Appendix for Band 4

FCC ID: 2AC88-ELTP18A04

IC: 24230-ELTP18A04

Model: ELTP18A04

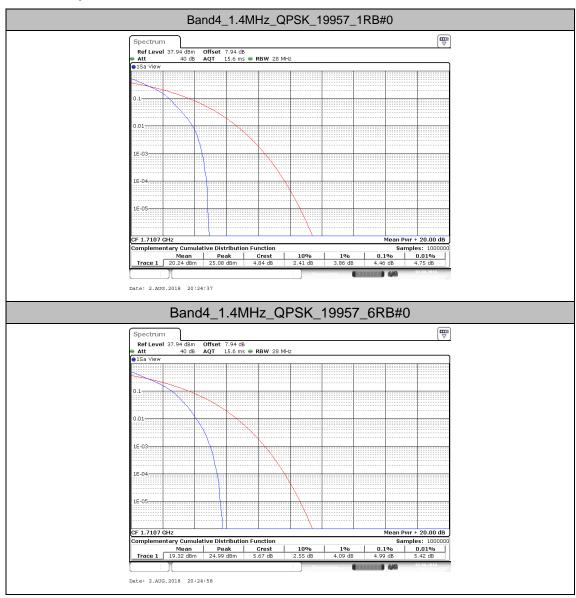
Appendix A: Peak-to-Average Ratio(CCDF)

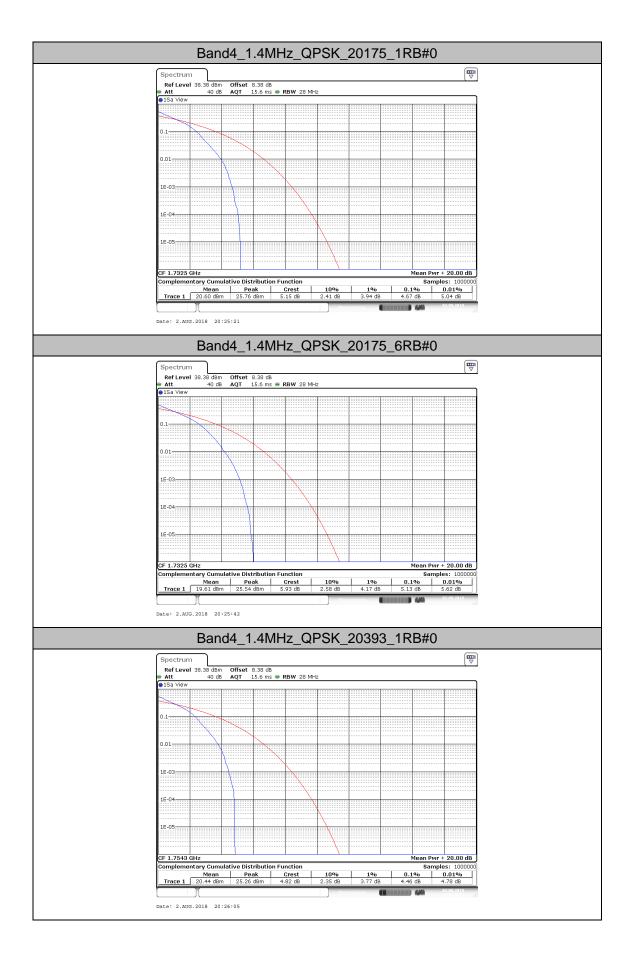
Test Result

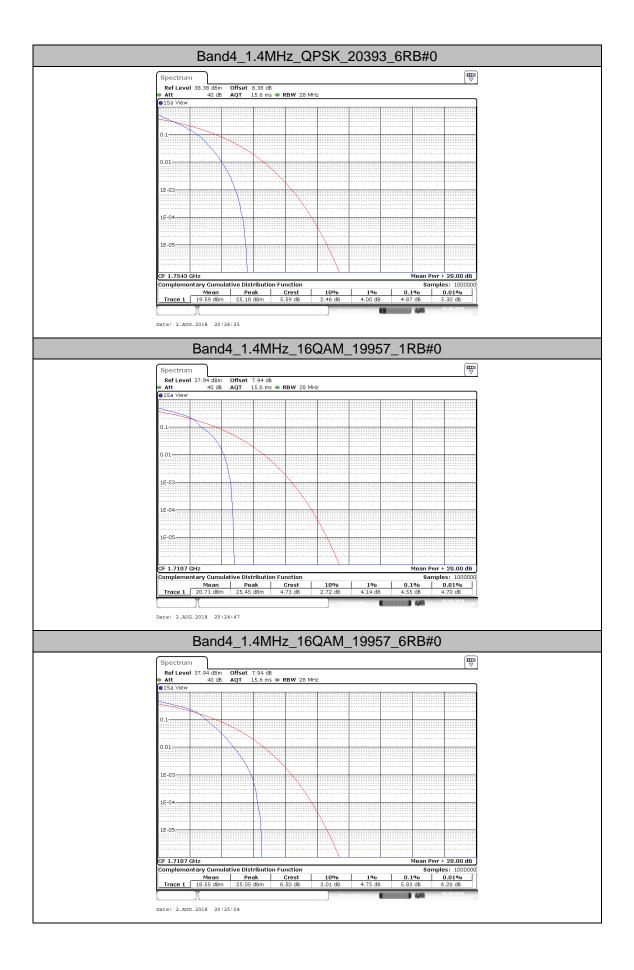
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	4.46	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	4.99	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	4.67	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	5.13	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	4.46	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	4.87	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	4.55	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.83	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.04	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.94	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	4.67	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.80	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	4.49	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.96	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	4.70	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.07	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	4.38	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	4.81	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	4.72	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.86	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	4.90	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.97	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	5.01	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.68	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	4.67	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.96	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	4.87	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	5.07	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	4.55	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.81	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	5.54	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.62	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	5.83	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.77	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	5.45	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	5.51	13	PASS

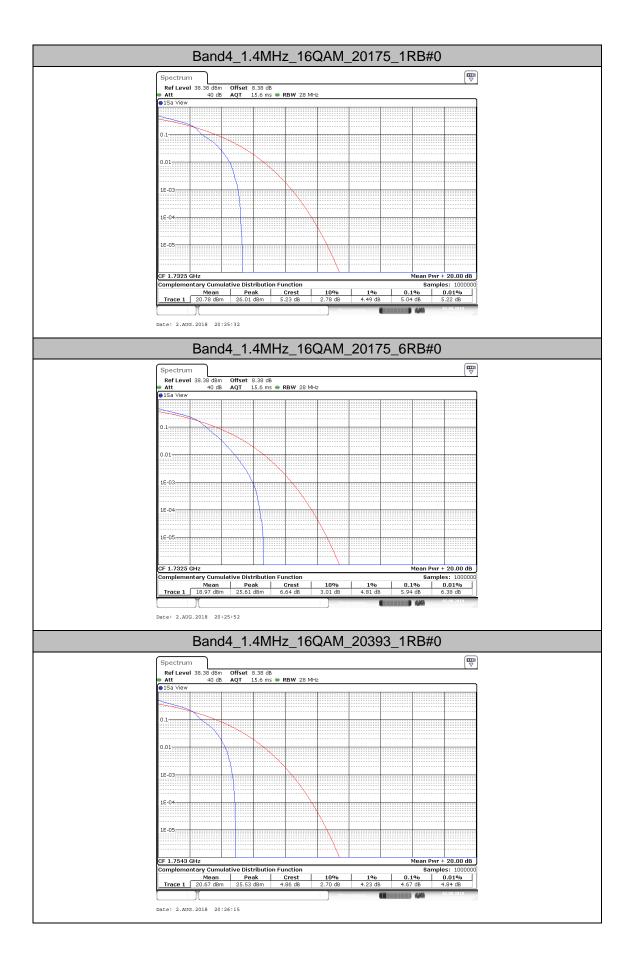
Band4	10MHz	QPSK	20000	1RB#0	4.52	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	4.81	13	PASS
Band4	10MHz	QPSK	20175	1RB#0	4.41	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	4.93	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	4.55	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	4.72	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	4.78	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.71	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	5.22	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.86	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	4.99	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.57	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	4.58	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	4.58	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	4.75	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	4.67	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	4.72	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	4.52	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	4.81	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	5.65	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	5.01	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.71	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	5.45	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	5.59	13	PASS
Band4	20MHz	QPSK	20050	1RB#0	4.52	13	PASS
Band4	20MHz	QPSK	20050	100RB#0	3.88	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	4.64	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	3.94	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	4.75	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	3.83	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.42	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.57	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	5.59	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.62	13	PASS
Band4	20MHz	16QAM	20300	1RB#0	5.48	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.48	13	PASS
		·					

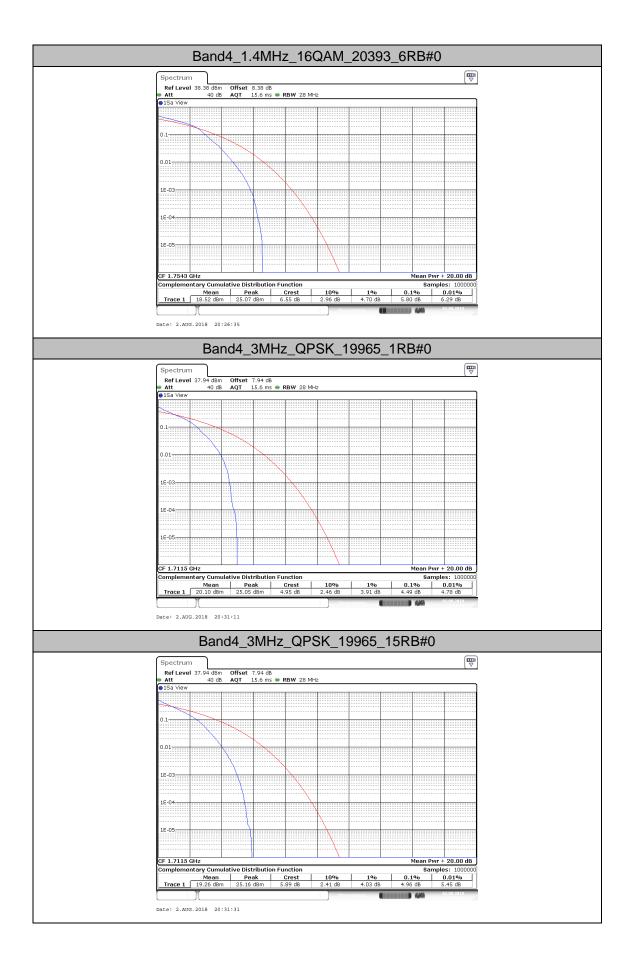
Test Graphs

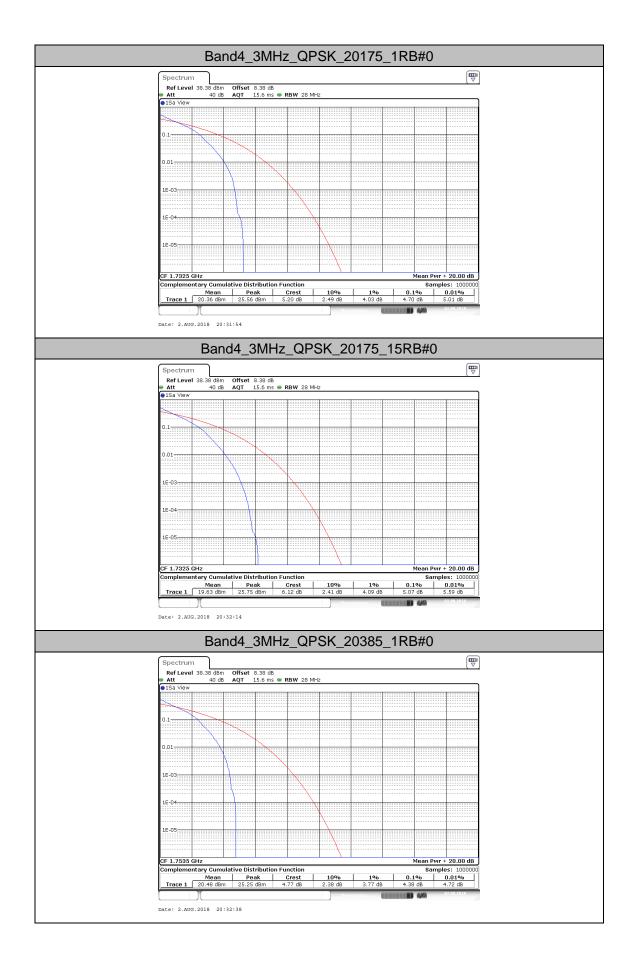


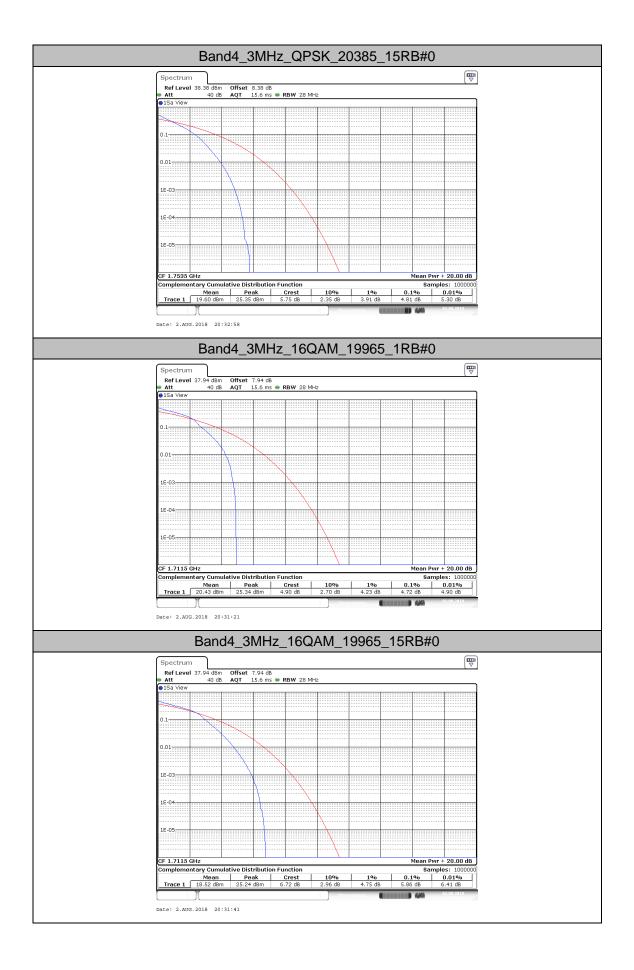


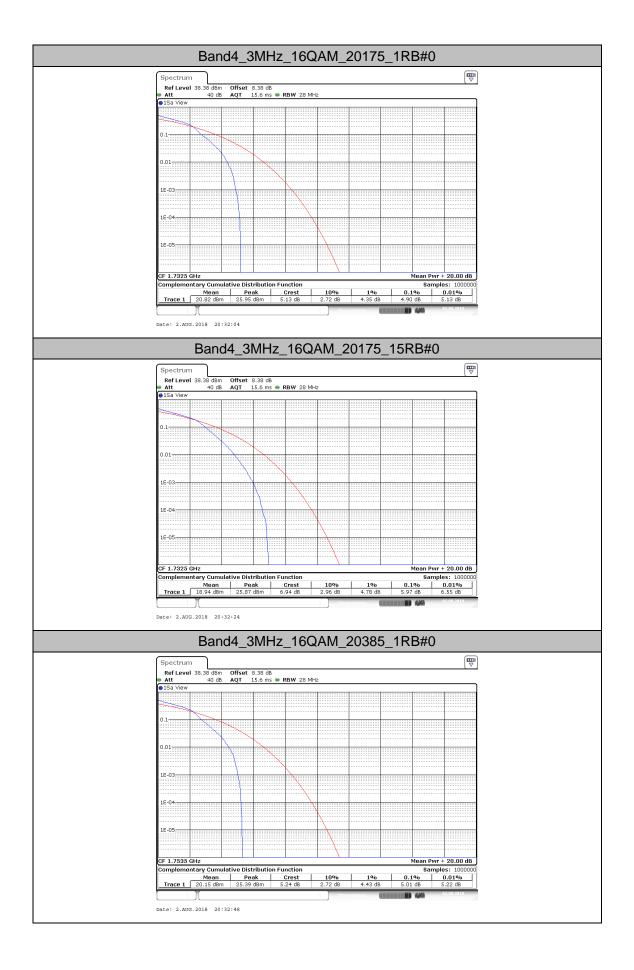


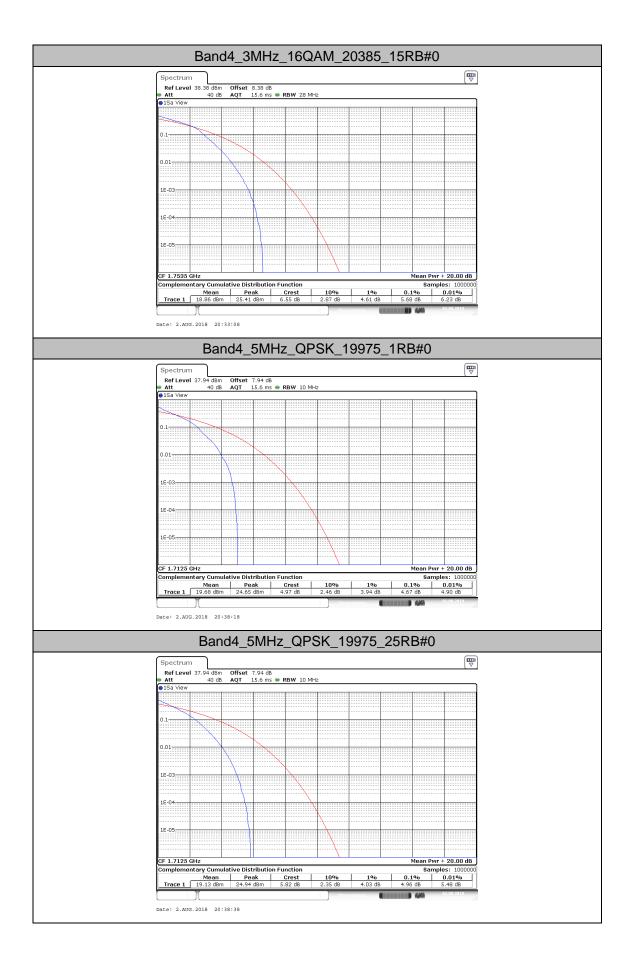


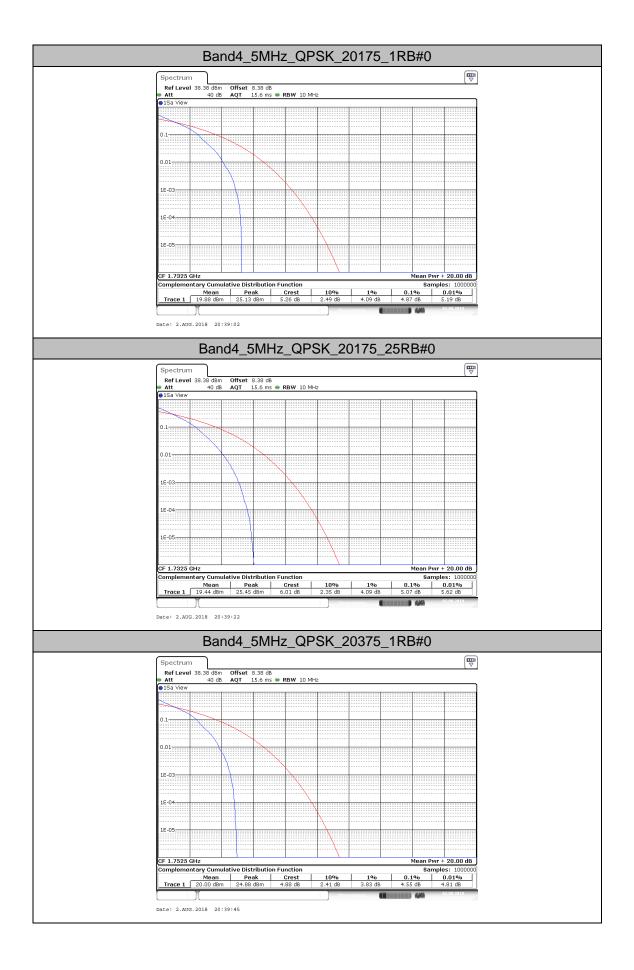


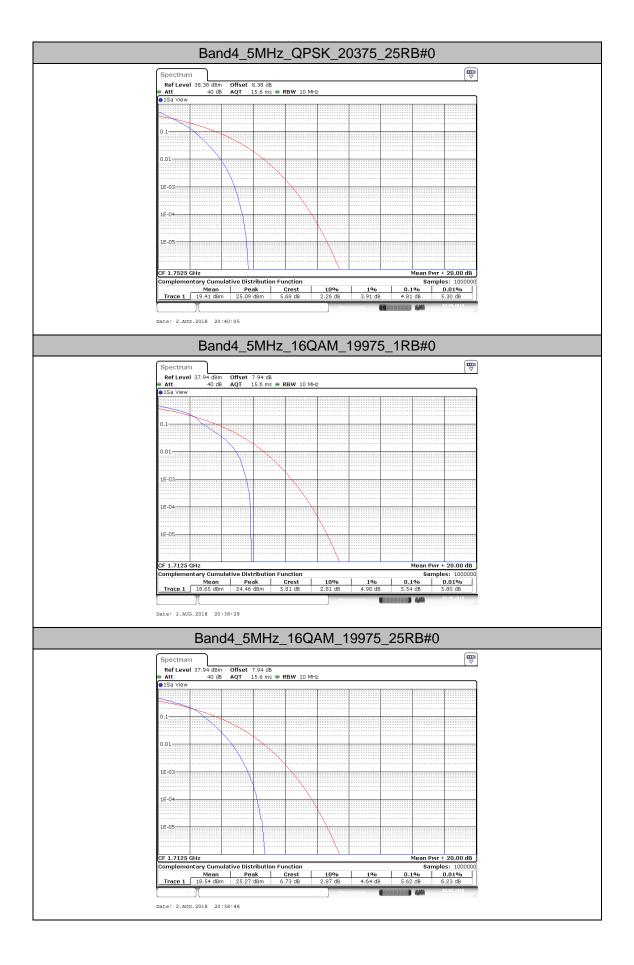


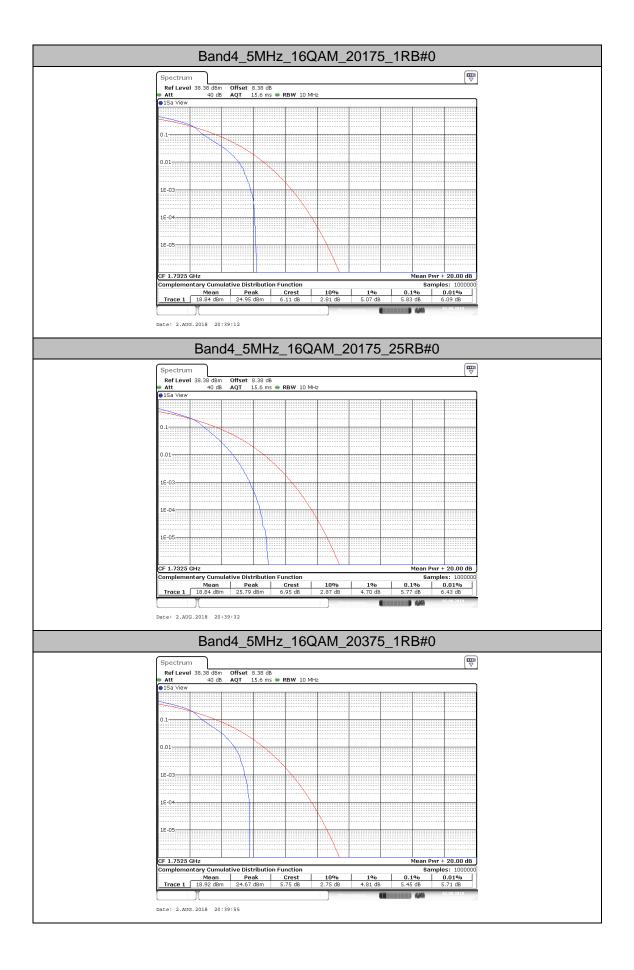


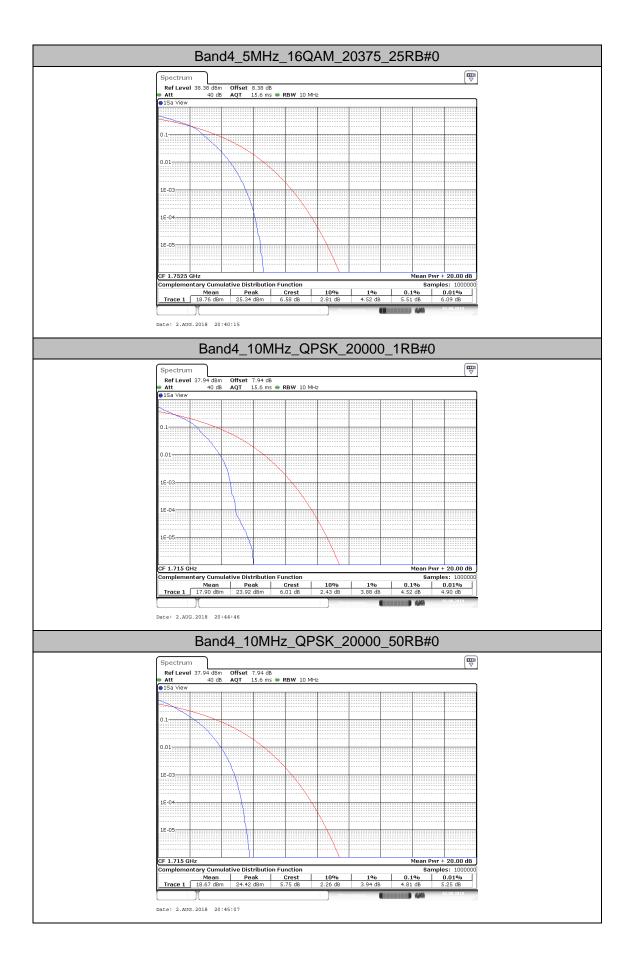


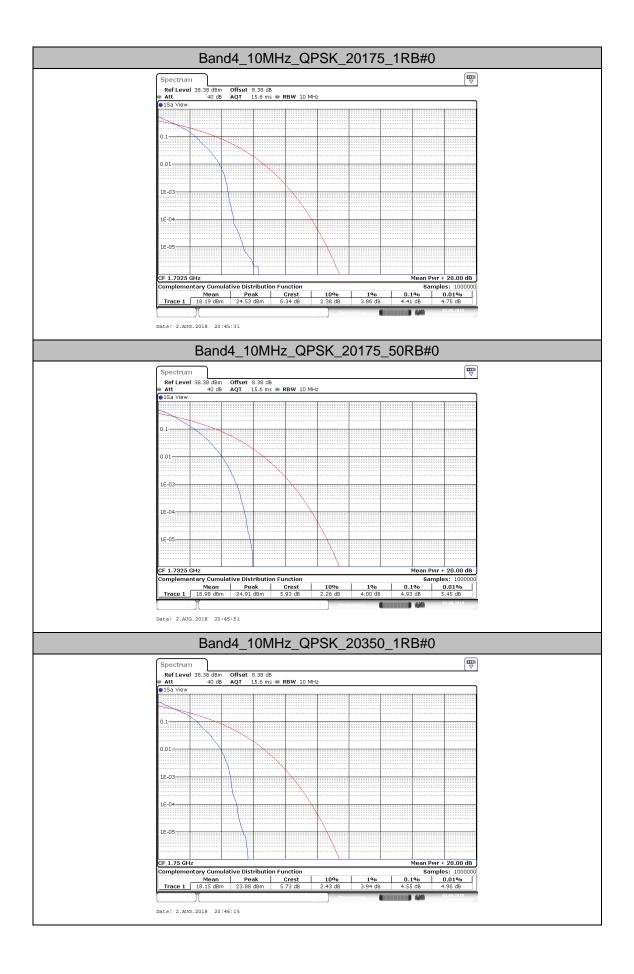


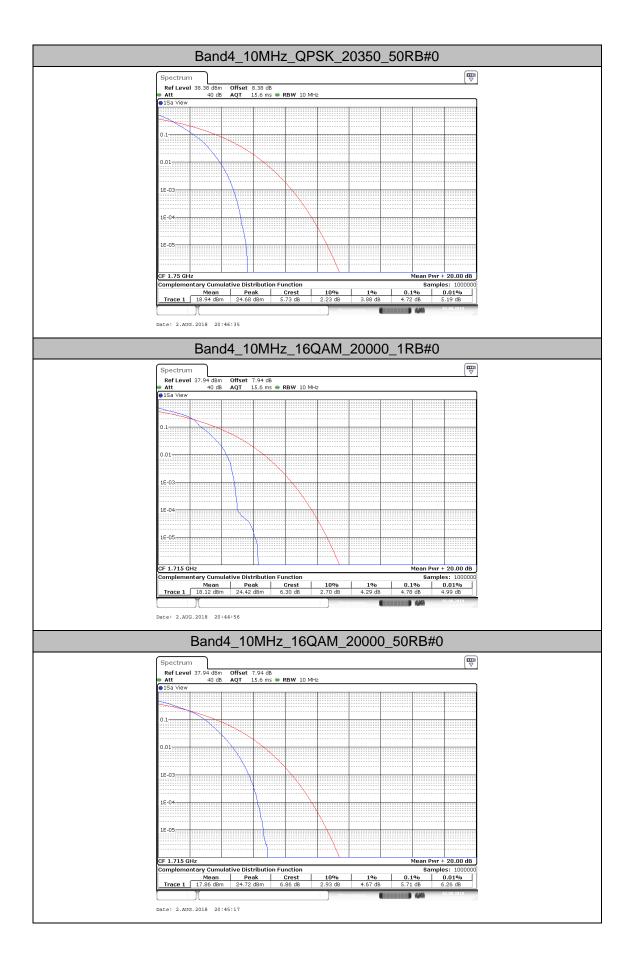


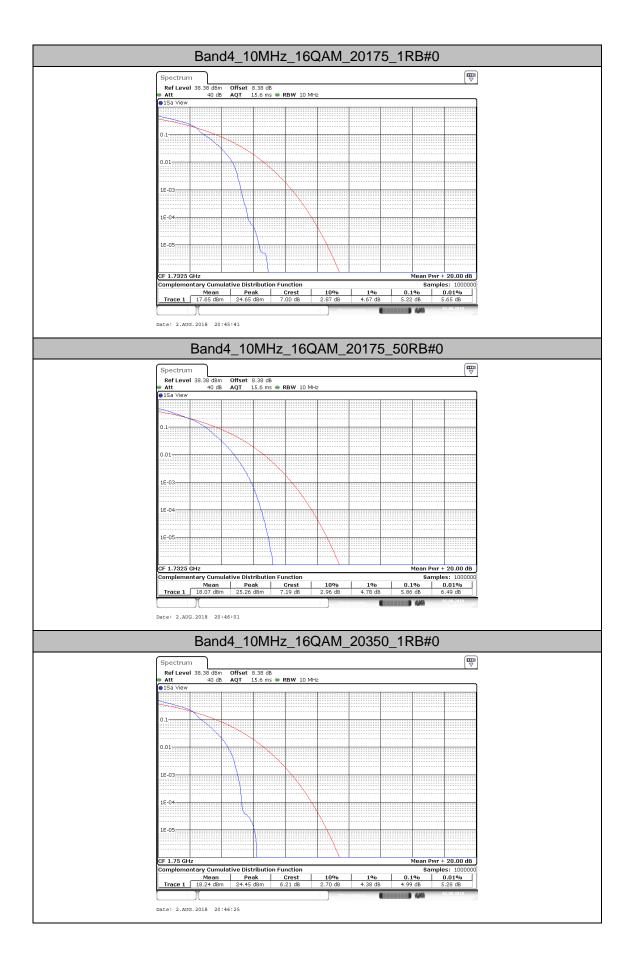


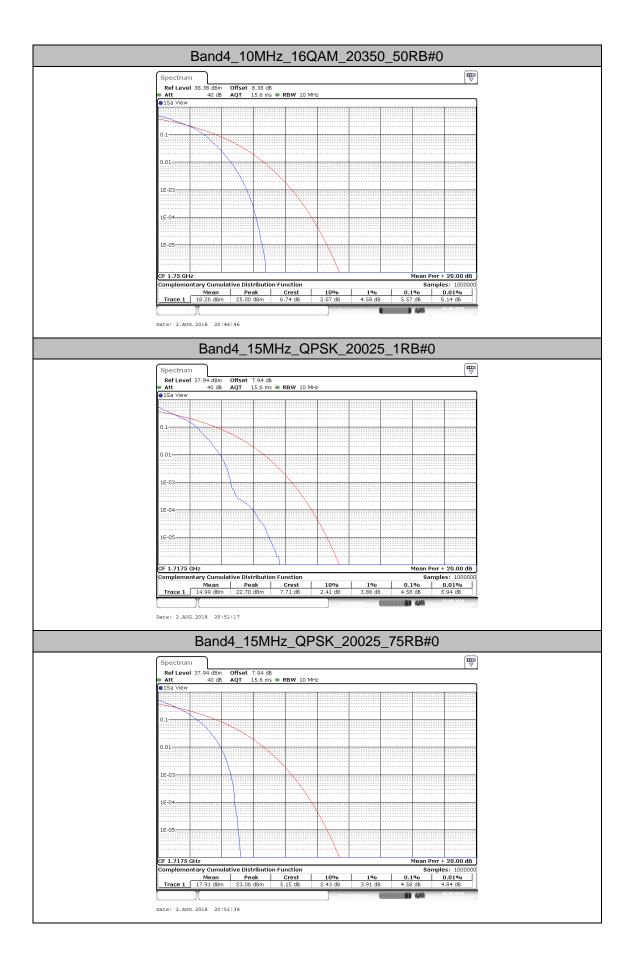


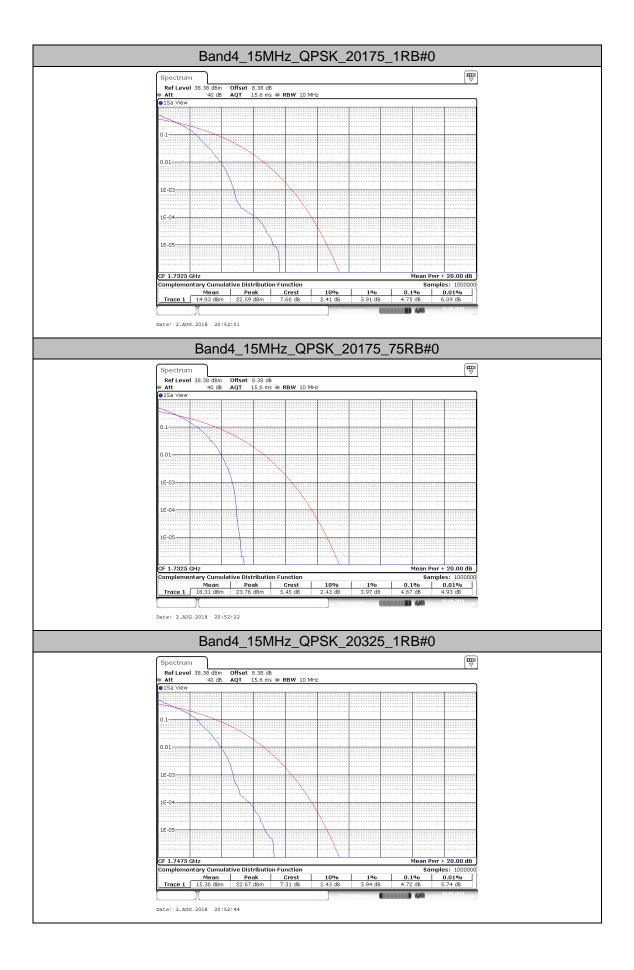


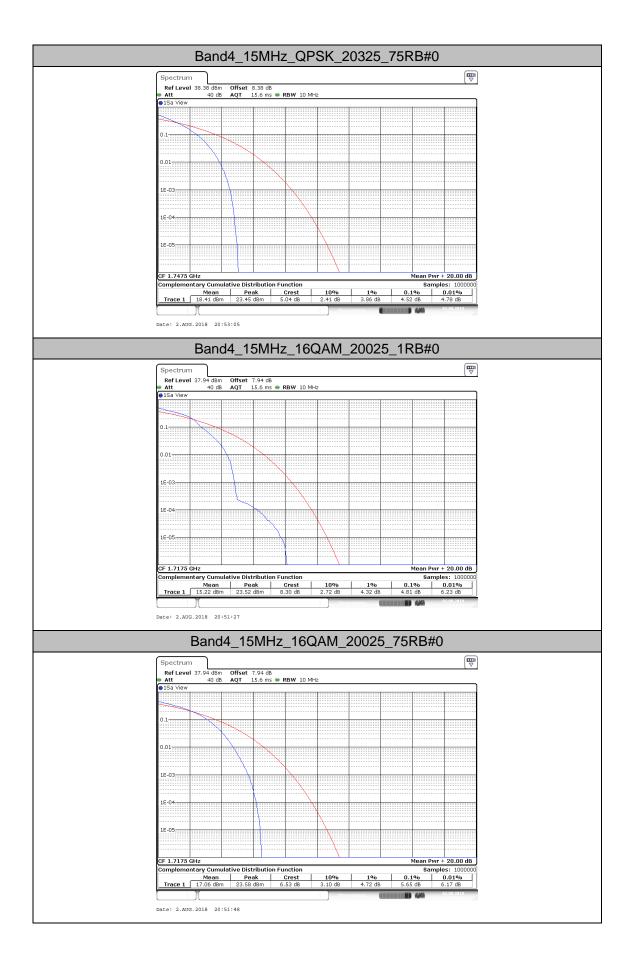


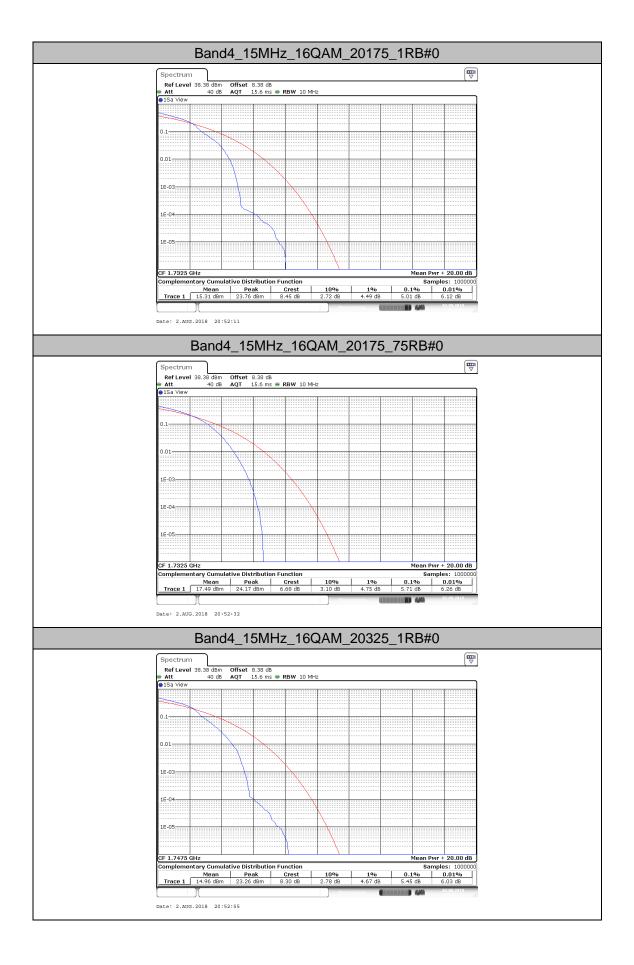


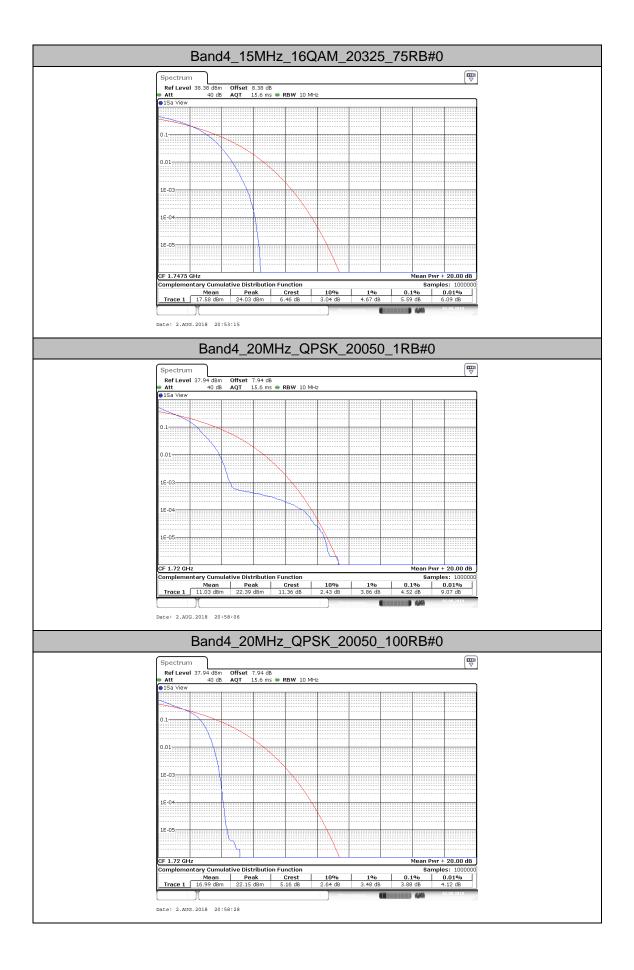


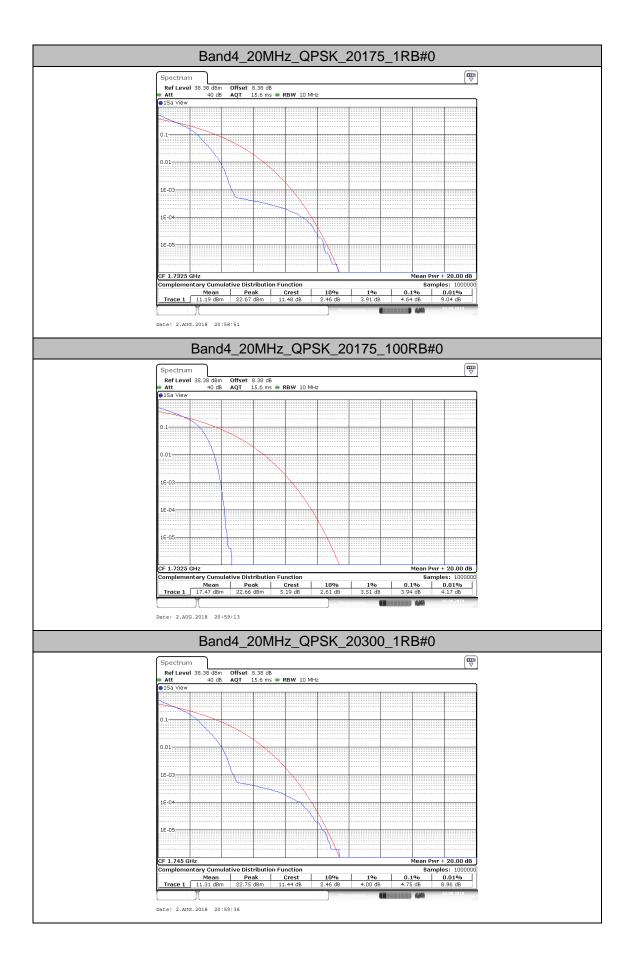


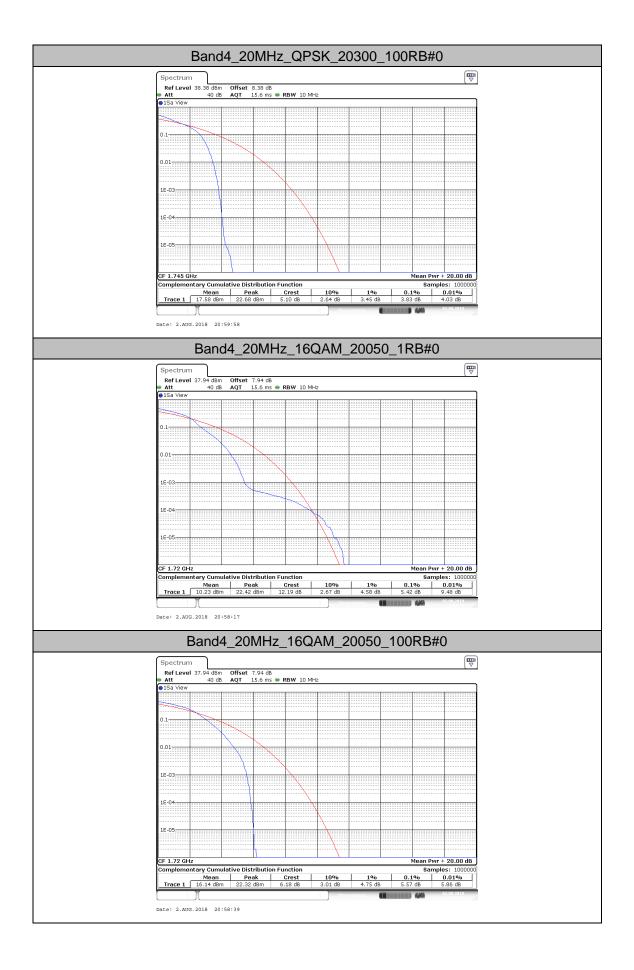


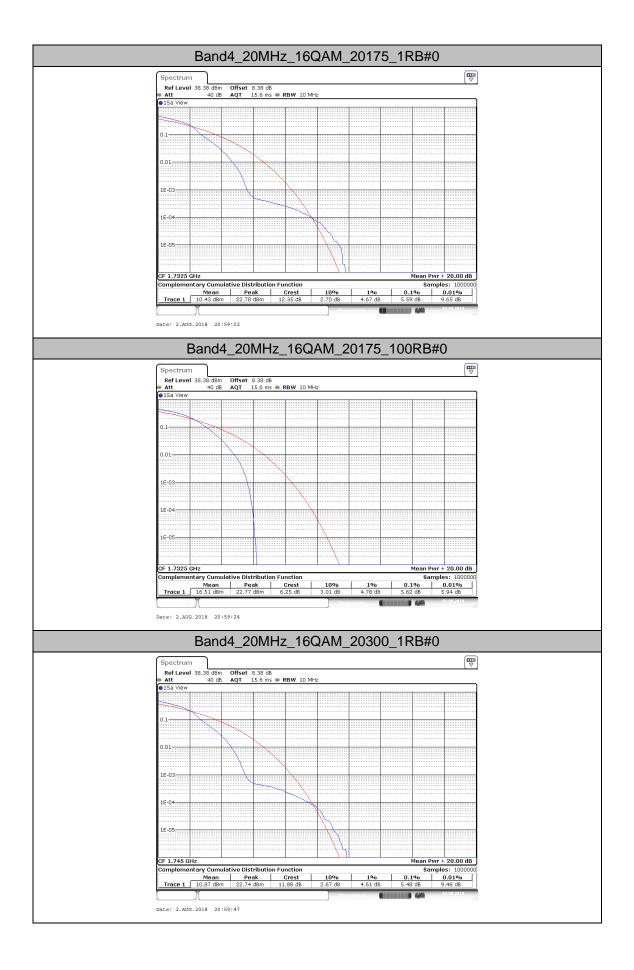


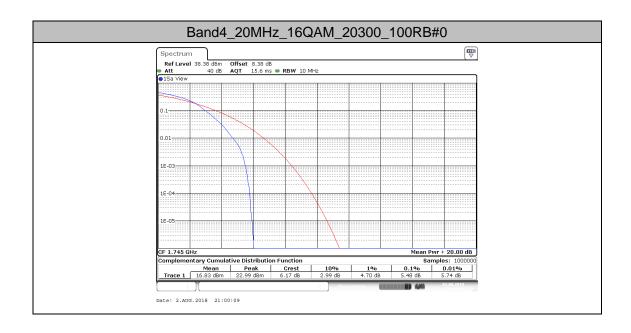












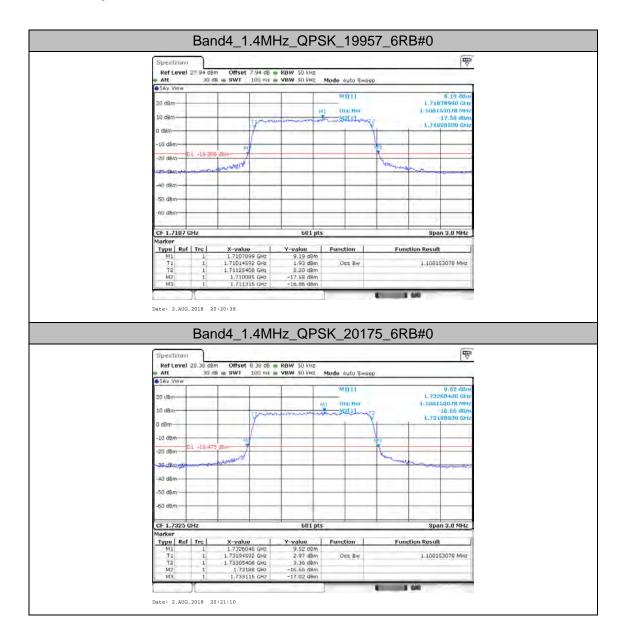
Appendix B: 26dB Bandwidth and Occupied Bandwidth

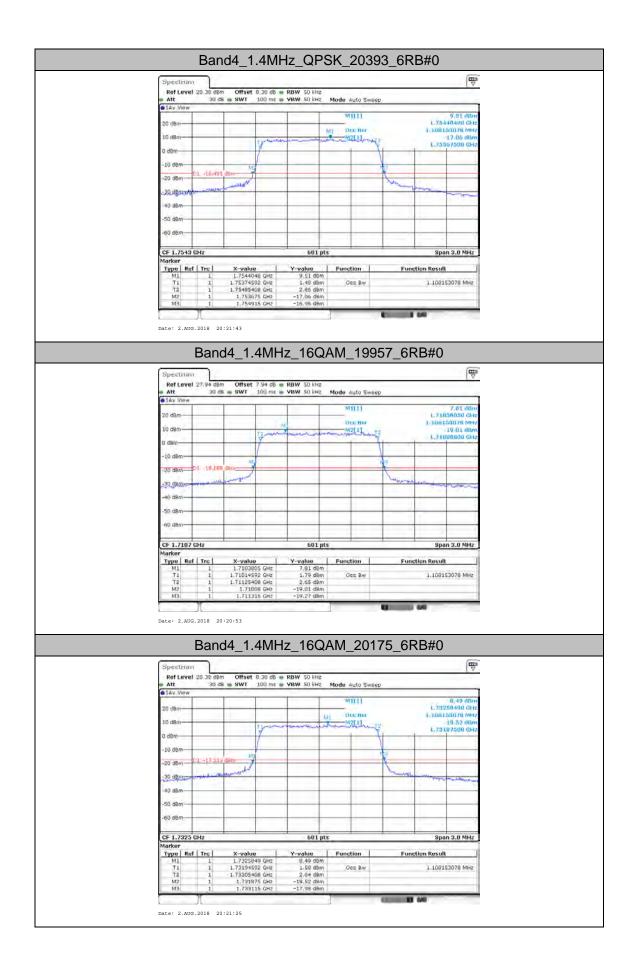
Test Result

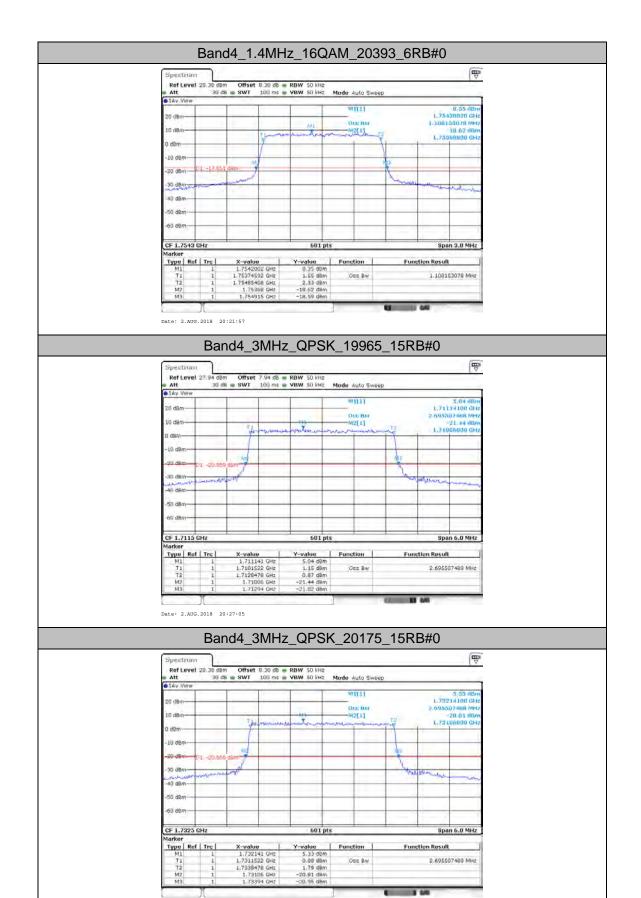
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.108	1.230	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.108	1.235	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.108	1.240	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.108	1.235	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.108	1.240	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.108	1.235	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.696	2.880	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.696	2.880	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.696	2.920	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.696	2.900	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.696	2.940	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.696	2.900	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.750	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.476	4.740	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.466	4.700	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.486	4.710	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.710	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.476	4.730	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.918	9.267	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.952	9.233	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.918	9.267	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.918	9.233	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.918	9.233	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.918	9.233	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.378	13.700	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.328	13.750	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.378	13.750	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.378	13.750	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.378	13.800	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.378	13.800	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.837	18.267	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.837	18.333	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.837	18.267	PASS

Band4	20MHz	16QAM	20050	100RB#0	17.837	18.333	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.837	18.400	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.837	18.333	PASS

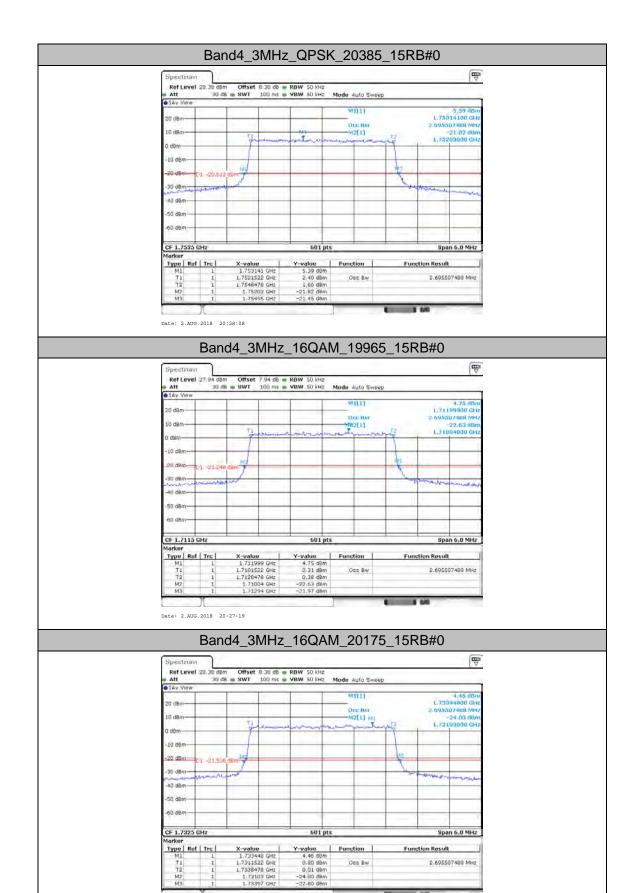
Test Graphs



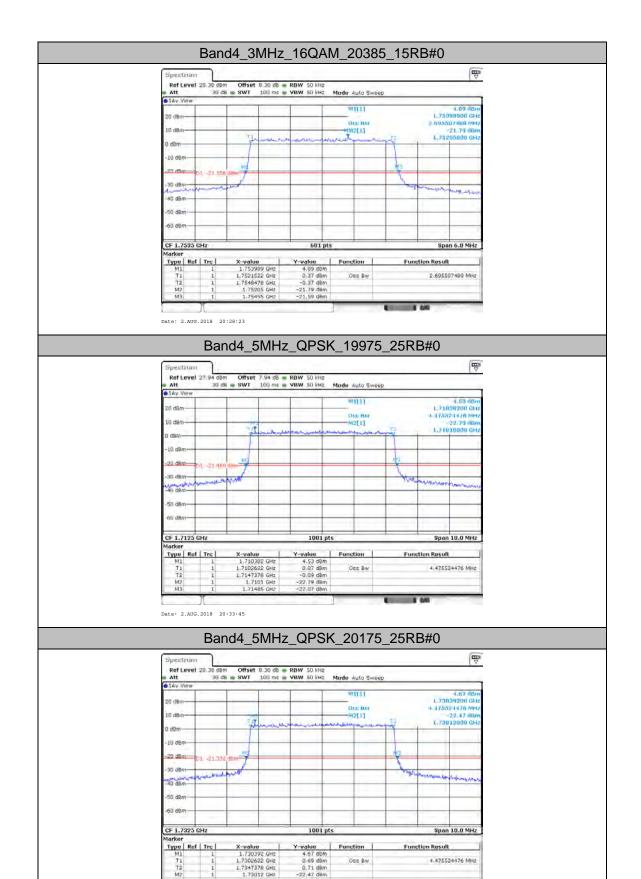




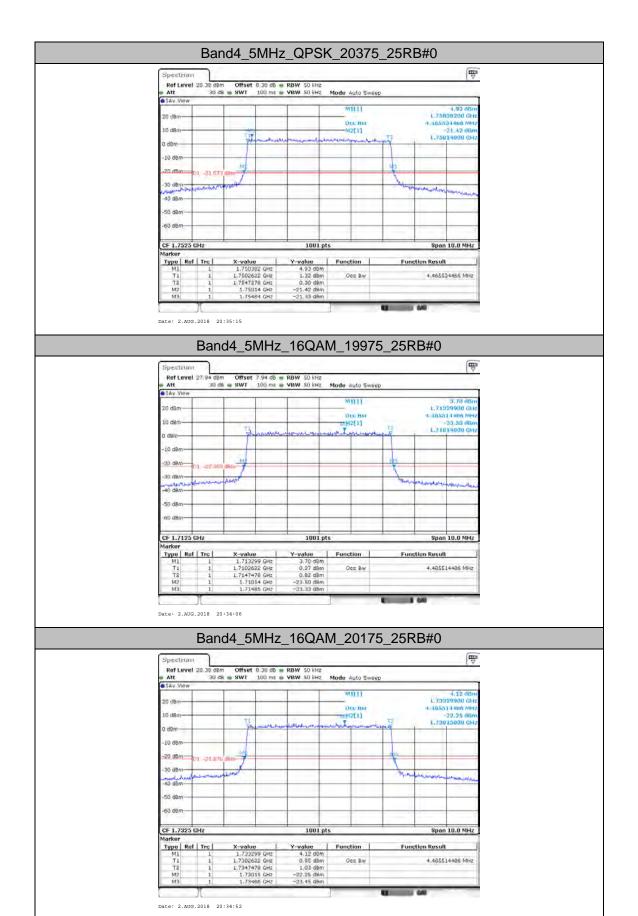
Date: 2.AUG.2018 20:27:36

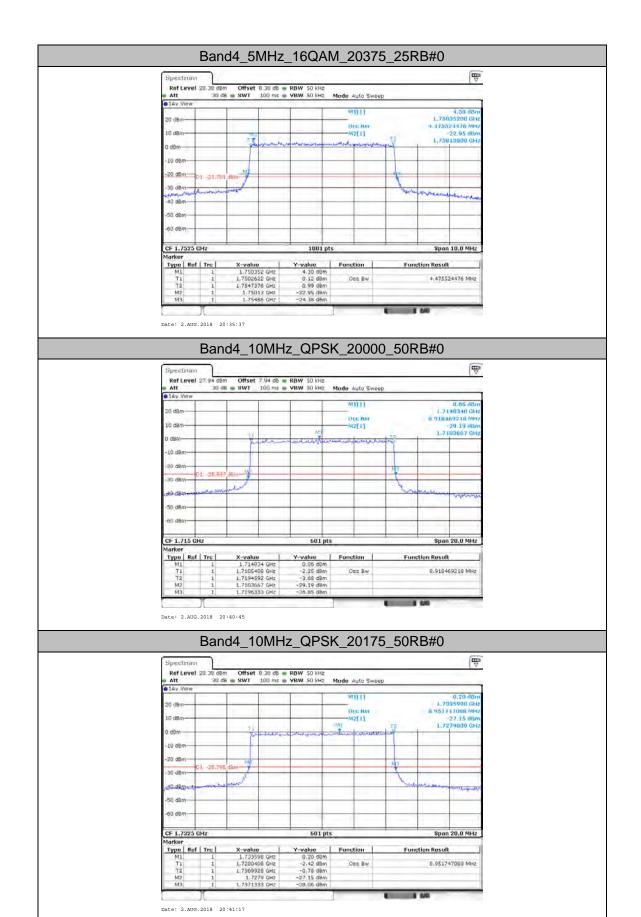


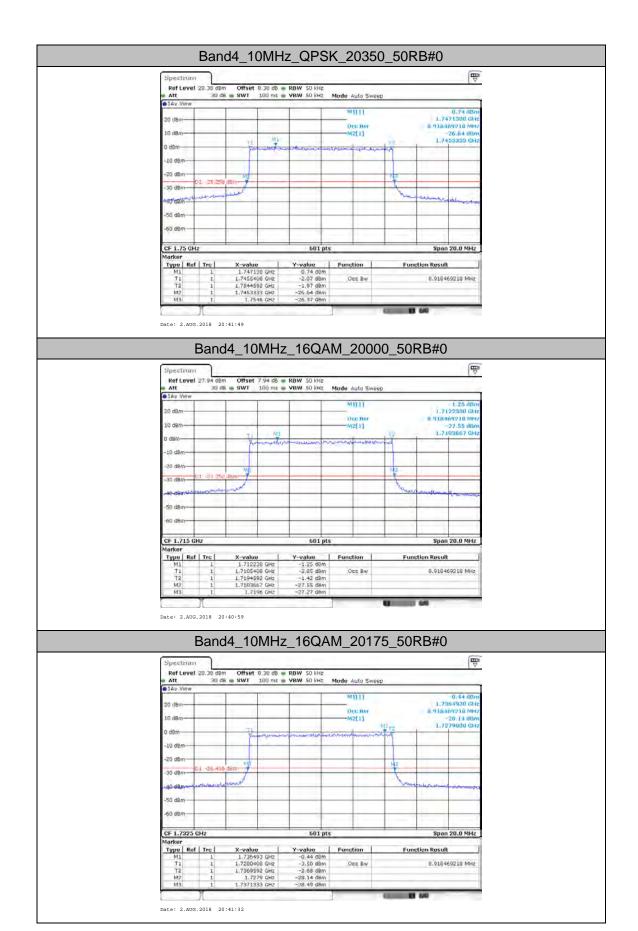
Date: 2.AUG.2018 20:27:51

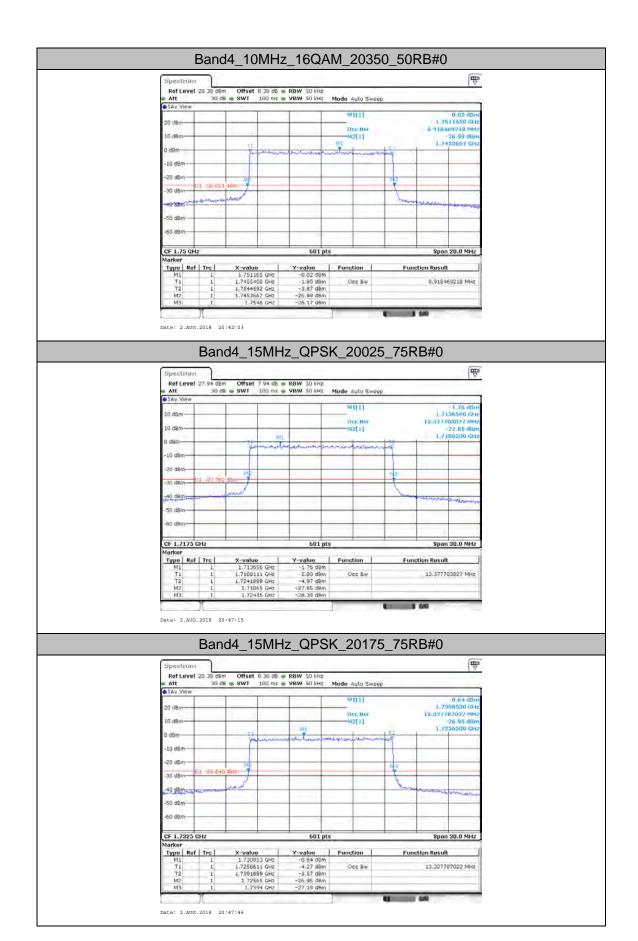


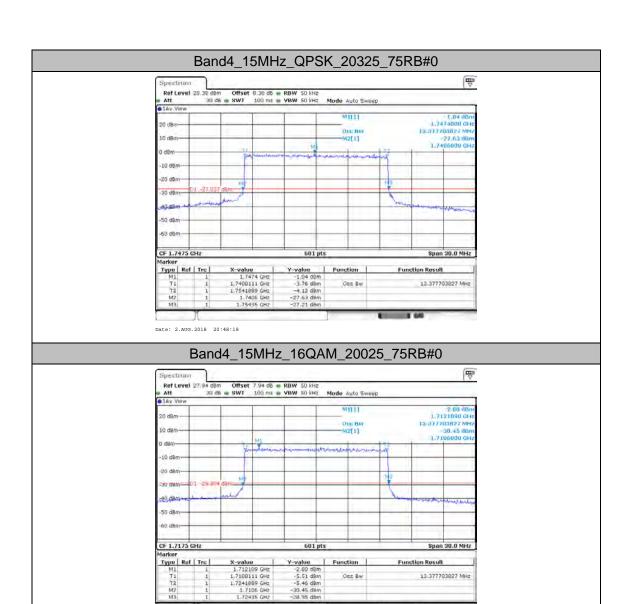
Date: 2.AUG.2018 20:34:30









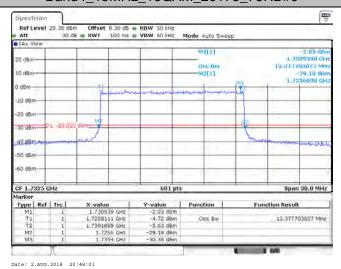


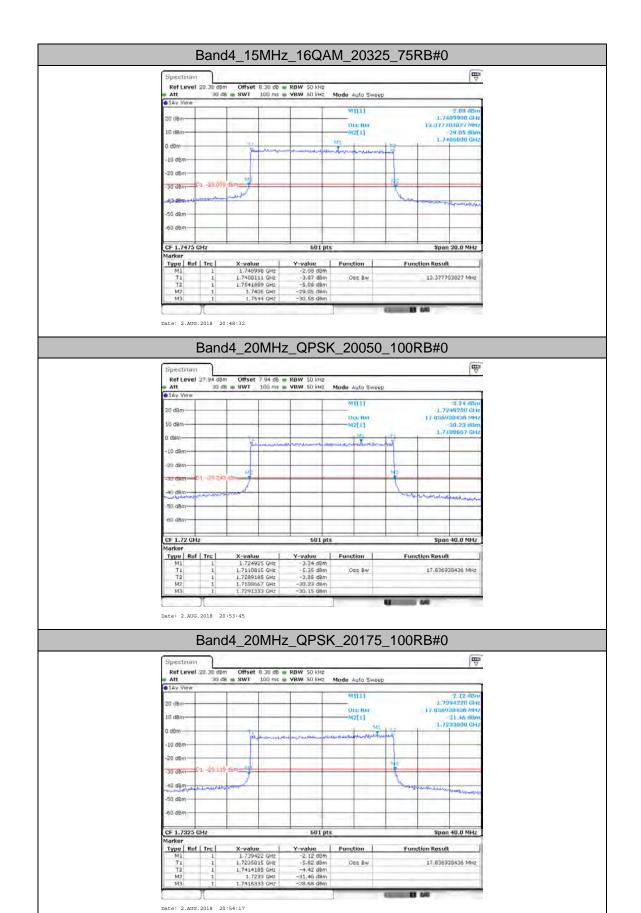
Band4_15MHz_16QAM_20175_75RB#0

Oct Bw

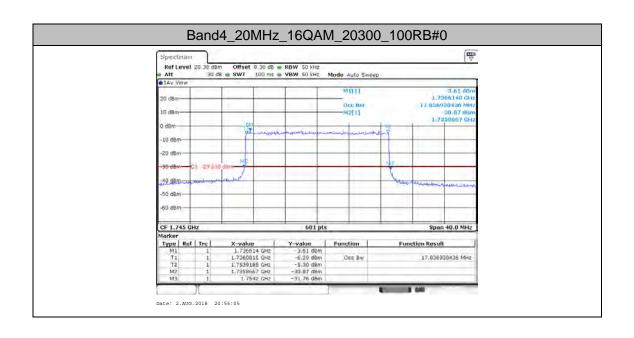
Function Result

13.377703827 MHz









Appendix C: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-18.70	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-23.93	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	-32.04	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-21.83	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-16.61	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-24.36	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	-31.28	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-24.86	PASS
Band4	3MHz	QPSK	19965	1RB#0	-14.89	PASS
Band4	3MHz	QPSK	19965	15RB#0	-24.08	PASS
Band4	3MHz	QPSK	20385	1RB#0	-29.24	PASS
Band4	3MHz	QPSK	20385	15RB#0	-21.62	PASS
Band4	3MHz	16QAM	19965	1RB#0	-13.71	PASS
Band4	3MHz	16QAM	19965	15RB#0	-25.38	PASS
Band4	3MHz	16QAM	20385	1RB#0	-30.12	PASS
Band4	3MHz	16QAM	20385	15RB#0	-24.13	PASS
Band4	5MHz	QPSK	19975	1RB#0	-20.84	PASS
Band4	5MHz	QPSK	19975	25RB#0	-28.27	PASS
Band4	5MHz	QPSK	20375	1RB#0	-38.25	PASS
Band4	5MHz	QPSK	20375	25RB#0	-29.02	PASS
Band4	5MHz	16QAM	19975	1RB#0	-20.85	PASS
Band4	5MHz	16QAM	19975	25RB#0	-30.17	PASS
Band4	5MHz	16QAM	20375	1RB#0	-38.95	PASS
Band4	5MHz	16QAM	20375	25RB#0	-30.28	PASS
Band4	10MHz	QPSK	20000	1RB#0	-26.81	PASS
Band4	10MHz	QPSK	20000	50RB#0	-31.01	PASS
Band4	10MHz	QPSK	20350	1RB#0	-42.18	PASS
Band4	10MHz	QPSK	20350	50RB#0	-31.59	PASS
Band4	10MHz	16QAM	20000	1RB#0	-26.01	PASS
Band4	10MHz	16QAM	20000	50RB#0	-31.52	PASS
Band4	10MHz	16QAM	20350	1RB#0	-40.98	PASS
Band4	10MHz	16QAM	20350	50RB#0	-32.81	PASS
Band4	15MHz	QPSK	20025	1RB#0	-29.25	PASS
Band4	15MHz	QPSK	20025	75RB#0	-32.99	PASS
Band4	15MHz	QPSK	20325	1RB#0	-45.12	PASS
Band4	15MHz	QPSK	20325	75RB#0	-32.97	PASS

Band4	15MHz	16QAM	20025	1RB#0	-28.99	PASS
Band4	15MHz	16QAM	20025	75RB#0	-33.21	PASS
Band4	15MHz	16QAM	20325	1RB#0	-45.56	PASS
Band4	15MHz	16QAM	20325	75RB#0	-34.43	PASS
Band4	20MHz	QPSK	20050	1RB#0	-32.53	PASS
Band4	20MHz	QPSK	20050	100RB#0	-35.29	PASS
Band4	20MHz	QPSK	20300	1RB#0	-30.62	PASS
Band4	20MHz	QPSK	20300	100RB#0	-35.49	PASS
Band4	20MHz	16QAM	20050	1RB#0	-32.76	PASS
Band4	20MHz	16QAM	20050	100RB#0	-36.38	PASS
Band4	20MHz	16QAM	20300	1RB#0	-31.31	PASS
Band4	20MHz	16QAM	20300	100RB#0	-36.34	PASS

Test Graphs

