

FCC Appendix RF Test Data for LTE Band 13

Company: : AGRISOUND LIMITED

EUT : AGRISOUND_POLLY

Model Number : PV_3.1

FCC ID : 2BTNL-PV

Report No. : CTA25101401507

Reviewed By : Eric Wang

Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.44	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.55	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.37	PASS
Band13	5MHz	QPSK	23205	12RB#0	22.48	PASS
Band13	5MHz	QPSK	23205	12RB#6	22.48	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.45	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.39	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.22	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.70	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.47	PASS
Band13	5MHz	QPSK	23230	12RB#0	22.49	PASS
Band13	5MHz	QPSK	23230	12RB#6	22.49	PASS
Band13	5MHz	QPSK	23230	12RB#13	22.55	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.56	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.34	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.75	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.43	PASS
Band13	5MHz	QPSK	23255	12RB#0	22.62	PASS
Band13	5MHz	QPSK	23255	12RB#6	22.66	PASS
Band13	5MHz	QPSK	23255	12RB#13	22.56	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.61	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.37	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.72	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.41	PASS
Band13	5MHz	16QAM	23205	12RB#0	21.28	PASS
Band13	5MHz	16QAM	23205	12RB#6	21.28	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.38	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.46	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.43	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.12	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.54	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.39	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.41	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.70	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.57	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.01	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.09	PASS

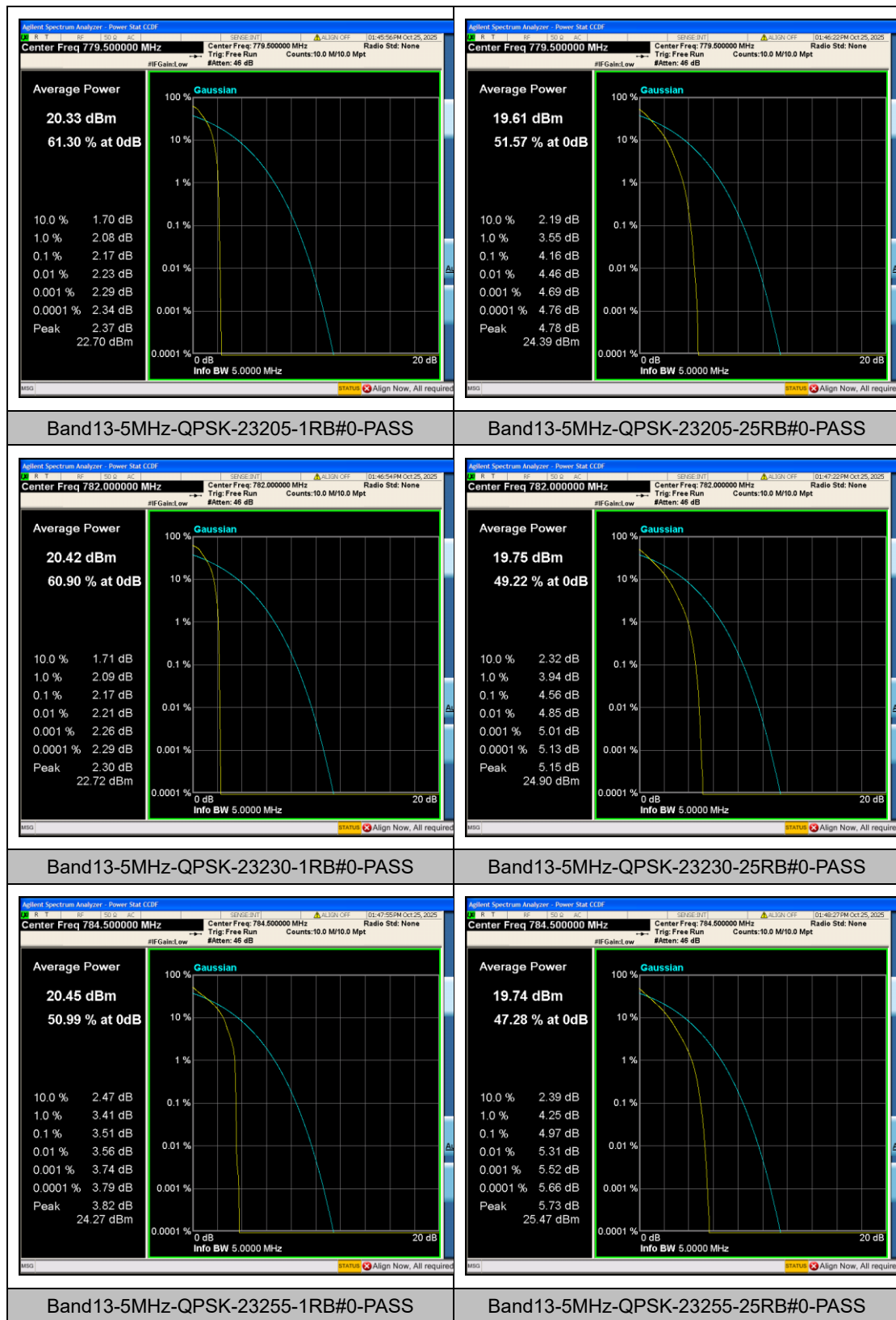
Band13	5MHz	16QAM	23255	1RB#24	22.56	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.63	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.65	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.63	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.69	PASS
Band13	10MHz	QPSK	23230	1RB#0	20.11	PASS
Band13	10MHz	QPSK	23230	1RB#24	20.23	PASS
Band13	10MHz	QPSK	23230	1RB#49	20.20	PASS
Band13	10MHz	QPSK	23230	25RB#0	19.26	PASS
Band13	10MHz	QPSK	23230	25RB#12	19.33	PASS
Band13	10MHz	QPSK	23230	25RB#25	19.49	PASS
Band13	10MHz	QPSK	23230	50RB#0	19.36	PASS
Band13	10MHz	16QAM	23230	1RB#0	19.26	PASS
Band13	10MHz	16QAM	23230	1RB#24	19.74	PASS
Band13	10MHz	16QAM	23230	1RB#49	18.99	PASS
Band13	10MHz	16QAM	23230	25RB#0	18.42	PASS
Band13	10MHz	16QAM	23230	25RB#12	18.26	PASS
Band13	10MHz	16QAM	23230	25RB#25	18.42	PASS

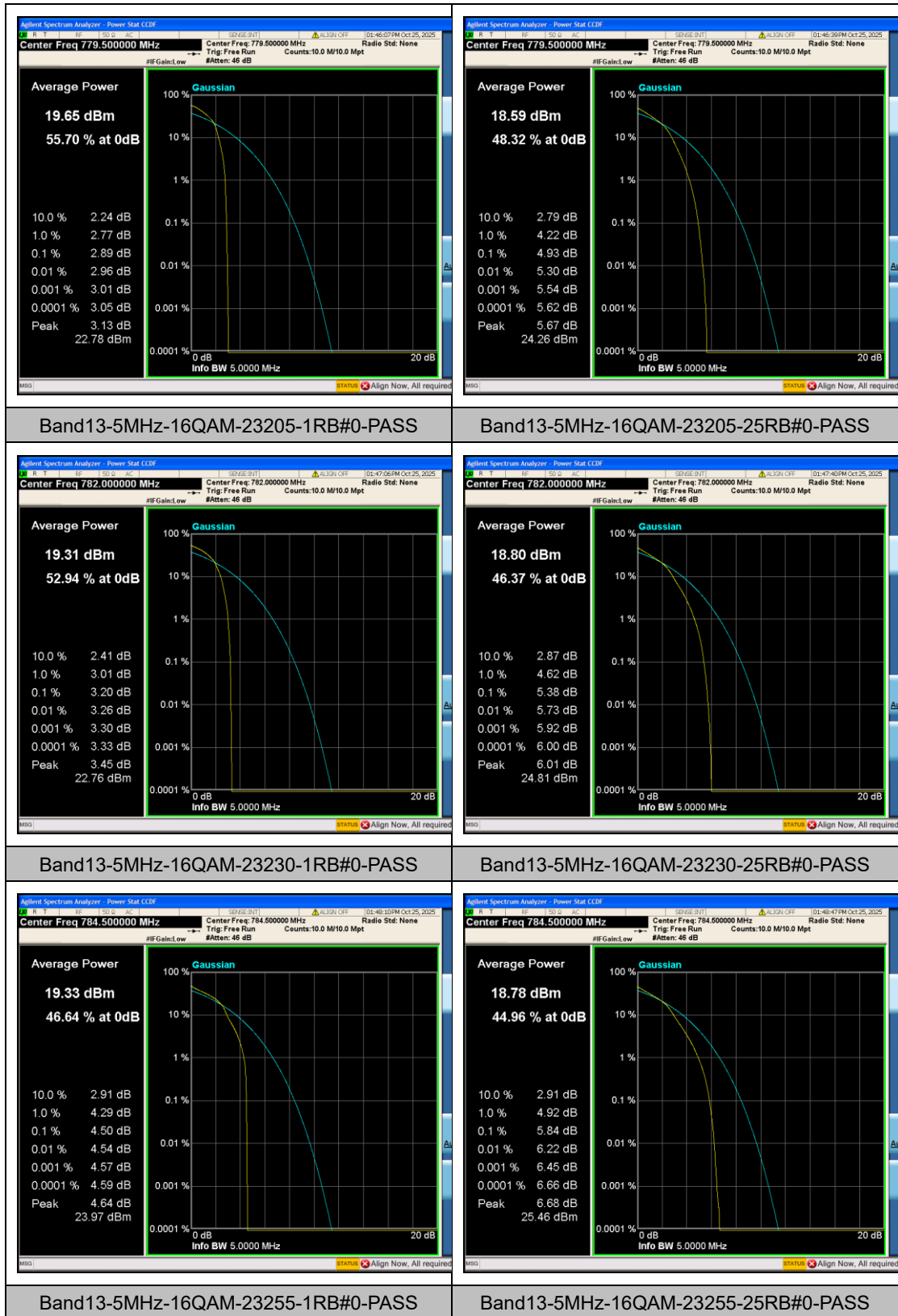
Appendix B: Peak-to-Average Ratio(CCDF)

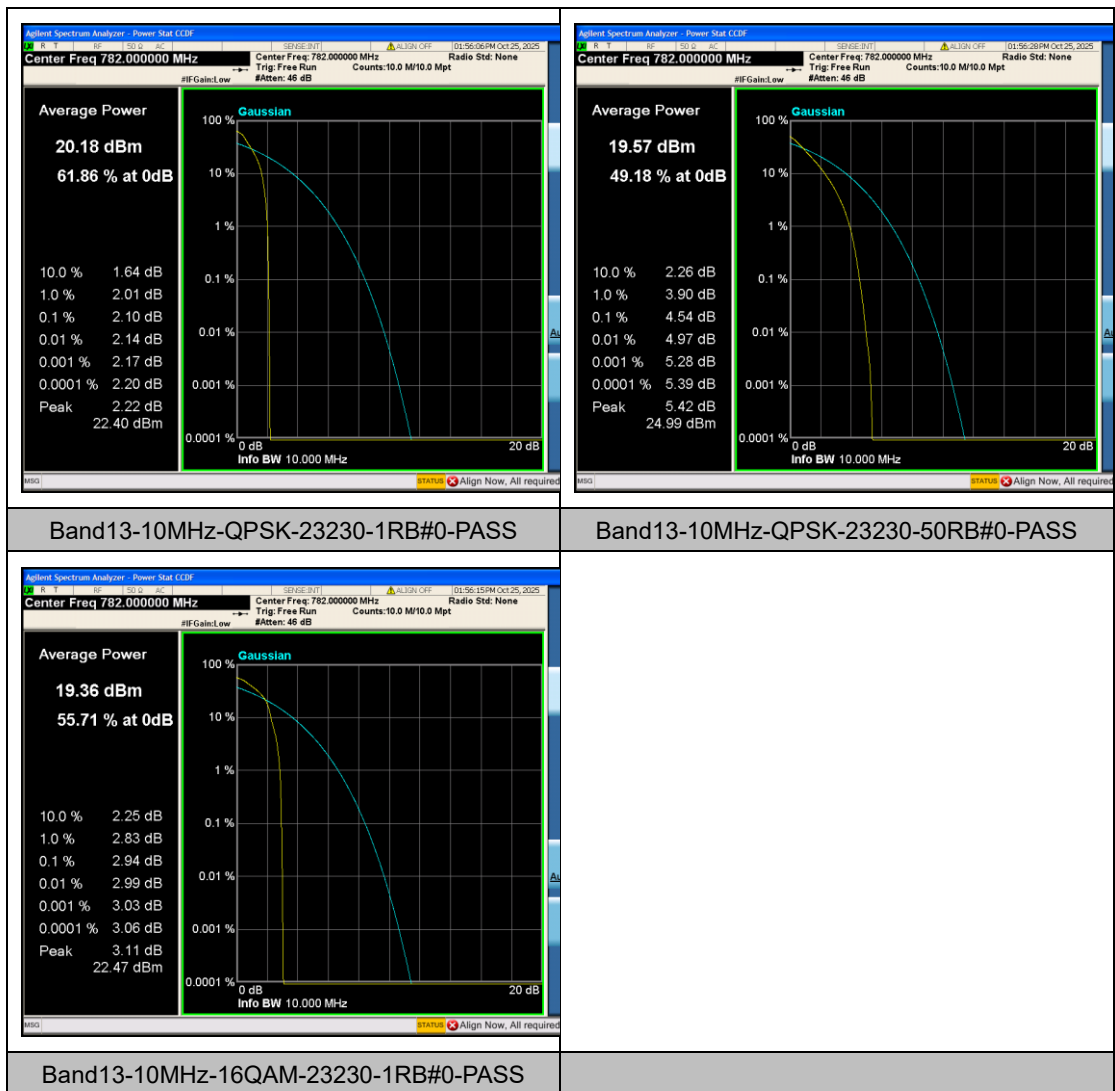
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	2.17	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	4.16	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	2.17	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.56	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	3.51	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.97	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	2.89	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.93	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	3.20	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	5.38	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	4.50	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	5.84	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	2.10	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	4.54	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	2.94	13	PASS

Test Graphs





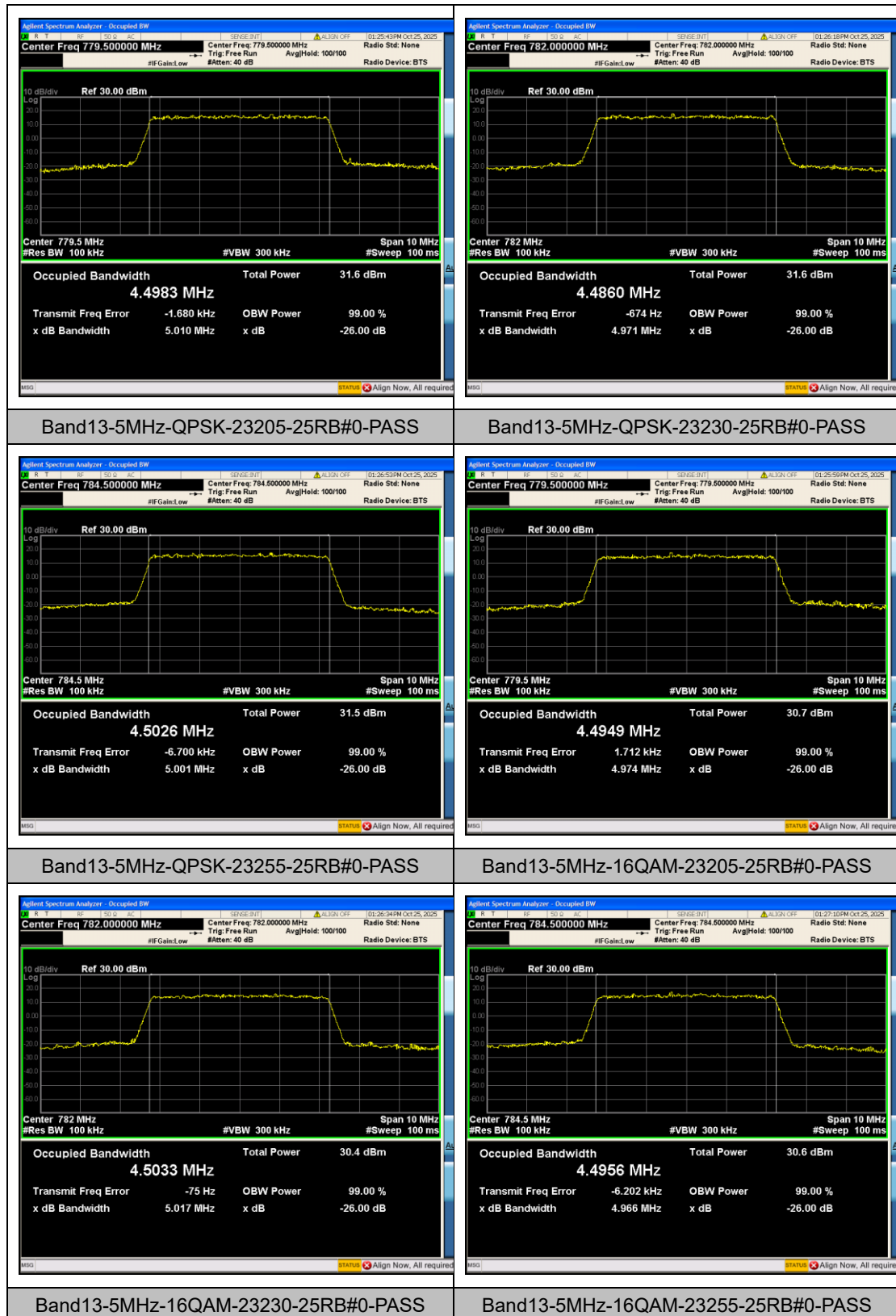


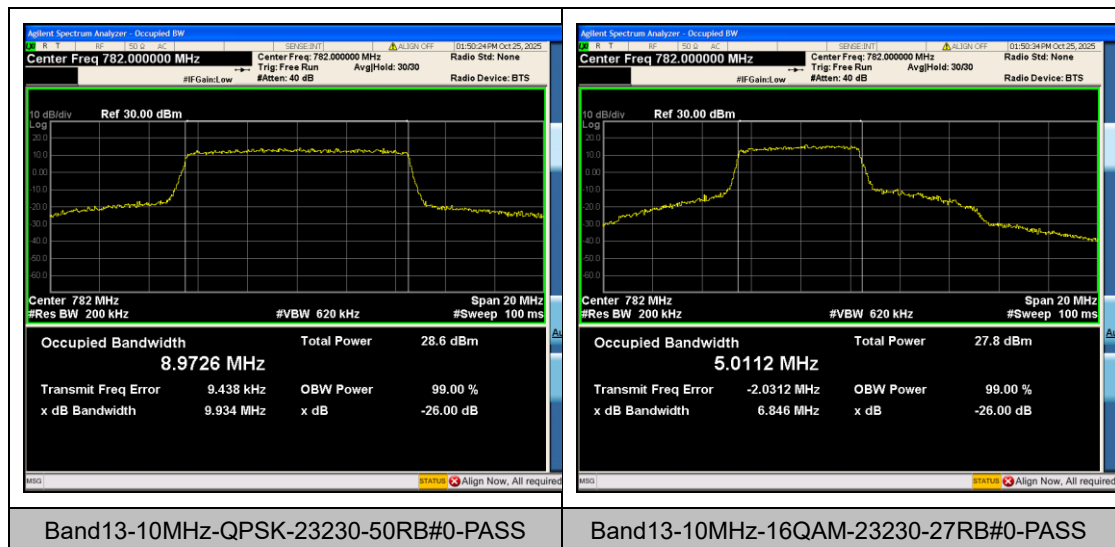
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4983	5.010	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.4860	4.971	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5026	5.001	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4949	4.974	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5033	5.017	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.4956	4.966	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9726	9.934	PASS
Band13	10MHz	16QAM	23230	27RB#0	5.0112	6.846	PASS

Test Graphs



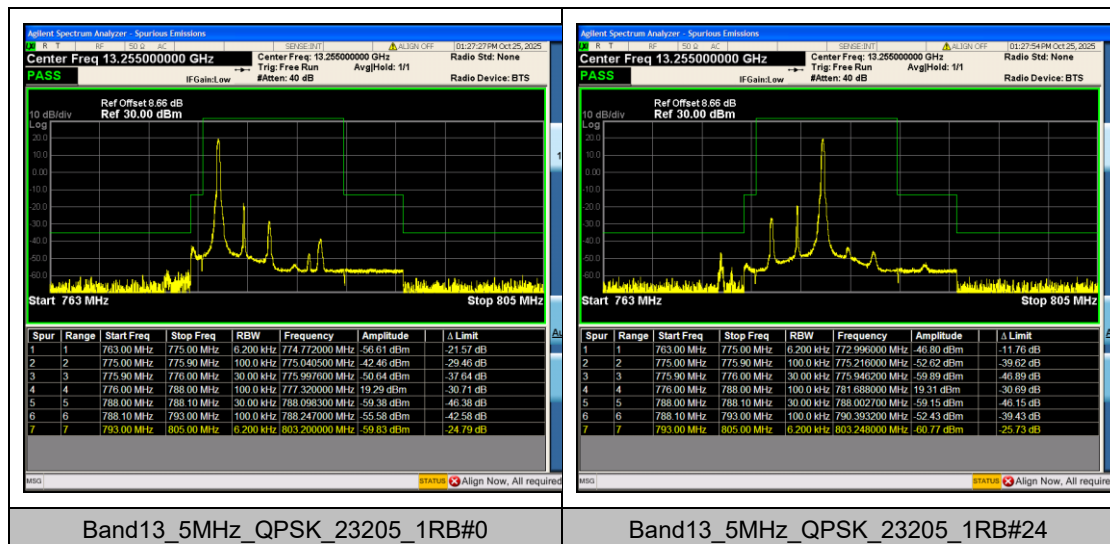


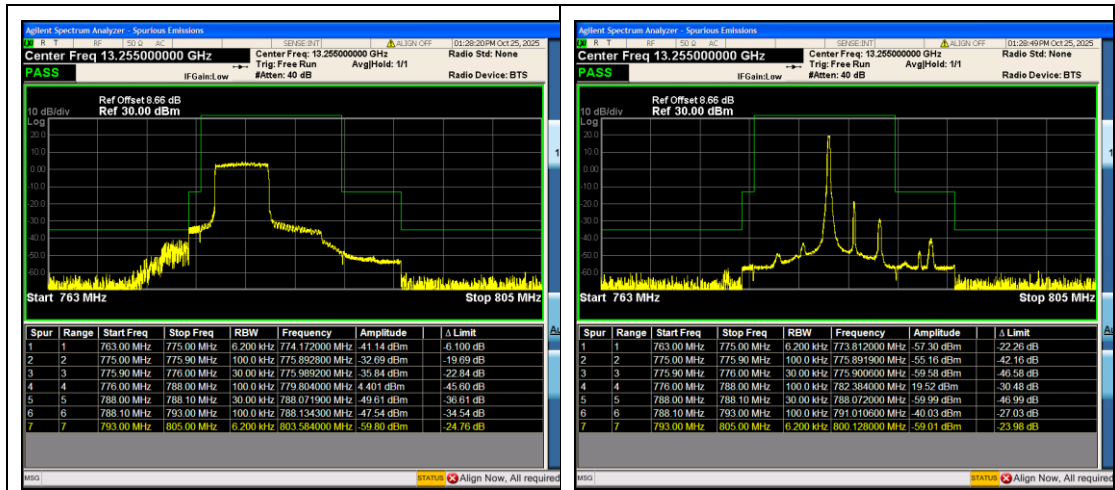
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-56.61	PASS
Band13	5MHz	QPSK	23205	1RB#24	-46.80	PASS
Band13	5MHz	QPSK	23205	25RB#0	-41.14	PASS
Band13	5MHz	QPSK	23255	1RB#0	-57.30	PASS
Band13	5MHz	QPSK	23255	1RB#24	-59.38	PASS
Band13	5MHz	QPSK	23255	25RB#0	-56.62	PASS
Band13	5MHz	16QAM	23205	1RB#0	-56.43	PASS
Band13	5MHz	16QAM	23205	1RB#24	-52.74	PASS
Band13	5MHz	16QAM	23205	25RB#0	-39.60	PASS
Band13	5MHz	16QAM	23255	1RB#0	-59.50	PASS
Band13	5MHz	16QAM	23255	1RB#24	-59.46	PASS
Band13	5MHz	16QAM	23255	25RB#0	-57.02	PASS
Band13	10MHz	QPSK	23230	1RB#0	-45.80	PASS
Band13	10MHz	QPSK	23230	1RB#49	-57.53	PASS
Band13	10MHz	QPSK	23230	50RB#0	-40.65	PASS
Band13	10MHz	16QAM	23230	1RB#0	-50.15	PASS
Band13	10MHz	16QAM	23230	1RB#49	-59.52	PASS

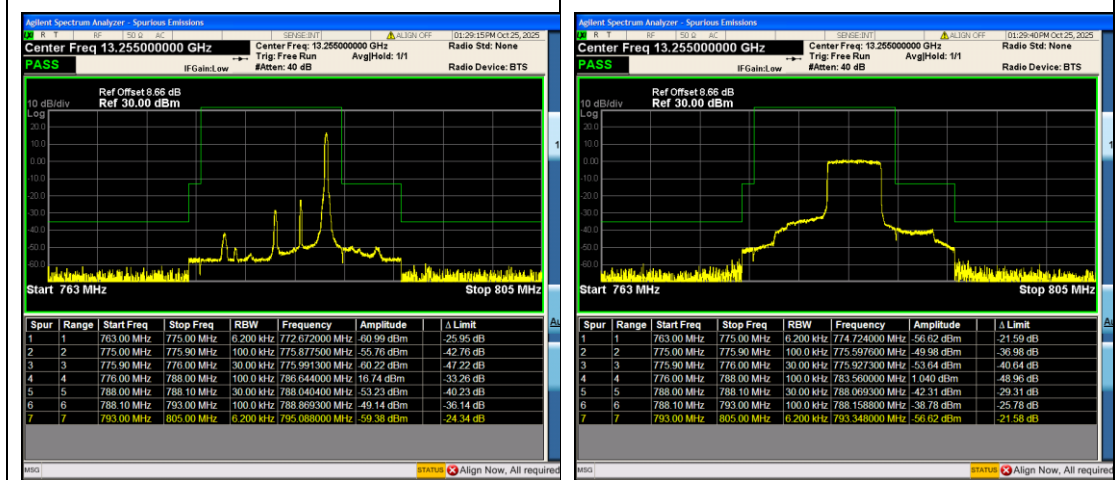
Test Graphs





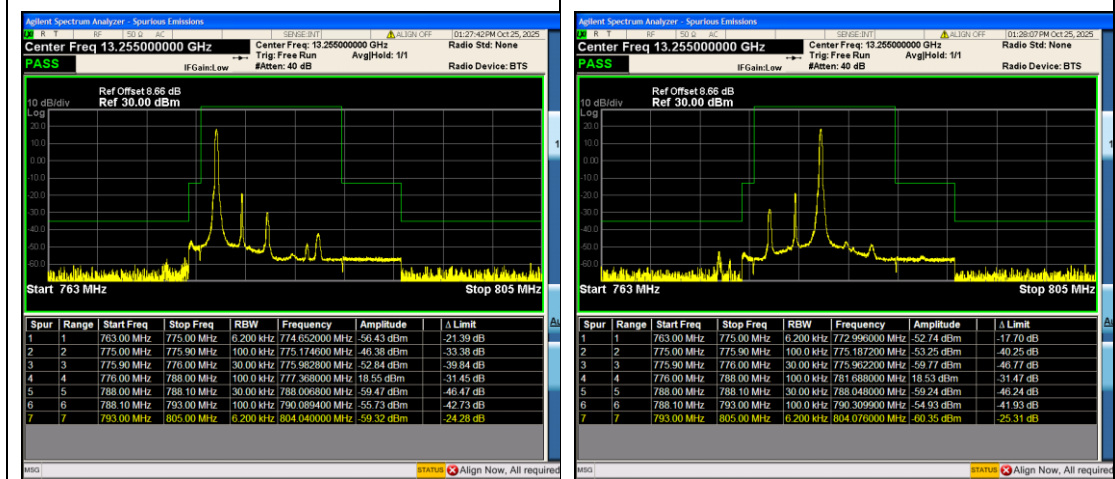
Band13_5MHz_QPSK_23205_25RB#0

Band13_5MHz_QPSK_23255_1RB#0



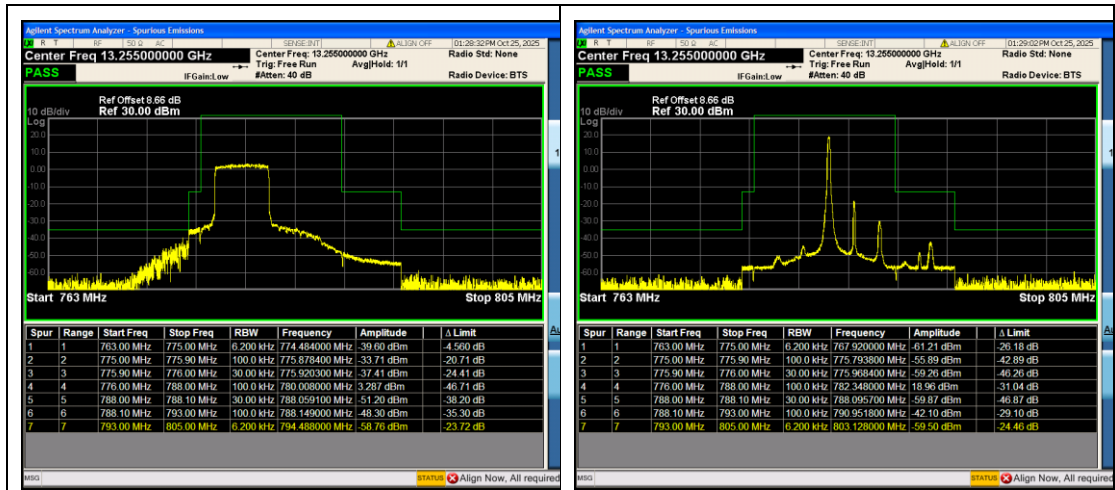
Band13_5MHz_QPSK_23255_1RB#24

Band13_5MHz_QPSK_23255_25RB#0



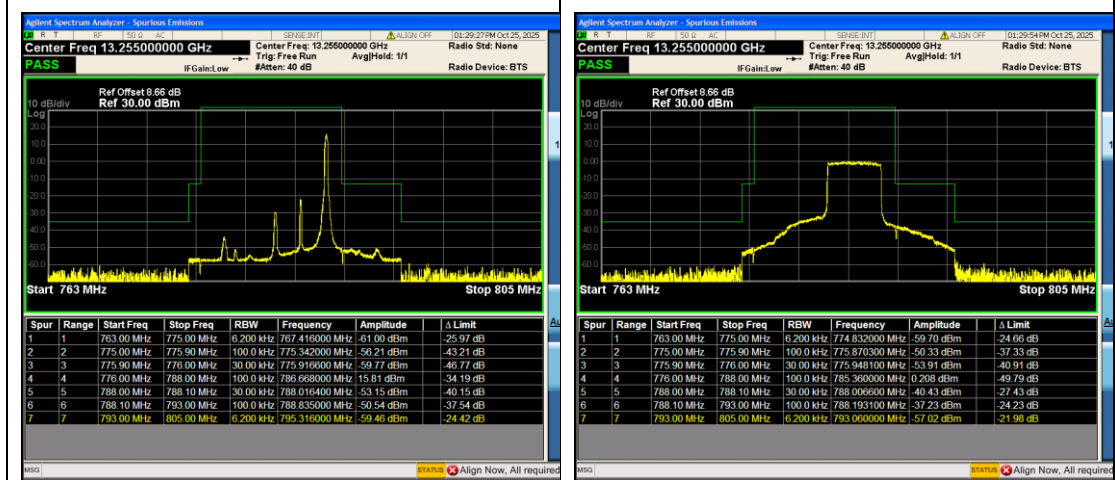
Band13_5MHz_16QAM_23205_1RB#0

Band13_5MHz_16QAM_23205_1RB#24



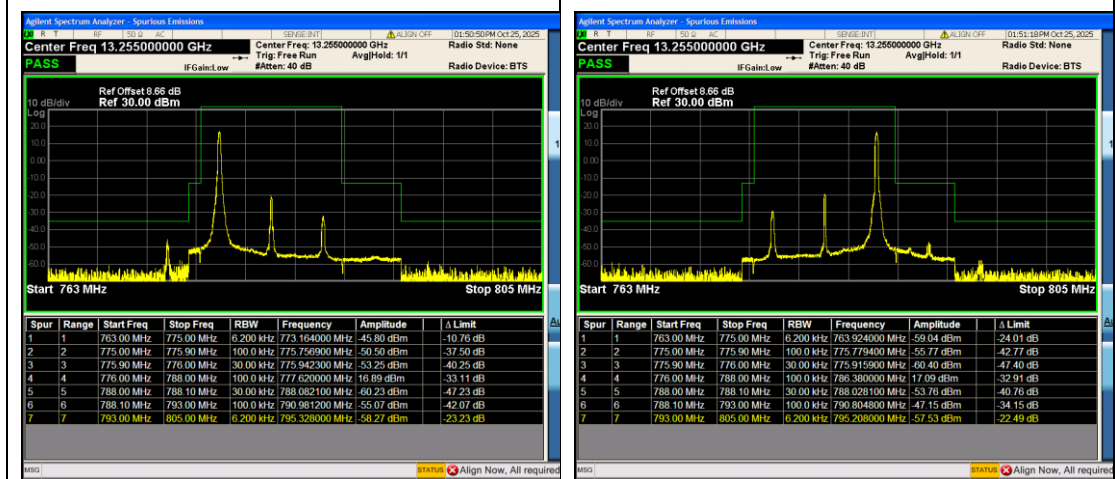
Band13_5MHz_16QAM_23205_25RB#0

Band13_5MHz_16QAM_23255_1RB#0



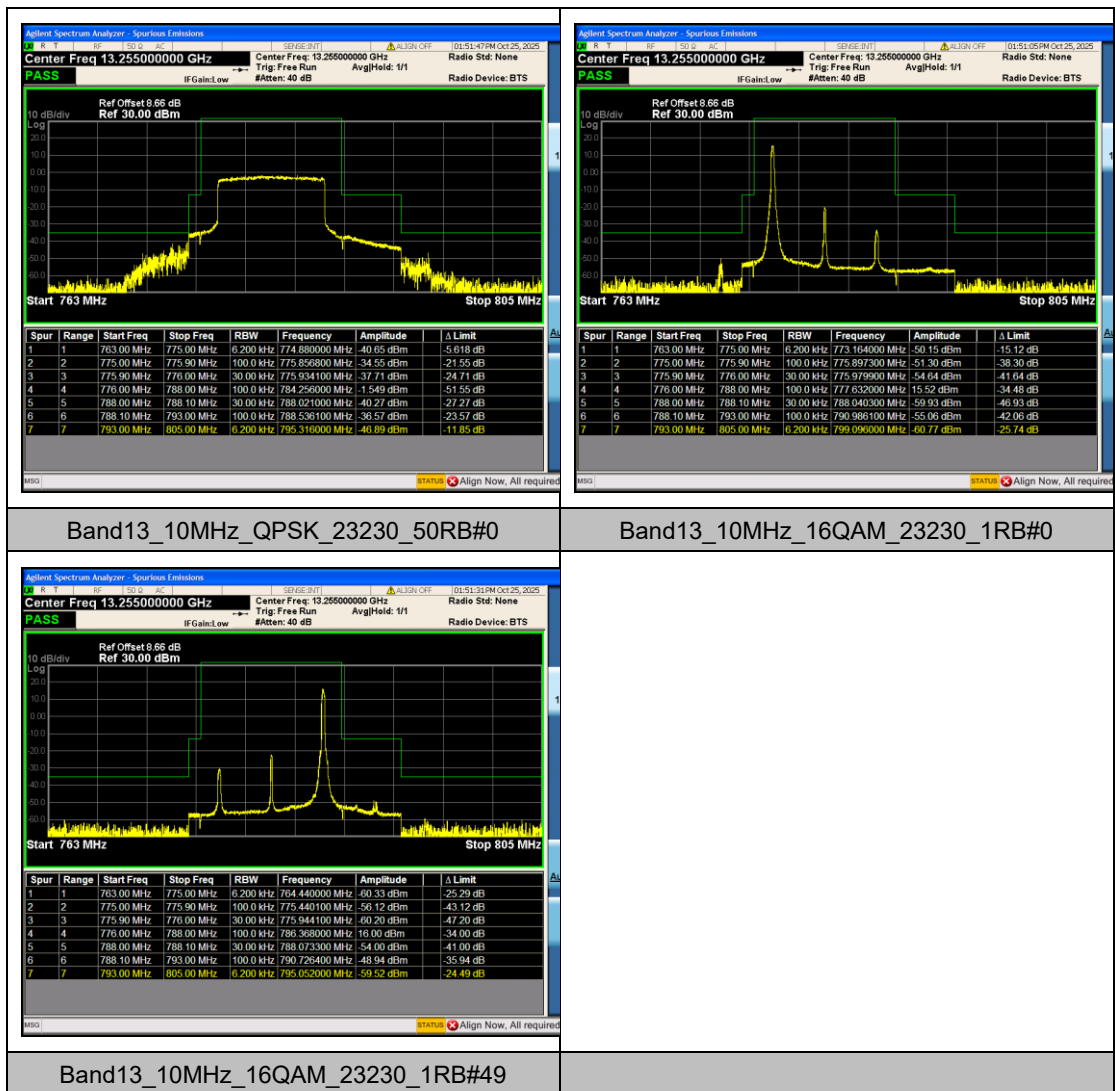
Band13_5MHz_16QAM_23255_1RB#24

Band13_5MHz_16QAM_23255_25RB#0



Band13_10MHz_QPSK_23230_1RB#0

Band13_10MHz_QPSK_23230_1RB#49



Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-38.70	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-53.08	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-56.33	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-46.91	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-43.73	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.009~0.15	-43.20	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.15~30	-53.22	PASS
Band13	5MHz	QPSK	23205	1RB#24	30~1000	-56.41	PASS
Band13	5MHz	QPSK	23205	1RB#24	1000~3000	-46.46	PASS
Band13	5MHz	QPSK	23205	1RB#24	3000~10000	-44.15	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.009~0.15	-42.32	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.15~30	-53.11	PASS
Band13	5MHz	QPSK	23205	25RB#0	30~1000	-56.68	PASS
Band13	5MHz	QPSK	23205	25RB#0	1000~3000	-46.63	PASS
Band13	5MHz	QPSK	23205	25RB#0	3000~10000	-43.80	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-40.84	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-52.75	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-57.89	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-46.71	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-42.08	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.009~0.15	-40.50	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.15~30	-52.65	PASS
Band13	5MHz	QPSK	23230	1RB#24	30~1000	-56.23	PASS
Band13	5MHz	QPSK	23230	1RB#24	1000~3000	-46.92	PASS
Band13	5MHz	QPSK	23230	1RB#24	3000~10000	-43.52	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.009~0.15	-43.15	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.15~30	-54.28	PASS
Band13	5MHz	QPSK	23230	25RB#0	30~1000	-55.78	PASS
Band13	5MHz	QPSK	23230	25RB#0	1000~3000	-45.85	PASS
Band13	5MHz	QPSK	23230	25RB#0	3000~10000	-42.36	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-41.10	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-53.38	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-58.98	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-43.96	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-43.54	PASS
Band13	5MHz	QPSK	23255	1RB#24	0.009~0.15	-43.82	PASS

Band13	5MHz	QPSK	23255	1RB#24	0.15~30	-52.99	PASS
Band13	5MHz	QPSK	23255	1RB#24	30~1000	-58.06	PASS
Band13	5MHz	QPSK	23255	1RB#24	1000~3000	-46.86	PASS
Band13	5MHz	QPSK	23255	1RB#24	3000~10000	-43.93	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.009~0.15	-39.37	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.15~30	-54.17	PASS
Band13	5MHz	QPSK	23255	25RB#0	30~1000	-56.19	PASS
Band13	5MHz	QPSK	23255	25RB#0	1000~3000	-44.64	PASS
Band13	5MHz	QPSK	23255	25RB#0	3000~10000	-43.73	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-41.49	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-53.72	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-57.97	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-46.70	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-43.65	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.009~0.15	-43.01	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.15~30	-53.40	PASS
Band13	5MHz	16QAM	23205	1RB#24	30~1000	-57.96	PASS
Band13	5MHz	16QAM	23205	1RB#24	1000~3000	-46.86	PASS
Band13	5MHz	16QAM	23205	1RB#24	3000~10000	-43.74	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.009~0.15	-40.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.15~30	-53.37	PASS
Band13	5MHz	16QAM	23205	25RB#0	30~1000	-56.40	PASS
Band13	5MHz	16QAM	23205	25RB#0	1000~3000	-46.83	PASS
Band13	5MHz	16QAM	23205	25RB#0	3000~10000	-44.00	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-40.13	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-53.70	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-58.54	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-46.88	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-43.61	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.009~0.15	-41.86	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.15~30	-53.13	PASS
Band13	5MHz	16QAM	23230	1RB#24	30~1000	-58.85	PASS
Band13	5MHz	16QAM	23230	1RB#24	1000~3000	-46.84	PASS
Band13	5MHz	16QAM	23230	1RB#24	3000~10000	-43.92	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.009~0.15	-41.58	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.15~30	-53.43	PASS
Band13	5MHz	16QAM	23230	25RB#0	30~1000	-58.14	PASS
Band13	5MHz	16QAM	23230	25RB#0	1000~3000	-45.58	PASS
Band13	5MHz	16QAM	23230	25RB#0	3000~10000	-43.76	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-40.89	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-52.35	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-59.17	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-47.00	PASS

Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-43.45	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.009~0.15	-38.97	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.15~30	-54.47	PASS
Band13	5MHz	16QAM	23255	1RB#24	30~1000	-57.93	PASS
Band13	5MHz	16QAM	23255	1RB#24	1000~3000	-47.06	PASS
Band13	5MHz	16QAM	23255	1RB#24	3000~10000	-43.68	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.009~0.15	-42.73	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.15~30	-53.29	PASS
Band13	5MHz	16QAM	23255	25RB#0	30~1000	-58.44	PASS
Band13	5MHz	16QAM	23255	25RB#0	1000~3000	-46.53	PASS
Band13	5MHz	16QAM	23255	25RB#0	3000~10000	-43.99	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-38.94	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-53.23	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-60.07	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-46.73	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-43.68	PASS
Band13	10MHz	QPSK	23230	1RB#49	0.009~0.15	-41.82	PASS
Band13	10MHz	QPSK	23230	1RB#49	0.15~30	-53.95	PASS
Band13	10MHz	QPSK	23230	1RB#49	30~1000	-60.37	PASS
Band13	10MHz	QPSK	23230	1RB#49	1000~3000	-44.40	PASS
Band13	10MHz	QPSK	23230	1RB#49	3000~10000	-43.95	PASS
Band13	10MHz	QPSK	23230	50RB#0	0.009~0.15	-41.99	PASS
Band13	10MHz	QPSK	23230	50RB#0	0.15~30	-54.79	PASS
Band13	10MHz	QPSK	23230	50RB#0	30~1000	-60.50	PASS
Band13	10MHz	QPSK	23230	50RB#0	1000~3000	-39.12	PASS
Band13	10MHz	QPSK	23230	50RB#0	3000~10000	-43.65	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-43.36	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-53.55	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-59.78	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-47.05	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-43.81	PASS
Band13	10MHz	16QAM	23230	1RB#49	0.009~0.15	-43.25	PASS
Band13	10MHz	16QAM	23230	1RB#49	0.15~30	-53.55	PASS
Band13	10MHz	16QAM	23230	1RB#49	30~1000	-61.17	PASS
Band13	10MHz	16QAM	23230	1RB#49	1000~3000	-46.34	PASS
Band13	10MHz	16QAM	23230	1RB#49	3000~10000	-43.83	PASS

Test Graphs

