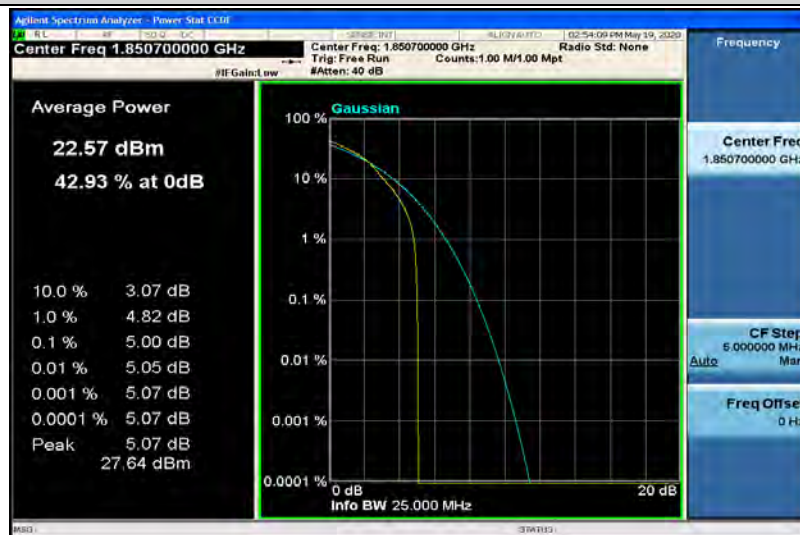
Band2-1.4MHz-QPSK-18900-1RB#0



Band2-1.4MHz-QPSK-19193-1RB#0



Band2-1.4MHz-16QAM-18607-1RB#0



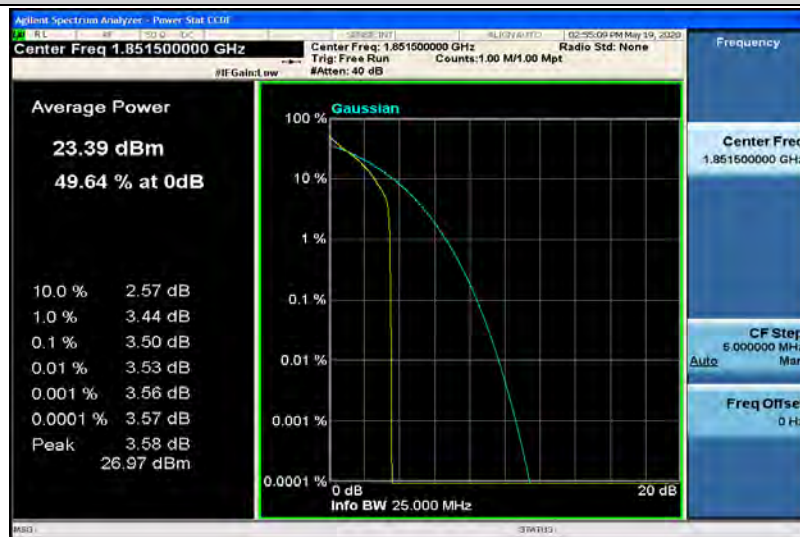
Band2-1.4MHz-16QAM-18900-1RB#0



Band2-1.4MHz-16QAM-19193-1RB#0



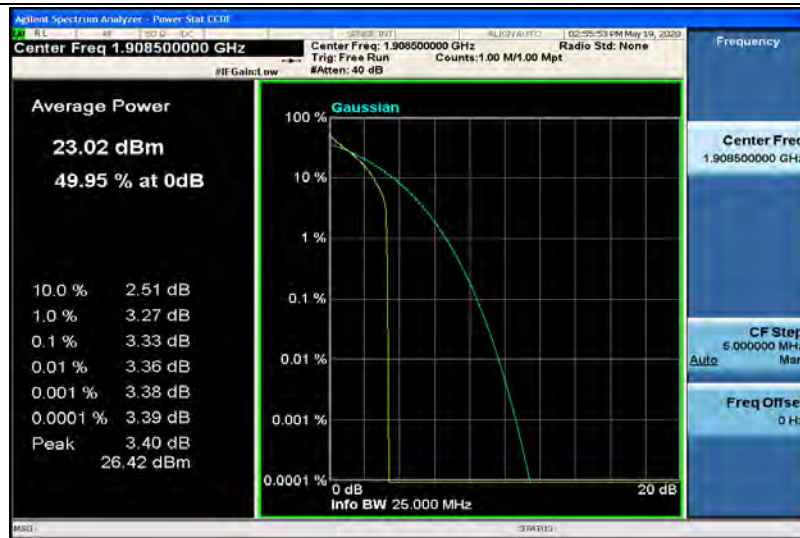
Band2-3MHz-QPSK-18615-1RB#0



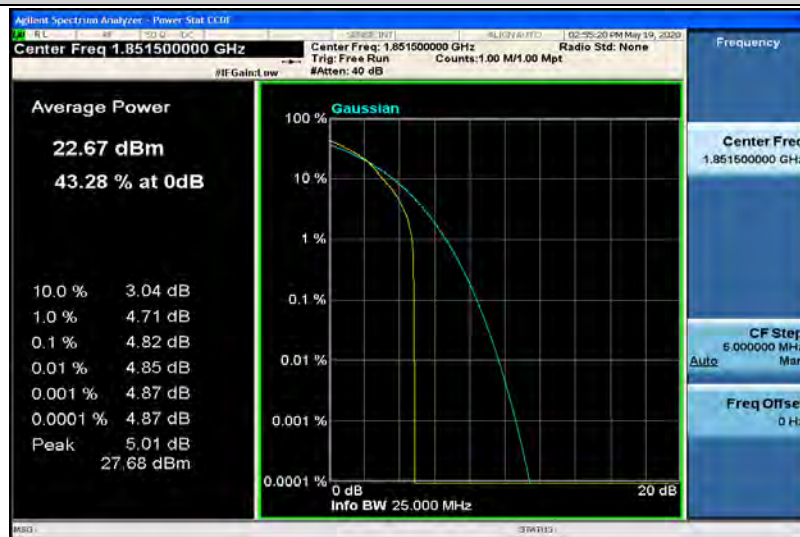
Band2-3MHz-QPSK-18900-1RB#0



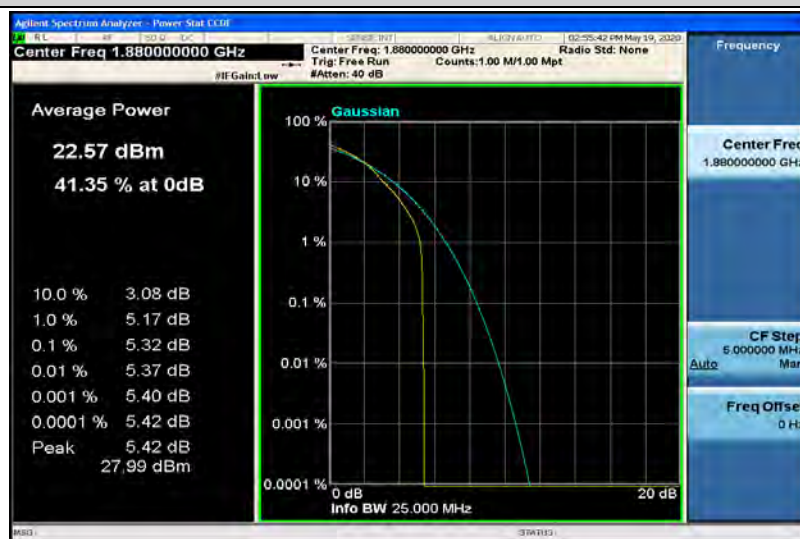
Band2-3MHz-QPSK-19185-1RB#0



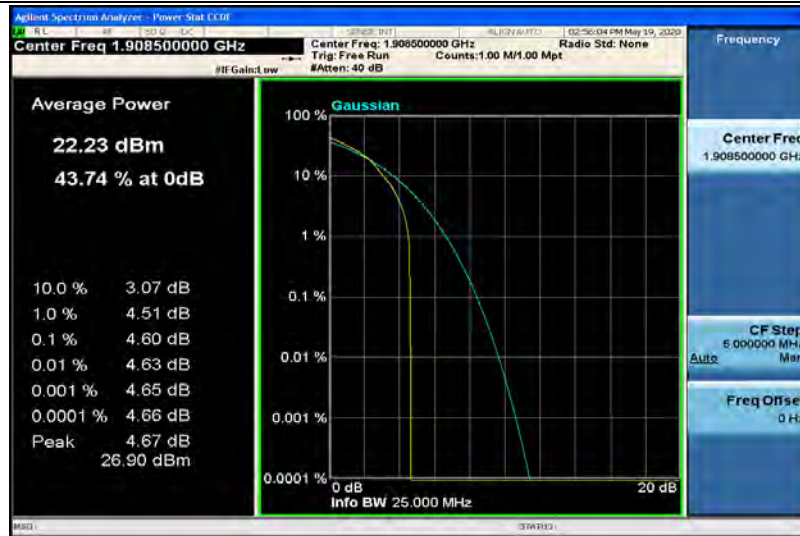
Band2-3MHz-16QAM-18615-1RB#0



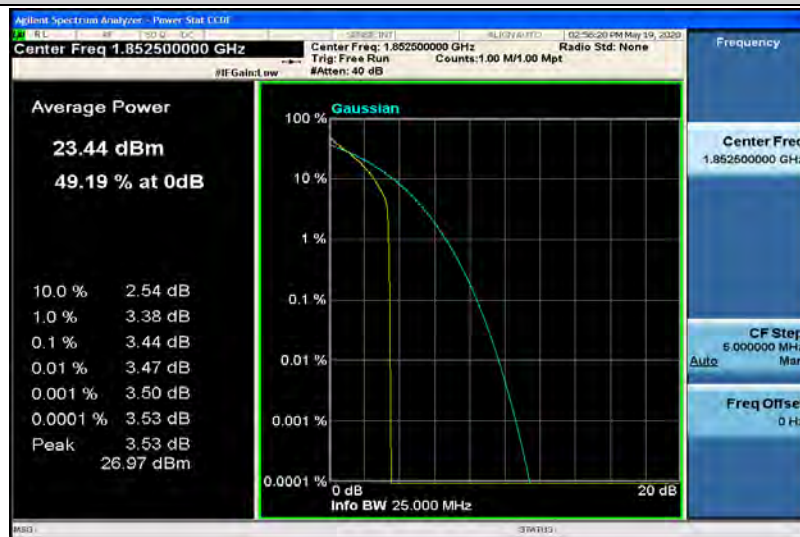
Band2-3MHz-16QAM-18900-1RB#0



Band2-3MHz-16QAM-19185-1RB#0



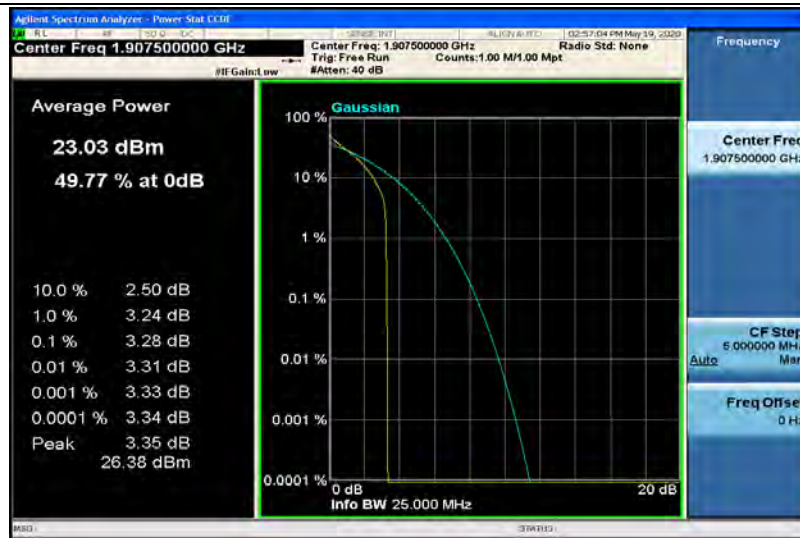
Band2-5MHz-QPSK-18625-1RB#0



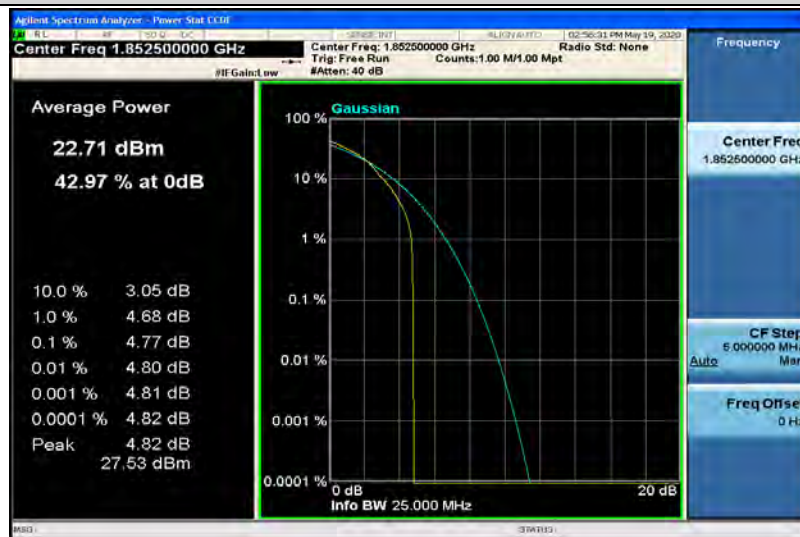
Band2-5MHz-QPSK-18900-1RB#0



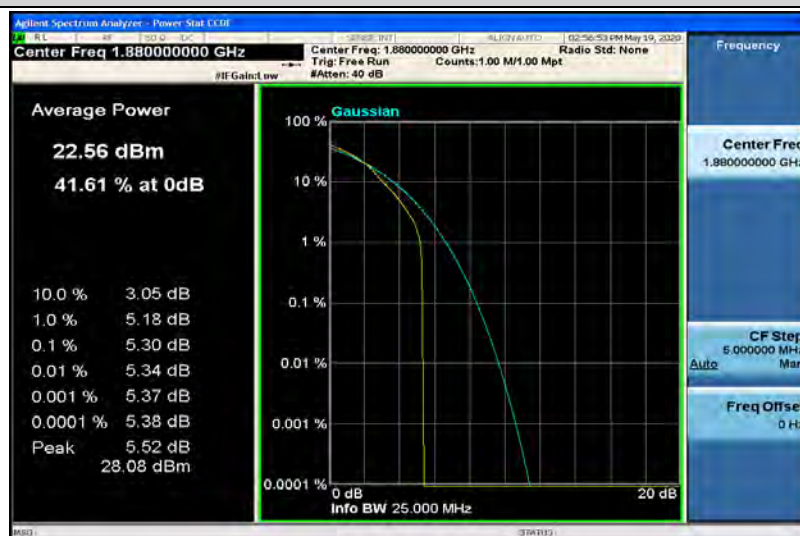
Band2-5MHz-QPSK-19175-1RB#0



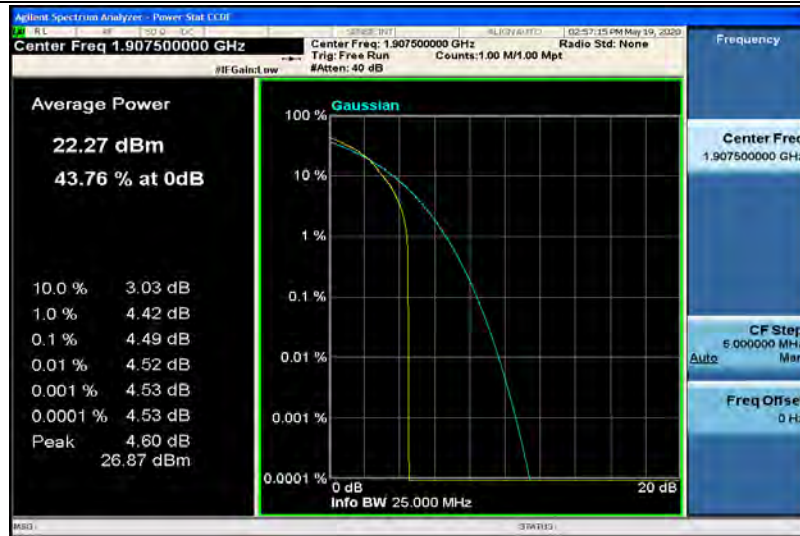
Band2-5MHz-16QAM-18625-1RB#0



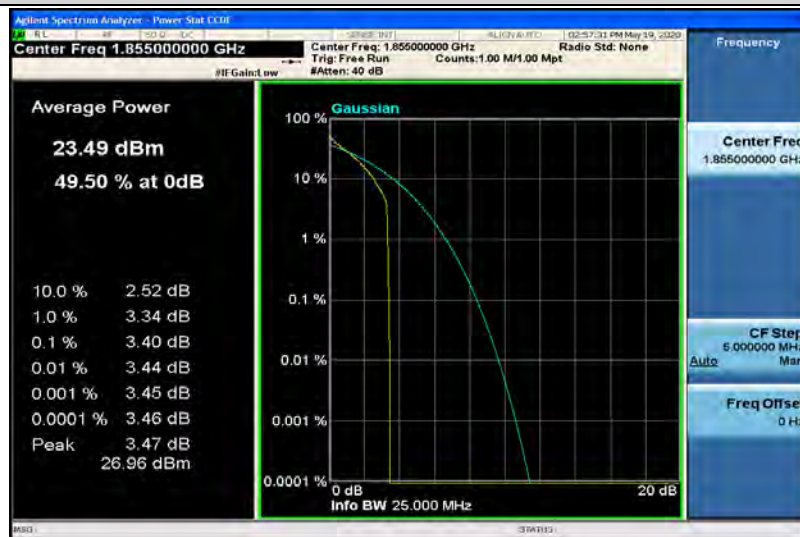
Band2-5MHz-16QAM-18900-1RB#0



Band2-5MHz-16QAM-19175-1RB#0



Band2-10MHz-QPSK-18650-1RB#0



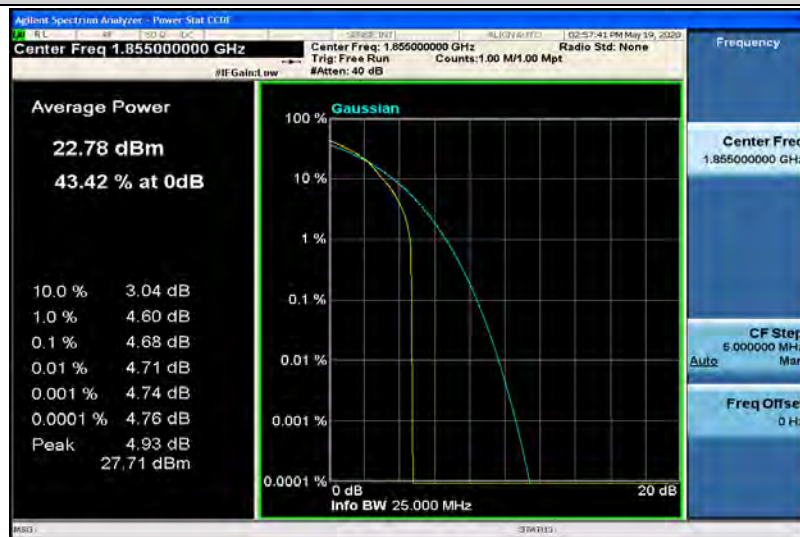
Band2-10MHz-QPSK-18900-1RB#0



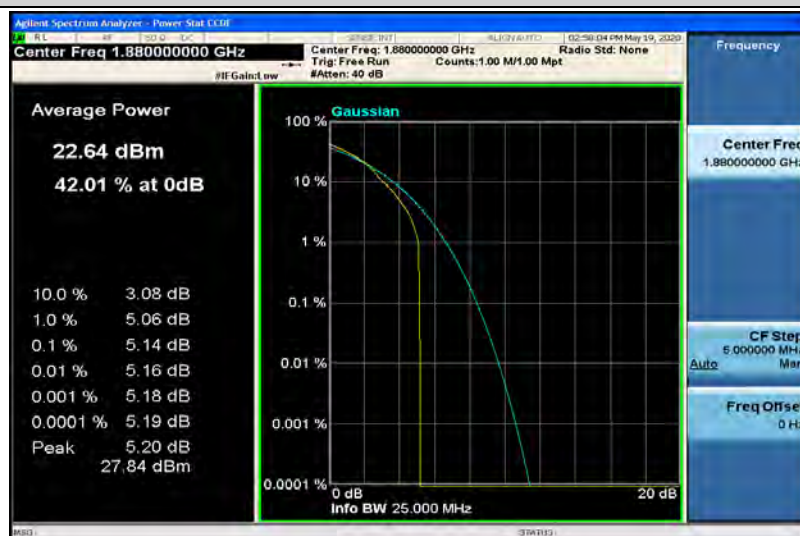
Band2-10MHz-QPSK-19150-1RB#0



Band2-10MHz-16QAM-18650-1RB#0



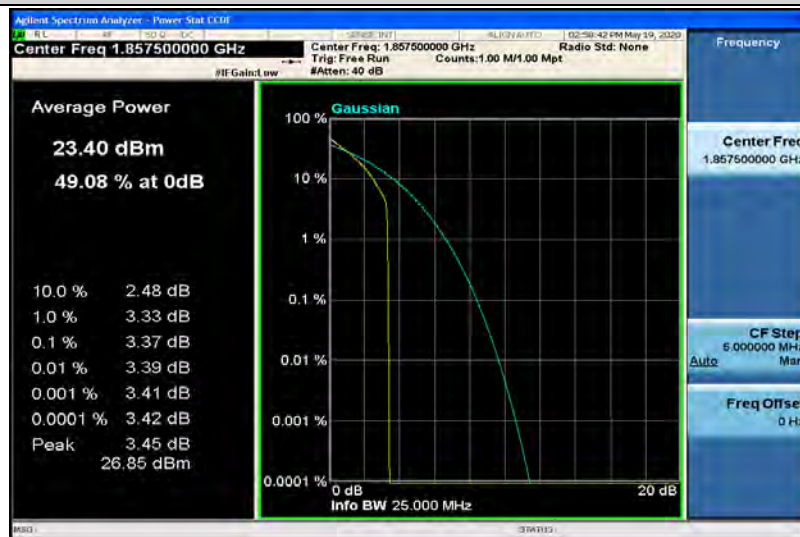
Band2-10MHz-16QAM-18900-1RB#0



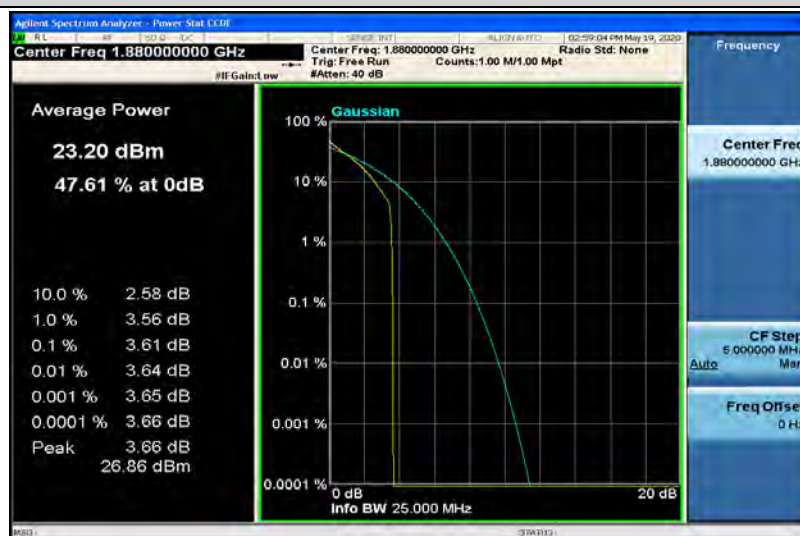
Band2-10MHz-16QAM-19150-1RB#0



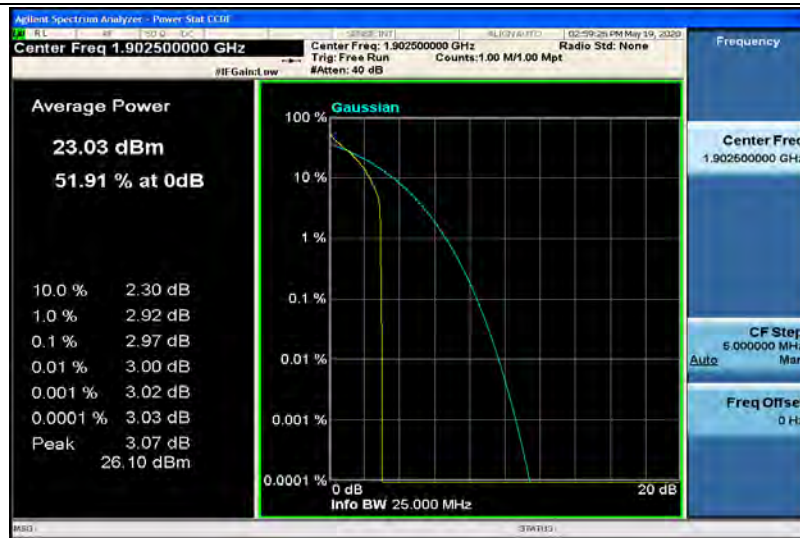
Band2-15MHz-QPSK-18675-1RB#0



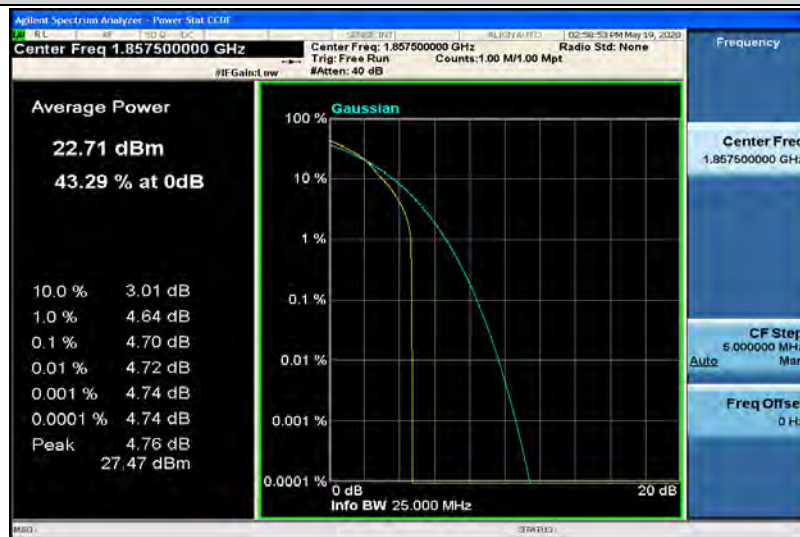
Band2-15MHz-QPSK-18900-1RB#0



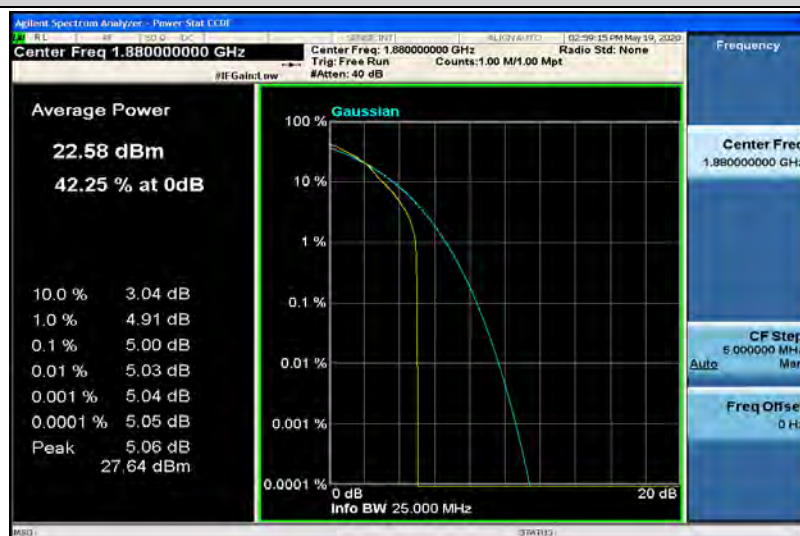
Band2-15MHz-QPSK-19125-1RB#0



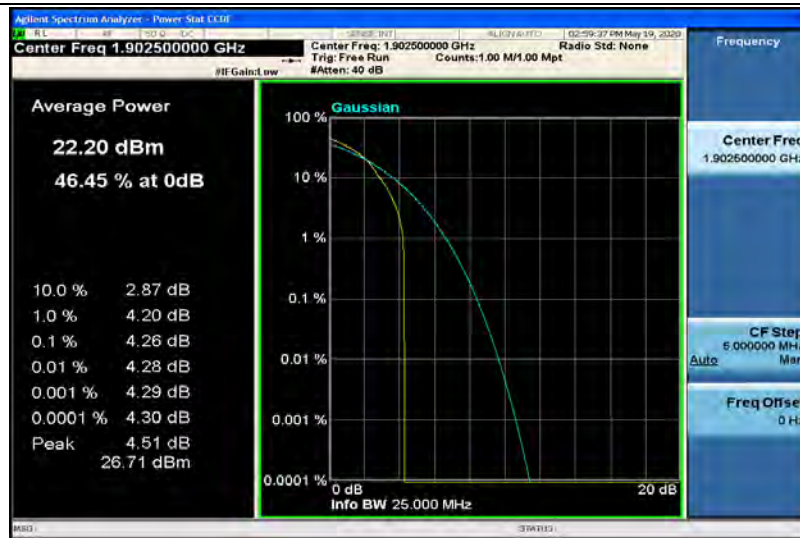
Band2-15MHz-16QAM-18675-1RB#0



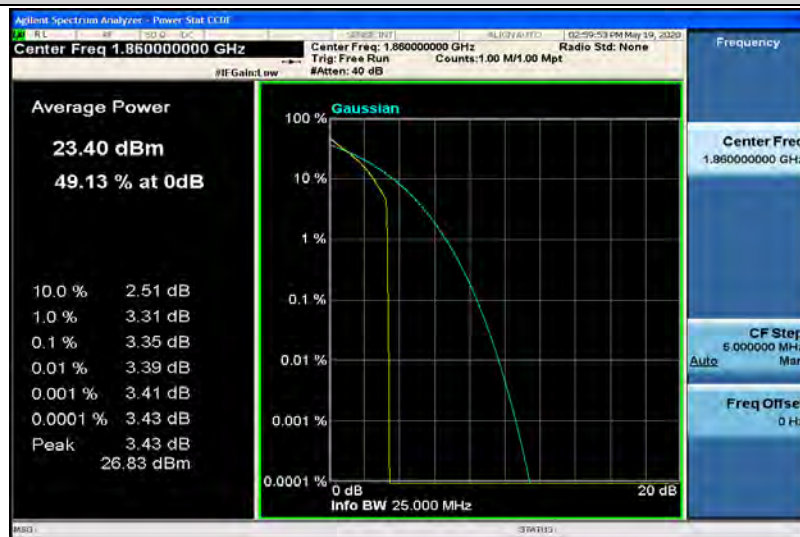
Band2-15MHz-16QAM-18900-1RB#0



Band2-15MHz-16QAM-19125-1RB#0



Band2-20MHz-QPSK-18700-1RB#0



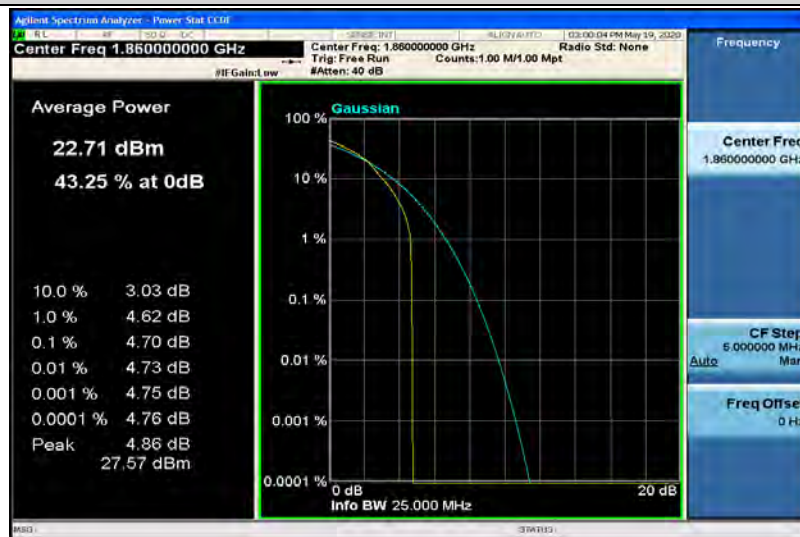
Band2-20MHz-QPSK-18900-1RB#0



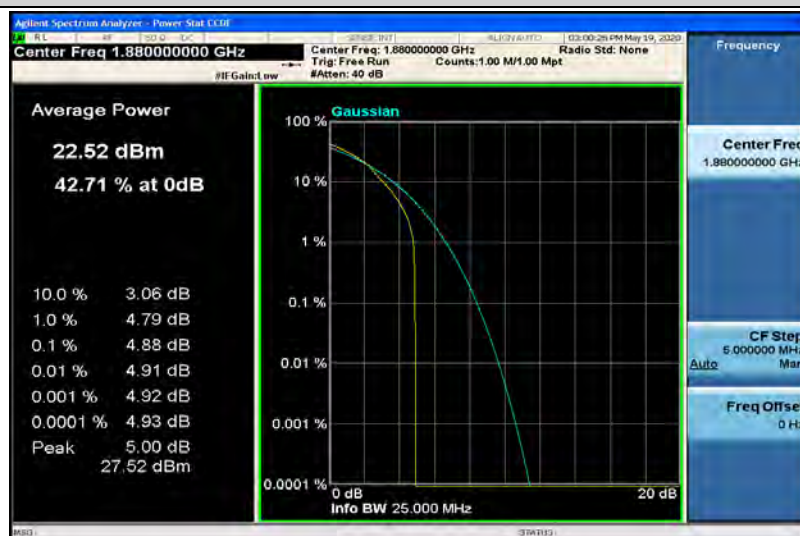
Band2-20MHz-QPSK-19100-1RB#0



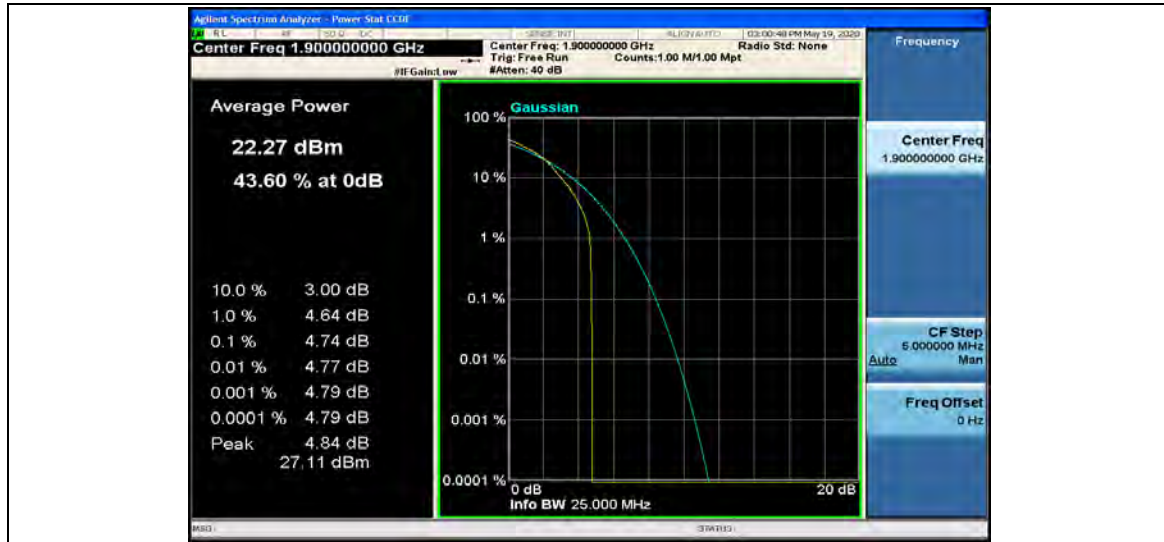
Band2-20MHz-16QAM-18700-1RB#0



Band2-20MHz-16QAM-18900-1RB#0



Band2-20MHz-16QAM-19100-1RB#0



Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.0896	1.227	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.0883	1.226	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.0894	1.237	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.0882	1.229	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.0885	1.227	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.0885	1.228	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.6991	2.952	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.7002	2.947	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.7005	2.941	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.6955	2.922	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.6949	2.936	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.6935	2.940	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.4961	4.854	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.4976	4.868	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.4984	4.861	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.5132	4.886	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.5106	4.890	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.5104	4.869	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.9768	9.576	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.9703	9.546	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.9617	9.549	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.9825	9.574	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.9731	9.524	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.9601	9.550	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.476	14.31	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.478	14.28	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.464	14.28	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.469	14.28	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.463	14.27	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.456	14.26	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.936	18.99	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.931	18.99	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.933	19.01	PASS

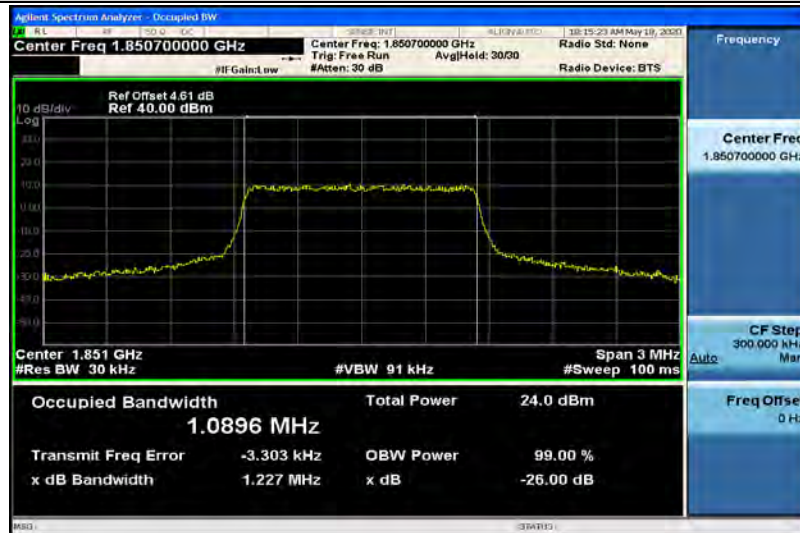


Band2	20MHz	16QAM	18700	100RB#0	17.944	18.98	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.930	18.99	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.953	18.98	PASS

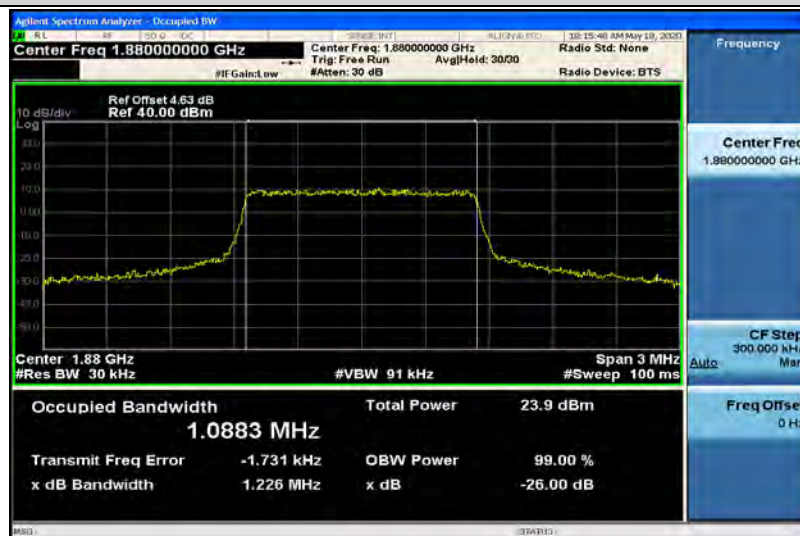


Test Graphs

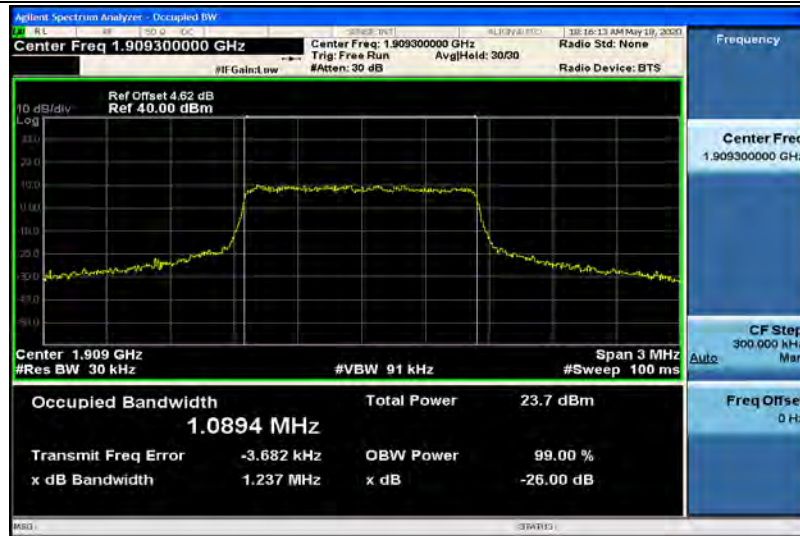
Band2-1.4MHz-QPSK-18607-6RB#0-1.0896



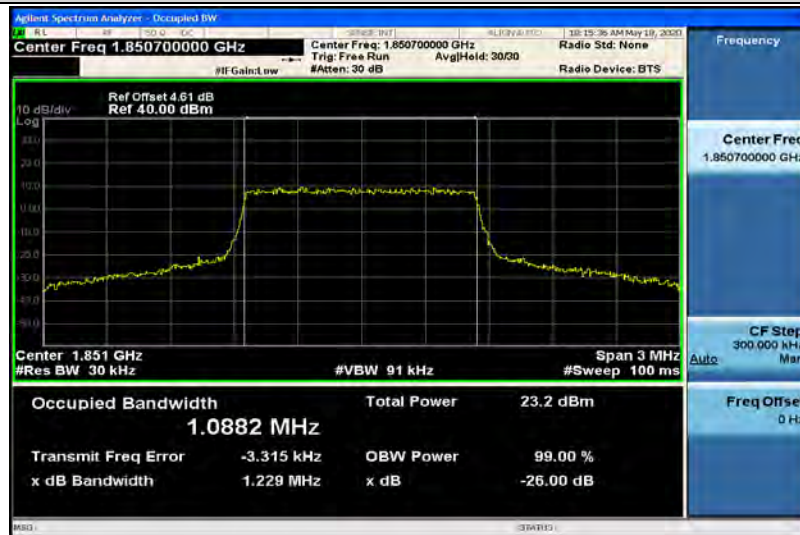
Band2-1.4MHz-QPSK-18900-6RB#0-1.0883



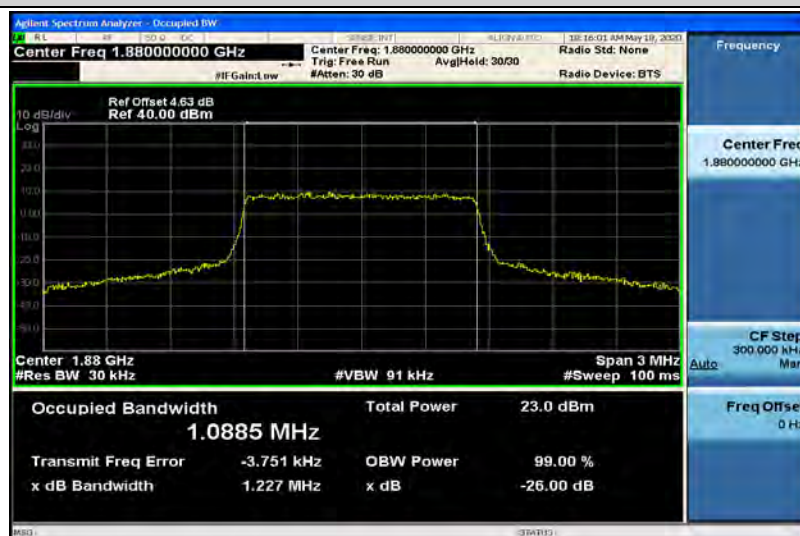
Band2-1.4MHz-QPSK-19193-6RB#0-1.0894



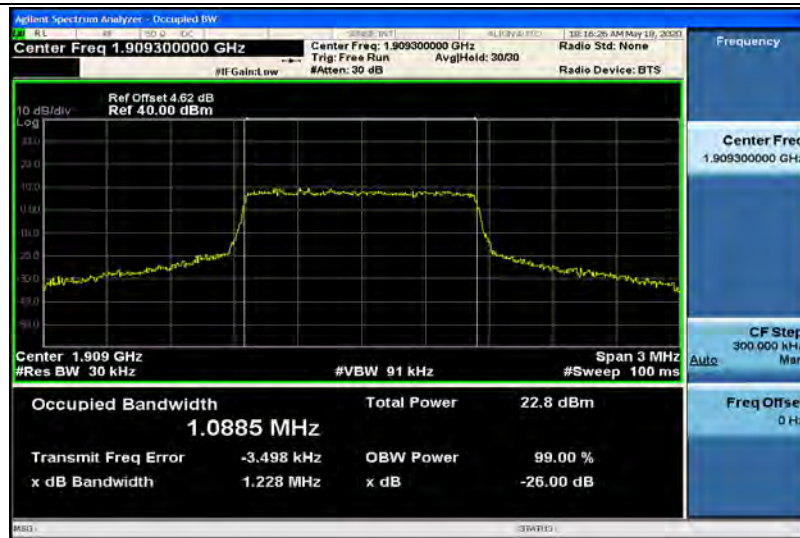
Band2-1.4MHz-16QAM-18607-6RB#0-1.0882



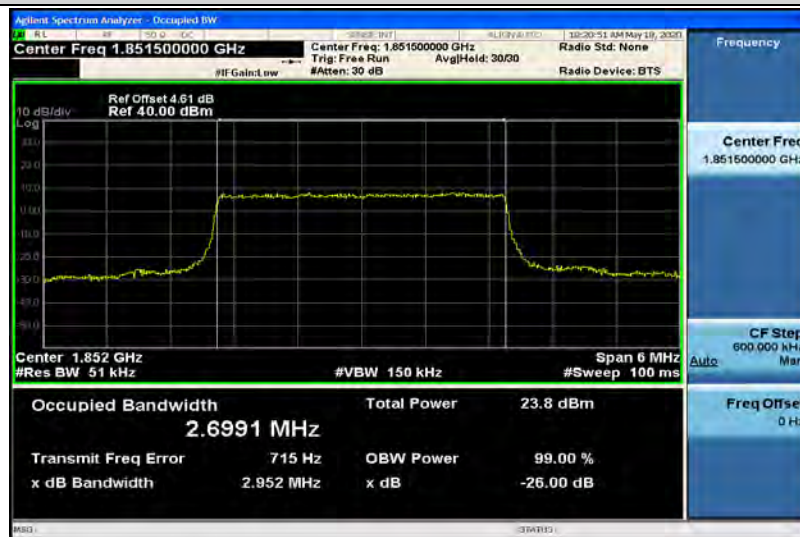
Band2-1.4MHz-16QAM-18900-6RB#0-1.0885



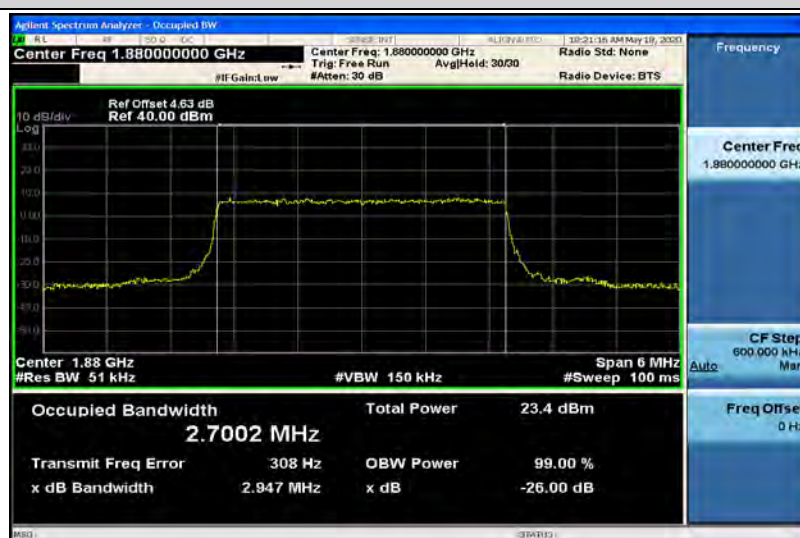
Band2-1.4MHz-16QAM-19193-6RB#0-1.0885



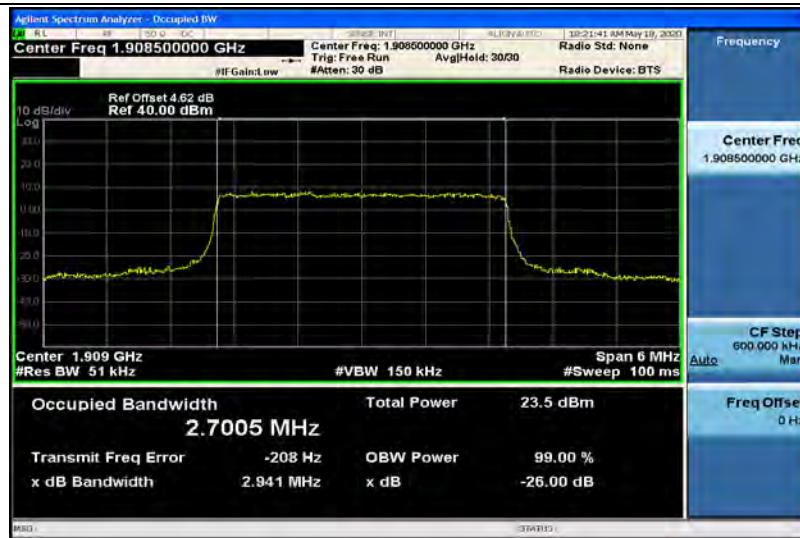
Band2-3MHz-QPSK-18615-15RB#0-2.6991



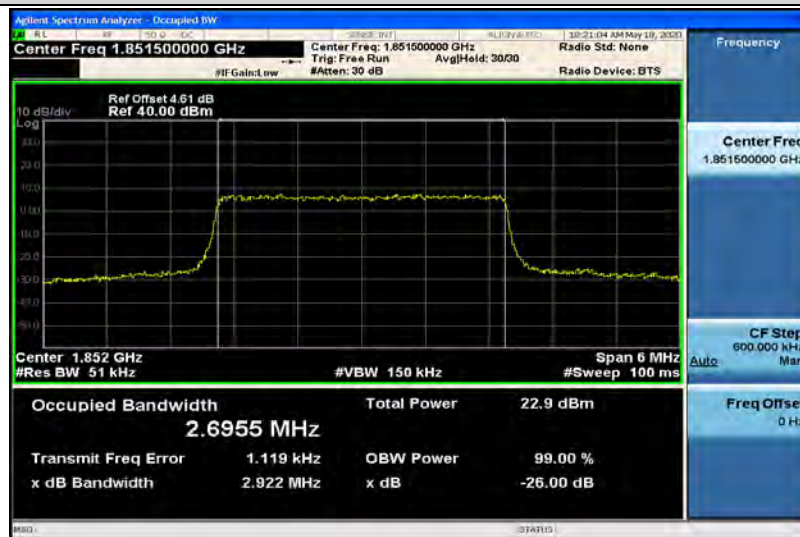
Band2-3MHz-QPSK-18900-15RB#0-2.7002



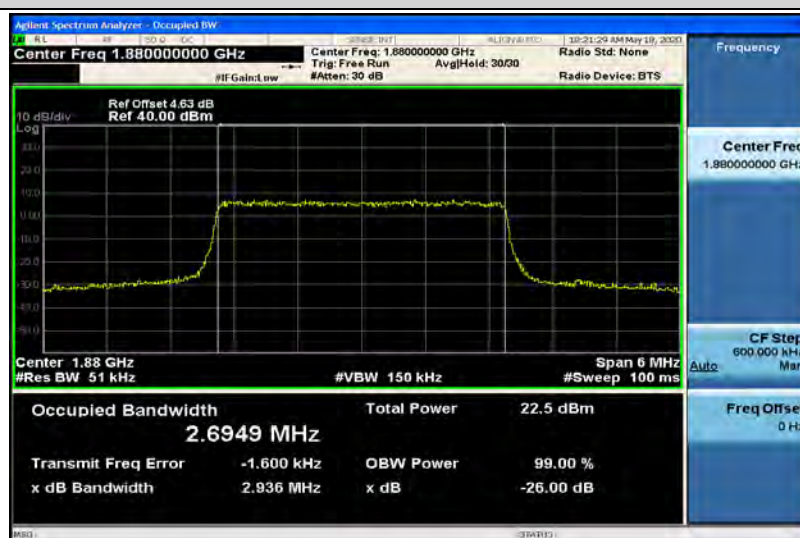
Band2-3MHz-QPSK-19185-15RB#0-2.7005



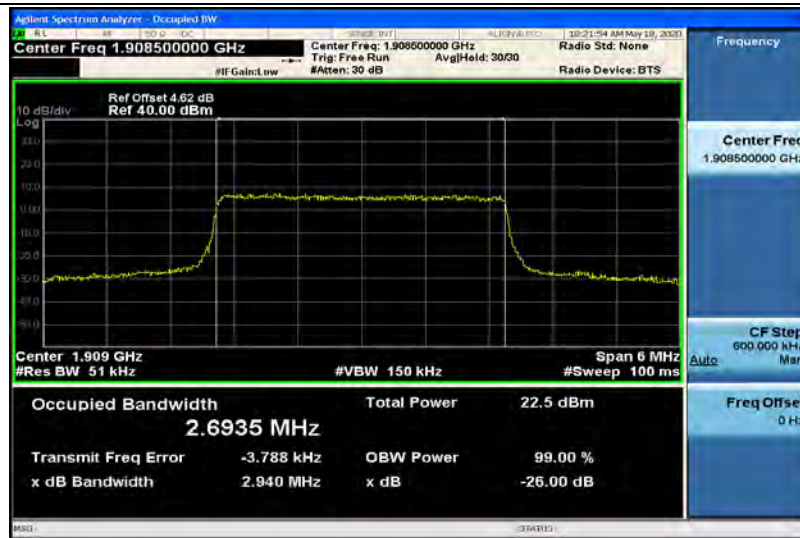
Band2-3MHz-16QAM-18615-15RB#0-2.6955



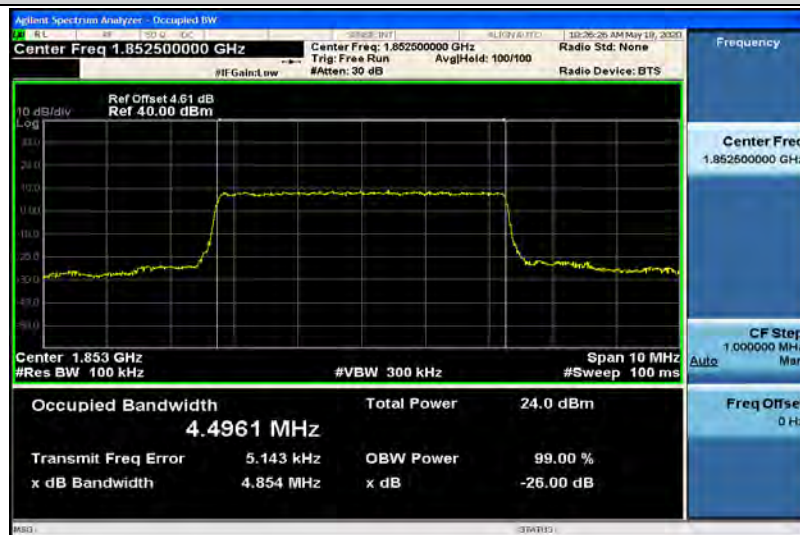
Band2-3MHz-16QAM-18900-15RB#0-2.6949



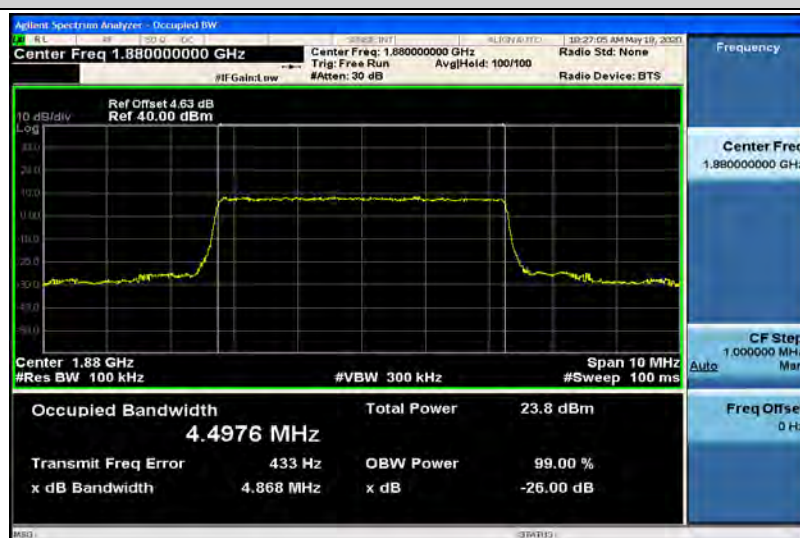
Band2-3MHz-16QAM-19185-15RB#0-2.6935



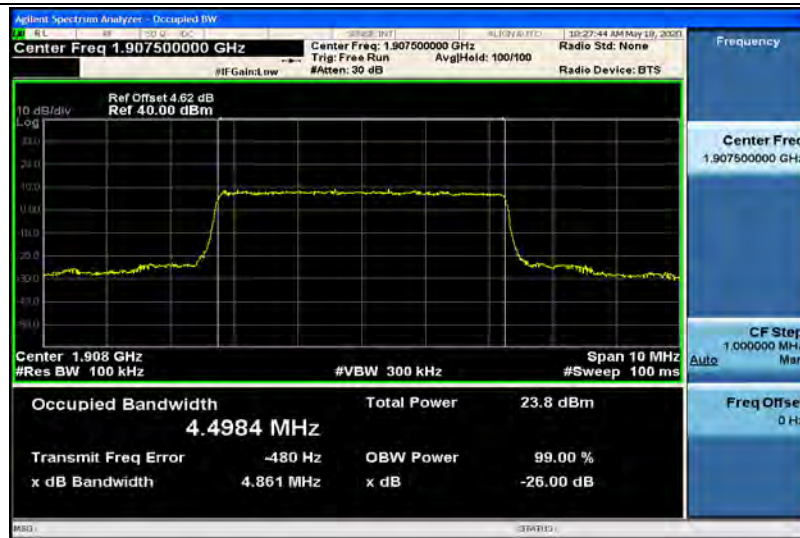
Band2-5MHz-QPSK-18625-25RB#0-4.4961



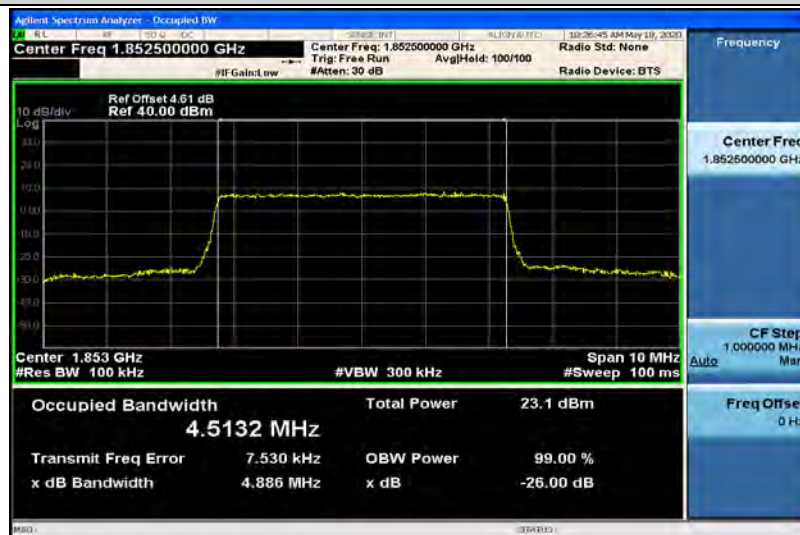
Band2-5MHz-QPSK-18900-25RB#0-4.4976



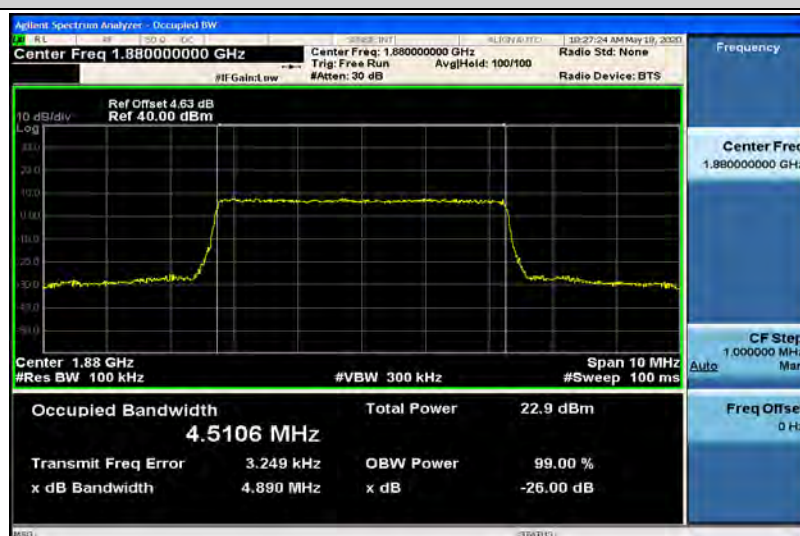
Band2-5MHz-QPSK-19175-25RB#0-4.4984



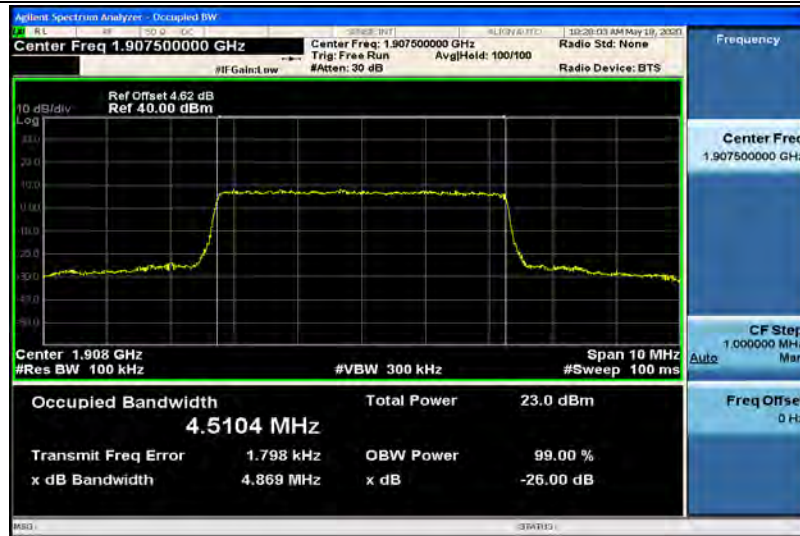
Band2-5MHz-16QAM-18625-25RB#0-4.5132



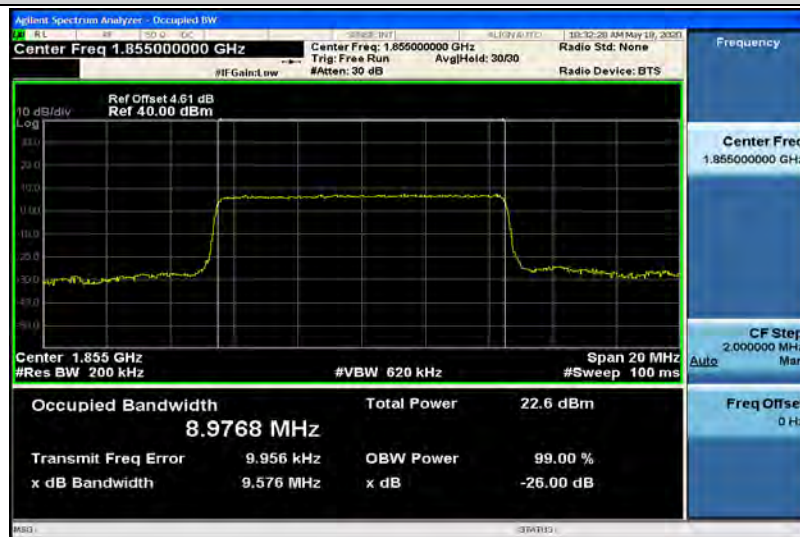
Band2-5MHz-16QAM-18900-25RB#0-4.5106



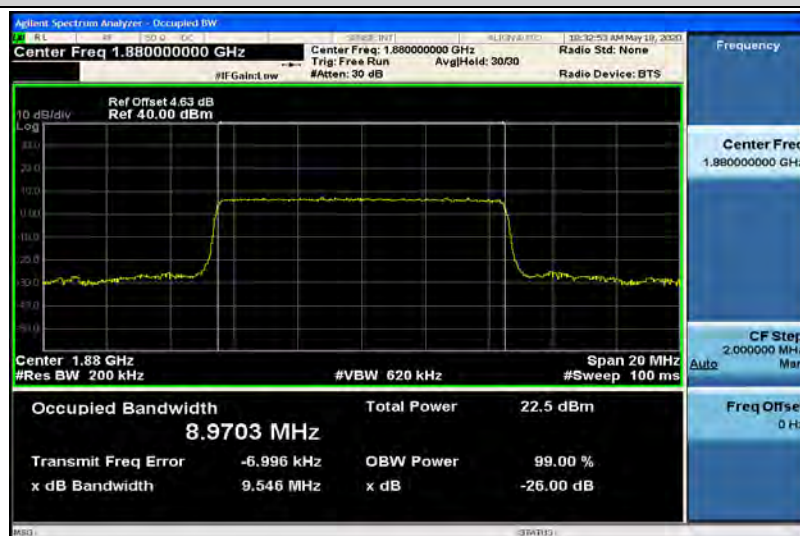
Band2-5MHz-16QAM-19175-25RB#0-4.5104



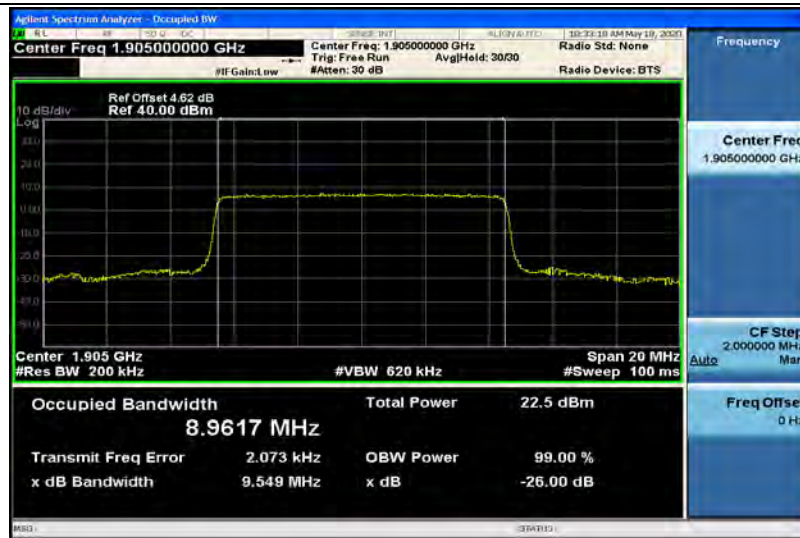
Band2-10MHz-QPSK-18650-50RB#0-8.9768



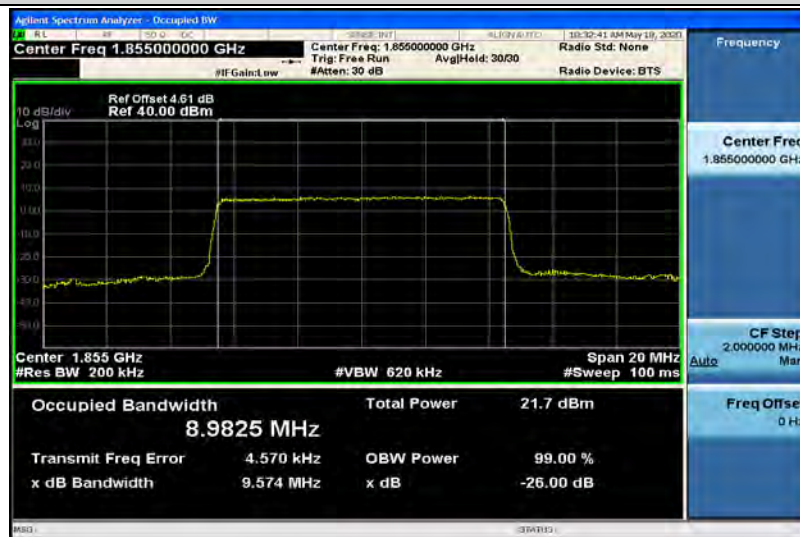
Band2-10MHz-QPSK-18900-50RB#0-8.9703



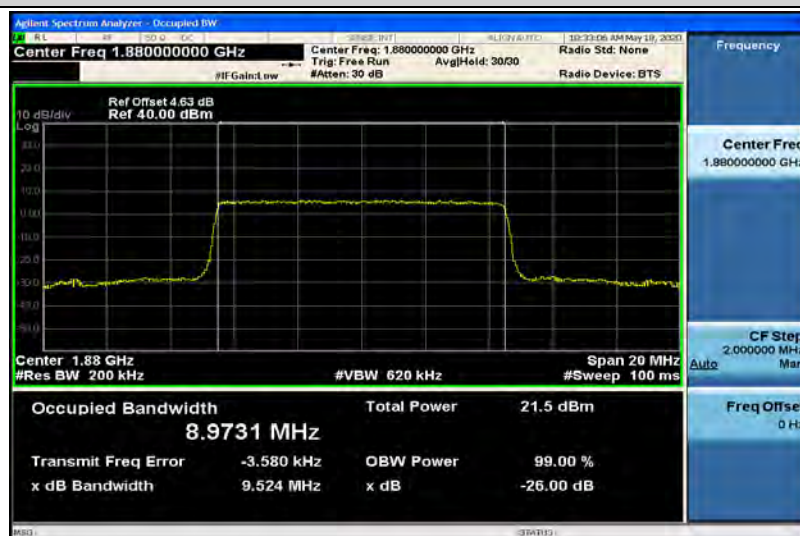
Band2-10MHz-QPSK-19150-50RB#0-8.9617



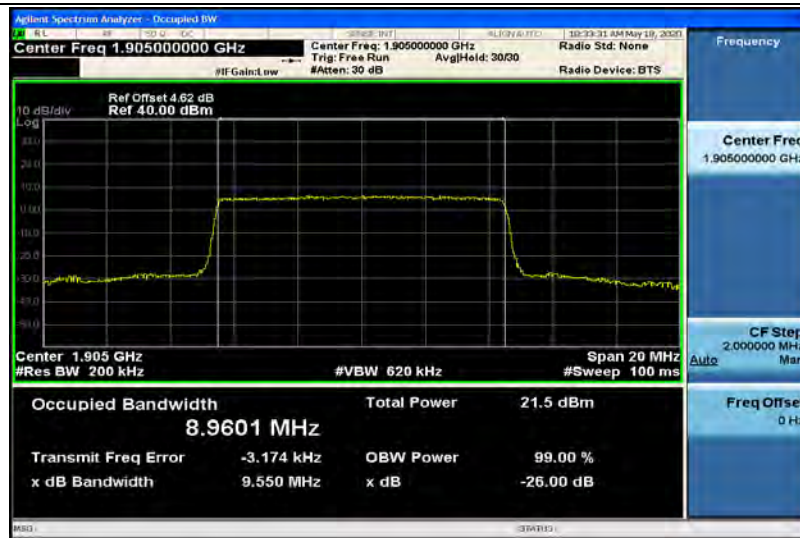
Band2-10MHz-16QAM-18650-50RB#0-8.9825



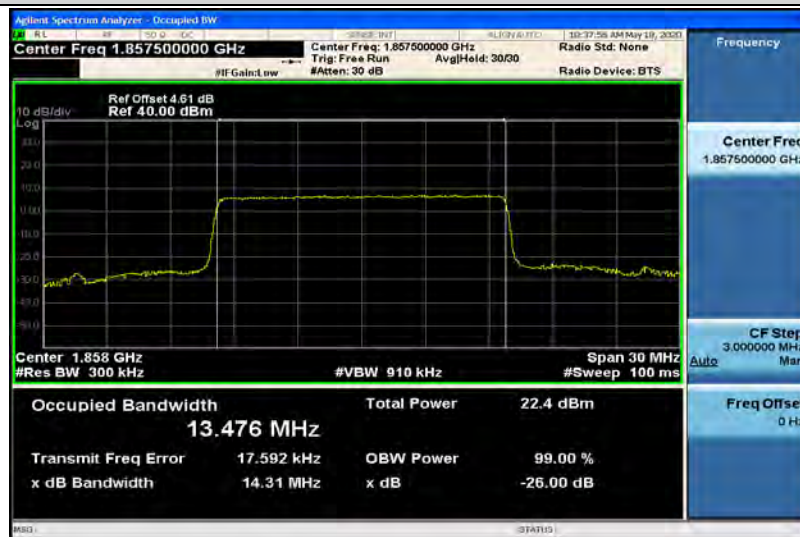
Band2-10MHz-16QAM-18900-50RB#0-8.9731



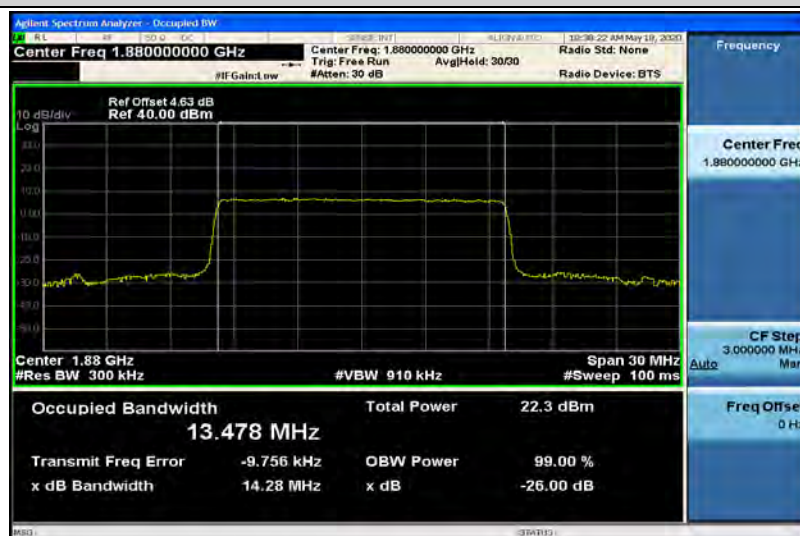
Band2-10MHz-16QAM-19150-50RB#0-8.9601



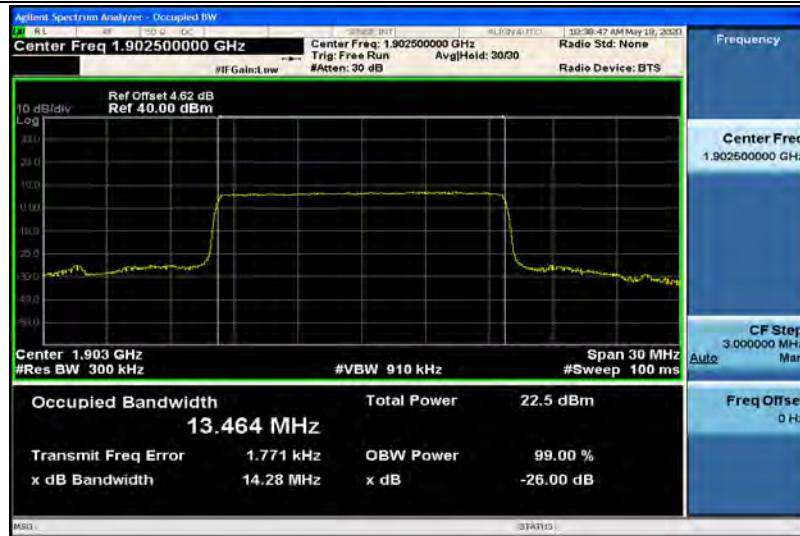
Band2-15MHz-QPSK-18675-75RB#0-13.476



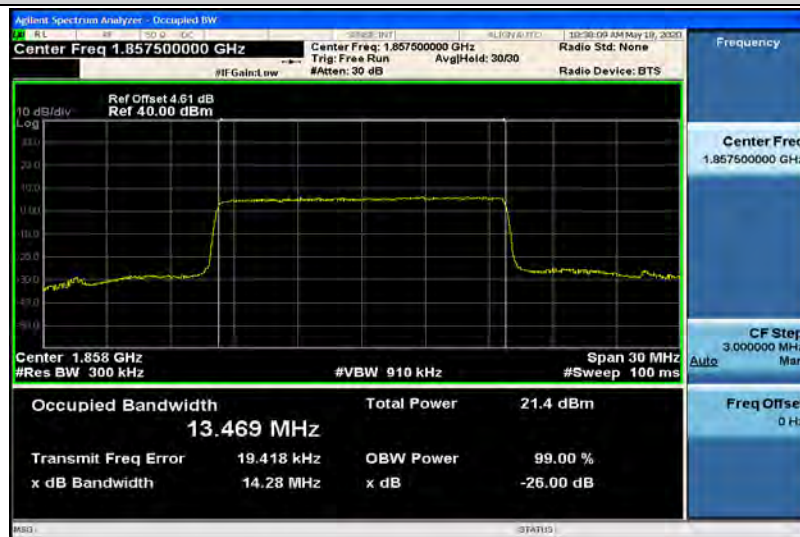
Band2-15MHz-QPSK-18900-75RB#0-13.478



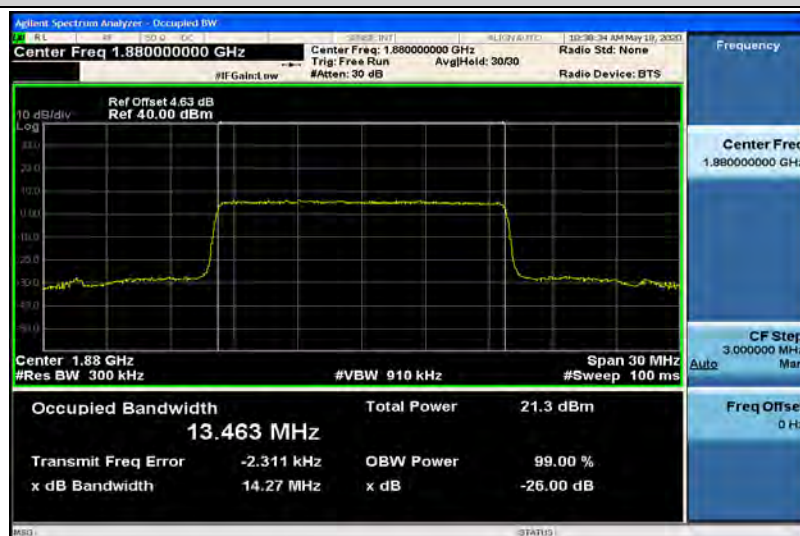
Band2-15MHz-QPSK-19125-75RB#0-13.464



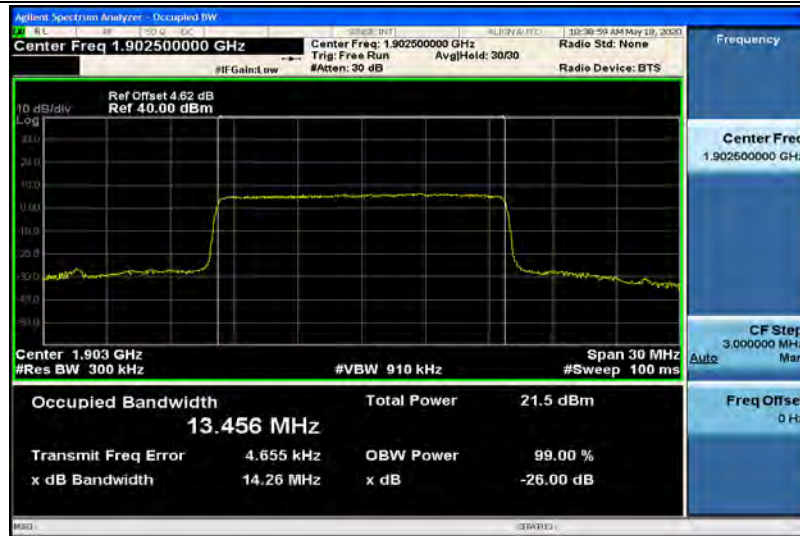
Band2-15MHz-16QAM-18675-75RB#0-13.469



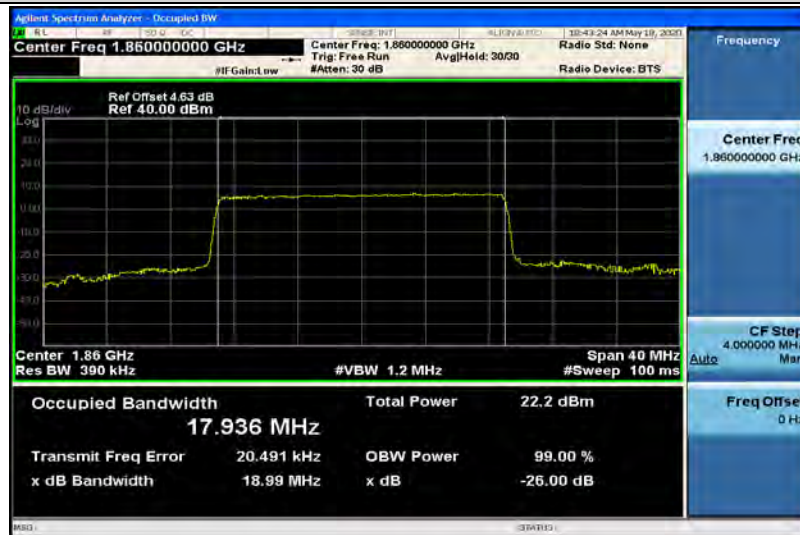
Band2-15MHz-16QAM-18900-75RB#0-13.463



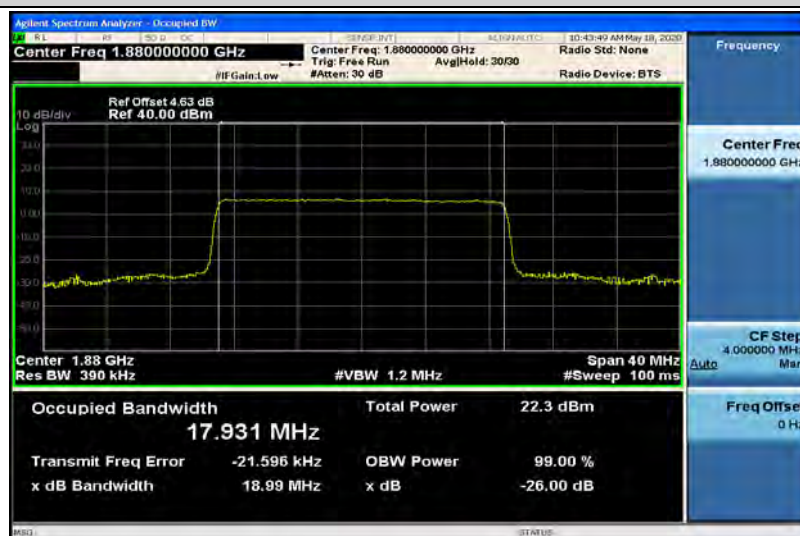
Band2-15MHz-16QAM-19125-75RB#0-13.456



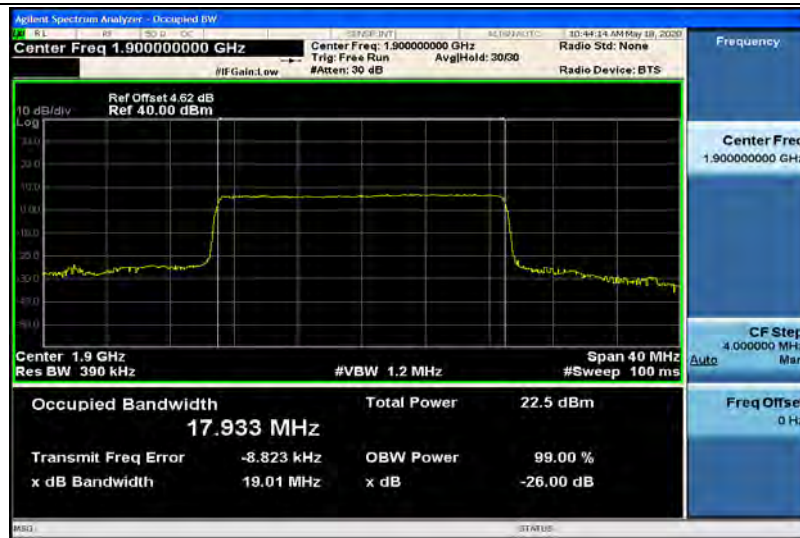
Band2-20MHz-QPSK-18700-100RB#0-17.936



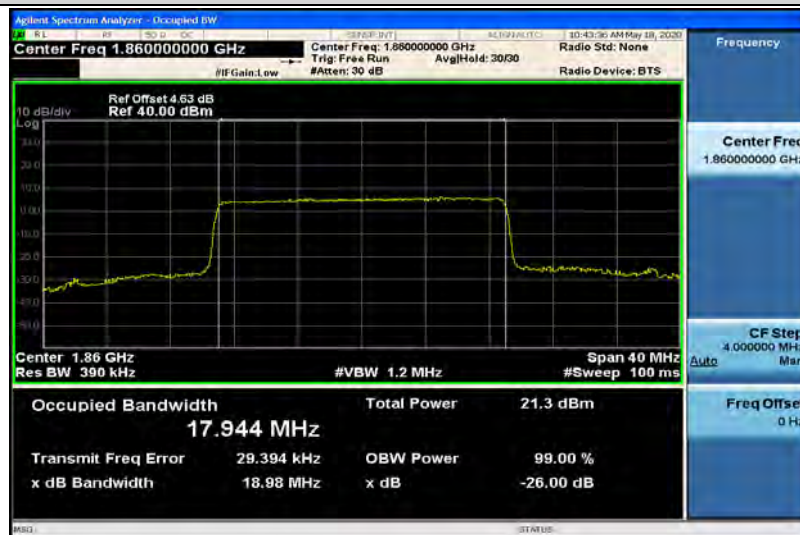
Band2-20MHz-QPSK-18900-100RB#0-17.931



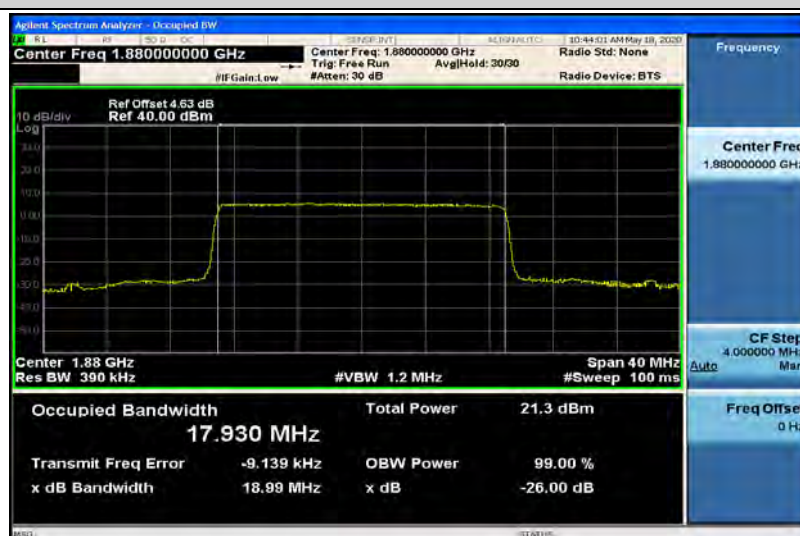
Band2-20MHz-QPSK-19100-100RB#0-17.933



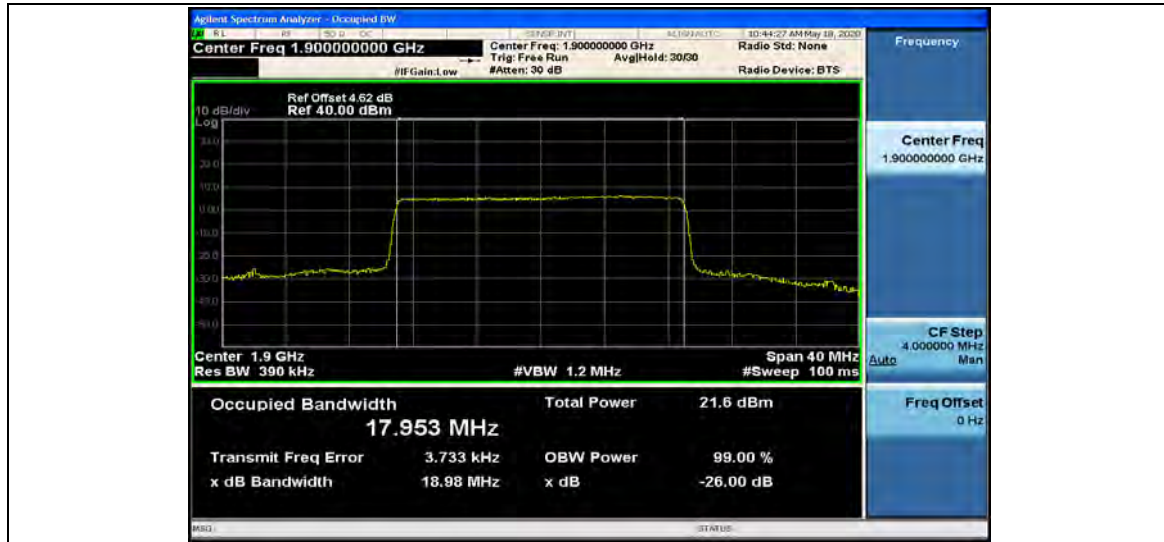
Band2-20MHz-16QAM-18700-100RB#0-17.944



Band2-20MHz-16QAM-18900-100RB#0-17.930



Band2-20MHz-16QAM-19100-100RB#0-17.953



Appendix D: Band Edge

Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-19193-1RB#5



Band2-1.4MHz-QPSK-19193-6RB#0



Band2-1.4MHz-16QAM-18607-1RB#0



Band2-1.4MHz-16QAM-18607-6RB#0



Band2-1.4MHz-16QAM-19193-1RB#5



Band2-1.4MHz-16QAM-19193-6RB#0



Band2-3MHz-QPSK-18615-1RB#0



Band2-3MHz-QPSK-18615-15RB#0



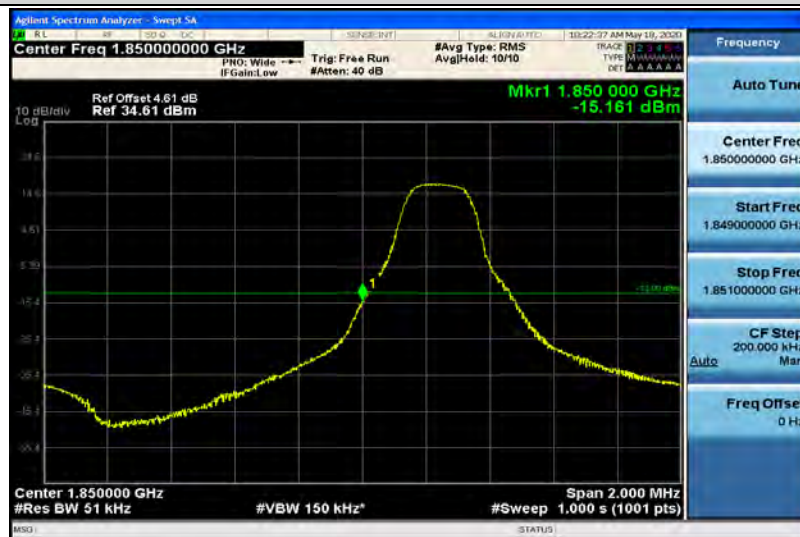
Band2-3MHz-QPSK-19185-1RB#14



Band2-3MHz-QPSK-19185-15RB#0



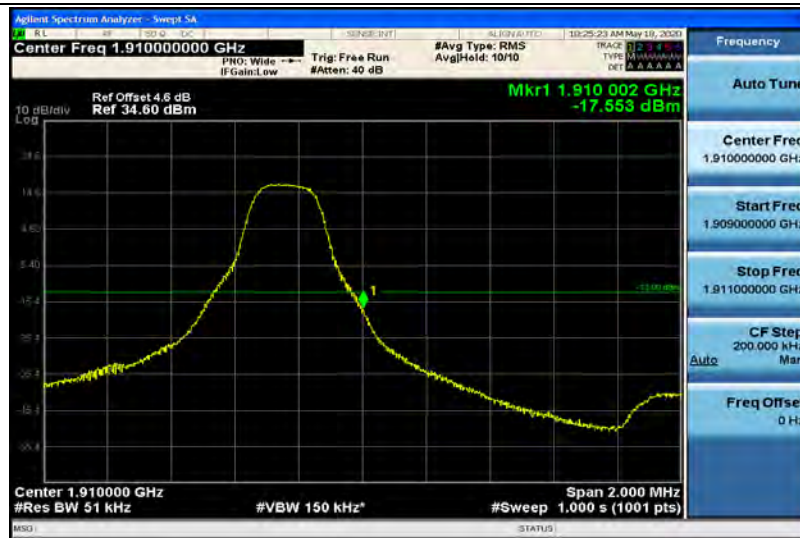
Band2-3MHz-16QAM-18615-1RB#0



Band2-3MHz-16QAM-18615-15RB#0



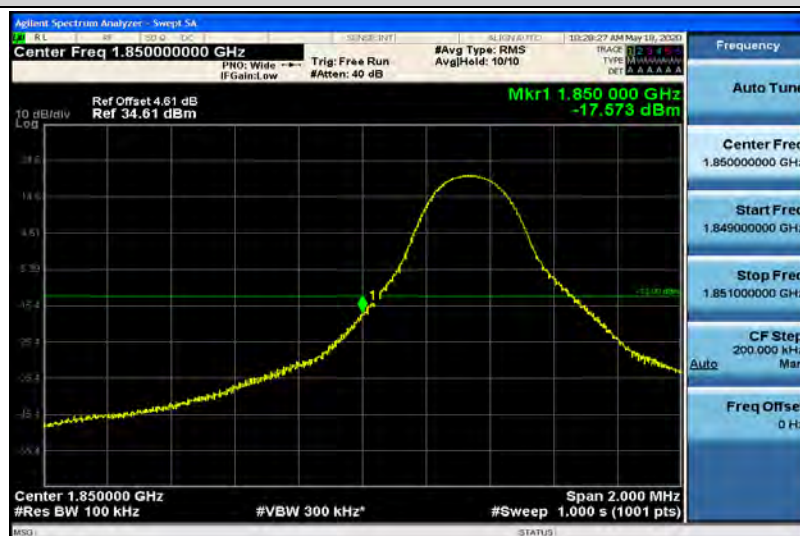
Band2-3MHz-16QAM-19185-1RB#14



Band2-3MHz-16QAM-19185-15RB#0



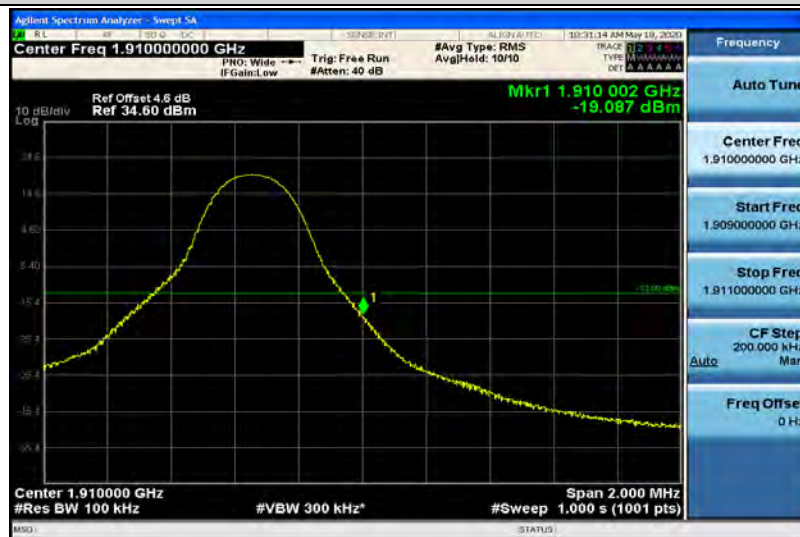
Band2-5MHz-QPSK-18625-1RB#0



Band2-5MHz-QPSK-18625-25RB#0



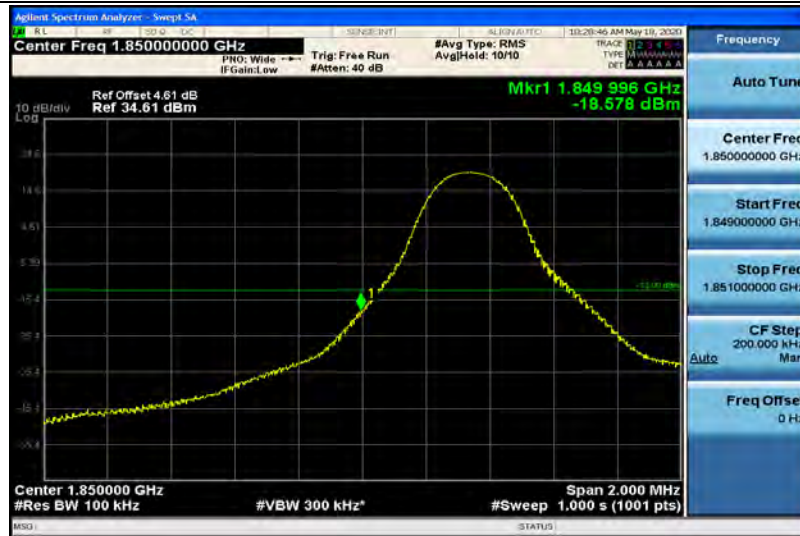
Band2-5MHz-QPSK-19175-1RB#24



Band2-5MHz-QPSK-19175-25RB#0



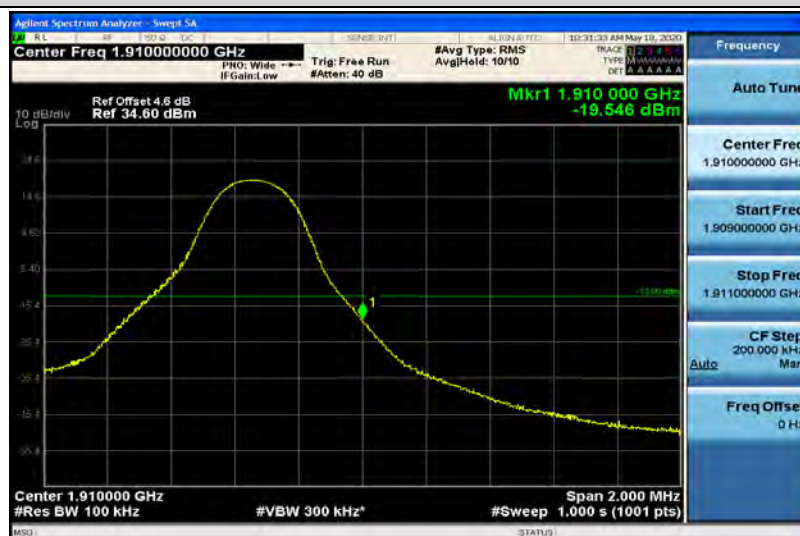
Band2-5MHz-16QAM-18625-1RB#0



Band2-5MHz-16QAM-18625-25RB#0



Band2-5MHz-16QAM-19175-1RB#24



Band2-5MHz-16QAM-19175-25RB#0



Band2-10MHz-QPSK-18650-1RB#0



Band2-10MHz-QPSK-18650-50RB#0



Band2-10MHz-QPSK-19150-1RB#49



Band2-10MHz-QPSK-19150-50RB#0



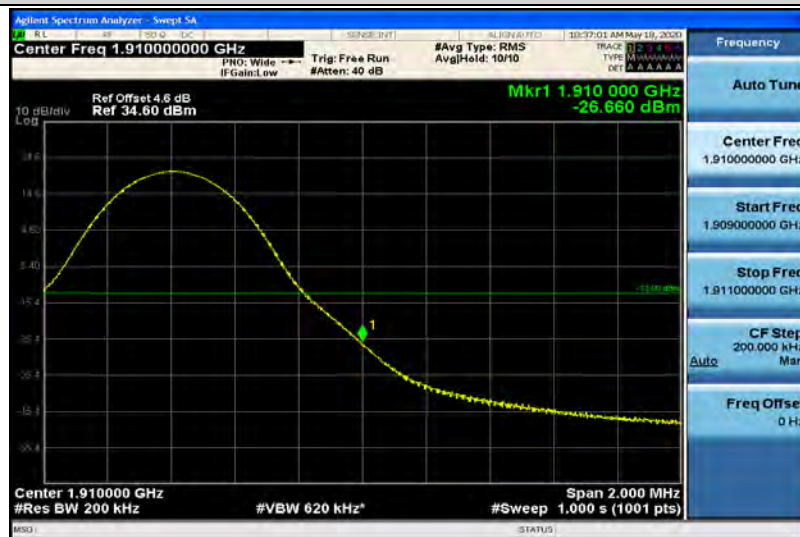
Band2-10MHz-16QAM-18650-1RB#0



Band2-10MHz-16QAM-18650-50RB#0



Band2-10MHz-16QAM-19150-1RB#49



Band2-10MHz-16QAM-19150-50RB#0



Band2-15MHz-QPSK-18675-1RB#0



Band2-15MHz-QPSK-18675-75RB#0



Band2-15MHz-QPSK-19125-1RB#74



Band2-15MHz-QPSK-19125-75RB#0



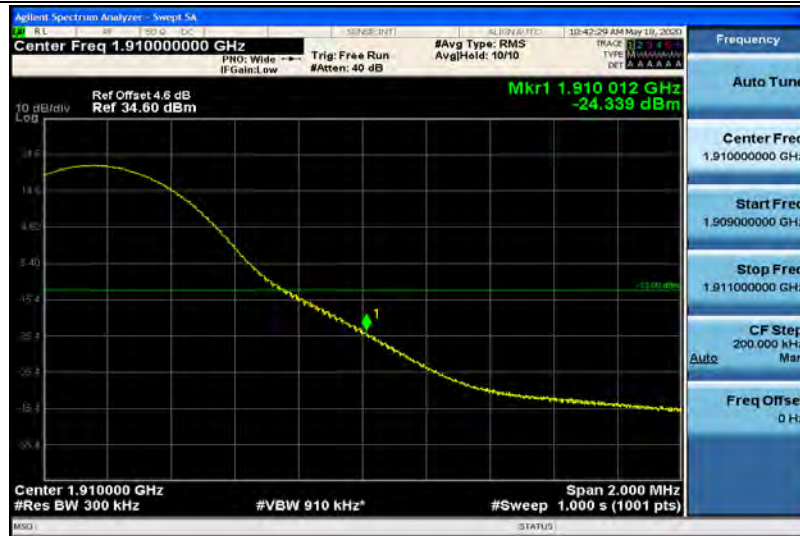
Band2-15MHz-16QAM-18675-1RB#0



Band2-15MHz-16QAM-18675-75RB#0



Band2-15MHz-16QAM-19125-1RB#74



Band2-15MHz-16QAM-19125-75RB#0



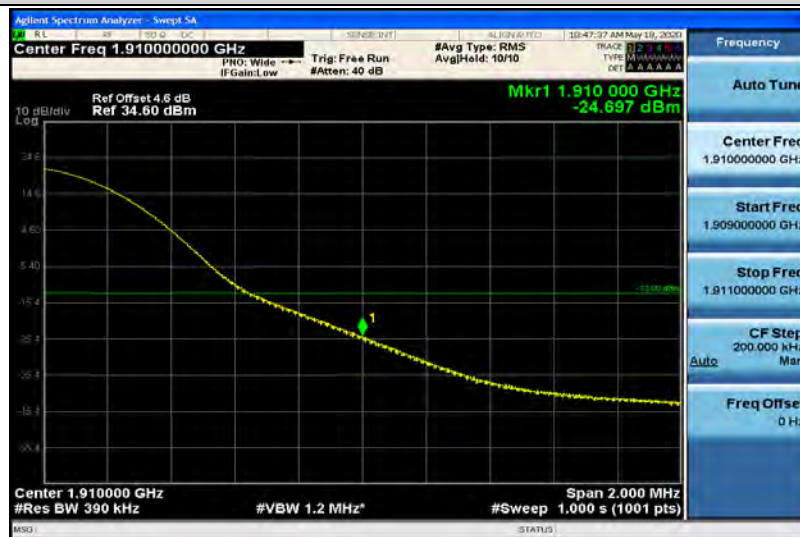
Band2-20MHz-QPSK-18700-1RB#0



Band2-20MHz-QPSK-18700-100RB#0



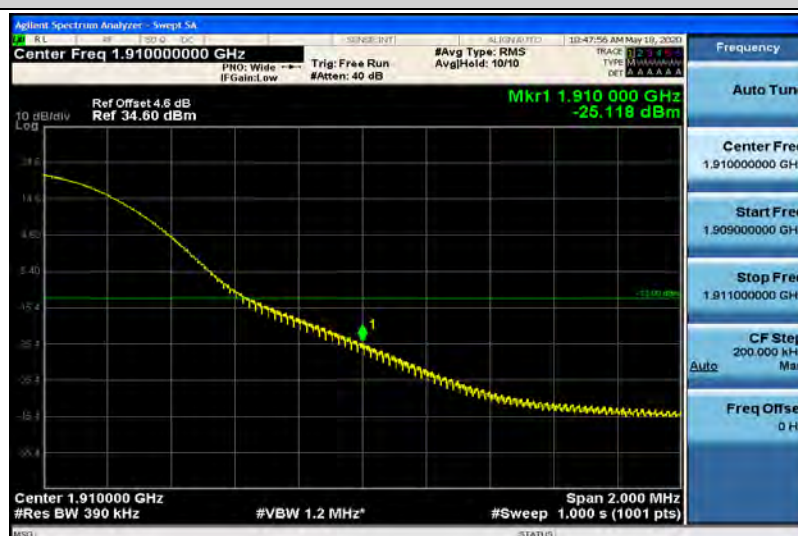
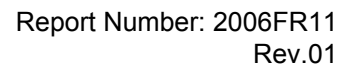
Band2-20MHz-QPSK-19100-1RB#99



Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-1RB#0





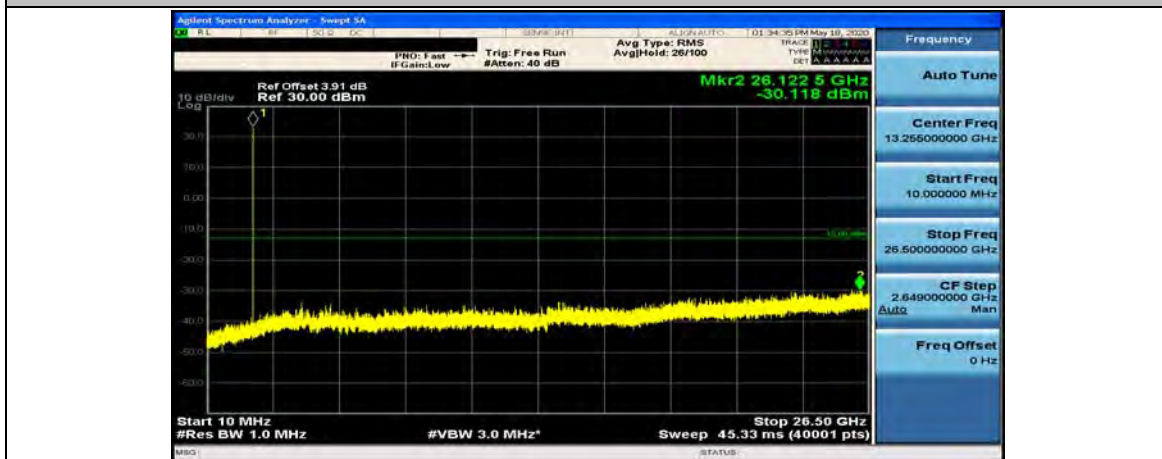


Appendix E: Conducted Spurious Emission

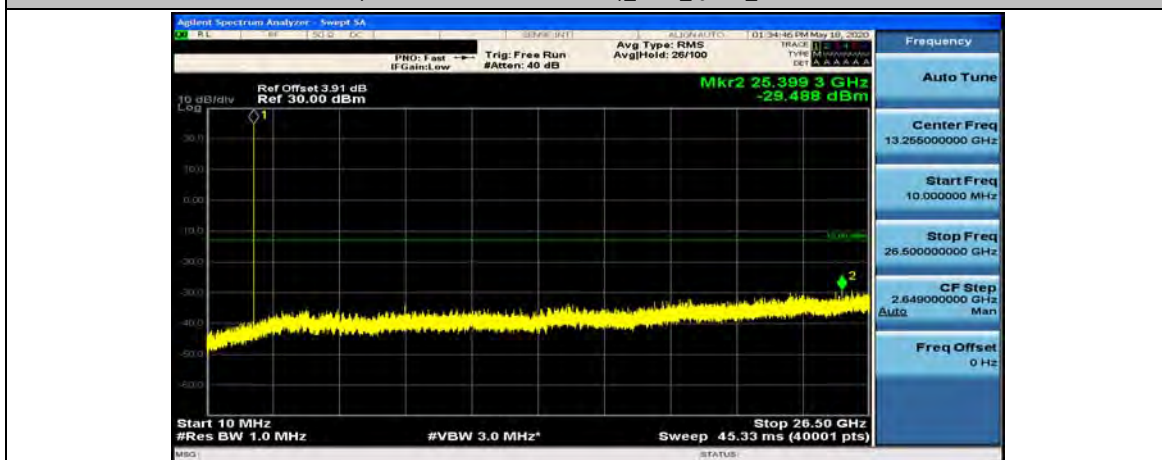
Test Graphs

Channel Bandwidth: 1.4 MHz

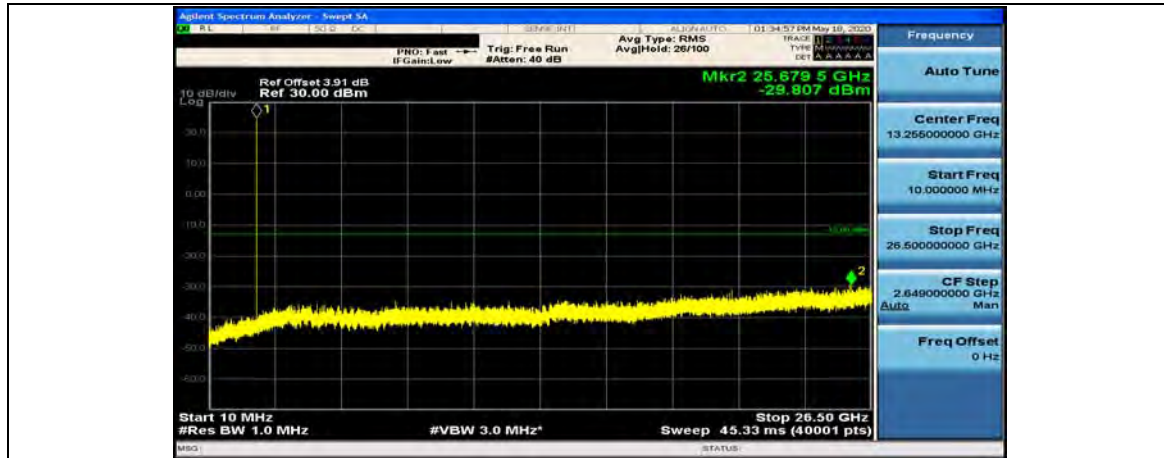
(Channel Bandwidth: 1.4 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 1.4 MHz)_MCH_QPSK_1RB#0

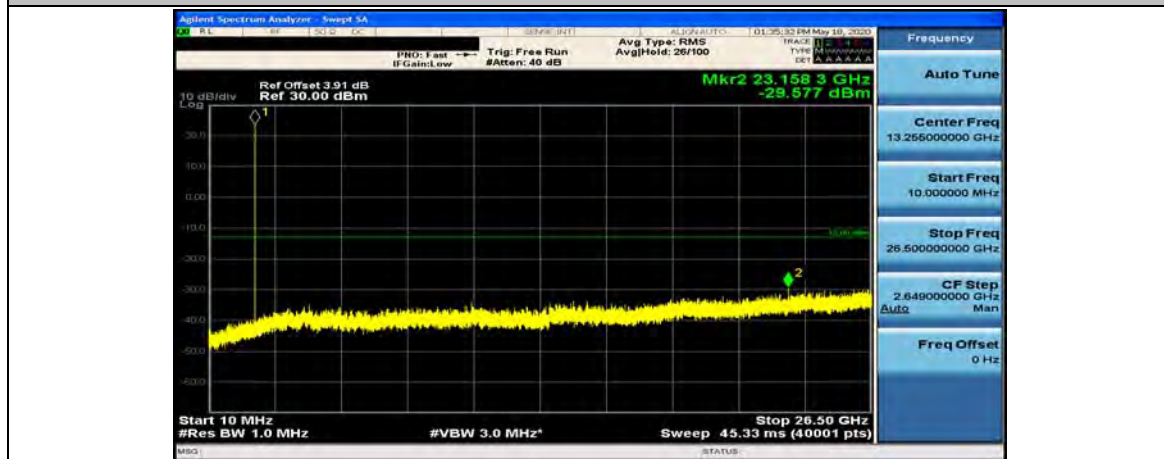


(Channel Bandwidth: 1.4 MHz)_HCH_QPSK_1RB#0

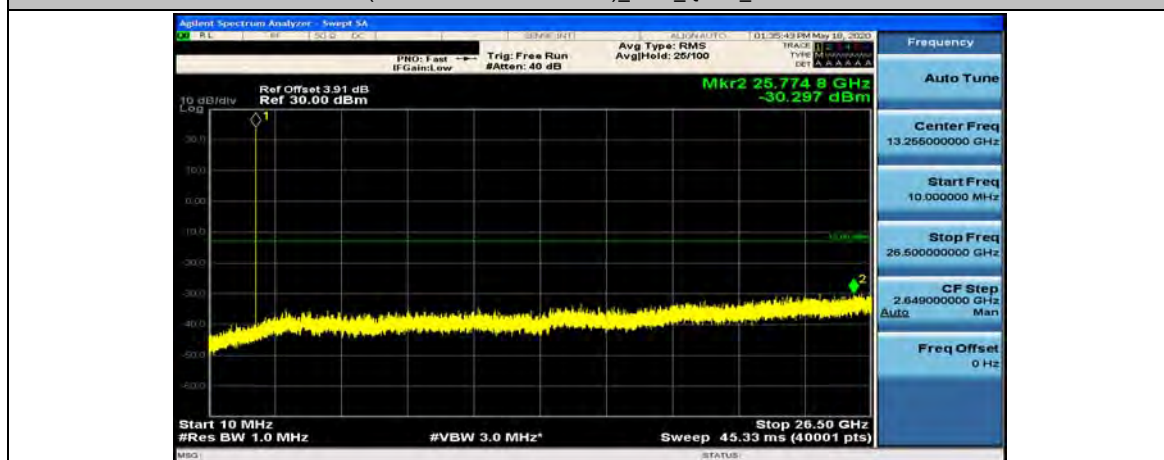


Channel Bandwidth: 3 MHz

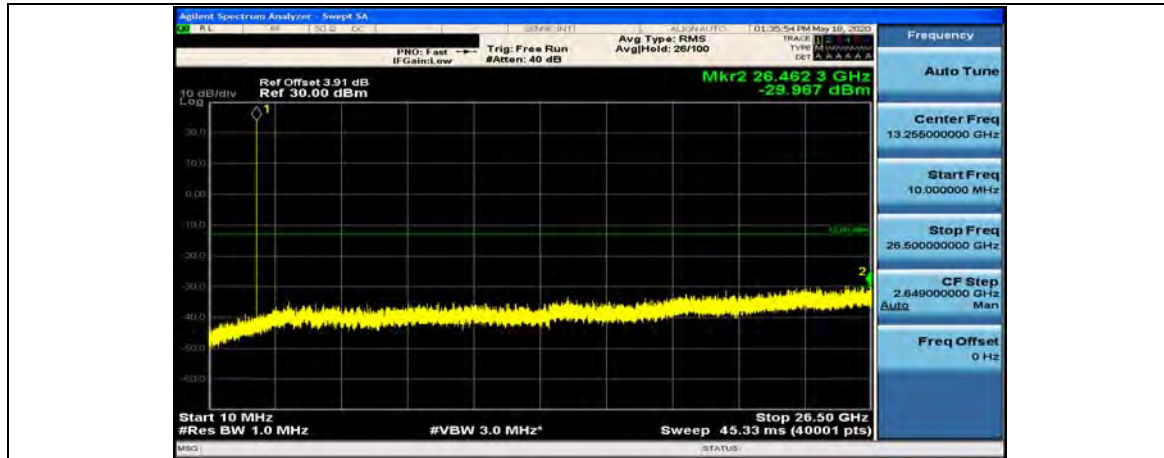
(Channel Bandwidth: 3 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 3 MHz)_MCH_QPSK_1RB#0

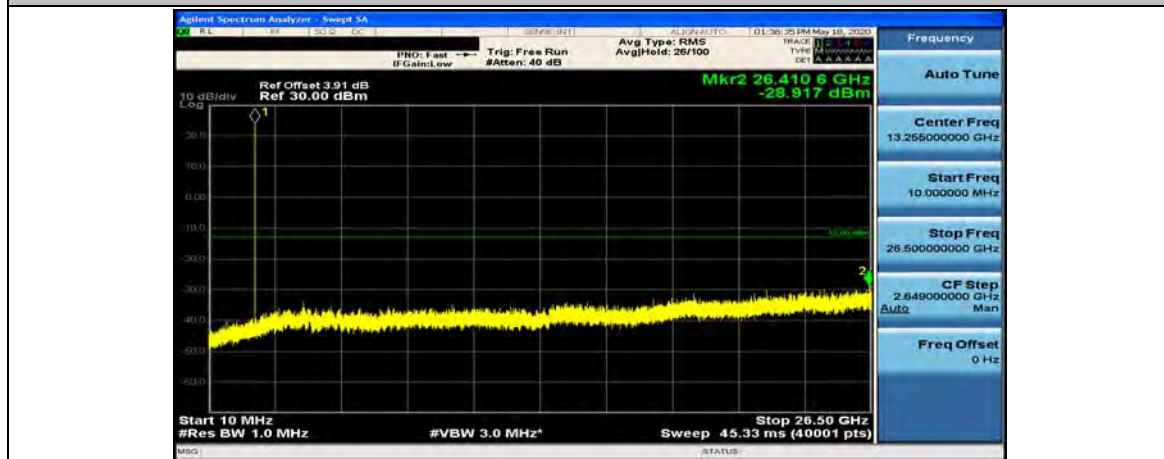


(Channel Bandwidth: 3 MHz)_HCH_QPSK_1RB#0

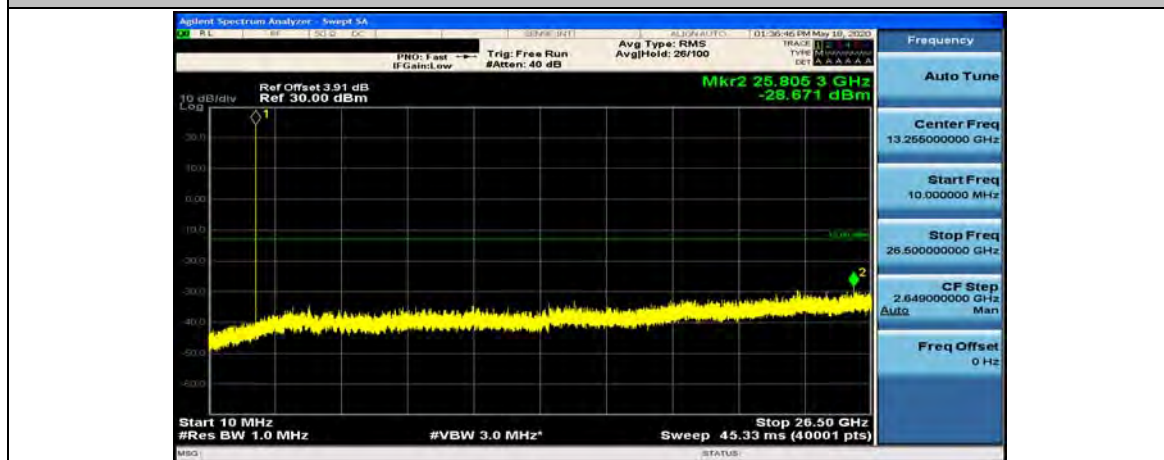


Channel Bandwidth: 5 MHz

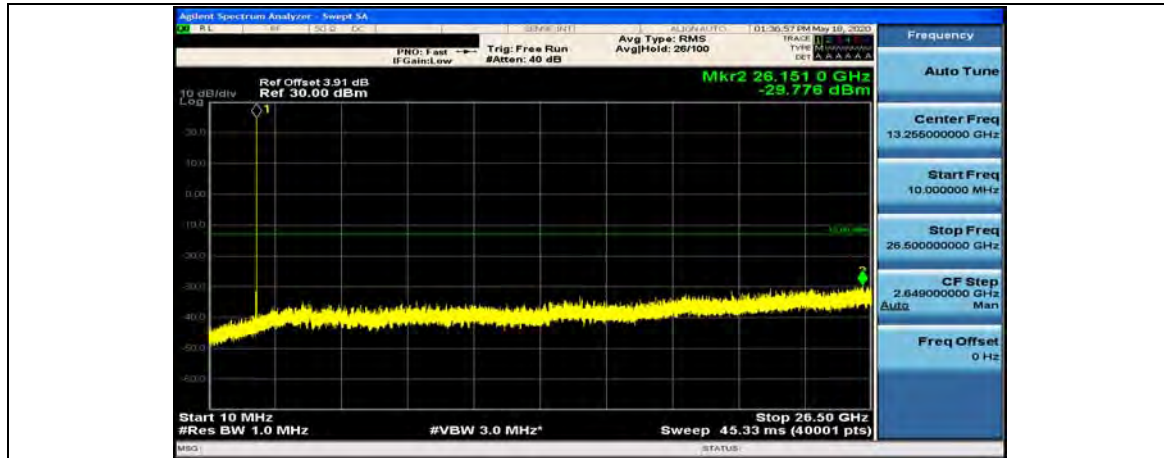
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

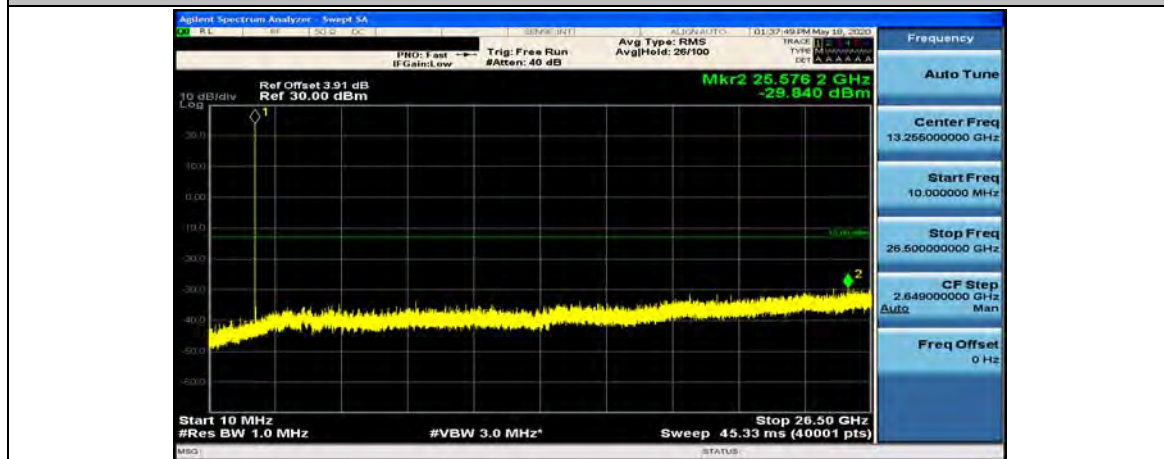


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz

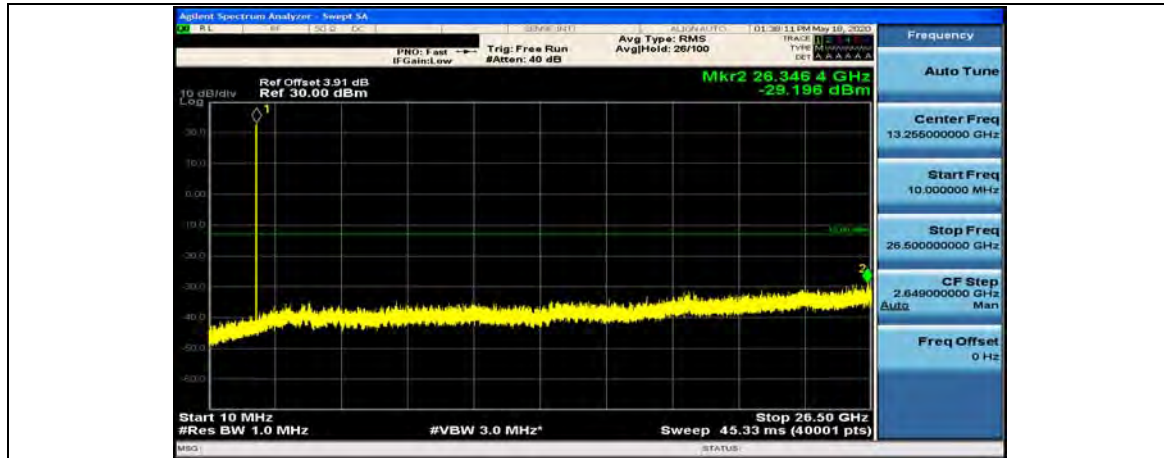
(Channel Bandwidth: 10 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 10 MHz)_MCH_QPSK_1RB#0

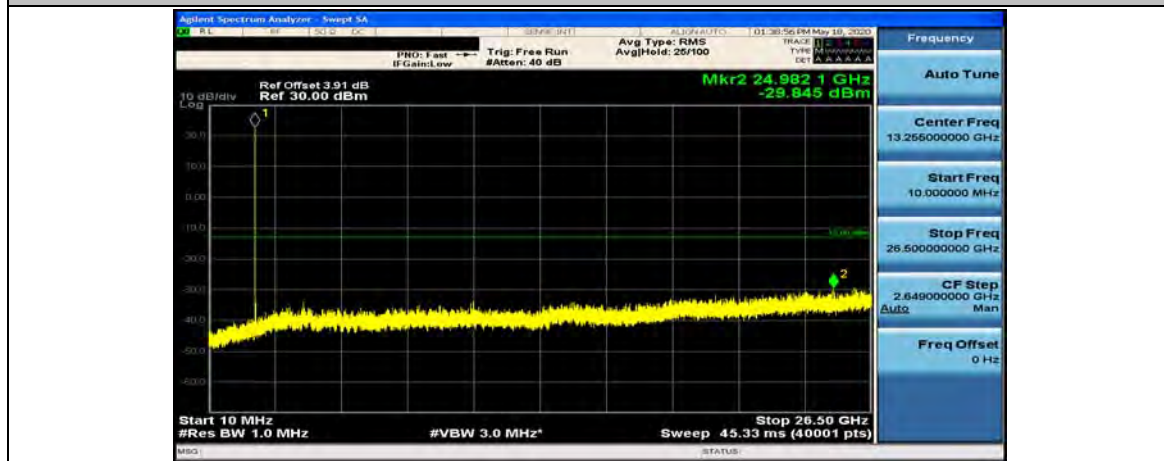


(Channel Bandwidth: 10 MHz)_HCH_QPSK_1RB#0

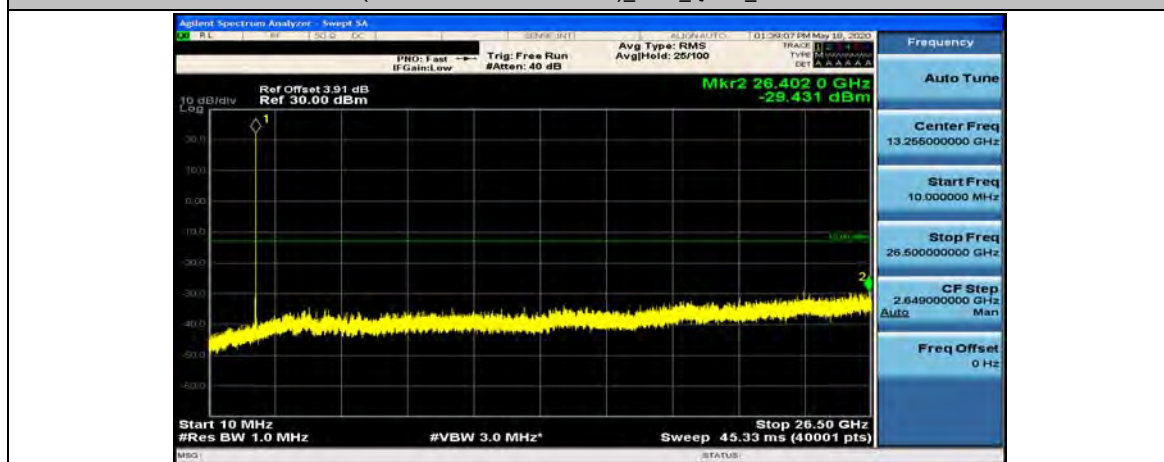


Channel Bandwidth: 15 MHz

(Channel Bandwidth: 15 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 15 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 15 MHz)_HCH_QPSK_1RB#0

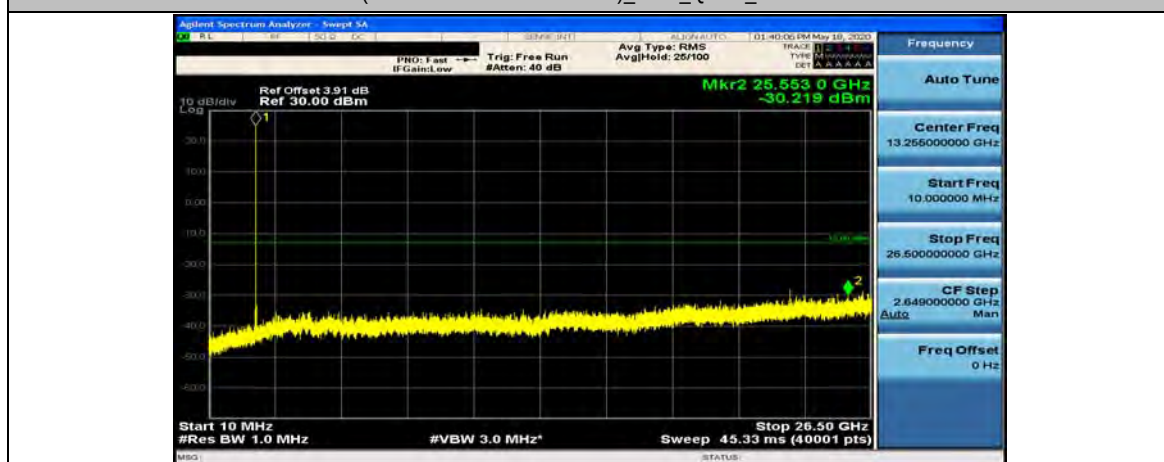


Channel Bandwidth: 20 MHz

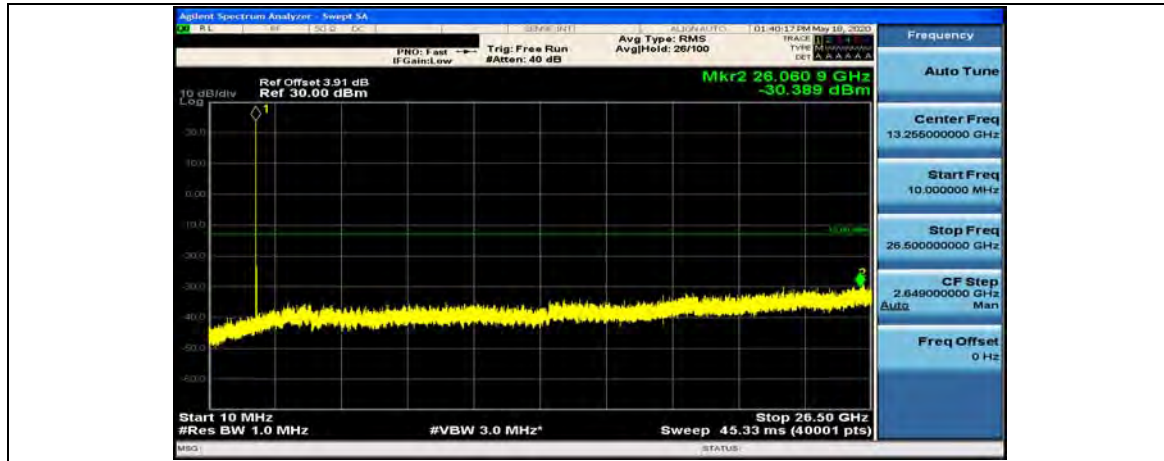
(Channel Bandwidth: 20 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 20 MHz)_MCH_QPSK_1RB#0



(Channel Bandwidth: 20 MHz)_HCH_QPSK_1RB#0



Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.30	-0.000162	± 2.5	PASS
		VN	TN	-0.10	-0.000054	± 2.5	PASS
		VH	TN	-1.20	-0.000648	± 2.5	PASS
	MCH	VL	TN	-2.20	-0.001170	± 2.5	PASS
		VN	TN	-4.30	-0.002287	± 2.5	PASS
		VH	TN	-3.00	-0.001596	± 2.5	PASS
	HCH	VL	TN	0.90	0.000471	± 2.5	PASS
		VN	TN	1.00	0.000524	± 2.5	PASS
		VH	TN	0.80	0.000419	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.40	-0.000216	± 2.5	PASS
		VN	-20	-2.20	-0.001189	± 2.5	PASS
		VN	-10	-1.90	-0.001027	± 2.5	PASS
		VN	0	-1.20	-0.000648	± 2.5	PASS
		VN	10	-2.70	-0.001459	± 2.5	PASS
		VN	20	-1.00	-0.000540	± 2.5	PASS
		VN	30	-2.00	-0.001081	± 2.5	PASS
		VN	40	-0.60	-0.000324	± 2.5	PASS
		VN	50	-1.10	-0.000594	± 2.5	PASS
	MCH	VN	-30	-1.20	-0.000638	± 2.5	PASS
		VN	-20	-2.90	-0.001543	± 2.5	PASS
		VN	-10	-2.30	-0.001223	± 2.5	PASS
		VN	0	-3.80	-0.002021	± 2.5	PASS

		VN	10	-2.30	-0.001223	± 2.5	PASS
		VN	20	-2.90	-0.001543	± 2.5	PASS
		VN	30	-3.30	-0.001755	± 2.5	PASS
		VN	40	-0.80	-0.000426	± 2.5	PASS
		VN	50	-1.30	-0.000691	± 2.5	PASS
	HCH	VN	-30	1.70	0.000890	± 2.5	PASS
		VN	-20	2.10	0.001100	± 2.5	PASS
		VN	-10	2.20	0.001152	± 2.5	PASS
		VN	0	0.40	0.000210	± 2.5	PASS
		VN	10	-0.40	-0.000210	± 2.5	PASS
		VN	20	-0.50	-0.000262	± 2.5	PASS
		VN	30	1.10	0.000576	± 2.5	PASS
		VN	40	2.60	0.001362	± 2.5	PASS
		VN	50	0.80	0.000419	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-4.00	-0.002160	± 2.5	PASS
		VN	TN	-2.80	-0.001512	± 2.5	PASS
		VH	TN	-1.20	-0.000648	± 2.5	PASS
	MCH	VL	TN	-1.90	-0.001011	± 2.5	PASS
		VN	TN	-2.50	-0.001330	± 2.5	PASS
		VH	TN	-2.40	-0.001277	± 2.5	PASS
	HCH	VL	TN	1.70	0.000891	± 2.5	PASS
		VN	TN	0.10	0.000052	± 2.5	PASS
		VH	TN	-0.20	-0.000105	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.70	-0.000918	± 2.5	PASS
		VN	-20	-3.50	-0.001890	± 2.5	PASS
		VN	-10	-1.90	-0.001026	± 2.5	PASS
		VN	0	-2.60	-0.001404	± 2.5	PASS
		VN	10	-2.10	-0.001134	± 2.5	PASS
		VN	20	-2.20	-0.001188	± 2.5	PASS
		VN	30	-4.20	-0.002268	± 2.5	PASS
		VN	40	-0.80	-0.000432	± 2.5	PASS
		VN	50	-4.20	-0.002268	± 2.5	PASS
	MCH	VN	-30	-3.20	-0.001702	± 2.5	PASS
		VN	-20	-4.20	-0.002234	± 2.5	PASS
		VN	-10	-2.80	-0.001489	± 2.5	PASS
		VN	0	-3.80	-0.002021	± 2.5	PASS
		VN	10	-3.70	-0.001968	± 2.5	PASS
		VN	20	-3.80	-0.002021	± 2.5	PASS
		VN	30	-5.30	-0.002819	± 2.5	PASS

		VN	40	-3.00	-0.001596	± 2.5	PASS
		VN	50	-5.30	-0.002819	± 2.5	PASS
	HCH	VN	-30	0.90	0.000472	± 2.5	PASS
		VN	-20	0.50	0.000262	± 2.5	PASS
		VN	-10	1.80	0.000943	± 2.5	PASS
		VN	0	0.60	0.000314	± 2.5	PASS
		VN	10	-0.20	-0.000105	± 2.5	PASS
		VN	20	1.40	0.000734	± 2.5	PASS
		VN	30	1.80	0.000943	± 2.5	PASS
		VN	40	-0.60	-0.000314	± 2.5	PASS
		VN	50	1.80	0.000943	± 2.5	PASS

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-2.40	-0.001296	± 2.5	PASS
		VN	TN	-1.60	-0.000864	± 2.5	PASS
		VH	TN	-1.10	-0.000594	± 2.5	PASS
	MCH	VL	TN	-4.00	-0.002128	± 2.5	PASS
		VN	TN	-4.60	-0.002447	± 2.5	PASS
		VH	TN	-2.70	-0.001436	± 2.5	PASS
	HCH	VL	TN	-1.00	-0.000524	± 2.5	PASS
		VN	TN	-1.70	-0.000891	± 2.5	PASS
		VH	TN	1.70	0.000891	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-2.90	-0.001565	± 2.5	PASS
		VN	-20	-1.80	-0.000972	± 2.5	PASS
		VN	-10	-1.60	-0.000864	± 2.5	PASS
		VN	0	-3.50	-0.001889	± 2.5	PASS
		VN	10	-0.40	-0.000216	± 2.5	PASS
		VN	20	-1.10	-0.000594	± 2.5	PASS
		VN	30	-1.20	-0.000648	± 2.5	PASS
		VN	40	-1.20	-0.000648	± 2.5	PASS
		VN	50	-1.40	-0.000756	± 2.5	PASS
	MCH	VN	-30	-3.90	-0.002074	± 2.5	PASS
		VN	-20	-4.10	-0.002181	± 2.5	PASS
		VN	-10	-2.60	-0.001383	± 2.5	PASS
		VN	0	-4.20	-0.002234	± 2.5	PASS
		VN	10	-3.40	-0.001809	± 2.5	PASS
		VN	20	-5.40	-0.002872	± 2.5	PASS
		VN	30	-4.60	-0.002447	± 2.5	PASS
		VN	40	-3.30	-0.001755	± 2.5	PASS
	VN	50	-3.00	-0.001596	± 2.5	PASS	
	HCH	VN	-30	-0.80	-0.000419	± 2.5	PASS

		VN	-20	-1.40	-0.000734	± 2.5	PASS
		VN	-10	-2.00	-0.001048	± 2.5	PASS
		VN	0	-1.60	-0.000839	± 2.5	PASS
		VN	10	1.40	0.000734	± 2.5	PASS
		VN	20	-0.80	-0.000419	± 2.5	PASS
		VN	30	1.70	0.000891	± 2.5	PASS
		VN	40	-0.60	-0.000315	± 2.5	PASS
		VN	50	1.30	0.000682	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-3.50	-0.001887	± 2.5	PASS
		VN	TN	-2.80	-0.001509	± 2.5	PASS
		VH	TN	-1.10	-0.000593	± 2.5	PASS
	MCH	VL	TN	-2.60	-0.001383	± 2.5	PASS
		VN	TN	-4.30	-0.002287	± 2.5	PASS
		VH	TN	-2.30	-0.001223	± 2.5	PASS
	HCH	VL	TN	-0.10	-0.000052	± 2.5	PASS
		VN	TN	1.90	0.000997	± 2.5	PASS
		VH	TN	0.90	0.000472	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-4.30	-0.002318	± 2.5	PASS
		VN	-20	-2.80	-0.001509	± 2.5	PASS
		VN	-10	-0.70	-0.000377	± 2.5	PASS
		VN	0	-2.30	-0.001240	± 2.5	PASS
		VN	10	-1.80	-0.000970	± 2.5	PASS
		VN	20	-1.60	-0.000863	± 2.5	PASS
		VN	30	-1.20	-0.000647	± 2.5	PASS
		VN	40	-3.20	-0.001725	± 2.5	PASS
		VN	50	-2.30	-0.001240	± 2.5	PASS
	MCH	VN	-30	-3.30	-0.001755	± 2.5	PASS
		VN	-20	-5.20	-0.002766	± 2.5	PASS
		VN	-10	-2.90	-0.001543	± 2.5	PASS
		VN	0	-2.60	-0.001383	± 2.5	PASS
		VN	10	-3.10	-0.001649	± 2.5	PASS
		VN	20	-3.00	-0.001596	± 2.5	PASS
		VN	30	-2.30	-0.001223	± 2.5	PASS
		VN	40	-4.30	-0.002287	± 2.5	PASS
		VN	50	-4.70	-0.002500	± 2.5	PASS
	HCH	VN	-30	-1.20	-0.000630	± 2.5	PASS
		VN	-20	1.20	0.000630	± 2.5	PASS
		VN	-10	1.10	0.000577	± 2.5	PASS
		VN	0	1.40	0.000735	± 2.5	PASS

		VN	10	0.40	0.000210	± 2.5	PASS
		VN	20	-1.20	-0.000630	± 2.5	PASS
		VN	30	-0.50	-0.000262	± 2.5	PASS
		VN	40	-0.10	-0.000052	± 2.5	PASS
		VN	50	1.50	0.000787	± 2.5	PASS

Channel Bandwidth: 15 MHz

Channel Bandwidth: 15 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-2.00	-0.001077	± 2.5	PASS
		VN	TN	-2.60	-0.001400	± 2.5	PASS
		VH	TN	-2.30	-0.001238	± 2.5	PASS
	MCH	VL	TN	-0.90	-0.000479	± 2.5	PASS
		VN	TN	-3.10	-0.001649	± 2.5	PASS
		VH	TN	-2.00	-0.001064	± 2.5	PASS
	HCH	VL	TN	-2.00	-0.001051	± 2.5	PASS
		VN	TN	-2.50	-0.001314	± 2.5	PASS
		VH	TN	-1.80	-0.000946	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.70	-0.000915	± 2.5	PASS
		VN	-20	-1.40	-0.000754	± 2.5	PASS
		VN	-10	-2.40	-0.001292	± 2.5	PASS
		VN	0	-2.00	-0.001077	± 2.5	PASS
		VN	10	-2.70	-0.001454	± 2.5	PASS
		VN	20	-3.20	-0.001723	± 2.5	PASS
		VN	30	-1.70	-0.000915	± 2.5	PASS
		VN	40	-4.20	-0.002261	± 2.5	PASS
		VN	50	-2.30	-0.001238	± 2.5	PASS
	MCH	VN	-30	-0.50	-0.000266	± 2.5	PASS
		VN	-20	-3.40	-0.001809	± 2.5	PASS
		VN	-10	-0.90	-0.000479	± 2.5	PASS
		VN	0	-2.90	-0.001543	± 2.5	PASS
		VN	10	-4.40	-0.002340	± 2.5	PASS
		VN	20	-2.40	-0.001277	± 2.5	PASS
		VN	30	-1.80	-0.000957	± 2.5	PASS
		VN	40	-3.20	-0.001702	± 2.5	PASS
		VN	50	-3.40	-0.001809	± 2.5	PASS
	HCH	VN	-30	-0.70	-0.000368	± 2.5	PASS
		VN	-20	-2.80	-0.001472	± 2.5	PASS
		VN	-10	-2.70	-0.001419	± 2.5	PASS
		VN	0	-2.50	-0.001314	± 2.5	PASS
		VN	10	-1.50	-0.000788	± 2.5	PASS
		VN	20	-0.80	-0.000420	± 2.5	PASS
		VN	30	-1.70	-0.000894	± 2.5	PASS



		VN	40	-2.00	-0.001051	± 2.5	PASS
		VN	50	-3.70	-0.001945	± 2.5	PASS

Channel Bandwidth: 20 MHz

Channel Bandwidth: 20 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	1.20	0.000645	± 2.5	PASS
		VN	TN	6.60	0.003548	± 2.5	PASS
		VH	TN	1.10	0.000591	± 2.5	PASS
	MCH	VL	TN	-1.30	-0.000691	± 2.5	PASS
		VN	TN	-0.70	-0.000372	± 2.5	PASS
		VH	TN	-2.20	-0.001170	± 2.5	PASS
	HCH	VL	TN	-0.70	-0.000368	± 2.5	PASS
		VN	TN	2.10	0.001105	± 2.5	PASS
		VH	TN	-4.20	-0.002211	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.00	0.000000	± 2.5	PASS
		VN	-20	1.90	0.001022	± 2.5	PASS
		VN	-10	0.10	0.000054	± 2.5	PASS
		VN	0	1.60	0.000860	± 2.5	PASS
		VN	10	0.40	0.000215	± 2.5	PASS
		VN	20	0.50	0.000269	± 2.5	PASS
		VN	30	2.20	0.001183	± 2.5	PASS
		VN	40	1.00	0.000538	± 2.5	PASS
		VN	50	1.90	0.001022	± 2.5	PASS
	MCH	VN	-30	-2.20	-0.001170	± 2.5	PASS
		VN	-20	-2.50	-0.001330	± 2.5	PASS
		VN	-10	-1.90	-0.001011	± 2.5	PASS
		VN	0	-3.30	-0.001755	± 2.5	PASS
		VN	10	-0.60	-0.000319	± 2.5	PASS
		VN	20	-2.00	-0.001064	± 2.5	PASS
		VN	30	-3.50	-0.001862	± 2.5	PASS
		VN	40	-2.90	-0.001543	± 2.5	PASS
		VN	50	-1.80	-0.000957	± 2.5	PASS
	HCH	VN	-30	-0.30	-0.000158	± 2.5	PASS
		VN	-20	-1.60	-0.000842	± 2.5	PASS
		VN	-10	-0.30	-0.000158	± 2.5	PASS
		VN	0	-2.70	-0.001421	± 2.5	PASS
		VN	10	-4.30	-0.002263	± 2.5	PASS
		VN	20	-0.70	-0.000368	± 2.5	PASS
		VN	30	-2.50	-0.001316	± 2.5	PASS
		VN	40	-2.00	-0.001053	± 2.5	PASS
	VN	50	-1.30	-0.000684	± 2.5	PASS	