

FCC LTE Band Test Data

FCC ID : 2BMDZ-Z-VOYAGE

Company: : Advanced Rugged System Co., LTD

EUT : Rugged Tablet

Model Number : Z_Voyage

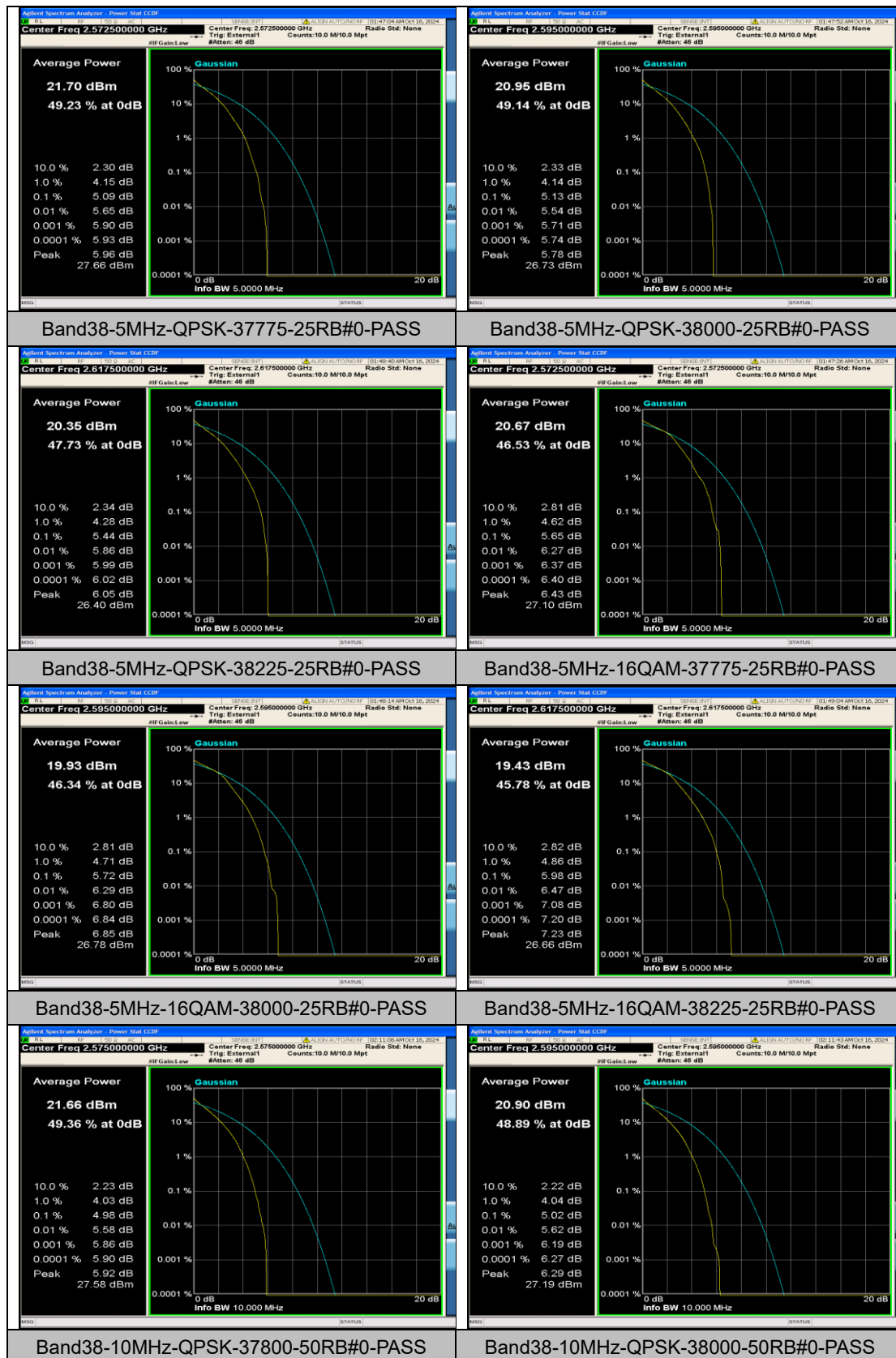
Reviewed By : Eric Wang

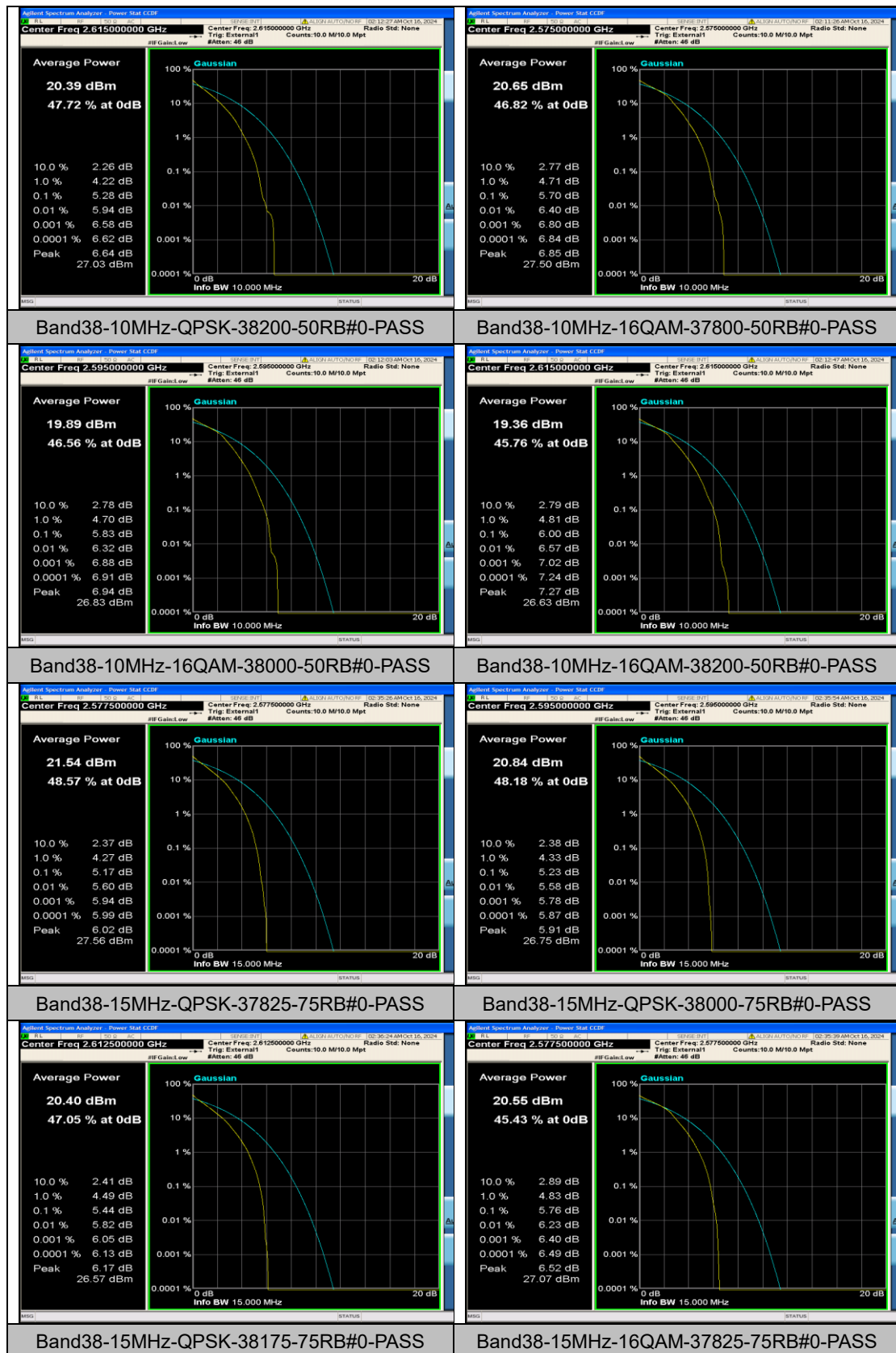
Appendix B: Peak-to-Average Ratio(CCDF)

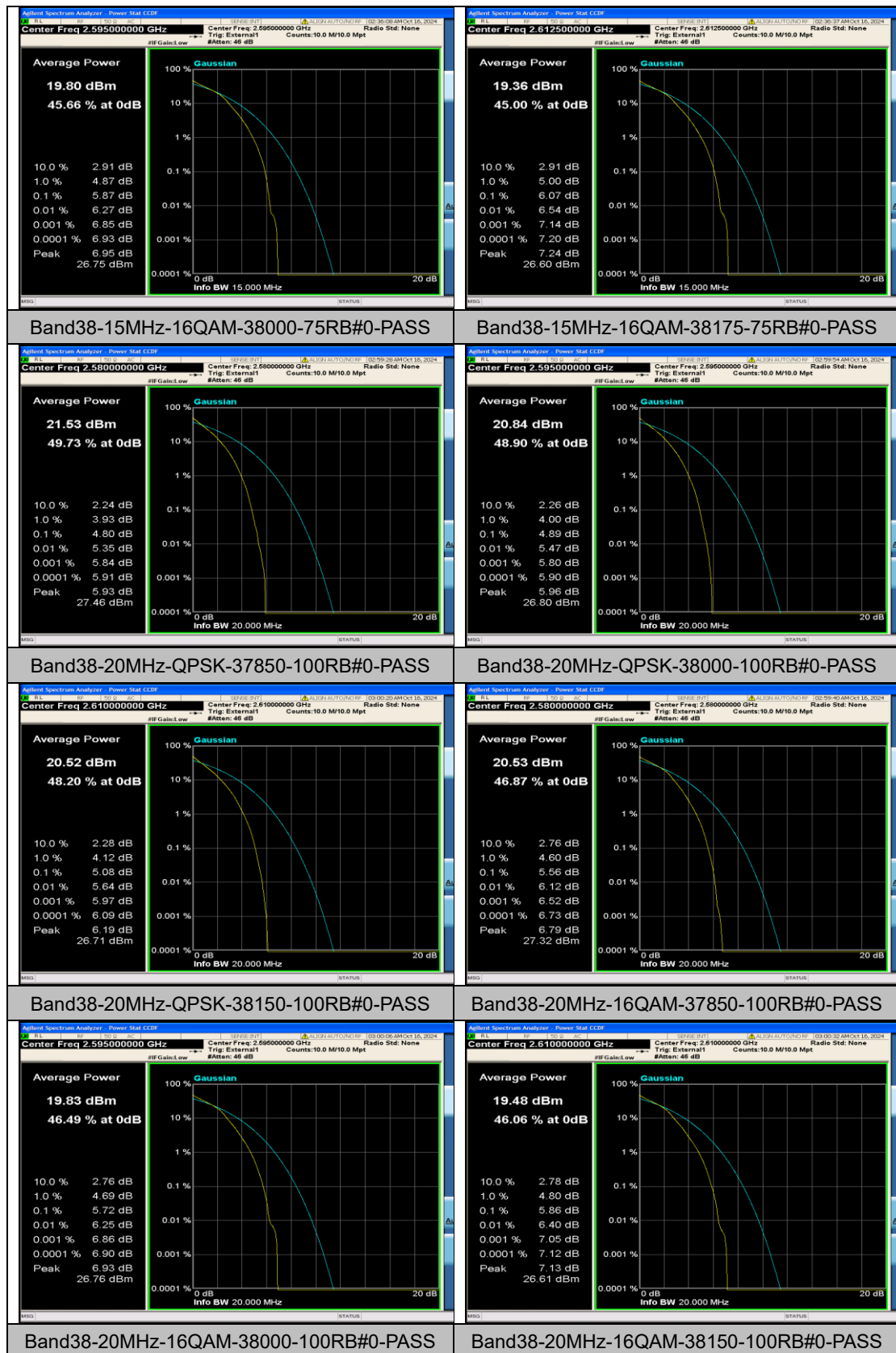
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	5.09	13	PASS
Band38	5MHz	QPSK	38000	25RB#0	5.13	13	PASS
Band38	5MHz	QPSK	38225	25RB#0	5.44	13	PASS
Band38	5MHz	16QAM	37775	25RB#0	5.65	13	PASS
Band38	5MHz	16QAM	38000	25RB#0	5.72	13	PASS
Band38	5MHz	16QAM	38225	25RB#0	5.98	13	PASS
Band38	10MHz	QPSK	37800	50RB#0	4.98	13	PASS
Band38	10MHz	QPSK	38000	50RB#0	5.02	13	PASS
Band38	10MHz	QPSK	38200	50RB#0	5.28	13	PASS
Band38	10MHz	16QAM	37800	50RB#0	5.70	13	PASS
Band38	10MHz	16QAM	38000	50RB#0	5.83	13	PASS
Band38	10MHz	16QAM	38200	50RB#0	6.00	13	PASS
Band38	15MHz	QPSK	37825	75RB#0	5.17	13	PASS
Band38	15MHz	QPSK	38000	75RB#0	5.23	13	PASS
Band38	15MHz	QPSK	38175	75RB#0	5.44	13	PASS
Band38	15MHz	16QAM	37825	75RB#0	5.76	13	PASS
Band38	15MHz	16QAM	38000	75RB#0	5.87	13	PASS
Band38	15MHz	16QAM	38175	75RB#0	6.07	13	PASS
Band38	20MHz	QPSK	37850	100RB#0	4.80	13	PASS
Band38	20MHz	QPSK	38000	100RB#0	4.89	13	PASS
Band38	20MHz	QPSK	38150	100RB#0	5.08	13	PASS
Band38	20MHz	16QAM	37850	100RB#0	5.56	13	PASS
Band38	20MHz	16QAM	38000	100RB#0	5.72	13	PASS
Band38	20MHz	16QAM	38150	100RB#0	5.86	13	PASS

Test Graphs





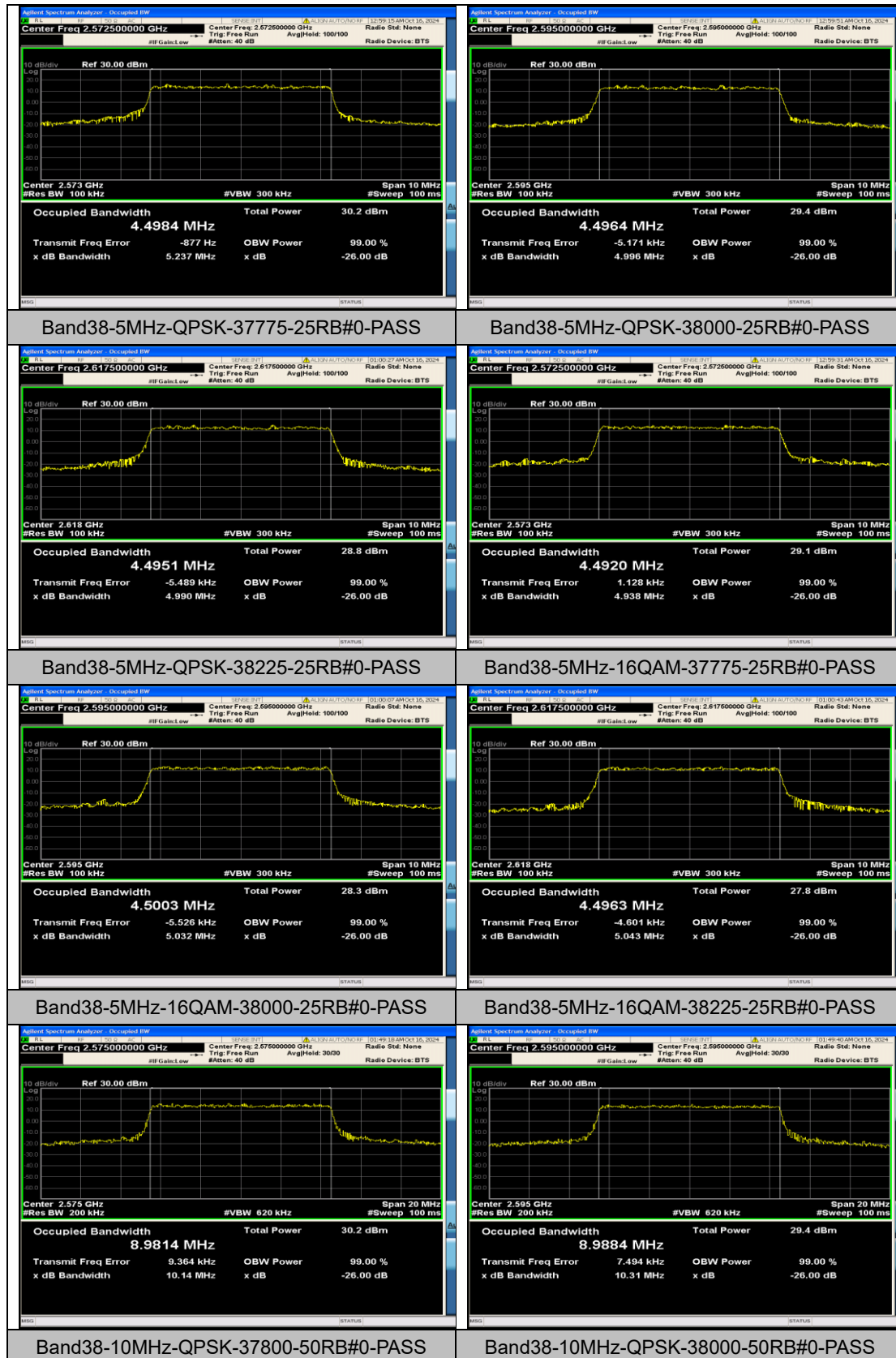


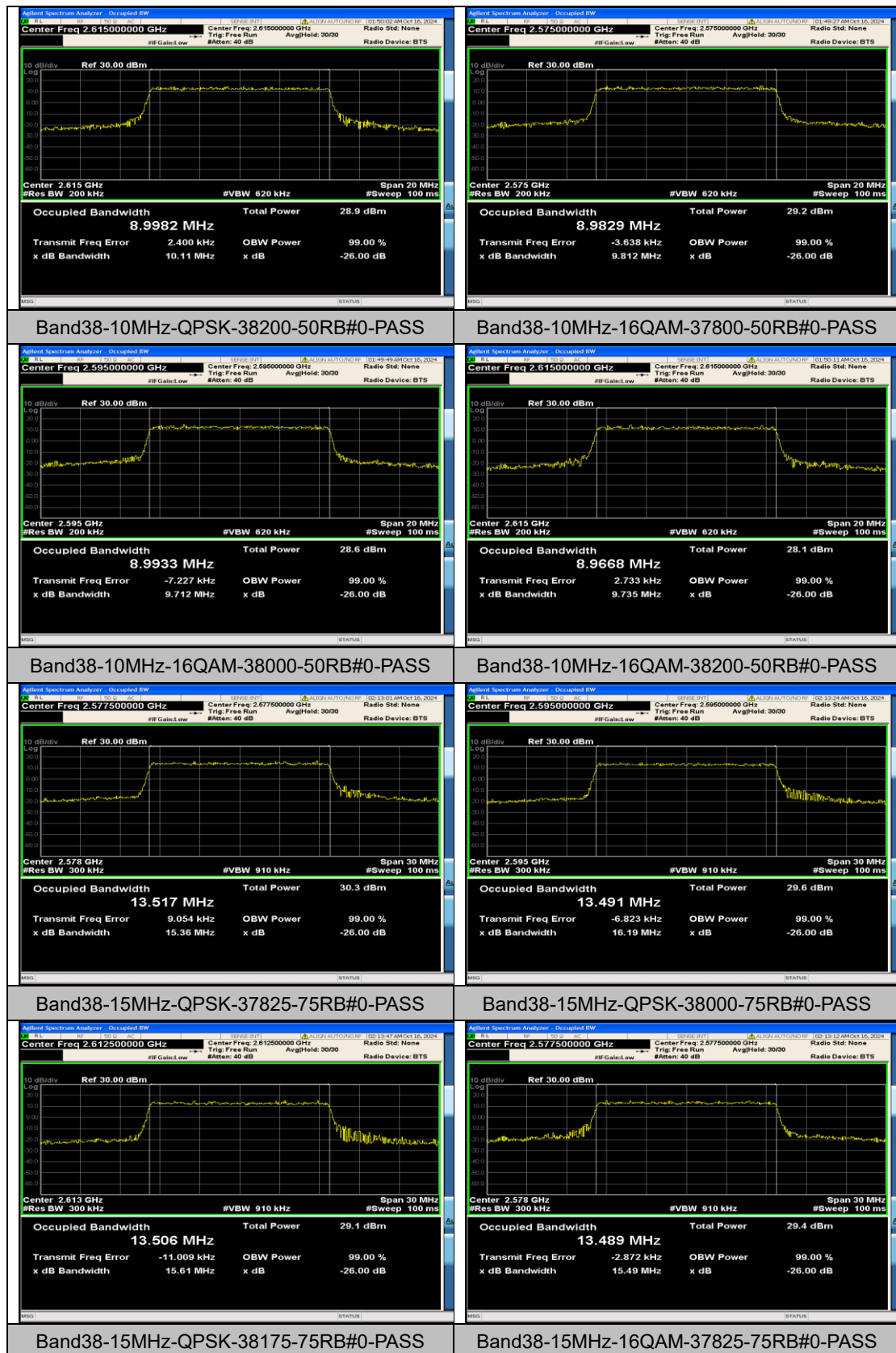
Appendix C: 26dB Bandwidth and Occupied Bandwidth

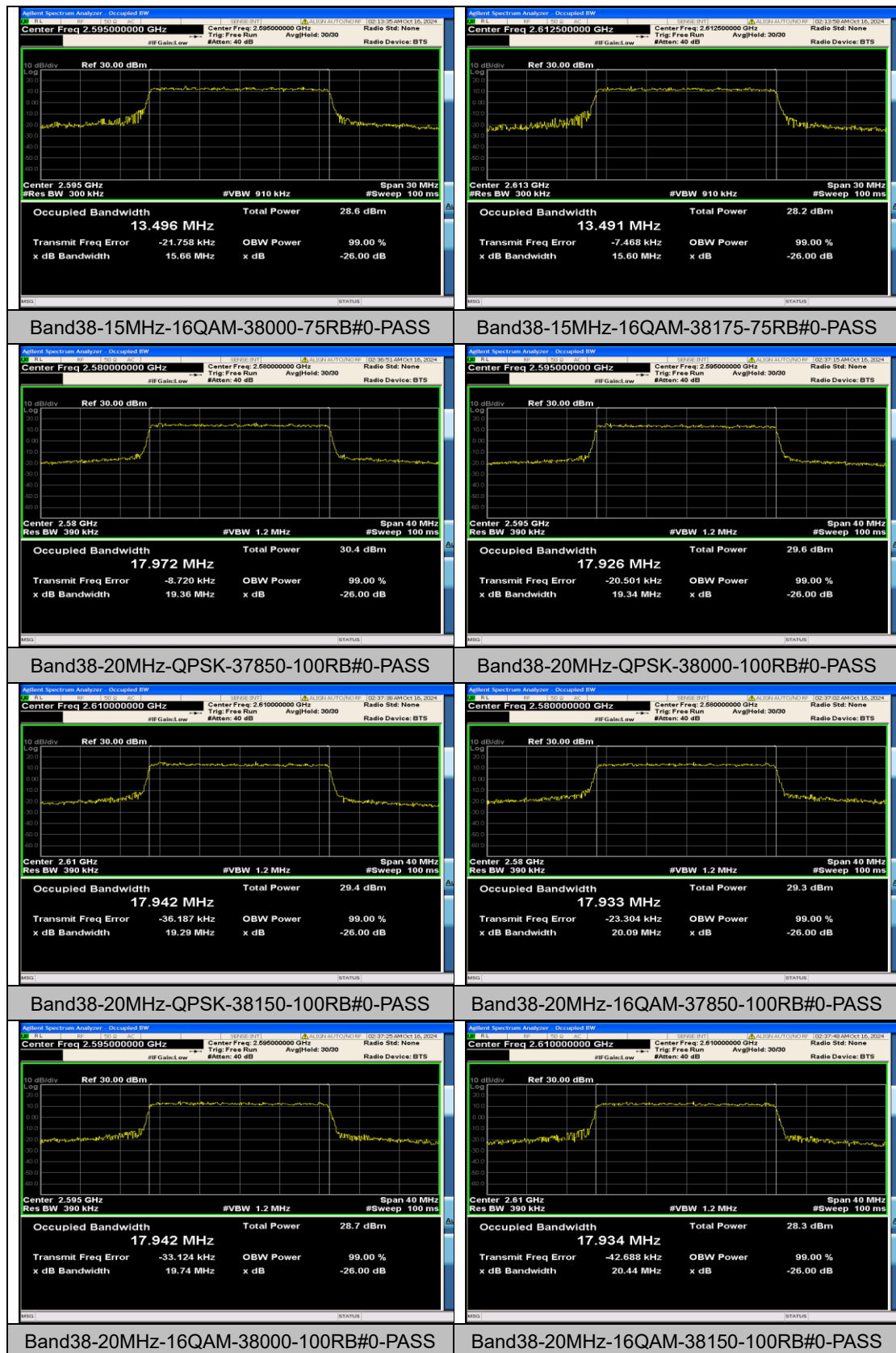
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	4.4984	5.237	PASS
Band38	5MHz	QPSK	38000	25RB#0	4.4964	4.996	PASS
Band38	5MHz	QPSK	38225	25RB#0	4.4951	4.990	PASS
Band38	5MHz	16QAM	37775	25RB#0	4.4920	4.938	PASS
Band38	5MHz	16QAM	38000	25RB#0	4.5003	5.032	PASS
Band38	5MHz	16QAM	38225	25RB#0	4.4963	5.043	PASS
Band38	10MHz	QPSK	37800	50RB#0	8.9814	10.14	PASS
Band38	10MHz	QPSK	38000	50RB#0	8.9884	10.31	PASS
Band38	10MHz	QPSK	38200	50RB#0	8.9982	10.11	PASS
Band38	10MHz	16QAM	37800	50RB#0	8.9829	9.812	PASS
Band38	10MHz	16QAM	38000	50RB#0	8.9933	9.712	PASS
Band38	10MHz	16QAM	38200	50RB#0	8.9668	9.735	PASS
Band38	15MHz	QPSK	37825	75RB#0	13.517	15.36	PASS
Band38	15MHz	QPSK	38000	75RB#0	13.491	16.19	PASS
Band38	15MHz	QPSK	38175	75RB#0	13.506	15.61	PASS
Band38	15MHz	16QAM	37825	75RB#0	13.489	15.49	PASS
Band38	15MHz	16QAM	38000	75RB#0	13.496	15.66	PASS
Band38	15MHz	16QAM	38175	75RB#0	13.491	15.60	PASS
Band38	20MHz	QPSK	37850	100RB#0	17.972	19.36	PASS
Band38	20MHz	QPSK	38000	100RB#0	17.926	19.34	PASS
Band38	20MHz	QPSK	38150	100RB#0	17.942	19.29	PASS
Band38	20MHz	16QAM	37850	100RB#0	17.933	20.09	PASS
Band38	20MHz	16QAM	38000	100RB#0	17.942	19.74	PASS
Band38	20MHz	16QAM	38150	100RB#0	17.934	20.44	PASS

Test Graphs





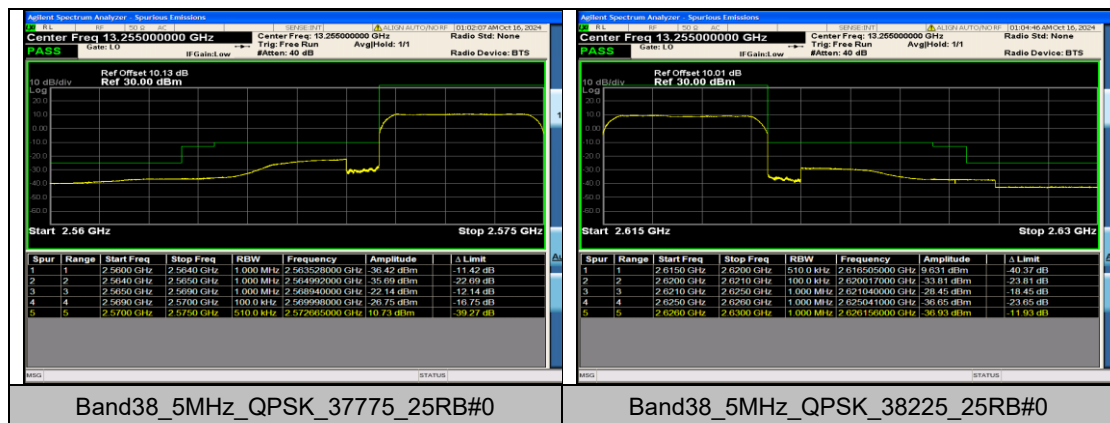


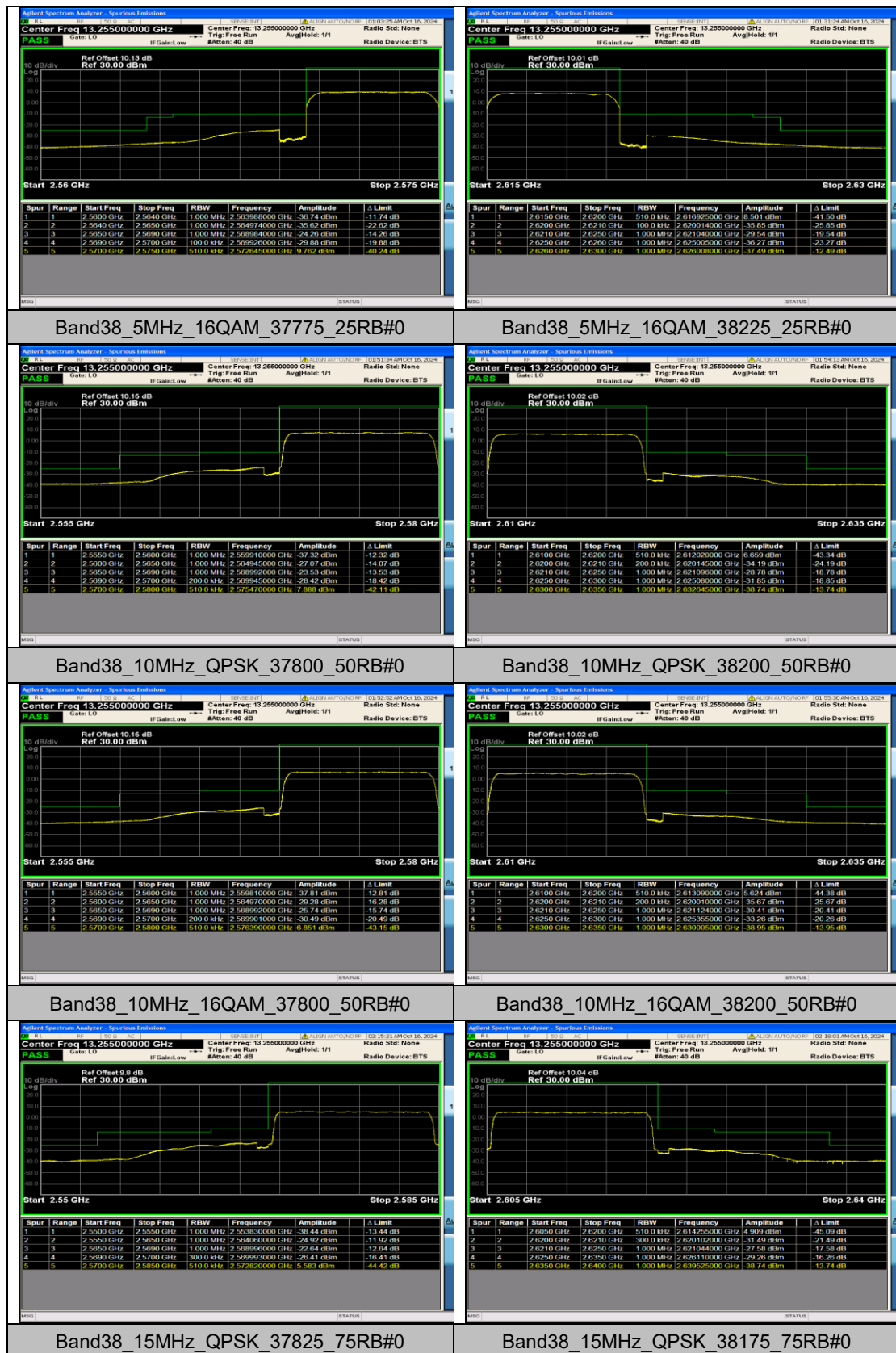
Appendix D: Band Edge

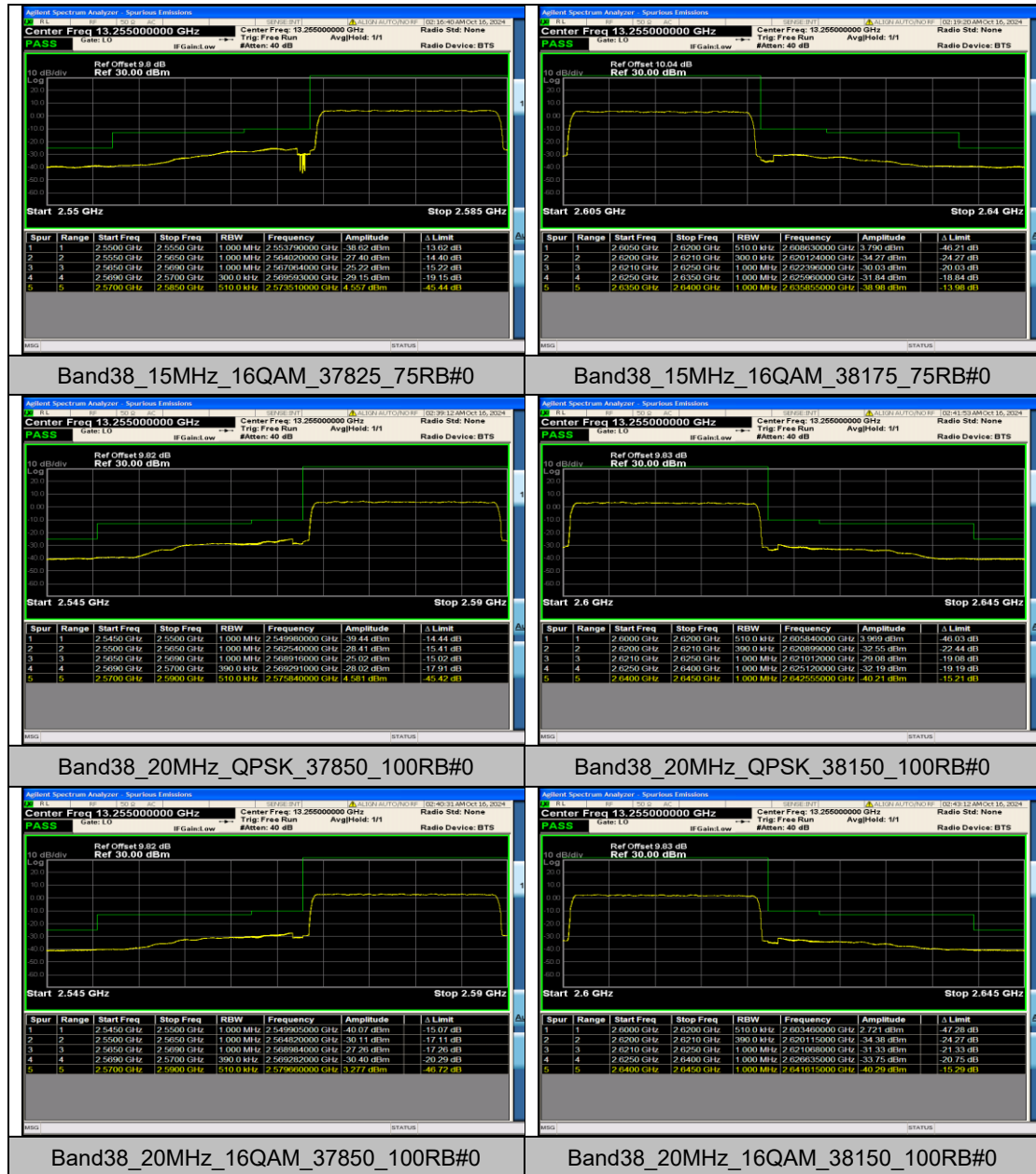
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	-36.42	PASS
Band38	5MHz	QPSK	38225	25RB#0	-36.93	PASS
Band38	5MHz	16QAM	37775	25RB#0	-36.74	PASS
Band38	5MHz	16QAM	38225	25RB#0	-37.49	PASS
Band38	10MHz	QPSK	37800	50RB#0	-37.32	PASS
Band38	10MHz	QPSK	38200	50RB#0	-38.74	PASS
Band38	10MHz	16QAM	37800	50RB#0	-37.81	PASS
Band38	10MHz	16QAM	38200	50RB#0	-38.95	PASS
Band38	15MHz	QPSK	37825	75RB#0	-24.92	PASS
Band38	15MHz	QPSK	38175	75RB#0	-38.74	PASS
Band38	15MHz	16QAM	37825	75RB#0	-38.62	PASS
Band38	15MHz	16QAM	38175	75RB#0	-38.98	PASS
Band38	20MHz	QPSK	37850	100RB#0	-39.44	PASS
Band38	20MHz	QPSK	38150	100RB#0	-40.21	PASS
Band38	20MHz	16QAM	37850	100RB#0	-40.07	PASS
Band38	20MHz	16QAM	38150	100RB#0	-40.29	PASS

Test Graphs







Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band38	5MHz	QPSK	37775	25RB#0	0.009~0.15	-71.09	PASS
Band38	5MHz	QPSK	37775	25RB#0	0.15~30	-61.37	PASS
Band38	5MHz	QPSK	37775	25RB#0	30~1000	-61.64	PASS
Band38	5MHz	QPSK	37775	25RB#0	1000~20000	-34.98	PASS
Band38	5MHz	QPSK	37775	25RB#0	20000~27000	-31.46	PASS
Band38	5MHz	QPSK	38000	25RB#0	0.009~0.15	-74.28	PASS
Band38	5MHz	QPSK	38000	25RB#0	0.15~30	-60.61	PASS
Band38	5MHz	QPSK	38000	25RB#0	30~1000	-61.75	PASS
Band38	5MHz	QPSK	38000	25RB#0	1000~20000	-34.87	PASS
Band38	5MHz	QPSK	38000	25RB#0	20000~27000	-31.20	PASS
Band38	5MHz	QPSK	38225	25RB#0	0.009~0.15	-73.24	PASS
Band38	5MHz	QPSK	38225	25RB#0	0.15~30	-62.99	PASS
Band38	5MHz	QPSK	38225	25RB#0	30~1000	-62.20	PASS
Band38	5MHz	QPSK	38225	25RB#0	1000~20000	-35.92	PASS
Band38	5MHz	QPSK	38225	25RB#0	20000~27000	-31.14	PASS
Band38	5MHz	16QAM	37775	25RB#0	0.009~0.15	-72.89	PASS
Band38	5MHz	16QAM	37775	25RB#0	0.15~30	-61.88	PASS
Band38	5MHz	16QAM	37775	25RB#0	30~1000	-61.30	PASS
Band38	5MHz	16QAM	37775	25RB#0	1000~20000	-36.90	PASS
Band38	5MHz	16QAM	37775	25RB#0	20000~27000	-31.57	PASS
Band38	5MHz	16QAM	38000	25RB#0	0.009~0.15	-71.55	PASS
Band38	5MHz	16QAM	38000	25RB#0	0.15~30	-62.29	PASS
Band38	5MHz	16QAM	38000	25RB#0	30~1000	-61.62	PASS
Band38	5MHz	16QAM	38000	25RB#0	1000~20000	-37.46	PASS
Band38	5MHz	16QAM	38000	25RB#0	20000~27000	-31.21	PASS
Band38	5MHz	16QAM	38225	25RB#0	0.009~0.15	-72.04	PASS
Band38	5MHz	16QAM	38225	25RB#0	0.15~30	-57.17	PASS
Band38	5MHz	16QAM	38225	25RB#0	30~1000	-61.95	PASS
Band38	5MHz	16QAM	38225	25RB#0	1000~20000	-37.50	PASS
Band38	5MHz	16QAM	38225	25RB#0	20000~27000	-31.30	PASS
Band38	10MHz	QPSK	37800	50RB#0	0.009~0.15	-70.90	PASS
Band38	10MHz	QPSK	37800	50RB#0	0.15~30	-62.32	PASS
Band38	10MHz	QPSK	37800	50RB#0	30~1000	-61.85	PASS
Band38	10MHz	QPSK	37800	50RB#0	1000~20000	-37.67	PASS
Band38	10MHz	QPSK	37800	50RB#0	20000~27000	-31.23	PASS
Band38	10MHz	QPSK	38000	50RB#0	0.009~0.15	-71.33	PASS

Band38	10MHz	QPSK	38000	50RB#0	0.15~30	-61.25	PASS
Band38	10MHz	QPSK	38000	50RB#0	30~1000	-62.06	PASS
Band38	10MHz	QPSK	38000	50RB#0	1000~20000	-37.73	PASS
Band38	10MHz	QPSK	38000	50RB#0	20000~27000	-31.25	PASS
Band38	10MHz	QPSK	38200	50RB#0	0.009~0.15	-71.94	PASS
Band38	10MHz	QPSK	38200	50RB#0	0.15~30	-61.76	PASS
Band38	10MHz	QPSK	38200	50RB#0	30~1000	-61.95	PASS
Band38	10MHz	QPSK	38200	50RB#0	1000~20000	-37.61	PASS
Band38	10MHz	QPSK	38200	50RB#0	20000~27000	-31.11	PASS
Band38	10MHz	16QAM	37800	50RB#0	0.009~0.15	-73.72	PASS
Band38	10MHz	16QAM	37800	50RB#0	0.15~30	-62.08	PASS
Band38	10MHz	16QAM	37800	50RB#0	30~1000	-61.84	PASS
Band38	10MHz	16QAM	37800	50RB#0	1000~20000	-37.83	PASS
Band38	10MHz	16QAM	37800	50RB#0	20000~27000	-31.13	PASS
Band38	10MHz	16QAM	38000	50RB#0	0.009~0.15	-71.20	PASS
Band38	10MHz	16QAM	38000	50RB#0	0.15~30	-61.44	PASS
Band38	10MHz	16QAM	38000	50RB#0	30~1000	-61.93	PASS
Band38	10MHz	16QAM	38000	50RB#0	1000~20000	-37.83	PASS
Band38	10MHz	16QAM	38000	50RB#0	20000~27000	-30.90	PASS
Band38	10MHz	16QAM	38200	50RB#0	0.009~0.15	-69.43	PASS
Band38	10MHz	16QAM	38200	50RB#0	0.15~30	-58.75	PASS
Band38	10MHz	16QAM	38200	50RB#0	30~1000	-61.78	PASS
Band38	10MHz	16QAM	38200	50RB#0	1000~20000	-38.01	PASS
Band38	10MHz	16QAM	38200	50RB#0	20000~27000	-31.23	PASS
Band38	15MHz	QPSK	37825	75RB#0	0.009~0.15	-73.58	PASS
Band38	15MHz	QPSK	37825	75RB#0	0.15~30	-60.02	PASS
Band38	15MHz	QPSK	37825	75RB#0	30~1000	-61.80	PASS
Band38	15MHz	QPSK	37825	75RB#0	1000~20000	-36.75	PASS
Band38	15MHz	QPSK	37825	75RB#0	20000~27000	-31.26	PASS
Band38	15MHz	QPSK	38000	75RB#0	0.009~0.15	-73.56	PASS
Band38	15MHz	QPSK	38000	75RB#0	0.15~30	-62.02	PASS
Band38	15MHz	QPSK	38000	75RB#0	30~1000	-61.51	PASS
Band38	15MHz	QPSK	38000	75RB#0	1000~20000	-37.78	PASS
Band38	15MHz	QPSK	38000	75RB#0	20000~27000	-31.05	PASS
Band38	15MHz	QPSK	38175	75RB#0	0.009~0.15	-73.78	PASS
Band38	15MHz	QPSK	38175	75RB#0	0.15~30	-62.34	PASS
Band38	15MHz	QPSK	38175	75RB#0	30~1000	-61.10	PASS
Band38	15MHz	QPSK	38175	75RB#0	1000~20000	-37.24	PASS
Band38	15MHz	QPSK	38175	75RB#0	20000~27000	-31.18	PASS
Band38	15MHz	16QAM	37825	75RB#0	0.009~0.15	-69.90	PASS
Band38	15MHz	16QAM	37825	75RB#0	0.15~30	-60.36	PASS
Band38	15MHz	16QAM	37825	75RB#0	30~1000	-61.47	PASS
Band38	15MHz	16QAM	37825	75RB#0	1000~20000	-37.50	PASS

Band38	15MHz	16QAM	37825	75RB#0	20000~27000	-31.27	PASS
Band38	15MHz	16QAM	38000	75RB#0	0.009~0.15	-72.65	PASS
Band38	15MHz	16QAM	38000	75RB#0	0.15~30	-64.26	PASS
Band38	15MHz	16QAM	38000	75RB#0	30~1000	-61.34	PASS
Band38	15MHz	16QAM	38000	75RB#0	1000~20000	-37.69	PASS
Band38	15MHz	16QAM	38000	75RB#0	20000~27000	-30.74	PASS
Band38	15MHz	16QAM	38175	75RB#0	0.009~0.15	-68.75	PASS
Band38	15MHz	16QAM	38175	75RB#0	0.15~30	-61.11	PASS
Band38	15MHz	16QAM	38175	75RB#0	30~1000	-60.70	PASS
Band38	15MHz	16QAM	38175	75RB#0	1000~20000	-37.78	PASS
Band38	15MHz	16QAM	38175	75RB#0	20000~27000	-31.18	PASS
Band38	20MHz	QPSK	37850	100RB#0	0.009~0.15	-72.65	PASS
Band38	20MHz	QPSK	37850	100RB#0	0.15~30	-61.55	PASS
Band38	20MHz	QPSK	37850	100RB#0	30~1000	-61.97	PASS
Band38	20MHz	QPSK	37850	100RB#0	1000~20000	-37.89	PASS
Band38	20MHz	QPSK	37850	100RB#0	20000~27000	-31.62	PASS
Band38	20MHz	QPSK	38000	100RB#0	0.009~0.15	-72.46	PASS
Band38	20MHz	QPSK	38000	100RB#0	0.15~30	-62.71	PASS
Band38	20MHz	QPSK	38000	100RB#0	30~1000	-62.04	PASS
Band38	20MHz	QPSK	38000	100RB#0	1000~20000	-37.98	PASS
Band38	20MHz	QPSK	38000	100RB#0	20000~27000	-31.45	PASS
Band38	20MHz	QPSK	38150	100RB#0	0.009~0.15	-72.89	PASS
Band38	20MHz	QPSK	38150	100RB#0	0.15~30	-63.36	PASS
Band38	20MHz	QPSK	38150	100RB#0	30~1000	-61.95	PASS
Band38	20MHz	QPSK	38150	100RB#0	1000~20000	-37.89	PASS
Band38	20MHz	QPSK	38150	100RB#0	20000~27000	-31.34	PASS
Band38	20MHz	16QAM	37850	100RB#0	0.009~0.15	-73.07	PASS
Band38	20MHz	16QAM	37850	100RB#0	0.15~30	-59.97	PASS
Band38	20MHz	16QAM	37850	100RB#0	30~1000	-62.16	PASS
Band38	20MHz	16QAM	37850	100RB#0	1000~20000	-35.64	PASS
Band38	20MHz	16QAM	37850	100RB#0	20000~27000	-30.90	PASS
Band38	20MHz	16QAM	38000	100RB#0	0.009~0.15	-72.55	PASS
Band38	20MHz	16QAM	38000	100RB#0	0.15~30	-63.38	PASS
Band38	20MHz	16QAM	38000	100RB#0	30~1000	-61.70	PASS
Band38	20MHz	16QAM	38000	100RB#0	1000~20000	-38.06	PASS
Band38	20MHz	16QAM	38000	100RB#0	20000~27000	-31.29	PASS
Band38	20MHz	16QAM	38150	100RB#0	0.009~0.15	-73.48	PASS
Band38	20MHz	16QAM	38150	100RB#0	0.15~30	-60.72	PASS
Band38	20MHz	16QAM	38150	100RB#0	30~1000	-61.85	PASS
Band38	20MHz	16QAM	38150	100RB#0	1000~20000	-37.83	PASS
Band38	20MHz	16QAM	38150	100RB#0	20000~27000	-31.24	PASS

Test Graphs

