

Appendix for LTE B13

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Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Power(dBm)	Antenna Gain(dBi)	ERP(dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.44	-17.9	2.39	34.8	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.44	-17.9	2.39	34.8	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.94	-17.9	2.89	34.8	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.68	-17.9	1.63	34.8	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.74	-17.9	1.69	34.8	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.89	-17.9	1.84	34.8	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.83	-17.9	1.78	34.8	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.34	-17.9	1.29	34.8	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.4	-17.9	1.35	34.8	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.77	-17.9	1.72	34.8	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.85	-17.9	0.8	34.8	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.71	-17.9	0.66	34.8	PASS
Band13	5MHz	16QAM	23205	12RB#13	21.03	-17.9	0.98	34.8	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.82	-17.9	0.77	34.8	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.65	-17.9	2.6	34.8	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.79	-17.9	2.74	34.8	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.1	-17.9	3.05	34.8	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.93	-17.9	1.88	34.8	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.86	-17.9	1.81	34.8	PASS
Band13	5MHz	QPSK	23230	12RB#13	22	-17.9	1.95	34.8	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.94	-17.9	1.89	34.8	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.96	-17.9	1.91	34.8	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.11	-17.9	2.06	34.8	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.34	-17.9	2.29	34.8	PASS
Band13	5MHz	16QAM	23230	12RB#0	21.04	-17.9	0.99	34.8	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.01	-17.9	0.96	34.8	PASS
Band13	5MHz	16QAM	23230	12RB#13	21.24	-17.9	1.19	34.8	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.02	-17.9	0.97	34.8	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.94	-17.9	2.89	34.8	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.84	-17.9	2.79	34.8	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.05	-17.9	3	34.8	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.96	-17.9	1.91	34.8	PASS
Band13	5MHz	QPSK	23255	12RB#6	22	-17.9	1.95	34.8	PASS
Band13	5MHz	QPSK	23255	12RB#13	22	-17.9	1.95	34.8	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.02	-17.9	1.97	34.8	PASS

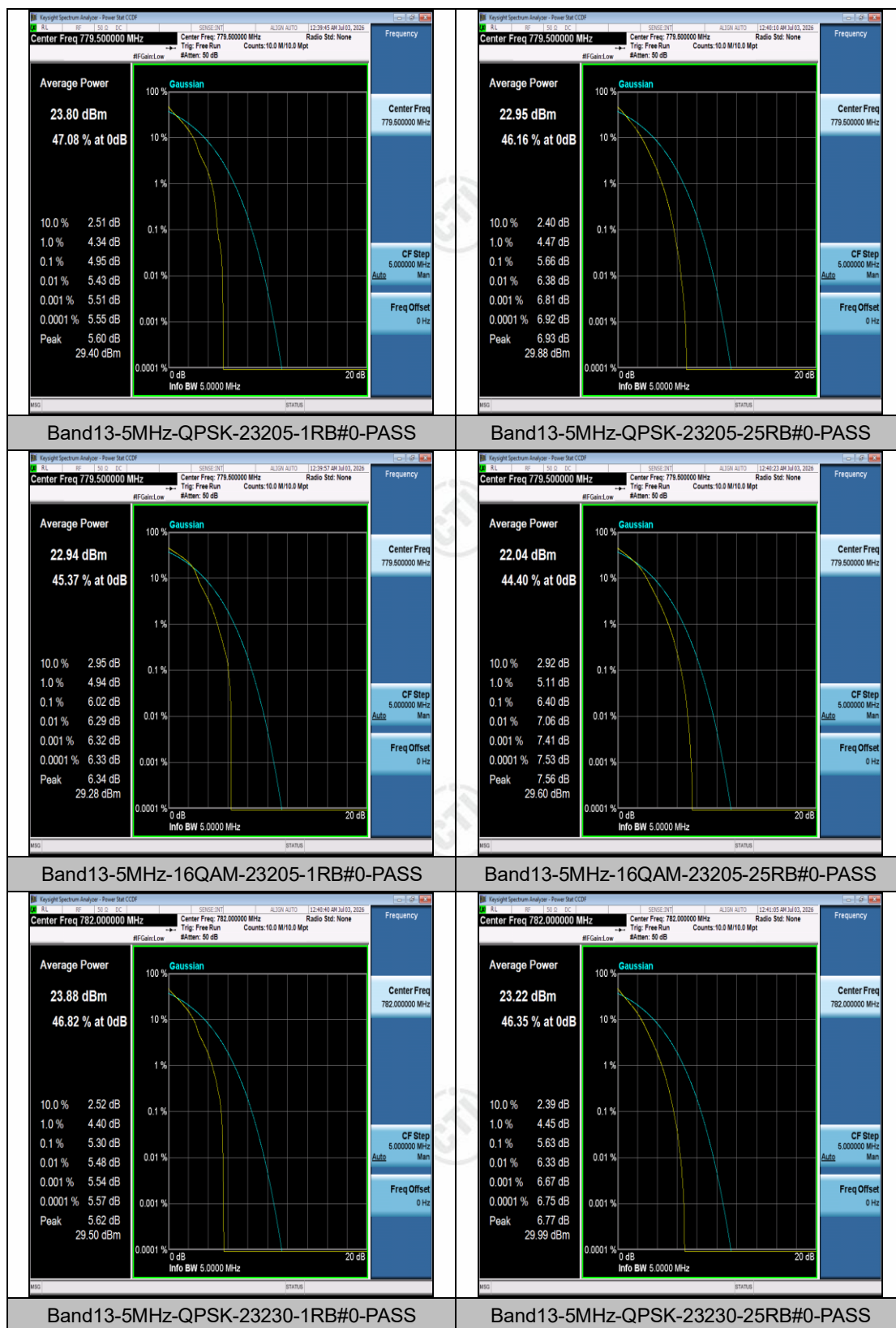
Band13	5MHz	16QAM	23255	1RB#0	21.8	-17.9	1.75	34.8	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.78	-17.9	1.73	34.8	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.81	-17.9	1.76	34.8	PASS
Band13	5MHz	16QAM	23255	12RB#0	21.21	-17.9	1.16	34.8	PASS
Band13	5MHz	16QAM	23255	12RB#6	21.08	-17.9	1.03	34.8	PASS
Band13	5MHz	16QAM	23255	12RB#13	21.2	-17.9	1.15	34.8	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.12	-17.9	1.07	34.8	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.57	-17.9	2.52	34.8	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.81	-17.9	2.76	34.8	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.97	-17.9	2.92	34.8	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.82	-17.9	1.77	34.8	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.97	-17.9	1.92	34.8	PASS
Band13	10MHz	QPSK	23230	25RB#25	22.11	-17.9	2.06	34.8	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.98	-17.9	1.93	34.8	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.9	-17.9	1.85	34.8	PASS
Band13	10MHz	16QAM	23230	1RB#12	21.63	-17.9	1.58	34.8	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.81	-17.9	1.76	34.8	PASS
Band13	10MHz	16QAM	23230	12RB#0	21.84	-17.9	1.79	34.8	PASS
Band13	10MHz	16QAM	23230	12RB#6	21.76	-17.9	1.71	34.8	PASS
Band13	10MHz	16QAM	23230	12RB#13	21.84	-17.9	1.79	34.8	PASS
Band13	10MHz	16QAM	23230	25RB#0	21	-17.9	0.95	34.8	PASS

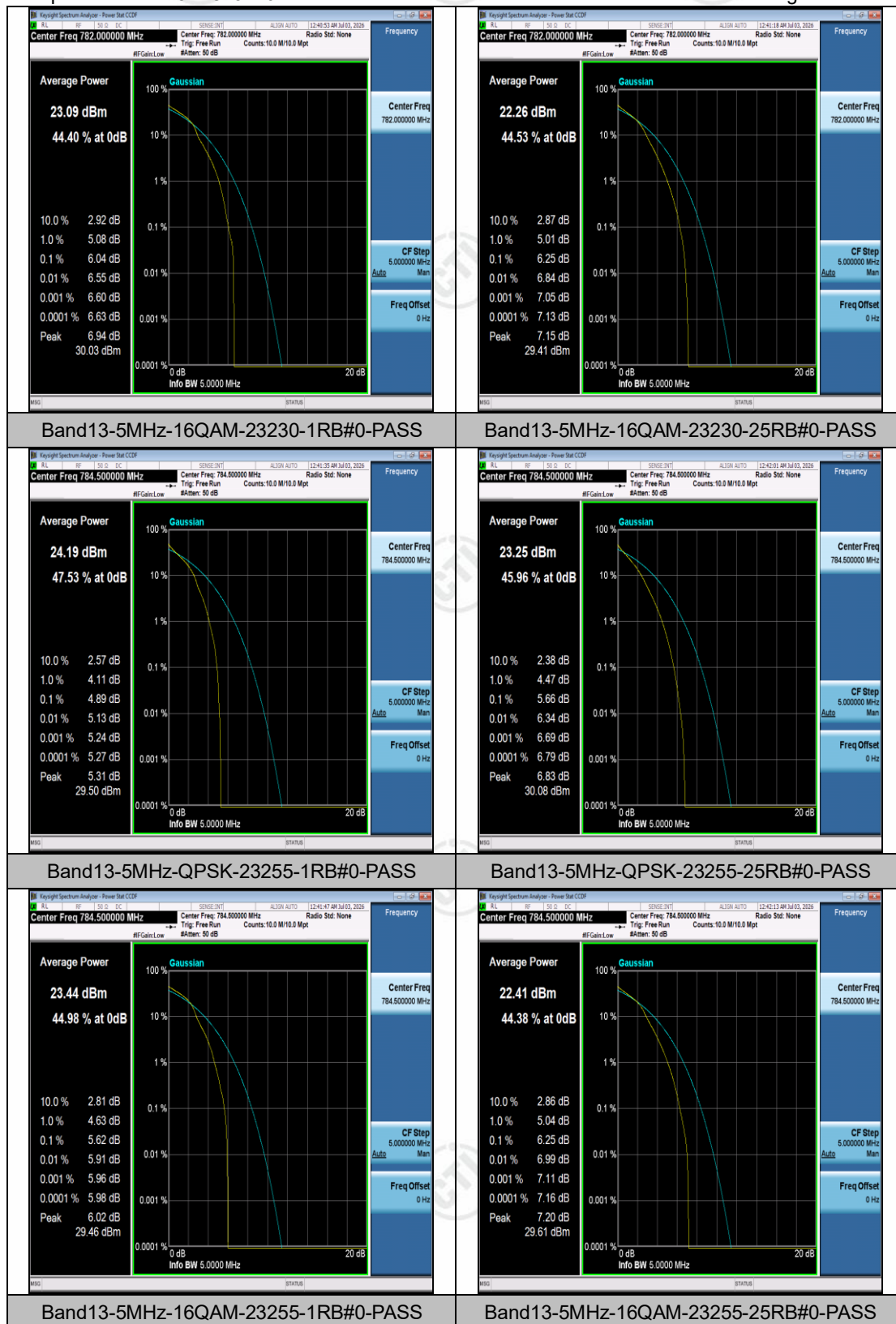
Appendix B: Peak-to-Average Ratio(CCDF)

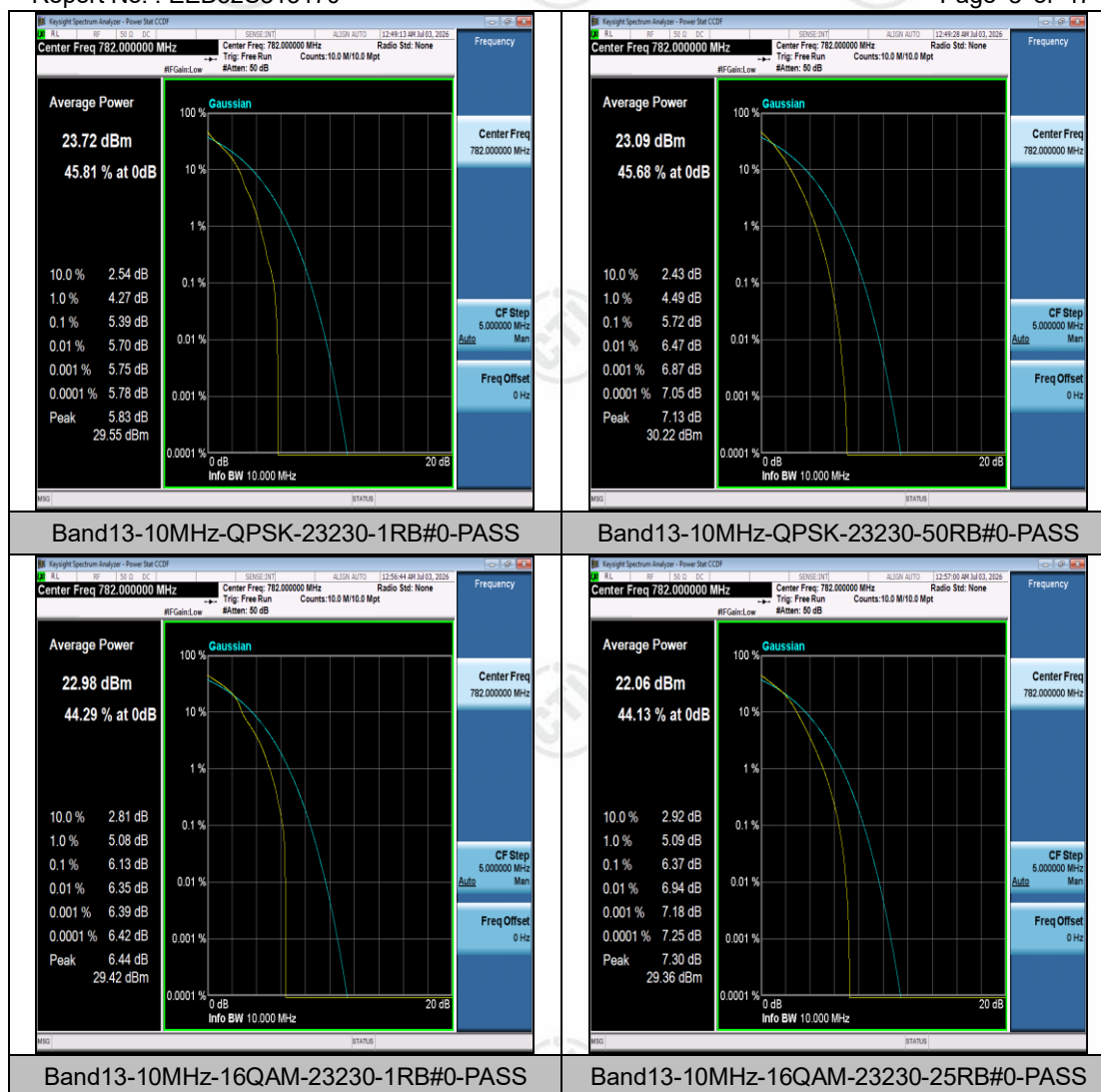
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.95	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.66	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	6.02	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.40	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	5.30	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.63	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	6.04	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.25	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	4.89	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.66	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.62	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.25	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	5.39	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.72	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	6.13	13	PASS
Band13	10MHz	16QAM	23230	25RB#0	6.37	13	PASS

Test Graphs





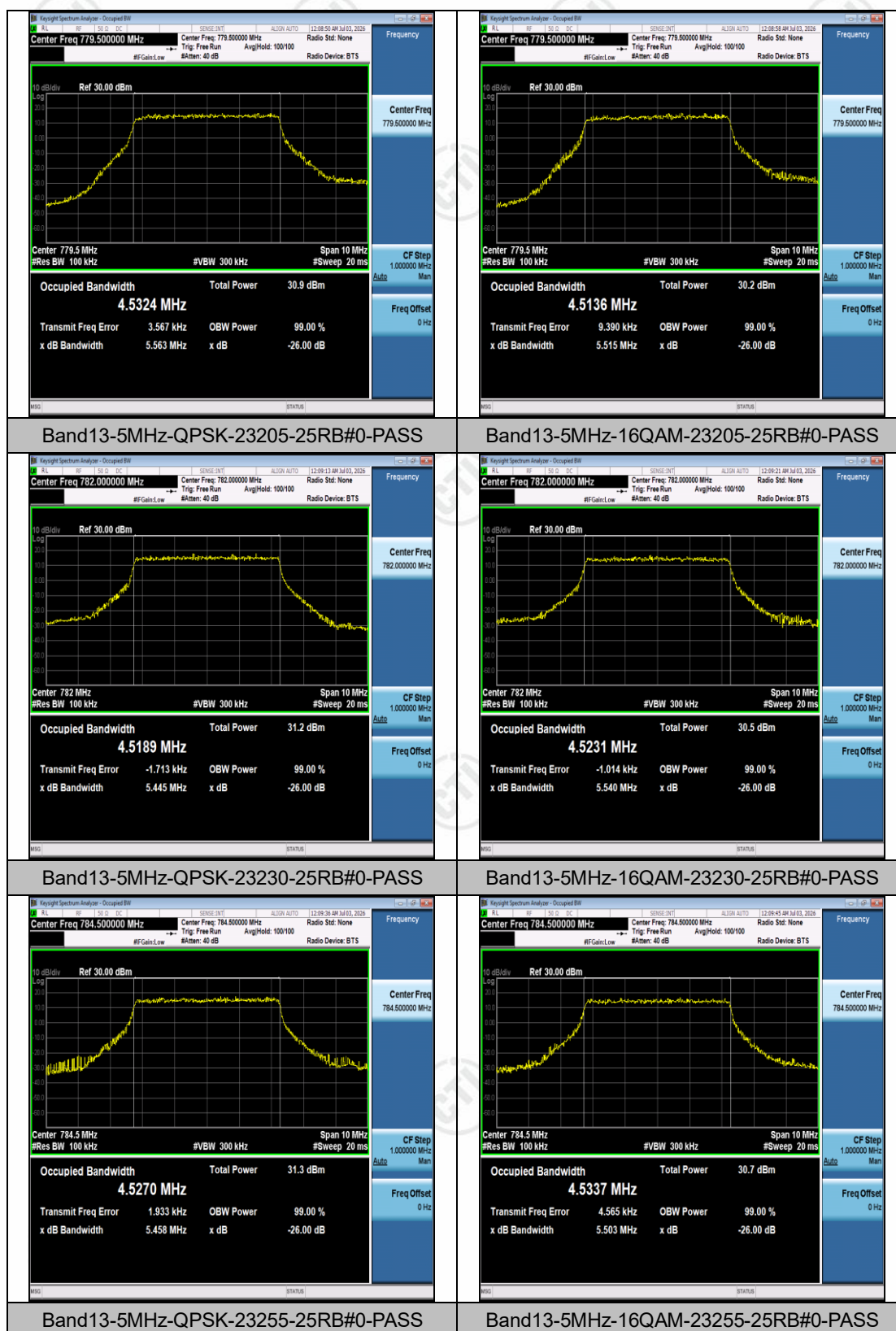


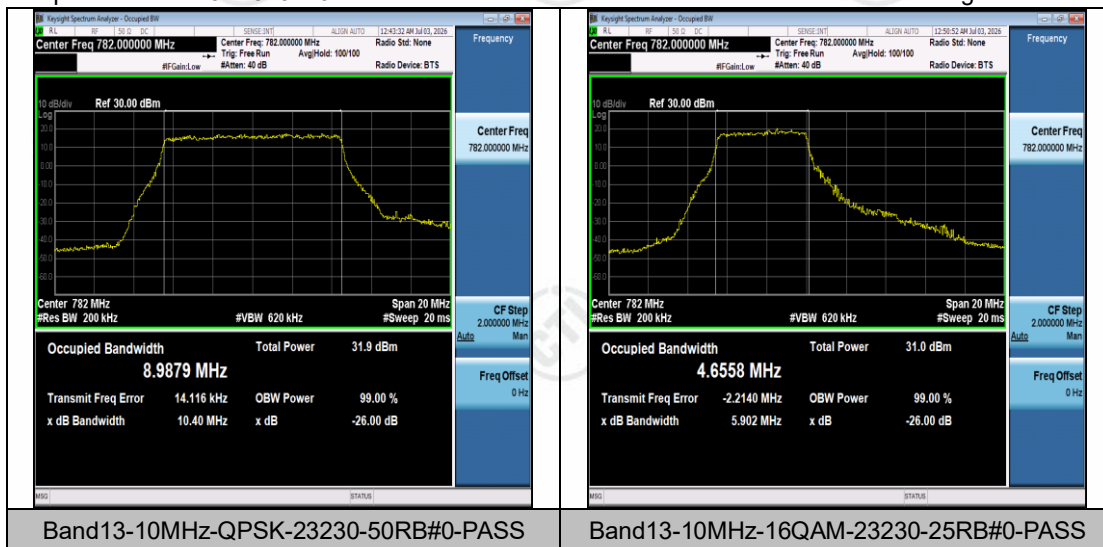
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5324	5.563	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5136	5.515	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5189	5.445	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5231	5.540	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5270	5.458	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5337	5.503	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9879	10.40	PASS
Band13	10MHz	16QAM	23230	25RB#0	4.6558	5.902	PASS

Test Graphs



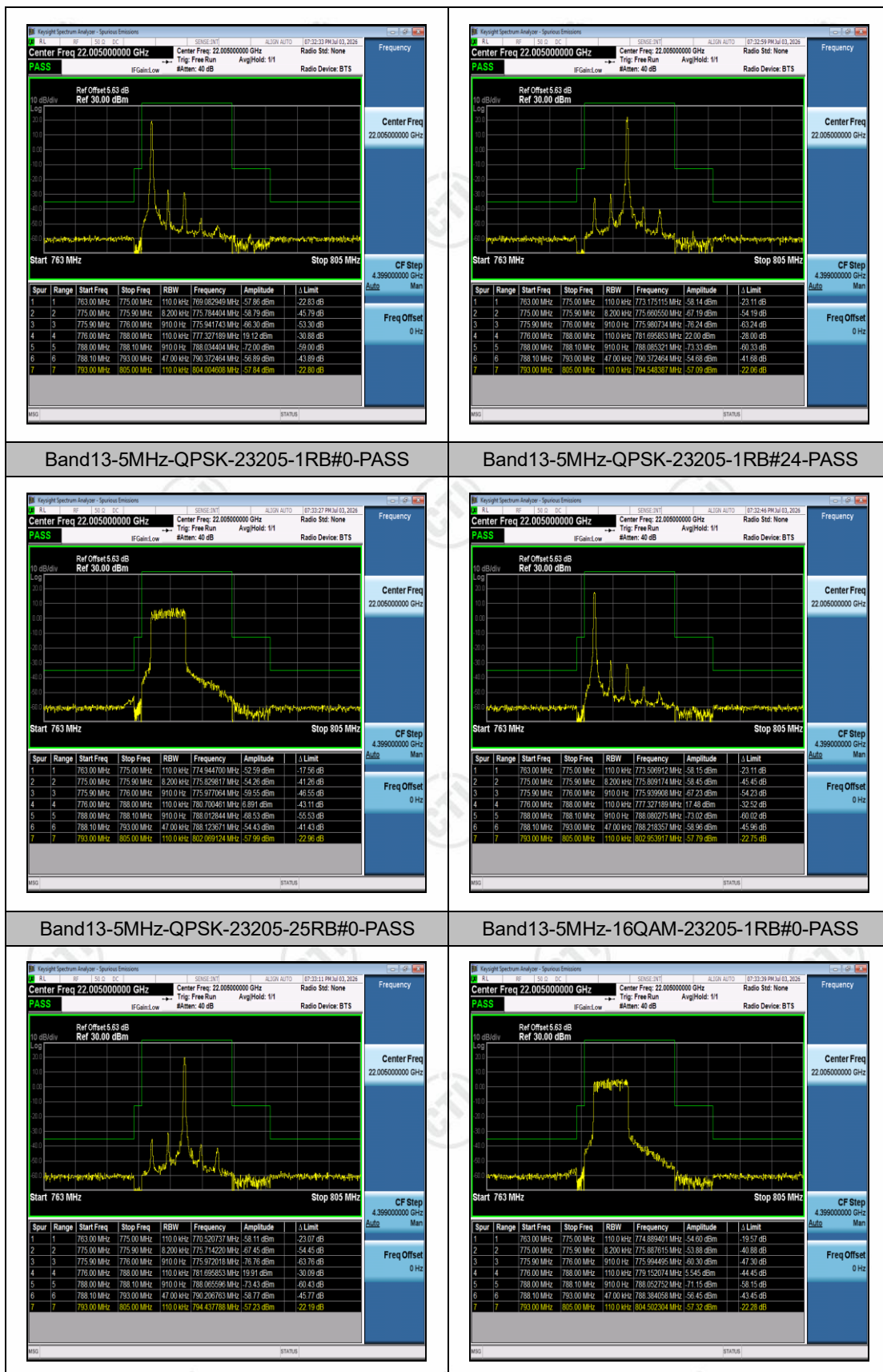


Appendix D: Band Edge

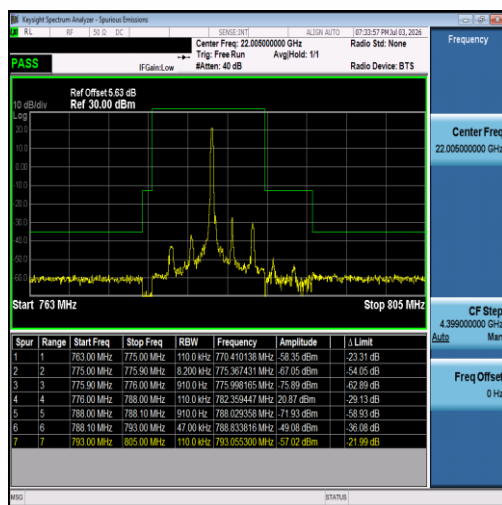
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Margin (dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-57.84	22.84	PASS
Band13	5MHz	QPSK	23205	1RB#24	-57.09	22.09	PASS
Band13	5MHz	QPSK	23205	25RB#0	-52.59	17.59	PASS
Band13	5MHz	16QAM	23205	1RB#0	-57.79	22.79	PASS
Band13	5MHz	16QAM	23205	1RB#24	-57.23	22.23	PASS
Band13	5MHz	16QAM	23205	25RB#0	-54.60	19.60	PASS
Band13	5MHz	QPSK	23255	1RB#0	-57.02	22.02	PASS
Band13	5MHz	QPSK	23255	1RB#24	-55.88	20.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	-54.60	19.60	PASS
Band13	5MHz	16QAM	23255	1RB#0	-56.28	21.28	PASS
Band13	5MHz	16QAM	23255	1RB#24	-55.26	20.26	PASS
Band13	5MHz	16QAM	23255	25RB#0	-55.18	20.18	PASS
Band13	10MHz	QPSK	23230	1RB#0	-52.49	17.49	PASS
Band13	10MHz	QPSK	23230	1RB#49	-41.97	6.97	PASS
Band13	10MHz	QPSK	23230	50RB#0	-50.61	15.61	PASS
Band13	10MHz	16QAM	23230	1RB#0	-51.31	16.31	PASS
Band13	10MHz	16QAM	23230	1RB#24	-57.68	22.68	PASS
Band13	10MHz	16QAM	23230	25RB#0	-55.71	20.71	PASS

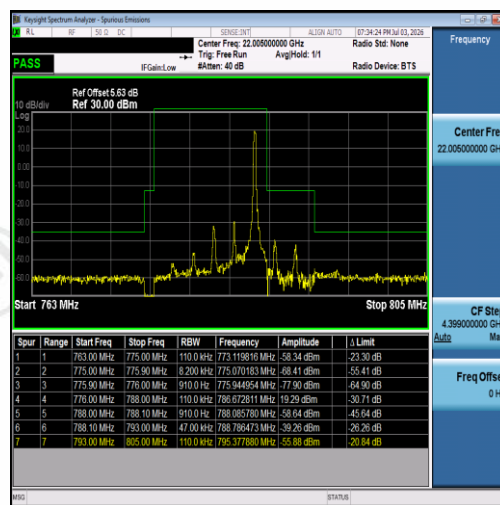
Test Graphs



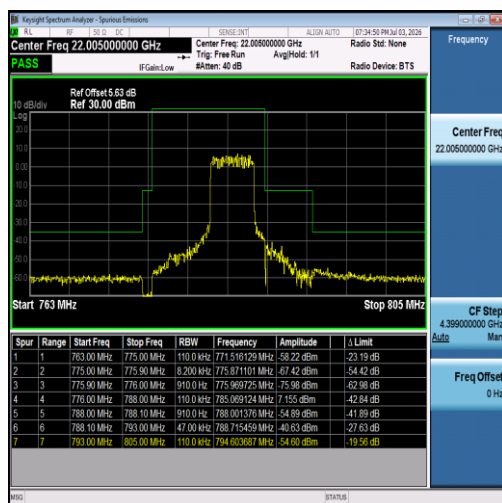
Band13-5MHz-16QAM-23205-1RB#24-PASS



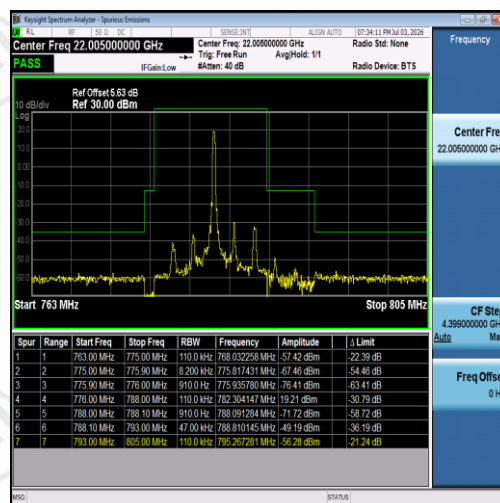
Band13-5MHz-16QAM-23205-25RB#0-PASS



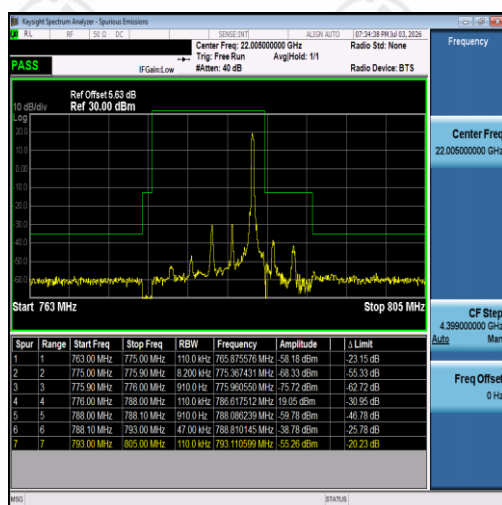
Band13-5MHz-QPSK-23255-1RB#0-PASS



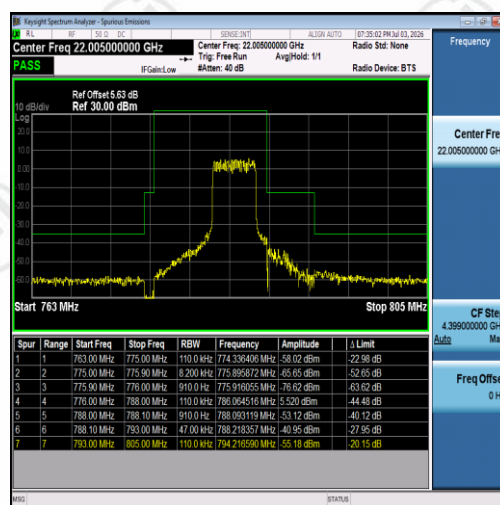
Band13-5MHz-QPSK-23255-1RB#24-PASS



Band13-5MHz-QPSK-23255-25RB#0-PASS

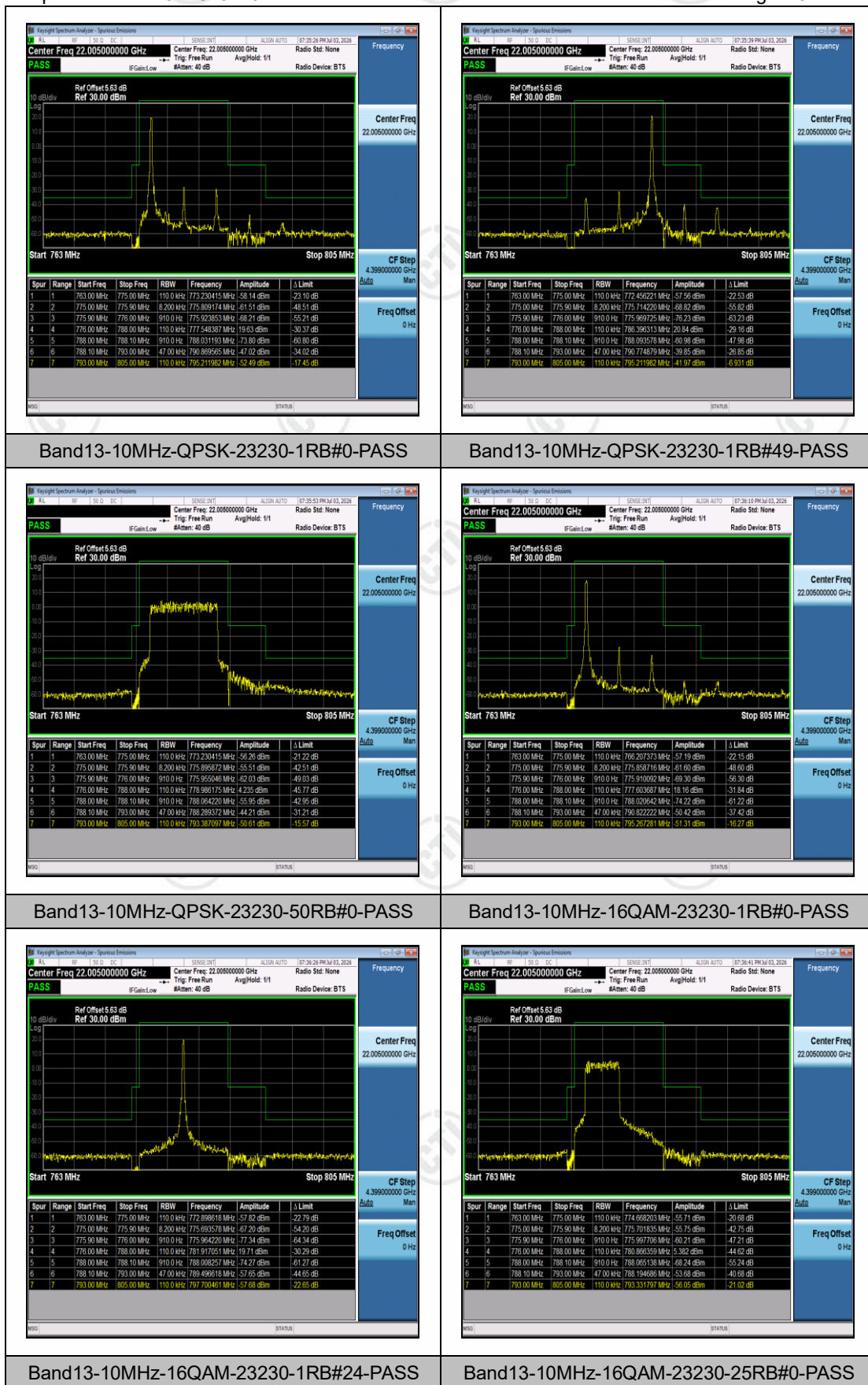


Band13-5MHz-16QAM-23255-1RB#0-PASS



Band13-5MHz-16QAM-23255-1RB#24-PASS

Band13-5MHz-16QAM-23255-25RB#0-PASS



Appendix E: Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Limit (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-44.25	-33.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-48.63	-23.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-63.91	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-45.69	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-35.00	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.009~0.15	-45.42	-33.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	0.15~30	-50.14	-23.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	30~1000	-63.78	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	1000~3000	-45.79	-13.0	PASS
Band13	5MHz	QPSK	23205	1RB#24	3000~10000	-34.68	-13.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.009~0.15	-53.33	-33.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.15~30	-52.22	-23.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	30~1000	-63.21	-13.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	1000~3000	-45.80	-13.0	PASS
Band13	5MHz	QPSK	23205	25RB#0	3000~10000	-34.88	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-42.61	-33.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-49.39	-23.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-63.68	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-45.92	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-34.91	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.009~0.15	-44.22	-33.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	0.15~30	-50.65	-23.0	PASS

Band13	5MHz	16QAM	23205	1RB#24	30~1000	-63.76	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	1000~3000	-46.13	-13.0	PASS
Band13	5MHz	16QAM	23205	1RB#24	3000~10000	-35.03	-13.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.009~0.15	-51.61	-33.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.15~30	-50.36	-23.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	30~1000	-62.61	-13.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	1000~3000	-45.53	-13.0	PASS
Band13	5MHz	16QAM	23205	25RB#0	3000~10000	-34.94	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-44.35	-33.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-50.74	-23.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-62.93	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-46.04	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-34.81	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.009~0.15	-44.04	-33.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	0.15~30	-47.79	-23.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	30~1000	-62.62	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	1000~3000	-45.79	-13.0	PASS
Band13	5MHz	QPSK	23230	1RB#24	3000~10000	-33.44	-13.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.009~0.15	-51.22	-33.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.15~30	-53.01	-23.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	30~1000	-63.79	-13.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	1000~3000	-45.38	-13.0	PASS
Band13	5MHz	QPSK	23230	25RB#0	3000~10000	-34.90	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-43.63	-33.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-48.17	-23.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-63.83	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-45.78	-13.0	PASS

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Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-34.75	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.009~0.15	-45.18	-33.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	0.15~30	-49.67	-23.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	30~1000	-62.74	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	1000~3000	-40.23	-13.0	PASS
Band13	5MHz	16QAM	23230	1RB#24	3000~10000	-34.72	-13.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.009~0.15	-51.34	-33.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.15~30	-52.01	-23.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	30~1000	-63.55	-13.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	1000~3000	-45.86	-13.0	PASS
Band13	5MHz	16QAM	23230	25RB#0	3000~10000	-34.88	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-45.76	-33.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-50.82	-23.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-62.77	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-45.79	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-34.74	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	0.009~0.15	-44.36	-33.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	0.15~30	-49.36	-23.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	30~1000	-62.86	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	1000~3000	-45.90	-13.0	PASS
Band13	5MHz	QPSK	23255	1RB#24	3000~10000	-34.54	-13.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.009~0.15	-51.68	-33.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.15~30	-51.81	-23.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	30~1000	-63.53	-13.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	1000~3000	-40.61	-13.0	PASS
Band13	5MHz	QPSK	23255	25RB#0	3000~10000	-34.76	-13.0	PASS

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Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-44.22	-33.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-49.39	-23.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-63.73	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-46.17	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-34.70	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.009~0.15	-42.72	-33.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	0.15~30	-50.75	-23.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	30~1000	-62.87	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	1000~3000	-45.22	-13.0	PASS
Band13	5MHz	16QAM	23255	1RB#24	3000~10000	-34.96	-13.0	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.009~0.15	-51.83	-33.0	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.15~30	-53.46	-23.0	PASS
Band13	5MHz	16QAM	23255	25RB#0	30~1000	-62.90	-13.0	PASS
Band13	5MHz	16QAM	23255	25RB#0	1000~3000	-46.07	-13.0	PASS
Band13	5MHz	16QAM	23255	25RB#0	3000~10000	-35.16	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-42.05	-33.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-49.09	-23.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-64.20	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-45.37	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-34.83	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#49	0.009~0.15	-43.92	-33.0	PASS
Band13	10MHz	QPSK	23230	1RB#49	0.15~30	-48.18	-23.0	PASS
Band13	10MHz	QPSK	23230	1RB#49	30~1000	-63.99	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#49	1000~3000	-45.83	-13.0	PASS
Band13	10MHz	QPSK	23230	1RB#49	3000~10000	-34.77	-13.0	PASS
Band13	10MHz	QPSK	23230	50RB#0	0.009~0.15	-51.64	-33.0	PASS

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Band13	10MHz	QPSK	23230	50RB#0	0.15~30	-56.37	-23.0	PASS
Band13	10MHz	QPSK	23230	50RB#0	30~1000	-62.42	-13.0	PASS
Band13	10MHz	QPSK	23230	50RB#0	1000~3000	-45.28	-13.0	PASS
Band13	10MHz	QPSK	23230	50RB#0	3000~10000	-35.06	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-43.00	-33.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-47.77	-23.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-64.23	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-45.68	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-34.85	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#24	0.009~0.15	-45.54	-33.0	PASS
Band13	10MHz	16QAM	23230	1RB#24	0.15~30	-50.84	-23.0	PASS
Band13	10MHz	16QAM	23230	1RB#24	30~1000	-64.07	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#24	1000~3000	-46.08	-13.0	PASS
Band13	10MHz	16QAM	23230	1RB#24	3000~10000	-34.96	-13.0	PASS
Band13	10MHz	16QAM	23230	25RB#0	0.009~0.15	-52.37	-33.0	PASS
Band13	10MHz	16QAM	23230	25RB#0	0.15~30	-51.64	-23.0	PASS
Band13	10MHz	16QAM	23230	25RB#0	30~1000	-64.52	-13.0	PASS
Band13	10MHz	16QAM	23230	25RB#0	1000~3000	-45.83	-13.0	PASS
Band13	10MHz	16QAM	23230	25RB#0	3000~10000	-34.96	-13.0	PASS

Test Graphs

