

FCC LTE Band Test Data

FCC ID : 2BL85-LEM

Company: : SHENZHEN WAYFOR WARD ELECTRONIC CO.,LTD

EUT : smart watch

Model Number : LEM10

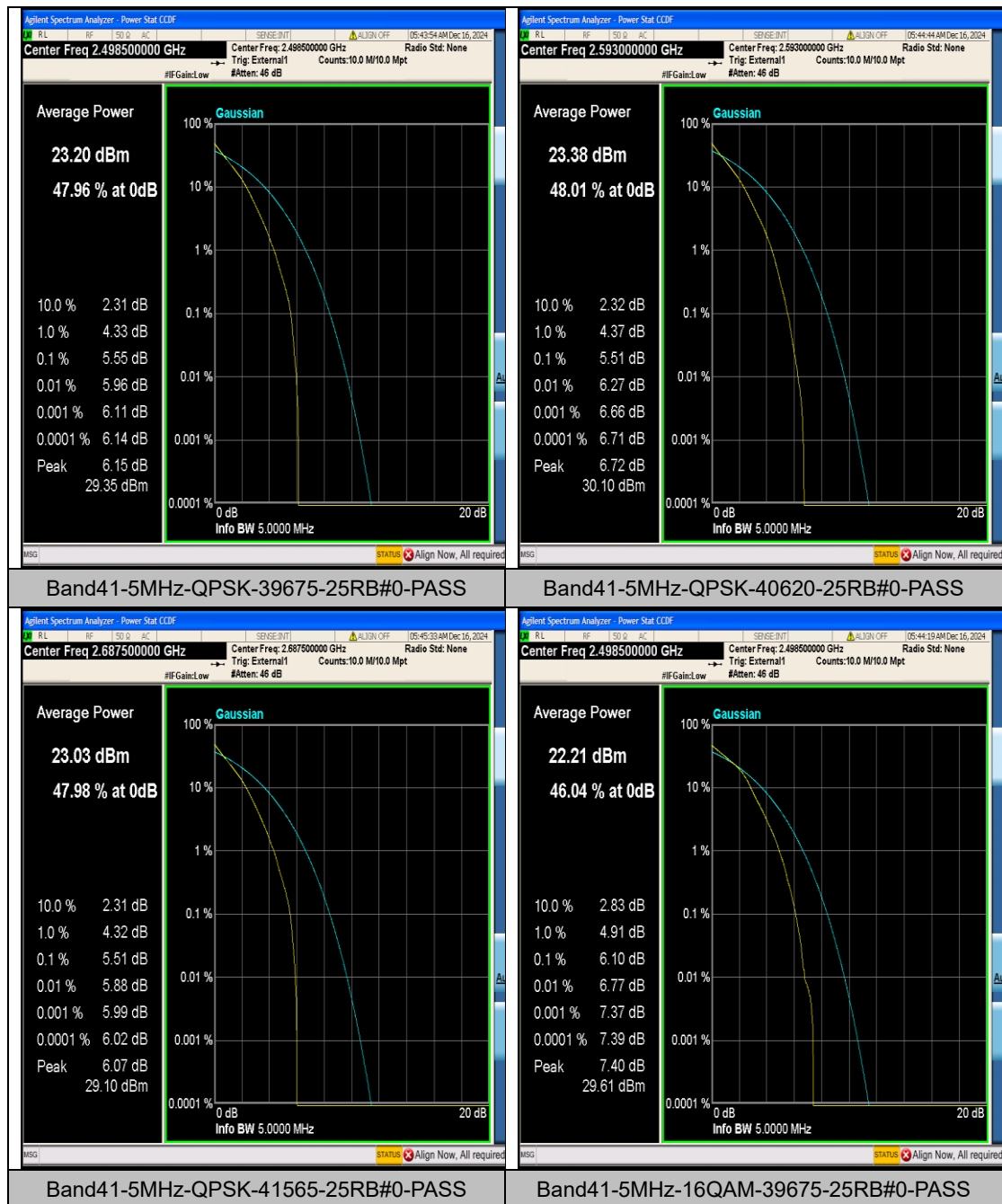
Reviewed By : Eric Wang

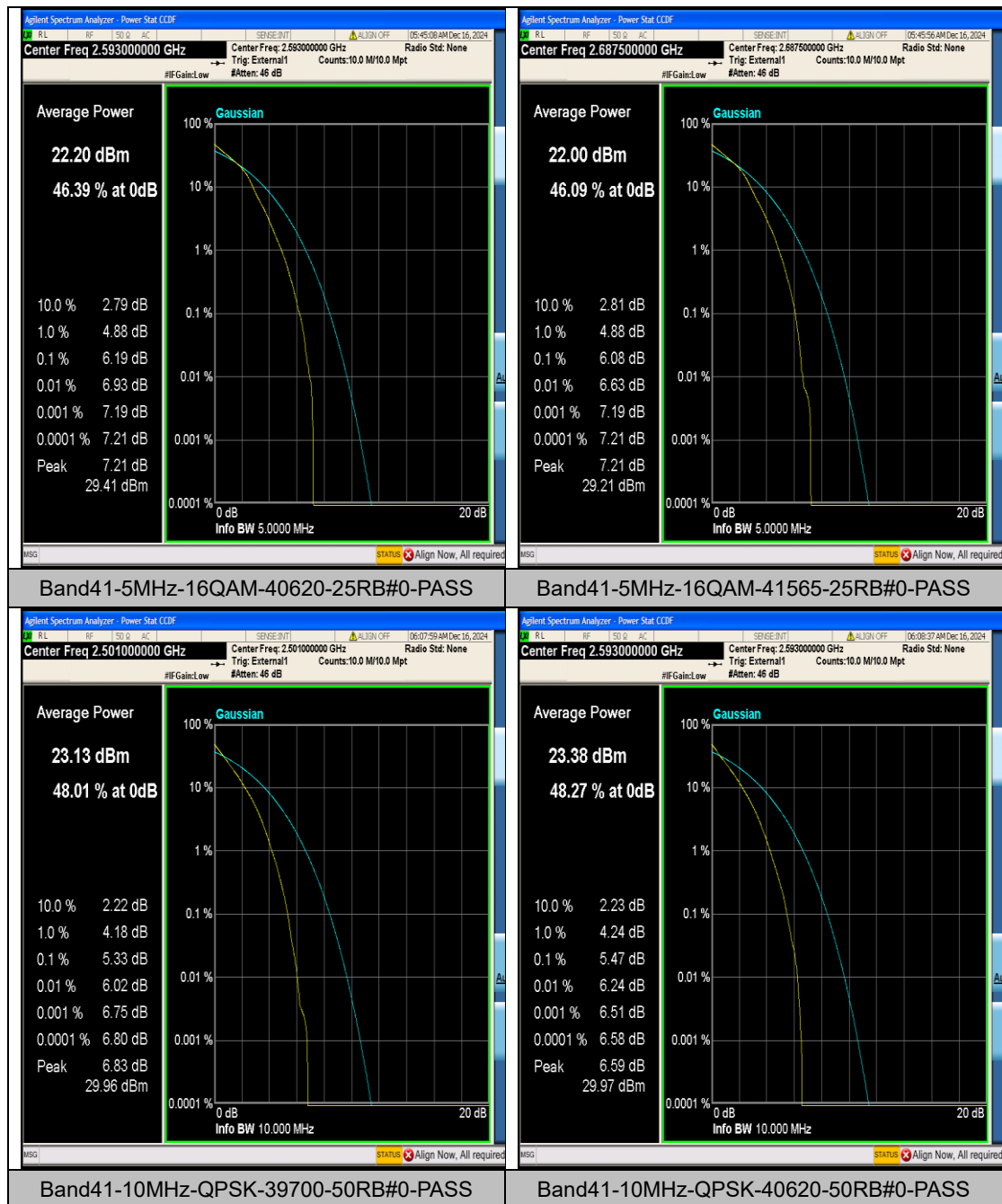
Appendix B: Peak-to-Average Ratio(CCDF)

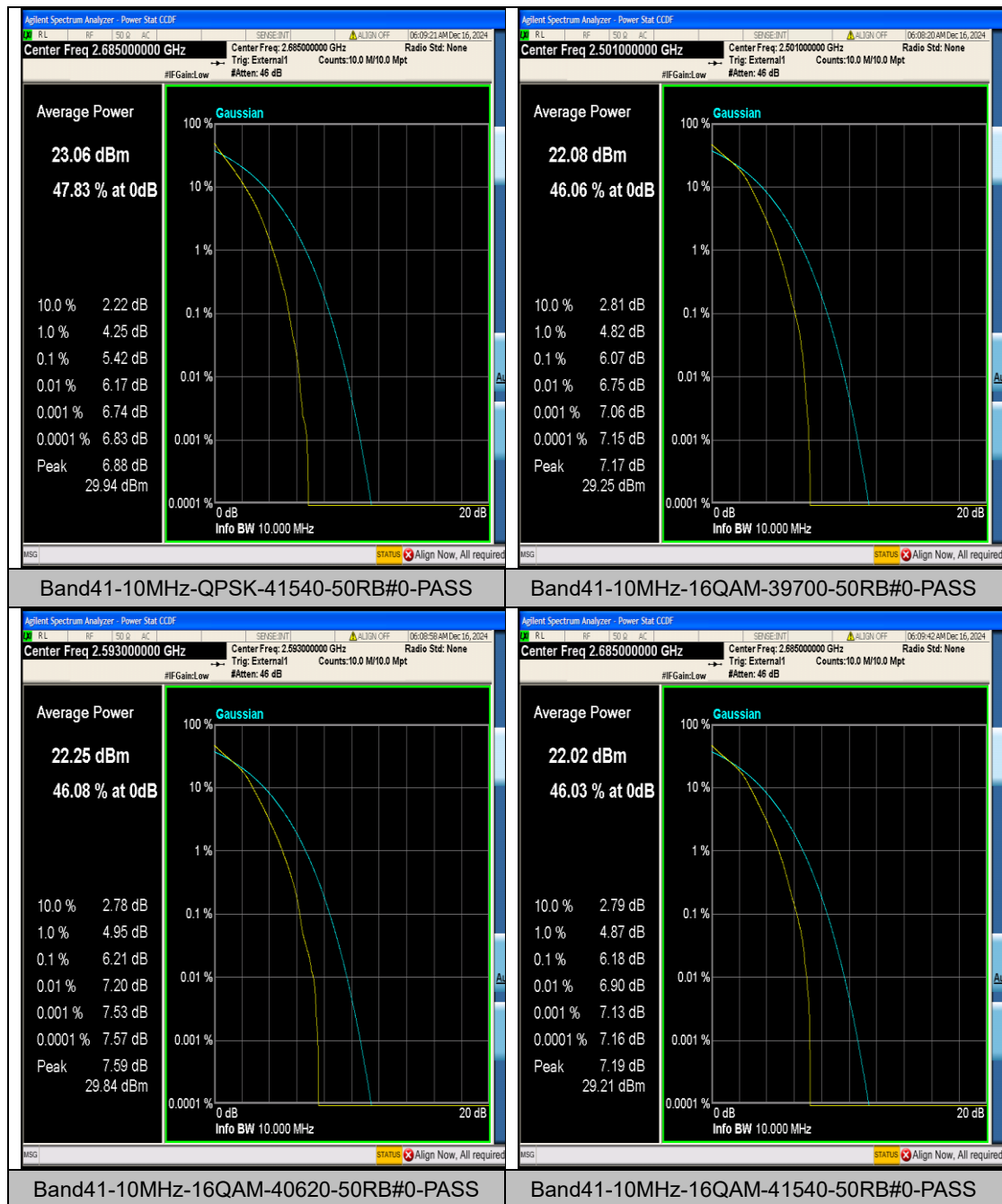
Test Result

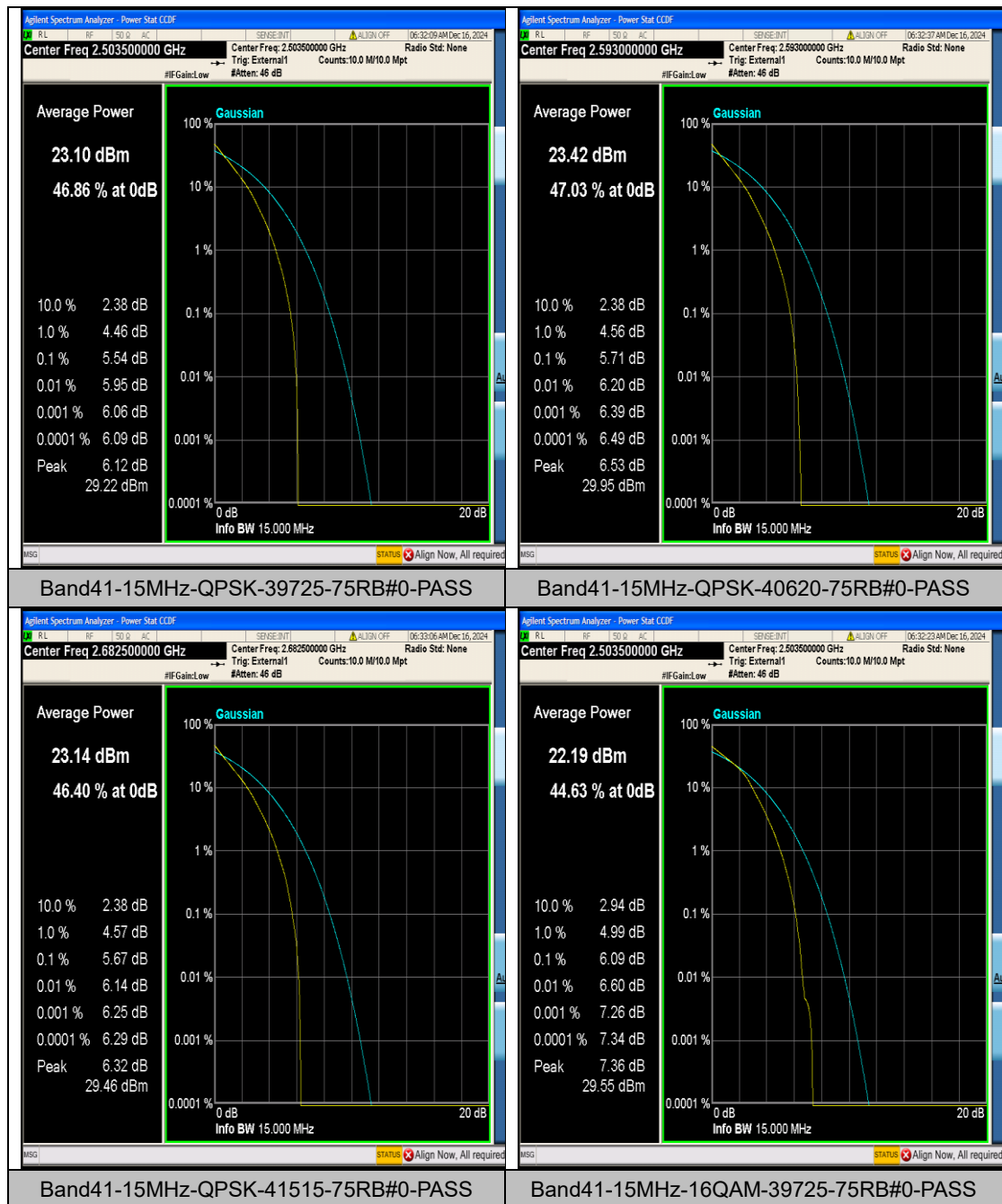
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	5.55	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	5.51	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	5.51	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	6.10	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	6.19	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	6.08	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	5.33	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.47	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	5.42	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	6.07	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	6.21	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	6.18	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.54	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	5.71	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	5.67	13	PASS
Band41	15MHz	16QAM	39725	75RB#0	6.09	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	6.22	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	6.21	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.11	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.39	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.27	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	5.95	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.19	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.12	13	PASS

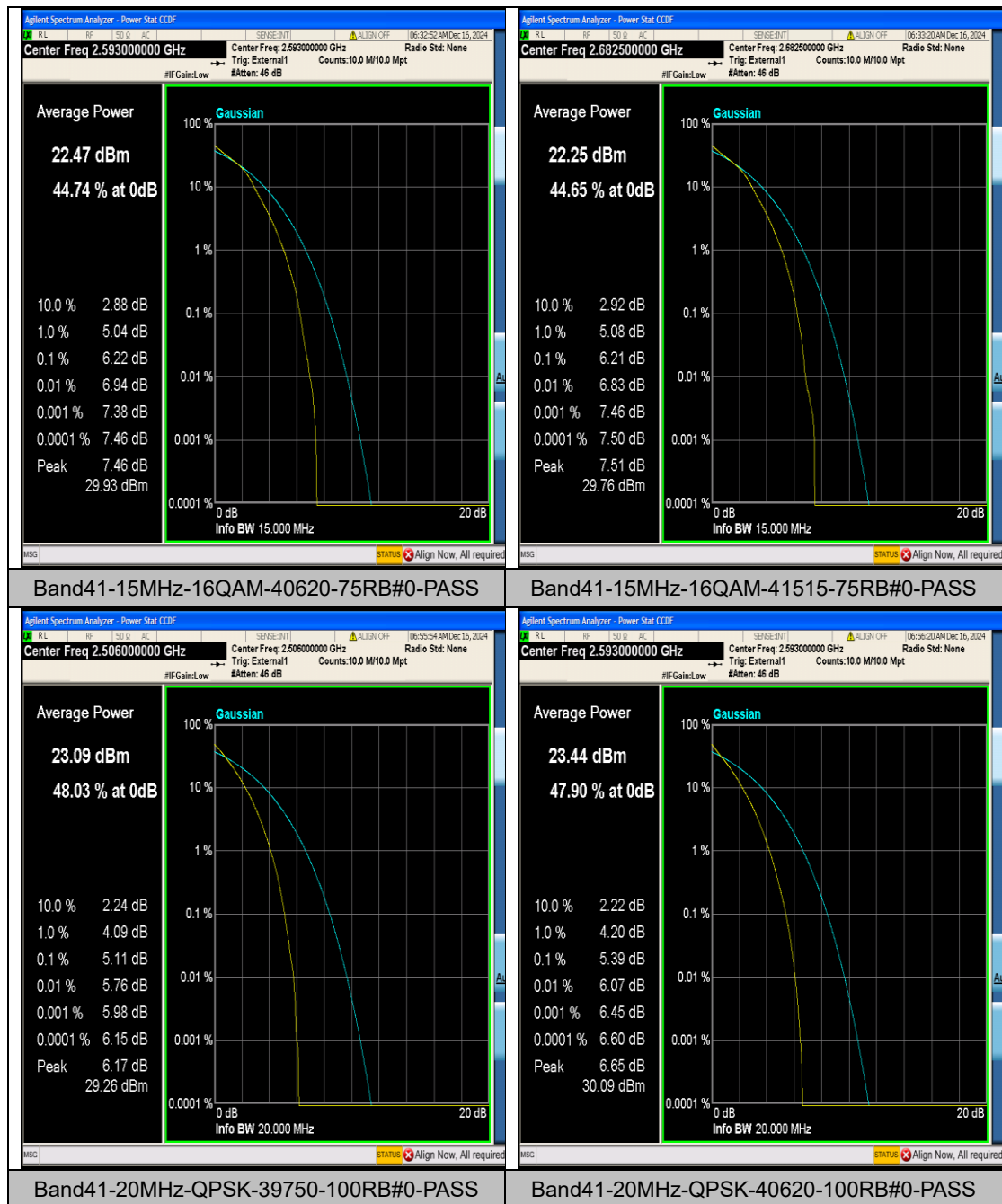
Test Graphs

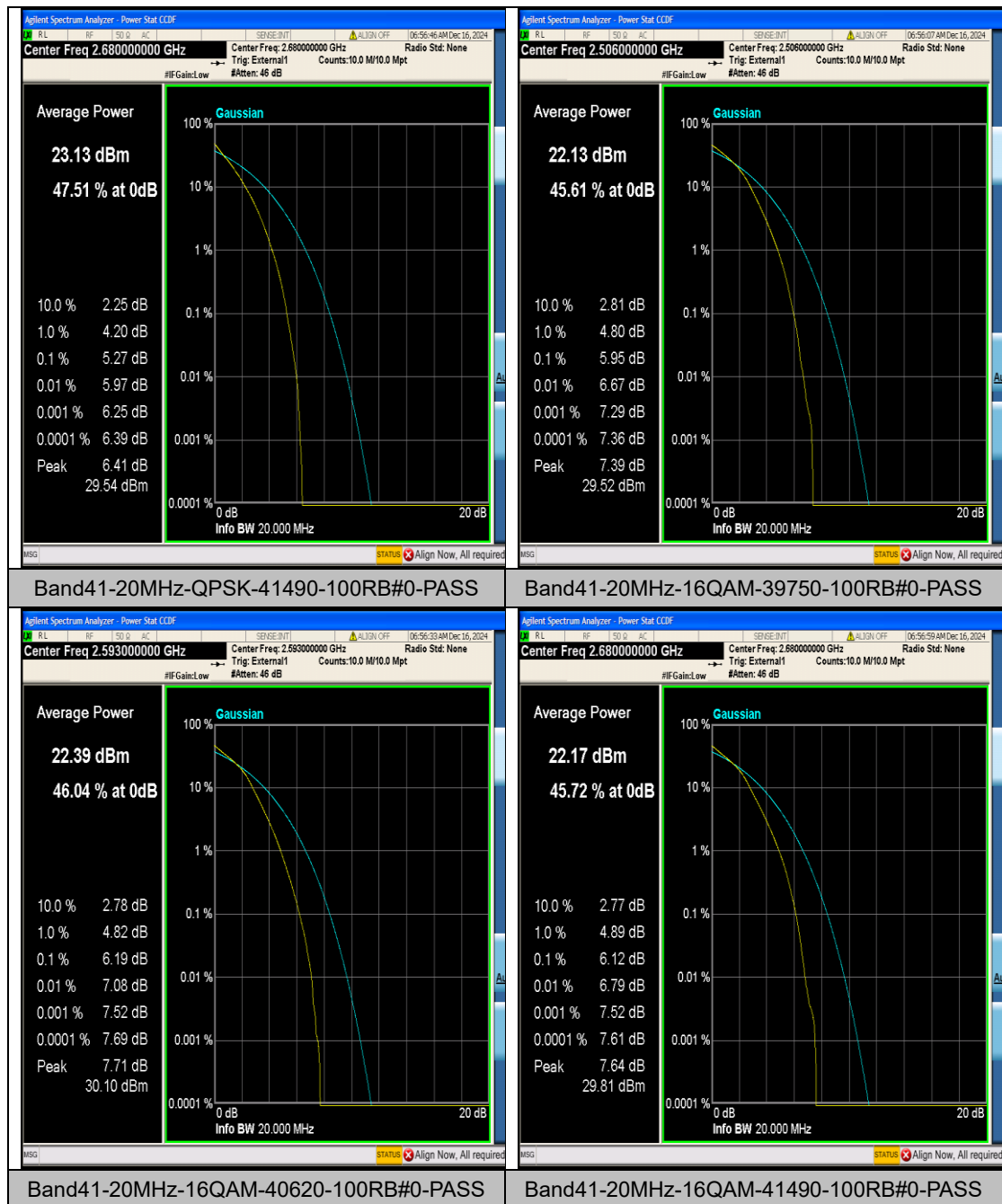










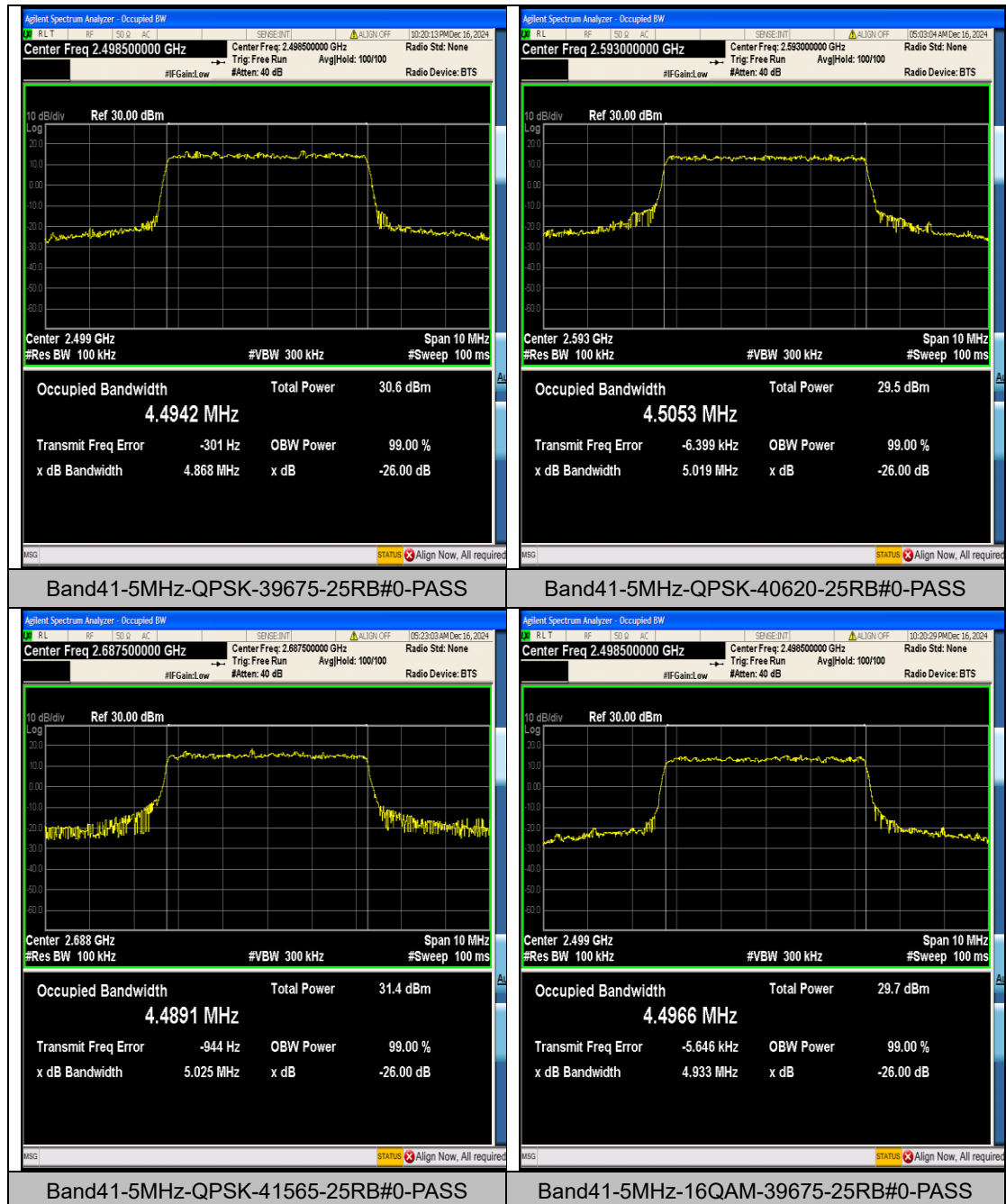


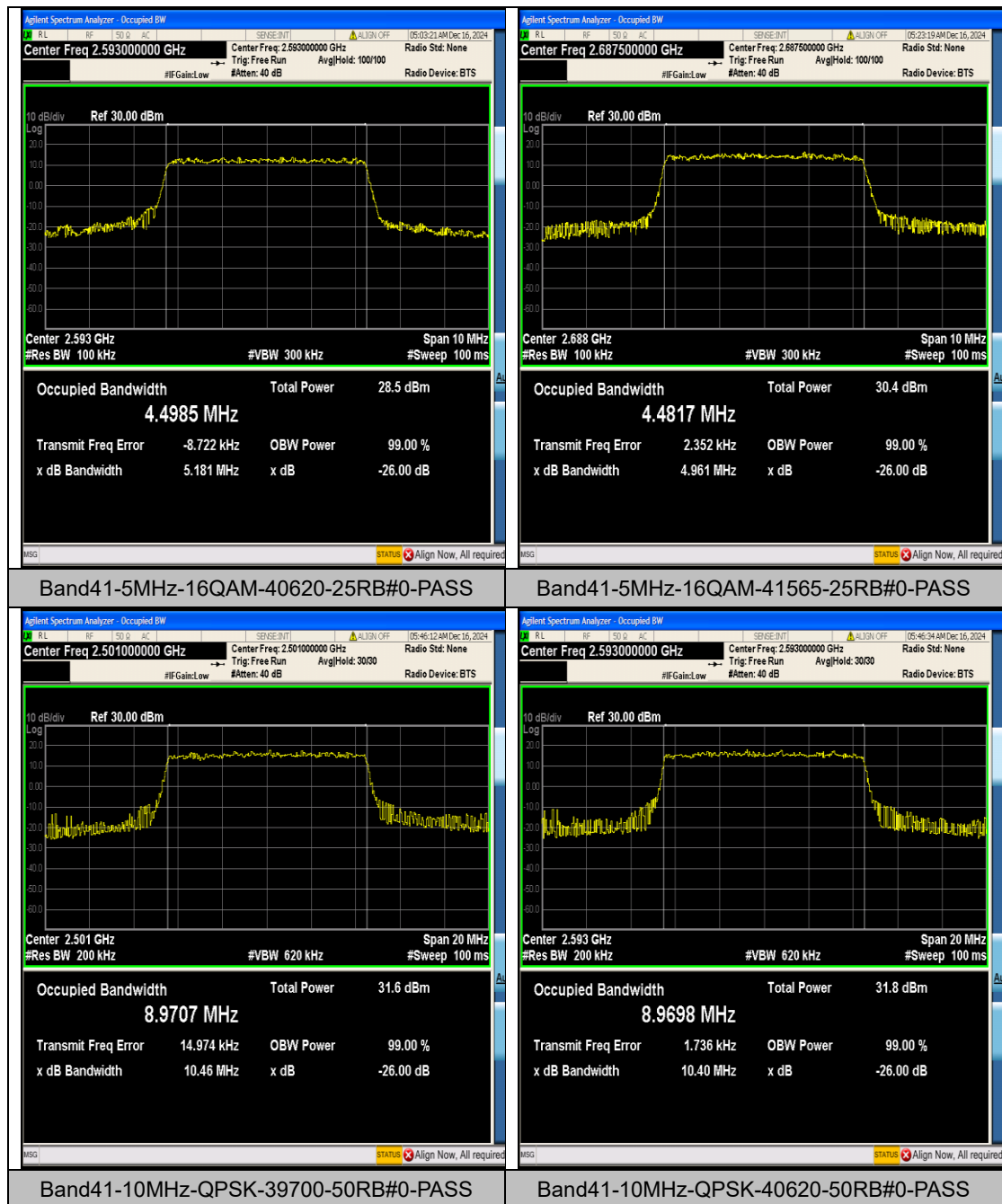
Appendix C: 26dB Bandwidth and Occupied Bandwidth

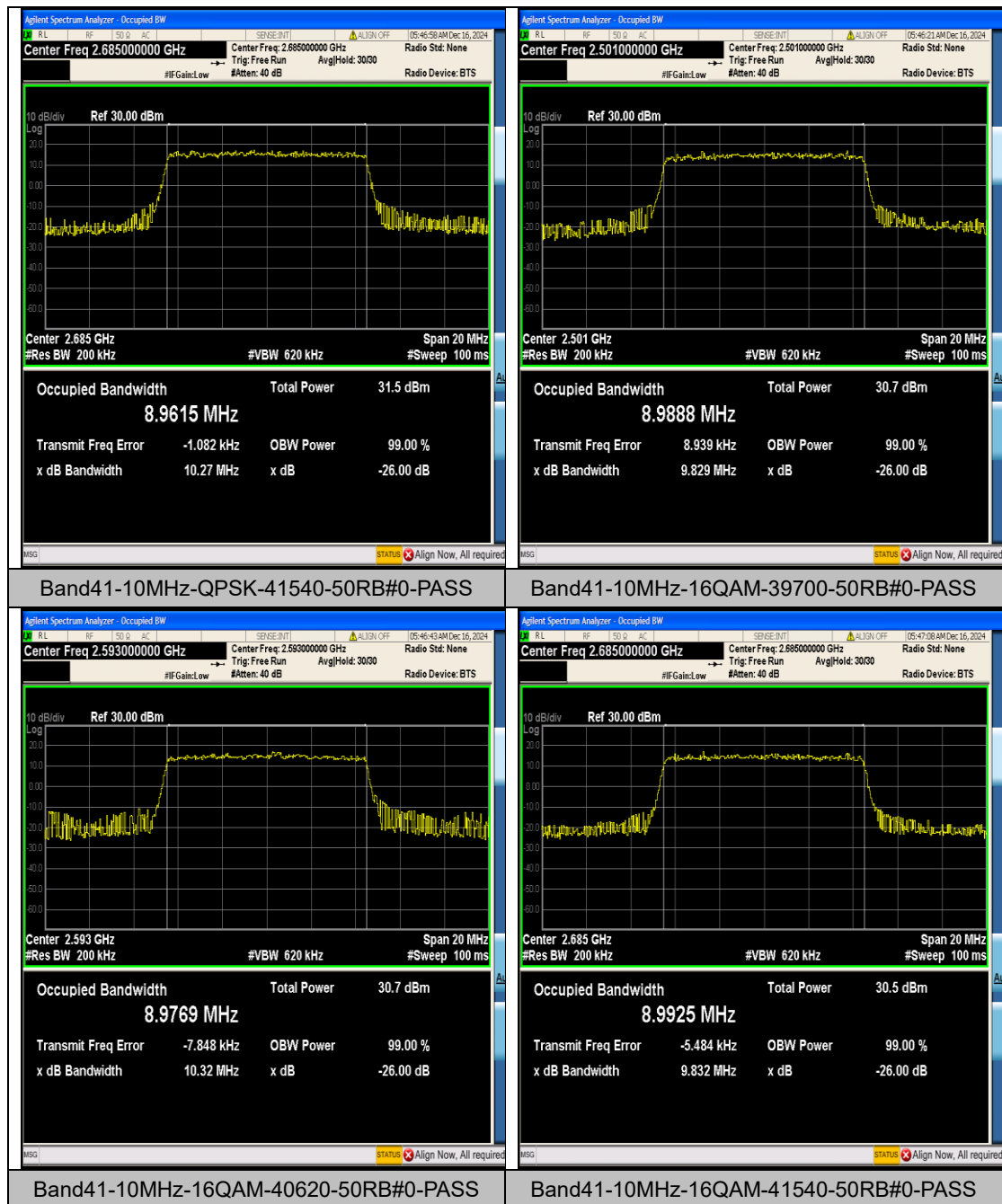
Test Result

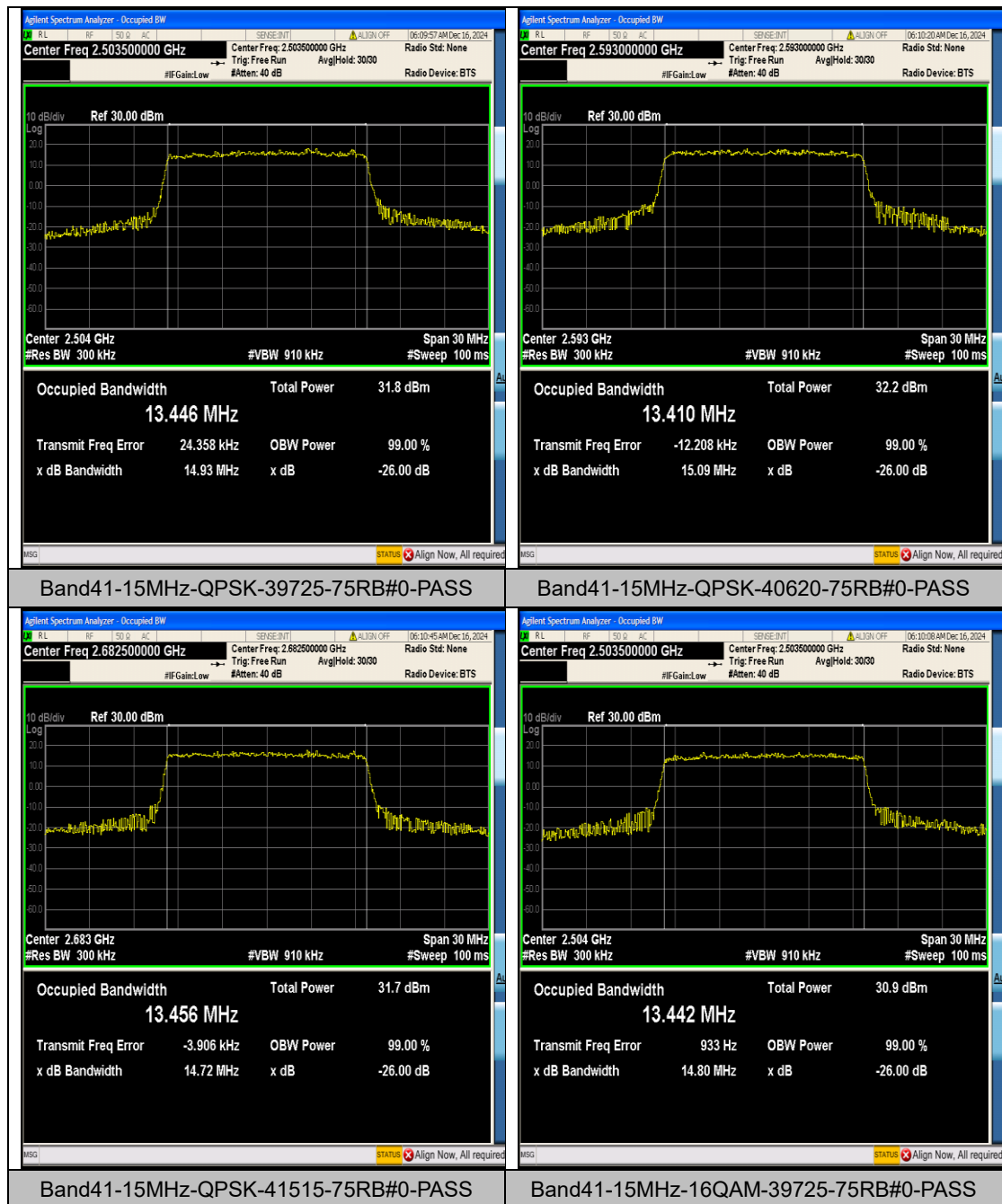
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	4.4942	4.868	PASS
Band41	5MHz	QPSK	40620	25RB#0	4.5053	5.019	PASS
Band41	5MHz	QPSK	41565	25RB#0	4.4891	5.025	PASS
Band41	5MHz	16QAM	39675	25RB#0	4.4966	4.933	PASS
Band41	5MHz	16QAM	40620	25RB#0	4.4985	5.181	PASS
Band41	5MHz	16QAM	41565	25RB#0	4.4817	4.961	PASS
Band41	10MHz	QPSK	39700	50RB#0	8.9707	10.46	PASS
Band41	10MHz	QPSK	40620	50RB#0	8.9698	10.40	PASS
Band41	10MHz	QPSK	41540	50RB#0	8.9615	10.27	PASS
Band41	10MHz	16QAM	39700	50RB#0	8.9888	9.829	PASS
Band41	10MHz	16QAM	40620	50RB#0	8.9769	10.32	PASS
Band41	10MHz	16QAM	41540	50RB#0	8.9925	9.832	PASS
Band41	15MHz	QPSK	39725	75RB#0	13.446	14.93	PASS
Band41	15MHz	QPSK	40620	75RB#0	13.410	15.09	PASS
Band41	15MHz	QPSK	41515	75RB#0	13.456	14.72	PASS
Band41	15MHz	16QAM	39725	75RB#0	13.442	14.80	PASS
Band41	15MHz	16QAM	40620	75RB#0	13.476	15.01	PASS
Band41	15MHz	16QAM	41515	75RB#0	13.451	14.90	PASS
Band41	20MHz	QPSK	39750	100RB#0	17.939	19.79	PASS
Band41	20MHz	QPSK	40620	100RB#0	17.939	20.54	PASS
Band41	20MHz	QPSK	41490	100RB#0	17.957	20.14	PASS
Band41	20MHz	16QAM	39750	100RB#0	17.870	19.39	PASS
Band41	20MHz	16QAM	40620	100RB#0	17.873	20.02	PASS
Band41	20MHz	16QAM	41490	100RB#0	17.907	19.40	PASS

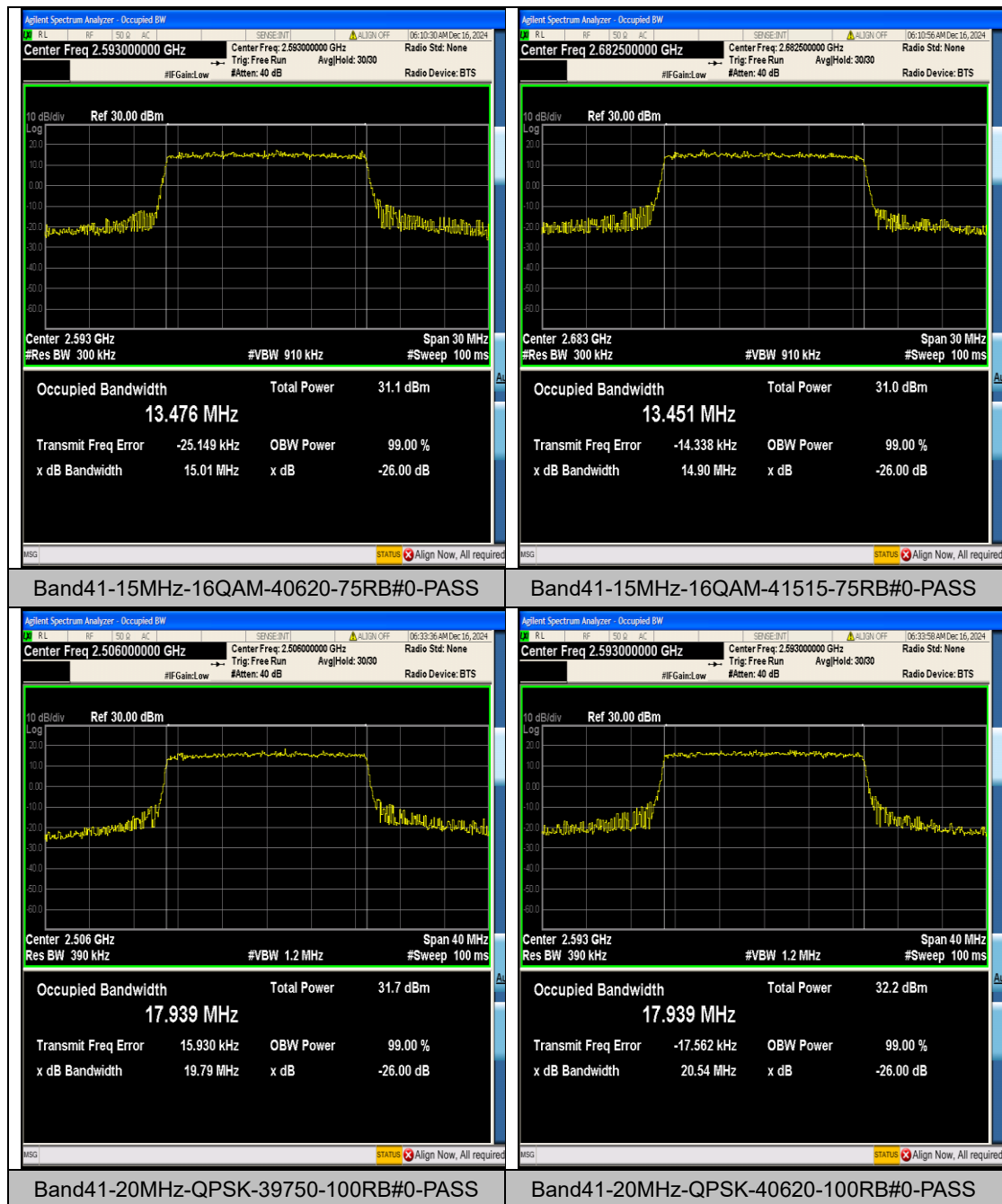
Test Graphs

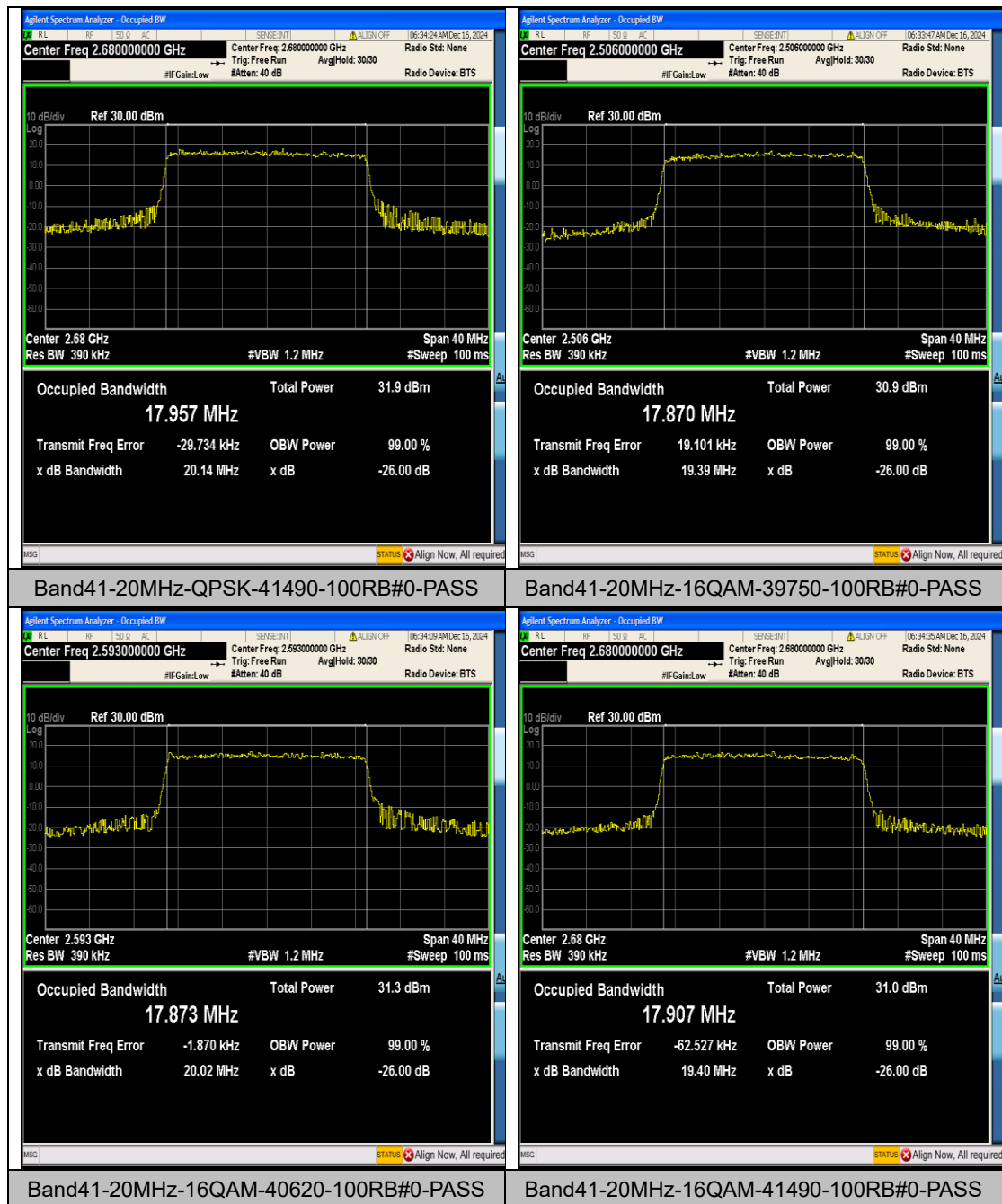












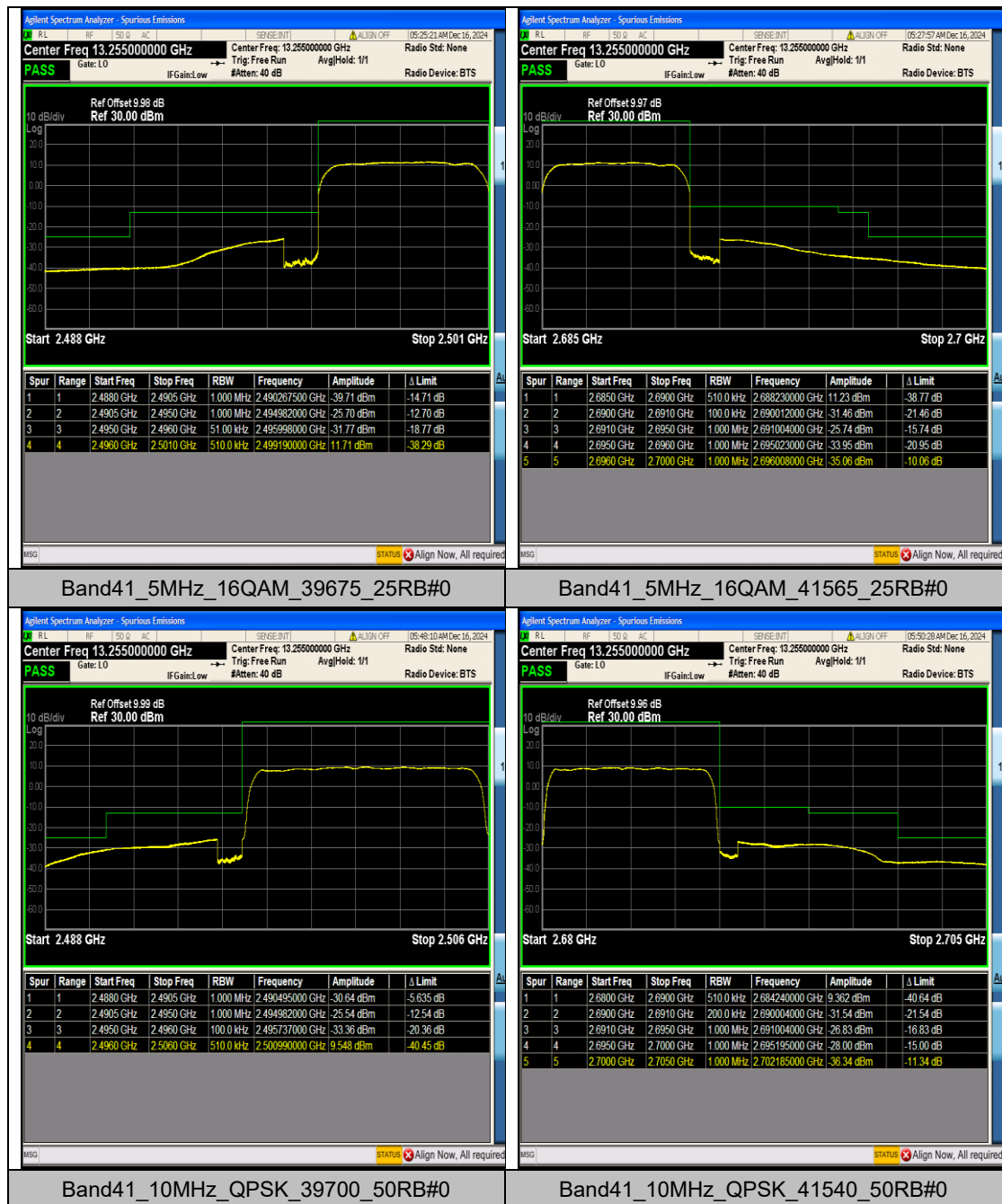
Appendix D: Band Edge

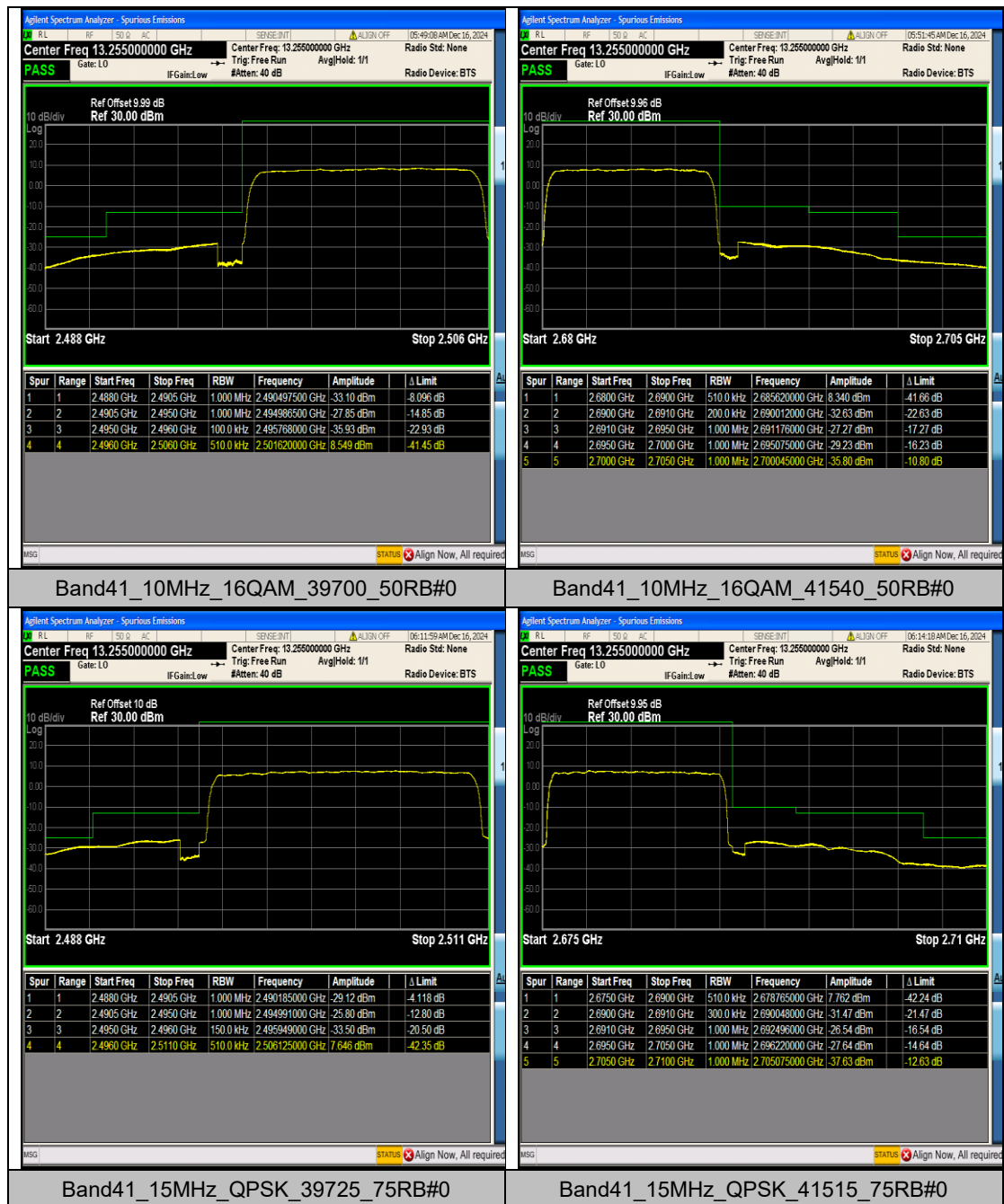
Test Result

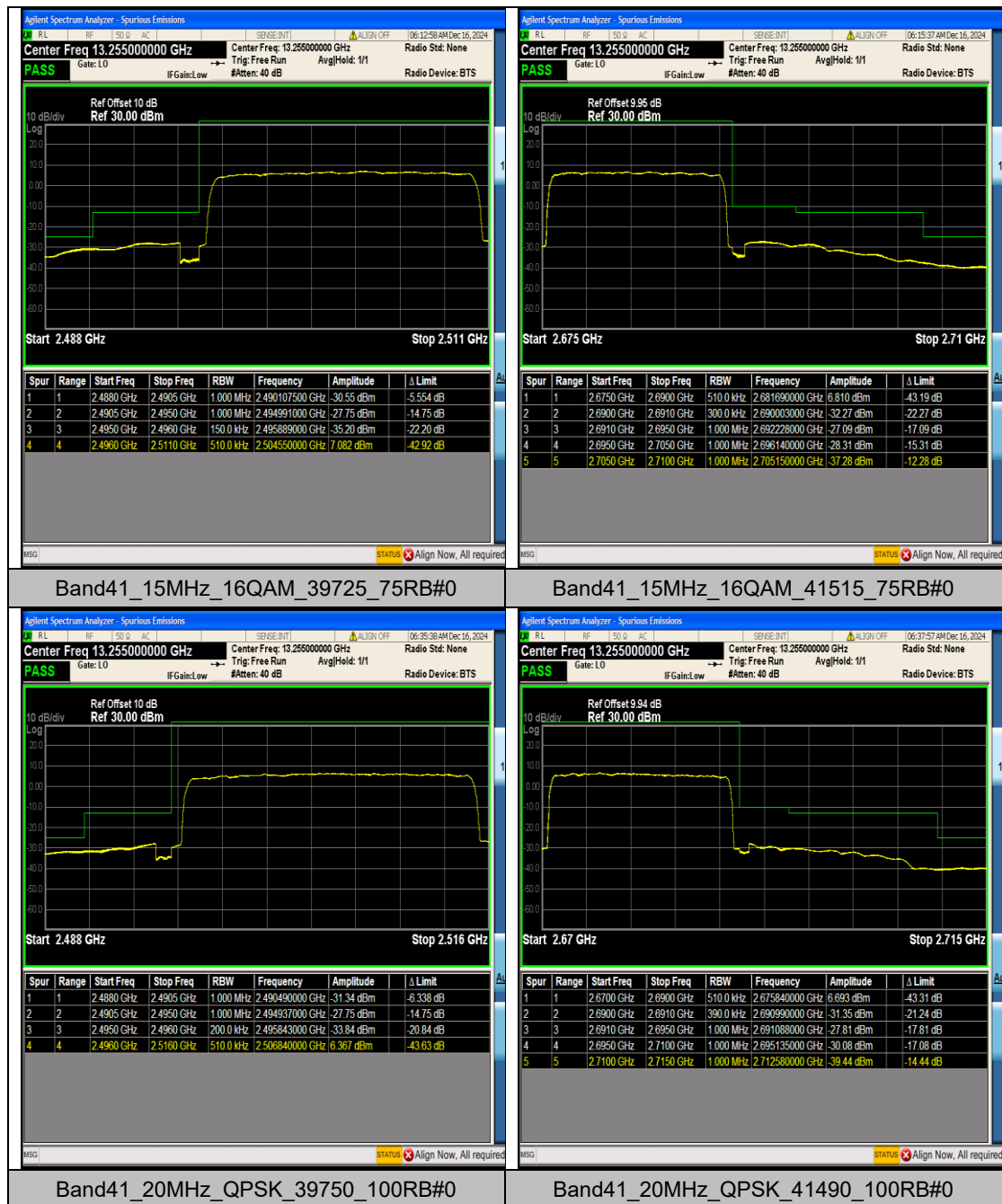
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	-23.87	PASS
Band41	5MHz	QPSK	41565	25RB#0	-33.90	PASS
Band41	5MHz	16QAM	39675	25RB#0	-25.70	PASS
Band41	5MHz	16QAM	41565	25RB#0	-35.06	PASS
Band41	10MHz	QPSK	39700	50RB#0	-30.64	PASS
Band41	10MHz	QPSK	41540	50RB#0	-36.34	PASS
Band41	10MHz	16QAM	39700	50RB#0	-33.10	PASS
Band41	10MHz	16QAM	41540	50RB#0	-35.80	PASS
Band41	15MHz	QPSK	39725	75RB#0	-29.12	PASS
Band41	15MHz	QPSK	41515	75RB#0	-37.63	PASS
Band41	15MHz	16QAM	39725	75RB#0	-30.55	PASS
Band41	15MHz	16QAM	41515	75RB#0	-37.28	PASS
Band41	20MHz	QPSK	39750	100RB#0	-31.34	PASS
Band41	20MHz	QPSK	41490	100RB#0	-39.44	PASS
Band41	20MHz	16QAM	39750	100RB#0	-32.52	PASS
Band41	20MHz	16QAM	41490	100RB#0	-39.54	PASS

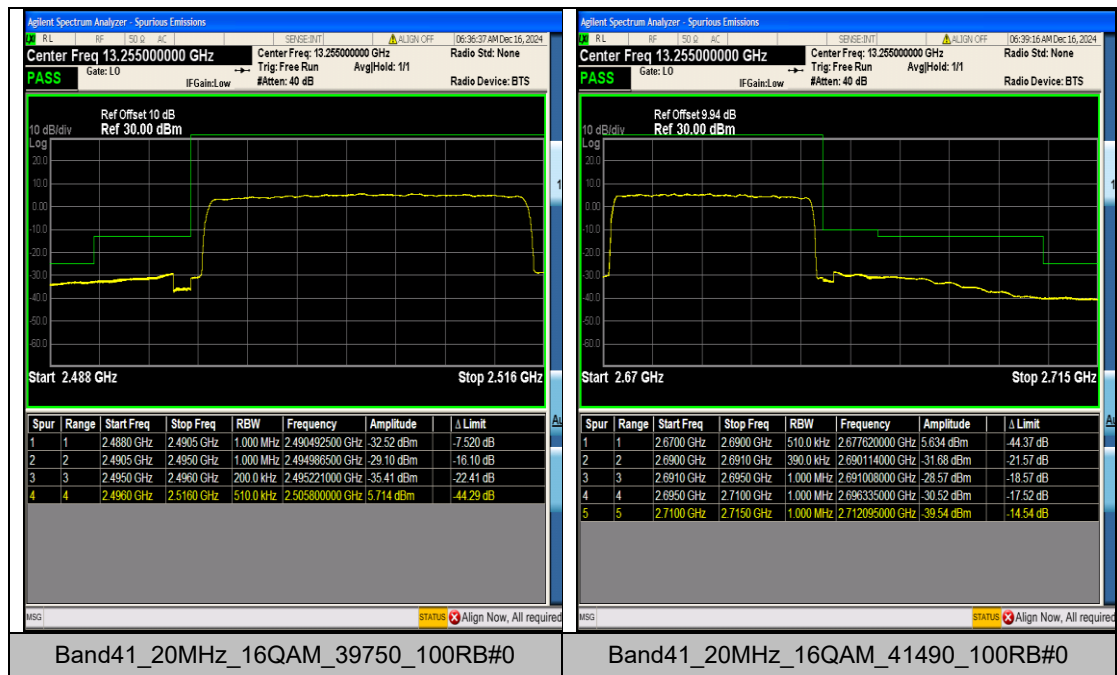
Test Graphs











Band41_20MHz_16QAM_39750_100RB#0

Band41_20MHz_16QAM_41490_100RB#0

Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	0.009~0.15	-58.38	PASS
Band41	5MHz	QPSK	39675	25RB#0	0.15~30	-57.17	PASS
Band41	5MHz	QPSK	39675	25RB#0	30~1000	-61.75	PASS
Band41	5MHz	QPSK	39675	25RB#0	1000~20000	-38.07	PASS
Band41	5MHz	QPSK	39675	25RB#0	20000~27000	-31.91	PASS
Band41	5MHz	QPSK	40620	25RB#0	0.009~0.15	-58.66	PASS
Band41	5MHz	QPSK	40620	25RB#0	0.15~30	-61.01	PASS
Band41	5MHz	QPSK	40620	25RB#0	30~1000	-62.12	PASS
Band41	5MHz	QPSK	40620	25RB#0	1000~20000	-34.81	PASS
Band41	5MHz	QPSK	40620	25RB#0	20000~27000	-32.13	PASS
Band41	5MHz	QPSK	41565	25RB#0	0.009~0.15	-57.46	PASS
Band41	5MHz	QPSK	41565	25RB#0	0.15~30	-61.15	PASS
Band41	5MHz	QPSK	41565	25RB#0	30~1000	-62.21	PASS
Band41	5MHz	QPSK	41565	25RB#0	1000~20000	-34.25	PASS
Band41	5MHz	QPSK	41565	25RB#0	20000~27000	-32.15	PASS
Band41	5MHz	16QAM	39675	25RB#0	0.009~0.15	-57.19	PASS
Band41	5MHz	16QAM	39675	25RB#0	0.15~30	-58.89	PASS
Band41	5MHz	16QAM	39675	25RB#0	30~1000	-61.83	PASS
Band41	5MHz	16QAM	39675	25RB#0	1000~20000	-38.64	PASS
Band41	5MHz	16QAM	39675	25RB#0	20000~27000	-31.98	PASS
Band41	5MHz	16QAM	40620	25RB#0	0.009~0.15	-59.32	PASS
Band41	5MHz	16QAM	40620	25RB#0	0.15~30	-59.43	PASS
Band41	5MHz	16QAM	40620	25RB#0	30~1000	-61.79	PASS
Band41	5MHz	16QAM	40620	25RB#0	1000~20000	-36.58	PASS
Band41	5MHz	16QAM	40620	25RB#0	20000~27000	-32.23	PASS
Band41	5MHz	16QAM	41565	25RB#0	0.009~0.15	-58.77	PASS
Band41	5MHz	16QAM	41565	25RB#0	0.15~30	-58.51	PASS
Band41	5MHz	16QAM	41565	25RB#0	30~1000	-61.82	PASS
Band41	5MHz	16QAM	41565	25RB#0	1000~20000	-35.69	PASS
Band41	5MHz	16QAM	41565	25RB#0	20000~27000	-31.93	PASS
Band41	10MHz	QPSK	39700	50RB#0	0.009~0.15	-59.93	PASS
Band41	10MHz	QPSK	39700	50RB#0	0.15~30	-56.08	PASS
Band41	10MHz	QPSK	39700	50RB#0	30~1000	-62.33	PASS
Band41	10MHz	QPSK	39700	50RB#0	1000~20000	-38.48	PASS
Band41	10MHz	QPSK	39700	50RB#0	20000~27000	-31.96	PASS
Band41	10MHz	QPSK	40620	50RB#0	0.009~0.15	-59.81	PASS

Band41	10MHz	QPSK	40620	50RB#0	0.15~30	-60.12	PASS
Band41	10MHz	QPSK	40620	50RB#0	30~1000	-61.73	PASS
Band41	10MHz	QPSK	40620	50RB#0	1000~20000	-36.82	PASS
Band41	10MHz	QPSK	40620	50RB#0	20000~27000	-32.56	PASS
Band41	10MHz	QPSK	41540	50RB#0	0.009~0.15	-56.80	PASS
Band41	10MHz	QPSK	41540	50RB#0	0.15~30	-59.29	PASS
Band41	10MHz	QPSK	41540	50RB#0	30~1000	-61.84	PASS
Band41	10MHz	QPSK	41540	50RB#0	1000~20000	-34.24	PASS
Band41	10MHz	QPSK	41540	50RB#0	20000~27000	-32.43	PASS
Band41	10MHz	16QAM	39700	50RB#0	0.009~0.15	-59.03	PASS
Band41	10MHz	16QAM	39700	50RB#0	0.15~30	-58.60	PASS
Band41	10MHz	16QAM	39700	50RB#0	30~1000	-61.81	PASS
Band41	10MHz	16QAM	39700	50RB#0	1000~20000	-38.56	PASS
Band41	10MHz	16QAM	39700	50RB#0	20000~27000	-32.03	PASS
Band41	10MHz	16QAM	40620	50RB#0	0.009~0.15	-60.90	PASS
Band41	10MHz	16QAM	40620	50RB#0	0.15~30	-61.62	PASS
Band41	10MHz	16QAM	40620	50RB#0	30~1000	-62.12	PASS
Band41	10MHz	16QAM	40620	50RB#0	1000~20000	-38.88	PASS
Band41	10MHz	16QAM	40620	50RB#0	20000~27000	-32.42	PASS
Band41	10MHz	16QAM	41540	50RB#0	0.009~0.15	-60.01	PASS
Band41	10MHz	16QAM	41540	50RB#0	0.15~30	-61.26	PASS
Band41	10MHz	16QAM	41540	50RB#0	30~1000	-61.58	PASS
Band41	10MHz	16QAM	41540	50RB#0	1000~20000	-37.52	PASS
Band41	10MHz	16QAM	41540	50RB#0	20000~27000	-32.31	PASS
Band41	15MHz	QPSK	39725	75RB#0	0.009~0.15	-60.53	PASS
Band41	15MHz	QPSK	39725	75RB#0	0.15~30	-61.77	PASS
Band41	15MHz	QPSK	39725	75RB#0	30~1000	-61.87	PASS
Band41	15MHz	QPSK	39725	75RB#0	1000~20000	-38.51	PASS
Band41	15MHz	QPSK	39725	75RB#0	20000~27000	-31.89	PASS
Band41	15MHz	QPSK	40620	75RB#0	0.009~0.15	-60.56	PASS
Band41	15MHz	QPSK	40620	75RB#0	0.15~30	-59.16	PASS
Band41	15MHz	QPSK	40620	75RB#0	30~1000	-61.98	PASS
Band41	15MHz	QPSK	40620	75RB#0	1000~20000	-35.92	PASS
Band41	15MHz	QPSK	40620	75RB#0	20000~27000	-31.79	PASS
Band41	15MHz	QPSK	41515	75RB#0	0.009~0.15	-60.41	PASS
Band41	15MHz	QPSK	41515	75RB#0	0.15~30	-58.40	PASS
Band41	15MHz	QPSK	41515	75RB#0	30~1000	-61.86	PASS
Band41	15MHz	QPSK	41515	75RB#0	1000~20000	-34.73	PASS
Band41	15MHz	QPSK	41515	75RB#0	20000~27000	-32.02	PASS
Band41	15MHz	16QAM	39725	75RB#0	0.009~0.15	-58.20	PASS
Band41	15MHz	16QAM	39725	75RB#0	0.15~30	-58.63	PASS
Band41	15MHz	16QAM	39725	75RB#0	30~1000	-61.89	PASS
Band41	15MHz	16QAM	39725	75RB#0	1000~20000	-38.58	PASS

Band41	15MHz	16QAM	39725	75RB#0	20000~27000	-32.07	PASS
Band41	15MHz	16QAM	40620	75RB#0	0.009~0.15	-58.42	PASS
Band41	15MHz	16QAM	40620	75RB#0	0.15~30	-58.34	PASS
Band41	15MHz	16QAM	40620	75RB#0	30~1000	-61.93	PASS
Band41	15MHz	16QAM	40620	75RB#0	1000~20000	-37.17	PASS
Band41	15MHz	16QAM	40620	75RB#0	20000~27000	-32.18	PASS
Band41	15MHz	16QAM	41515	75RB#0	0.009~0.15	-59.30	PASS
Band41	15MHz	16QAM	41515	75RB#0	0.15~30	-58.45	PASS
Band41	15MHz	16QAM	41515	75RB#0	30~1000	-61.67	PASS
Band41	15MHz	16QAM	41515	75RB#0	1000~20000	-36.08	PASS
Band41	15MHz	16QAM	41515	75RB#0	20000~27000	-32.20	PASS
Band41	20MHz	QPSK	39750	100RB#0	0.009~0.15	-58.36	PASS
Band41	20MHz	QPSK	39750	100RB#0	0.15~30	-61.94	PASS
Band41	20MHz	QPSK	39750	100RB#0	30~1000	-61.52	PASS
Band41	20MHz	QPSK	39750	100RB#0	1000~20000	-38.01	PASS
Band41	20MHz	QPSK	39750	100RB#0	20000~27000	-32.04	PASS
Band41	20MHz	QPSK	40620	100RB#0	0.009~0.15	-60.60	PASS
Band41	20MHz	QPSK	40620	100RB#0	0.15~30	-59.11	PASS
Band41	20MHz	QPSK	40620	100RB#0	30~1000	-62.12	PASS
Band41	20MHz	QPSK	40620	100RB#0	1000~20000	-38.08	PASS
Band41	20MHz	QPSK	40620	100RB#0	20000~27000	-32.05	PASS
Band41	20MHz	QPSK	41490	100RB#0	0.009~0.15	-56.21	PASS
Band41	20MHz	QPSK	41490	100RB#0	0.15~30	-59.23	PASS
Band41	20MHz	QPSK	41490	100RB#0	30~1000	-61.69	PASS
Band41	20MHz	QPSK	41490	100RB#0	1000~20000	-38.65	PASS
Band41	20MHz	QPSK	41490	100RB#0	20000~27000	-32.06	PASS
Band41	20MHz	16QAM	39750	100RB#0	0.009~0.15	-59.27	PASS
Band41	20MHz	16QAM	39750	100RB#0	0.15~30	-58.36	PASS
Band41	20MHz	16QAM	39750	100RB#0	30~1000	-61.58	PASS
Band41	20MHz	16QAM	39750	100RB#0	1000~20000	-38.57	PASS
Band41	20MHz	16QAM	39750	100RB#0	20000~27000	-31.74	PASS
Band41	20MHz	16QAM	40620	100RB#0	0.009~0.15	-58.69	PASS
Band41	20MHz	16QAM	40620	100RB#0	0.15~30	-59.54	PASS
Band41	20MHz	16QAM	40620	100RB#0	30~1000	-61.33	PASS
Band41	20MHz	16QAM	40620	100RB#0	1000~20000	-38.25	PASS
Band41	20MHz	16QAM	40620	100RB#0	20000~27000	-31.95	PASS
Band41	20MHz	16QAM	41490	100RB#0	0.009~0.15	-59.79	PASS
Band41	20MHz	16QAM	41490	100RB#0	0.15~30	-58.92	PASS
Band41	20MHz	16QAM	41490	100RB#0	30~1000	-62.03	PASS
Band41	20MHz	16QAM	41490	100RB#0	1000~20000	-38.50	PASS
Band41	20MHz	16QAM	41490	100RB#0	20000~27000	-32.10	PASS

Test Graphs

