

Appendix for LTE BAND 13

Product Name: Mobile Phone

Model No: SIMPLE

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.74	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.69	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.74	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.57	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.57	PASS
Band13	5MHz	QPSK	23205	12RB#13	22.02	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.06	PASS
Band13	5MHz	16QAM	23205	1RB#0	20.97	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.20	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.19	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.99	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.98	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.97	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.12	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.56	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.60	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.54	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.84	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.89	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.47	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.97	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.67	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.55	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.11	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.90	PASS
Band13	5MHz	16QAM	23230	12RB#6	21.06	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.90	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.99	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.48	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.42	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.35	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.42	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.43	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.89	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.44	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.47	PASS

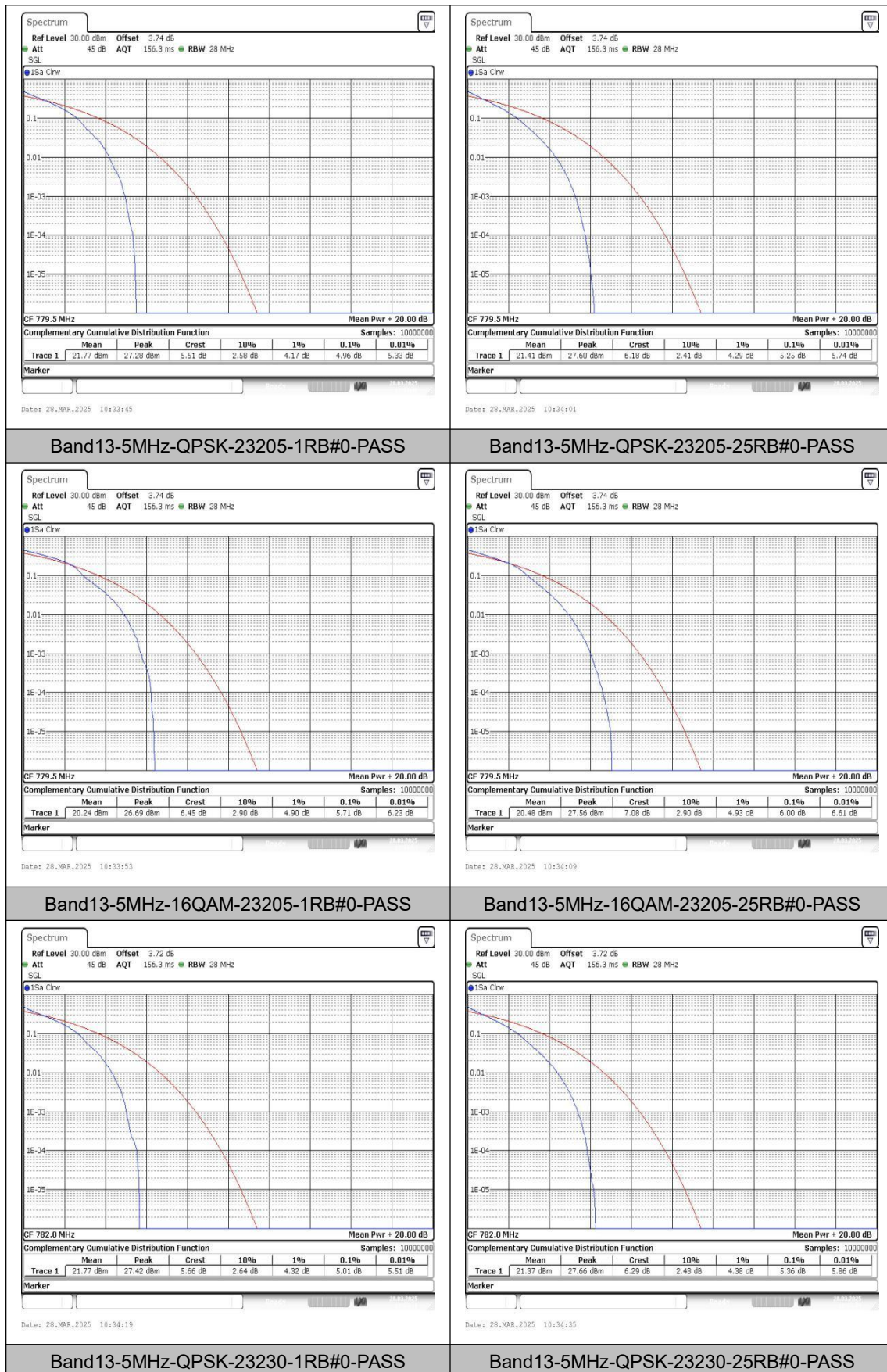
Band13	5MHz	16QAM	23255	1RB#12	20.98	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.42	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.94	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.80	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.83	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.95	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.55	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.58	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.81	PASS
Band13	10MHz	QPSK	23230	25RB#0	22.06	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.94	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.53	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.89	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.59	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.53	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.78	PASS
Band13	10MHz	16QAM	23230	25RB#0	21.00	PASS
Band13	10MHz	16QAM	23230	25RB#12	21.00	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.87	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.98	PASS

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

Test Result

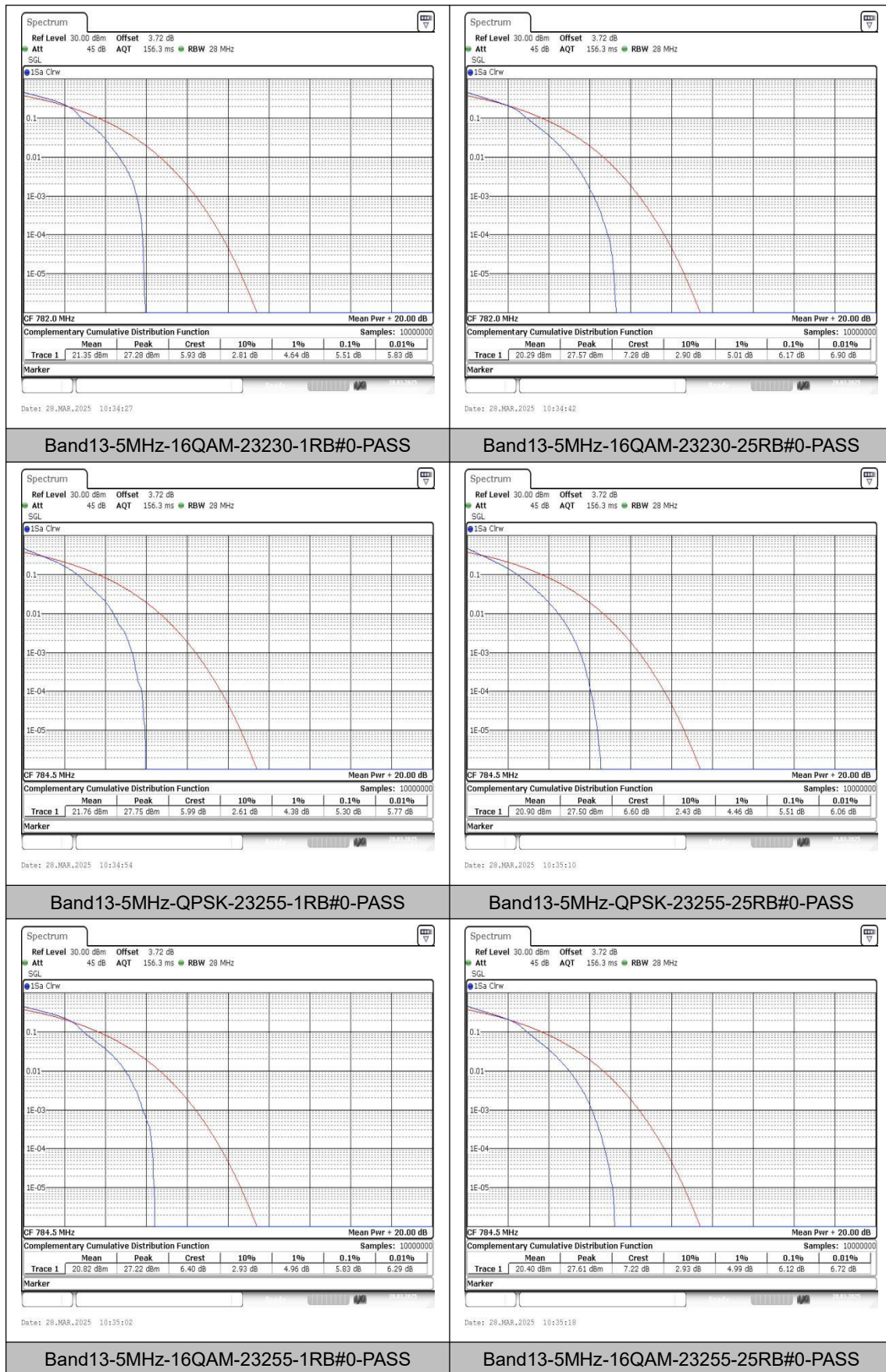
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	4.96	13	PASS
Band13	5MHz	QPSK	23205	25RB#0	5.25	13	PASS
Band13	5MHz	16QAM	23205	1RB#0	5.71	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	6.00	13	PASS
Band13	5MHz	QPSK	23230	1RB#0	5.01	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.36	13	PASS
Band13	5MHz	16QAM	23230	1RB#0	5.51	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.17	13	PASS
Band13	5MHz	QPSK	23255	1RB#0	5.30	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.51	13	PASS
Band13	5MHz	16QAM	23255	1RB#0	5.83	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.12	13	PASS
Band13	10MHz	QPSK	23230	1RB#0	4.99	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.59	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	5.59	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.38	13	PASS

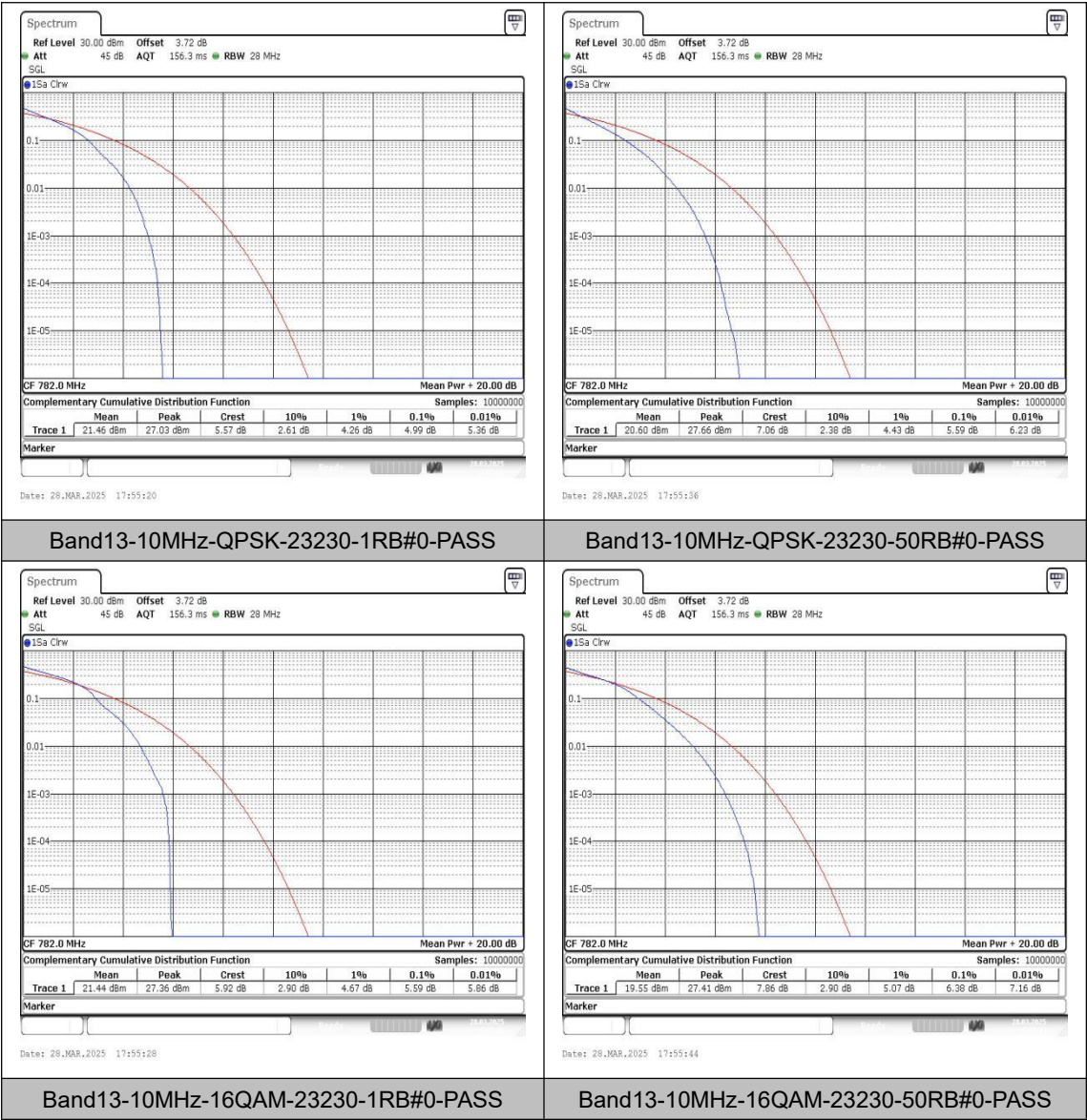
Test Graphs



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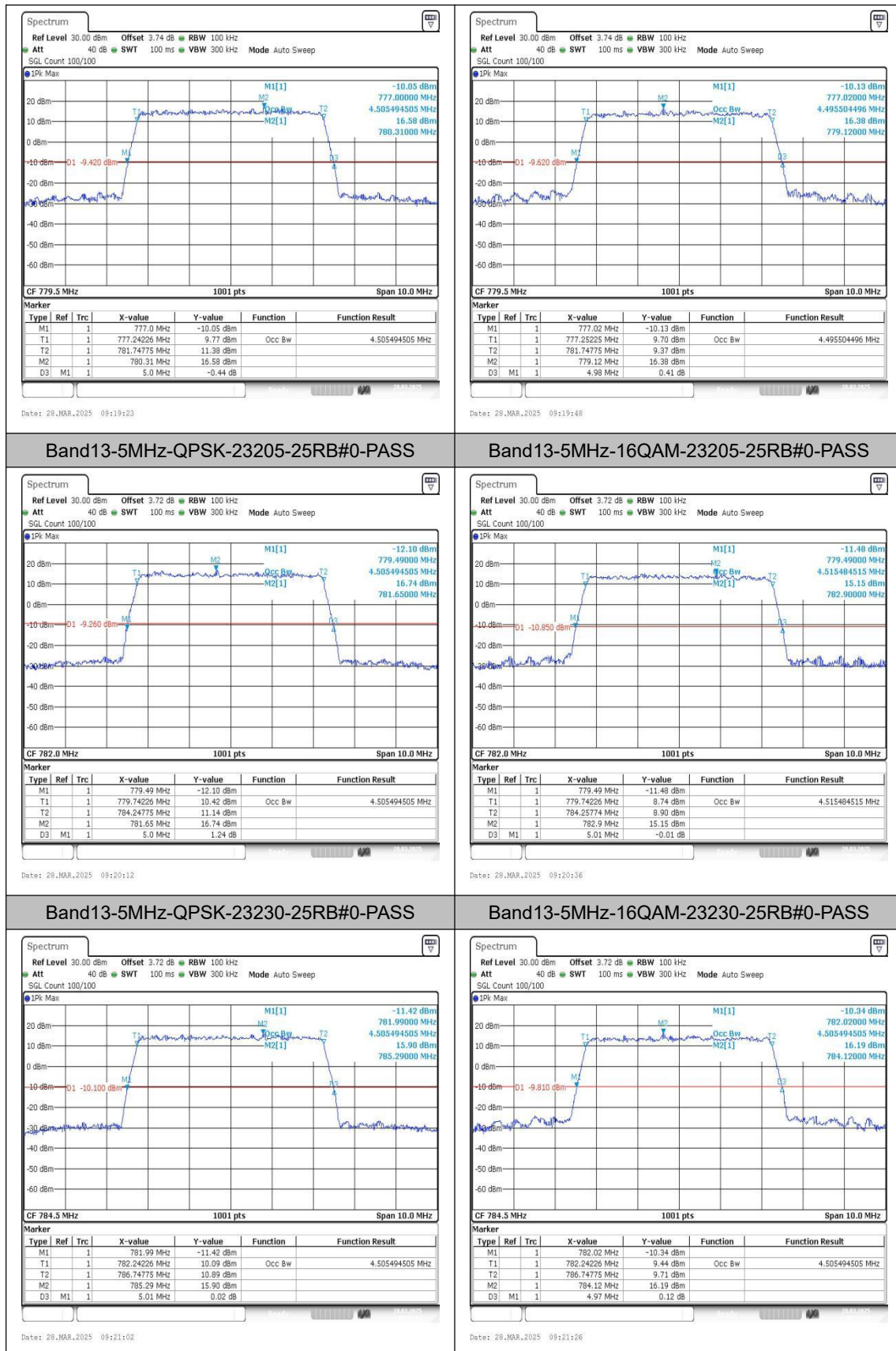


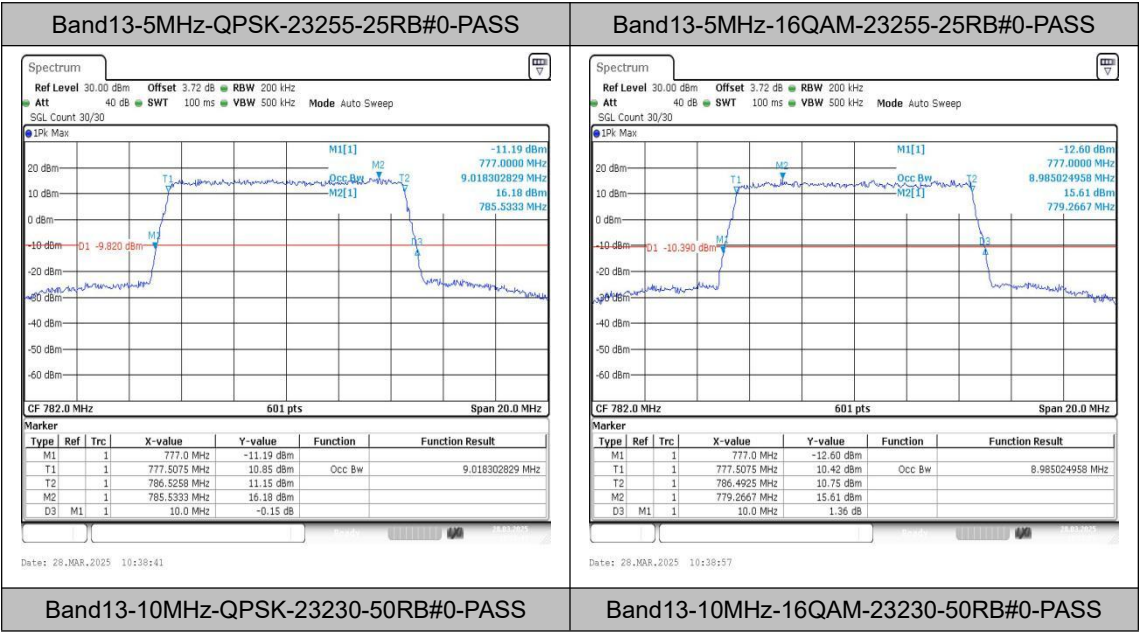
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.505	5.00	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.496	4.98	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.505	5.00	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.515	5.01	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.505	5.01	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.505	4.97	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.018	10.00	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.985	10.00	PASS

Test Graphs



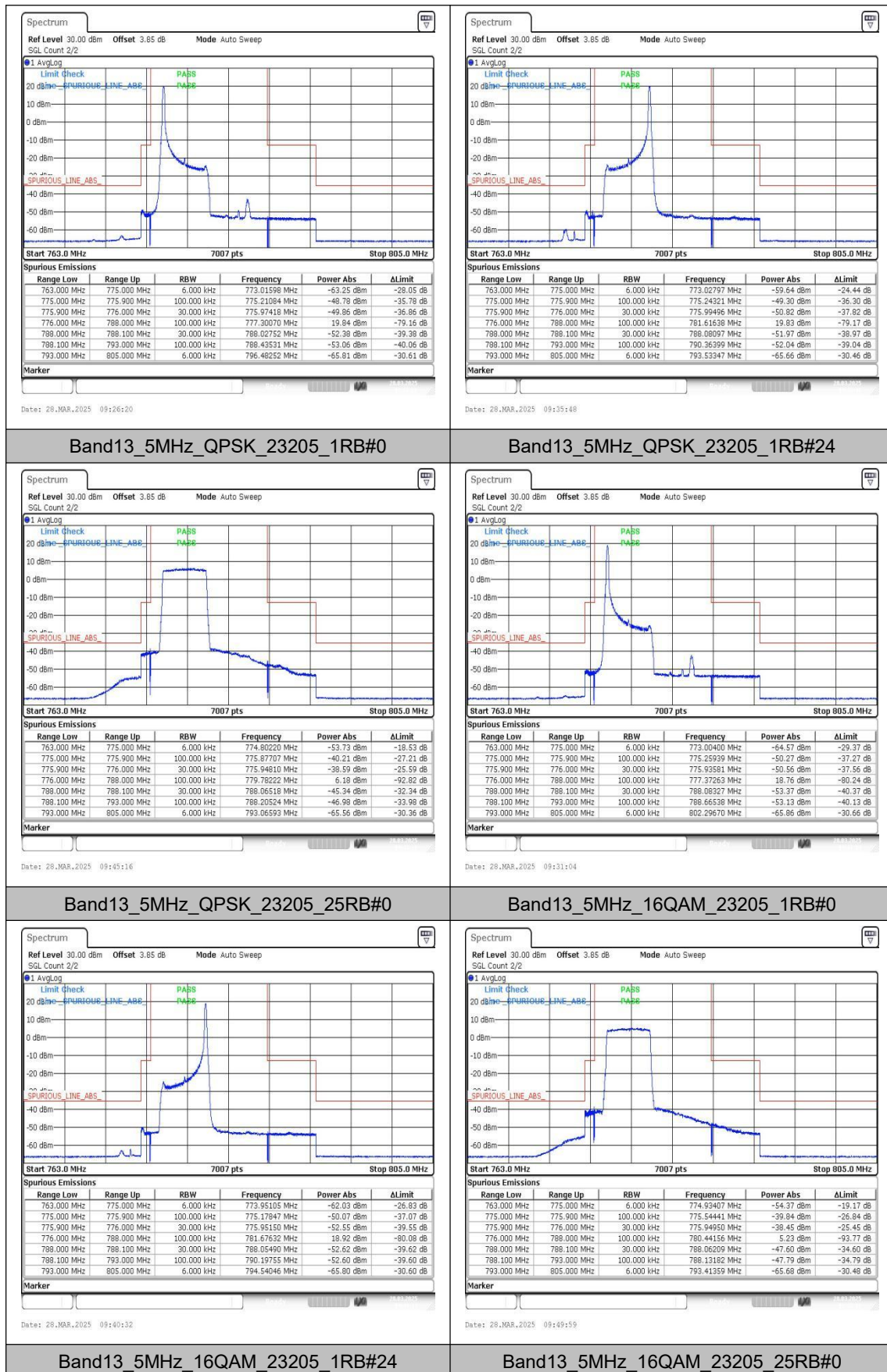


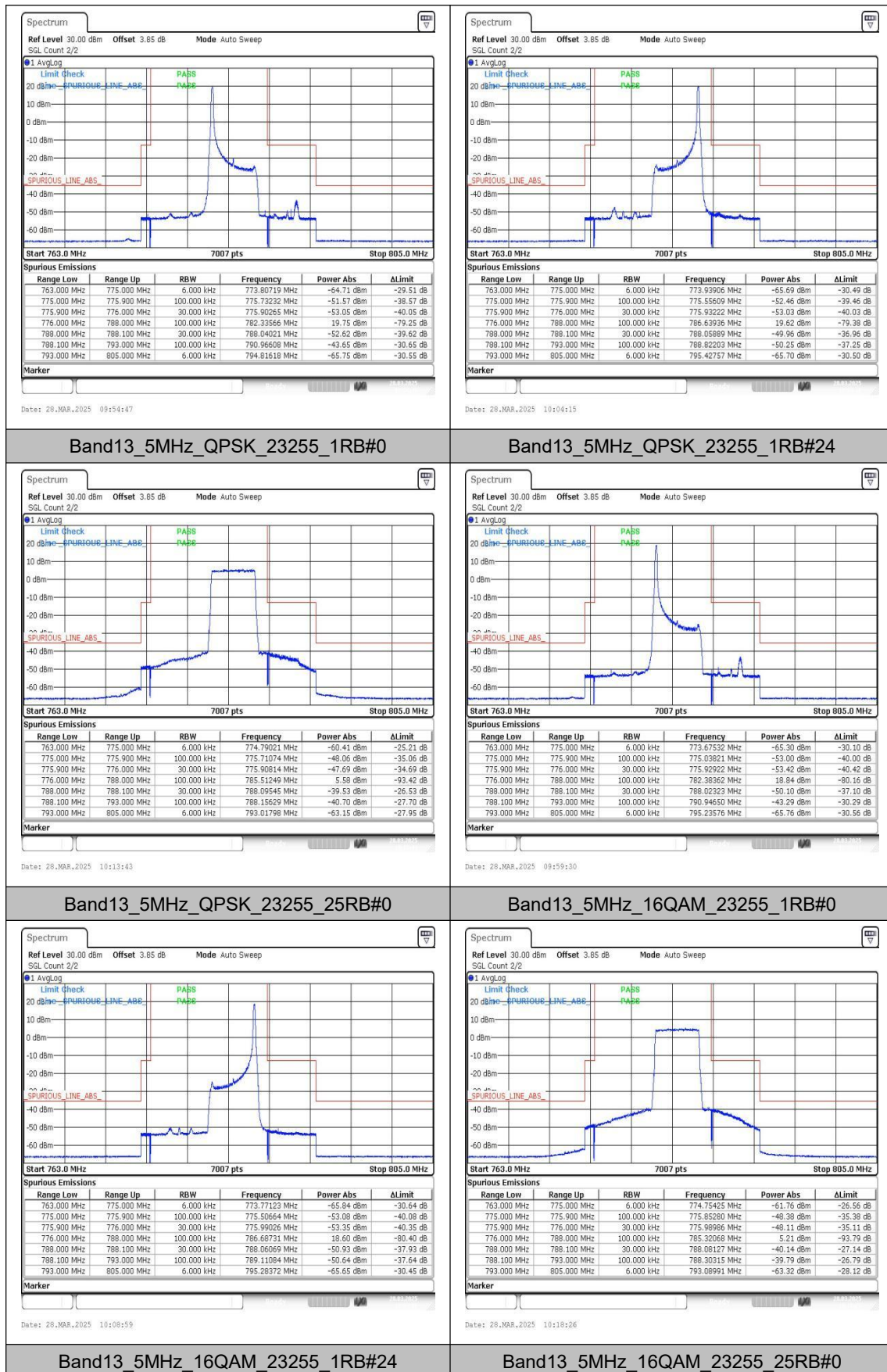
Appendix D: Band Edge

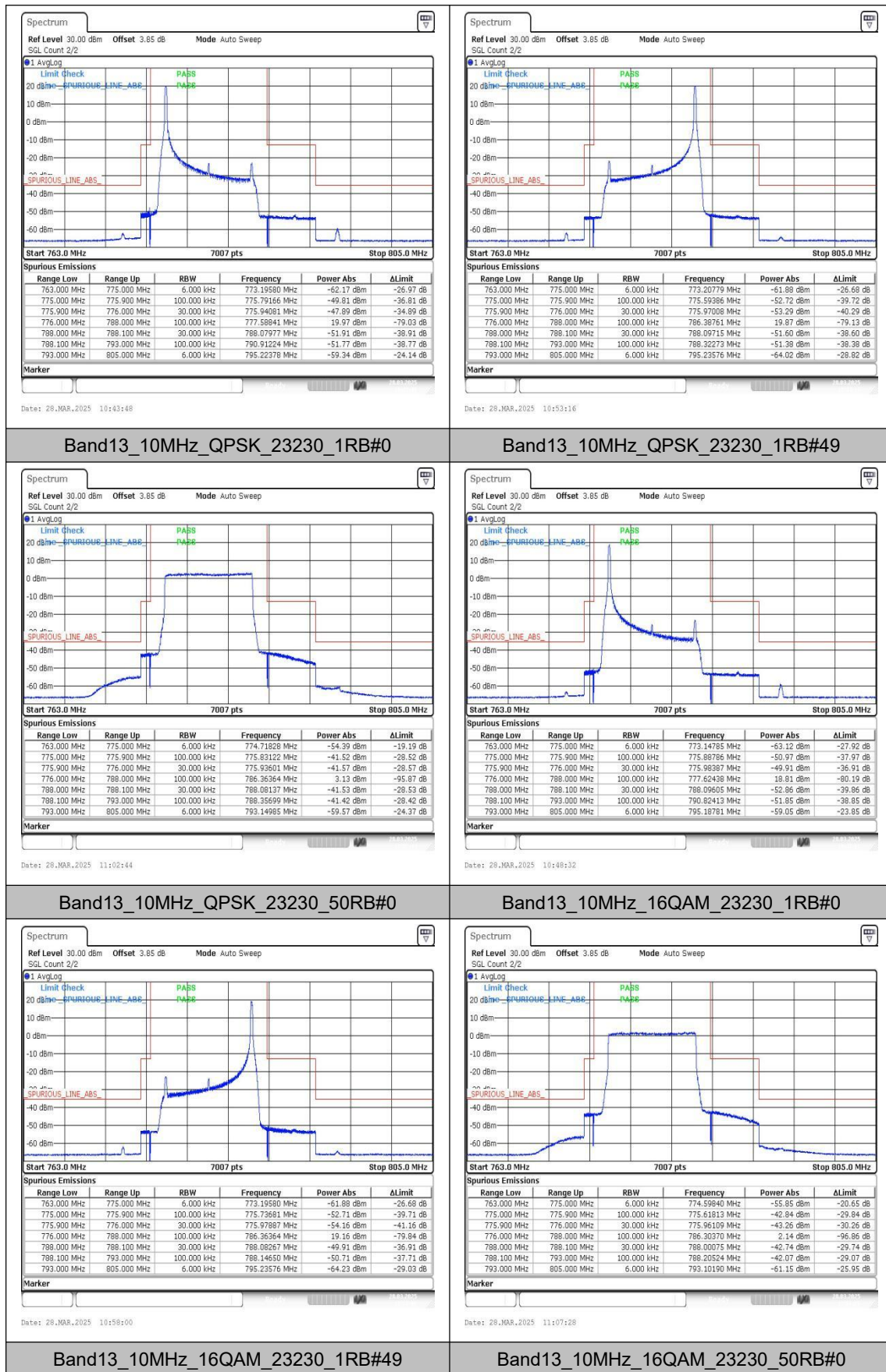
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-63.25	PASS
Band13	5MHz	QPSK	23205	1RB#24	-59.64	PASS
Band13	5MHz	QPSK	23205	25RB#0	-53.73	PASS
Band13	5MHz	16QAM	23205	1RB#0	-64.57	PASS
Band13	5MHz	16QAM	23205	1RB#24	-62.03	PASS
Band13	5MHz	16QAM	23205	25RB#0	-54.37	PASS
Band13	5MHz	QPSK	23255	1RB#0	-64.71	PASS
Band13	5MHz	QPSK	23255	1RB#24	-65.69	PASS
Band13	5MHz	QPSK	23255	25RB#0	-60.41	PASS
Band13	5MHz	16QAM	23255	1RB#0	-65.30	PASS
Band13	5MHz	16QAM	23255	1RB#24	-65.65	PASS
Band13	5MHz	16QAM	23255	25RB#0	-61.76	PASS
Band13	10MHz	QPSK	23230	1RB#0	-59.34	PASS
Band13	10MHz	QPSK	23230	1RB#49	-61.88	PASS
Band13	10MHz	QPSK	23230	50RB#0	-54.39	PASS
Band13	10MHz	16QAM	23230	1RB#0	-59.05	PASS
Band13	10MHz	16QAM	23230	1RB#49	-61.88	PASS
Band13	10MHz	16QAM	23230	50RB#0	-55.85	PASS

Test Graphs







Appendix E: Conducted Spurious Emission

Test Result

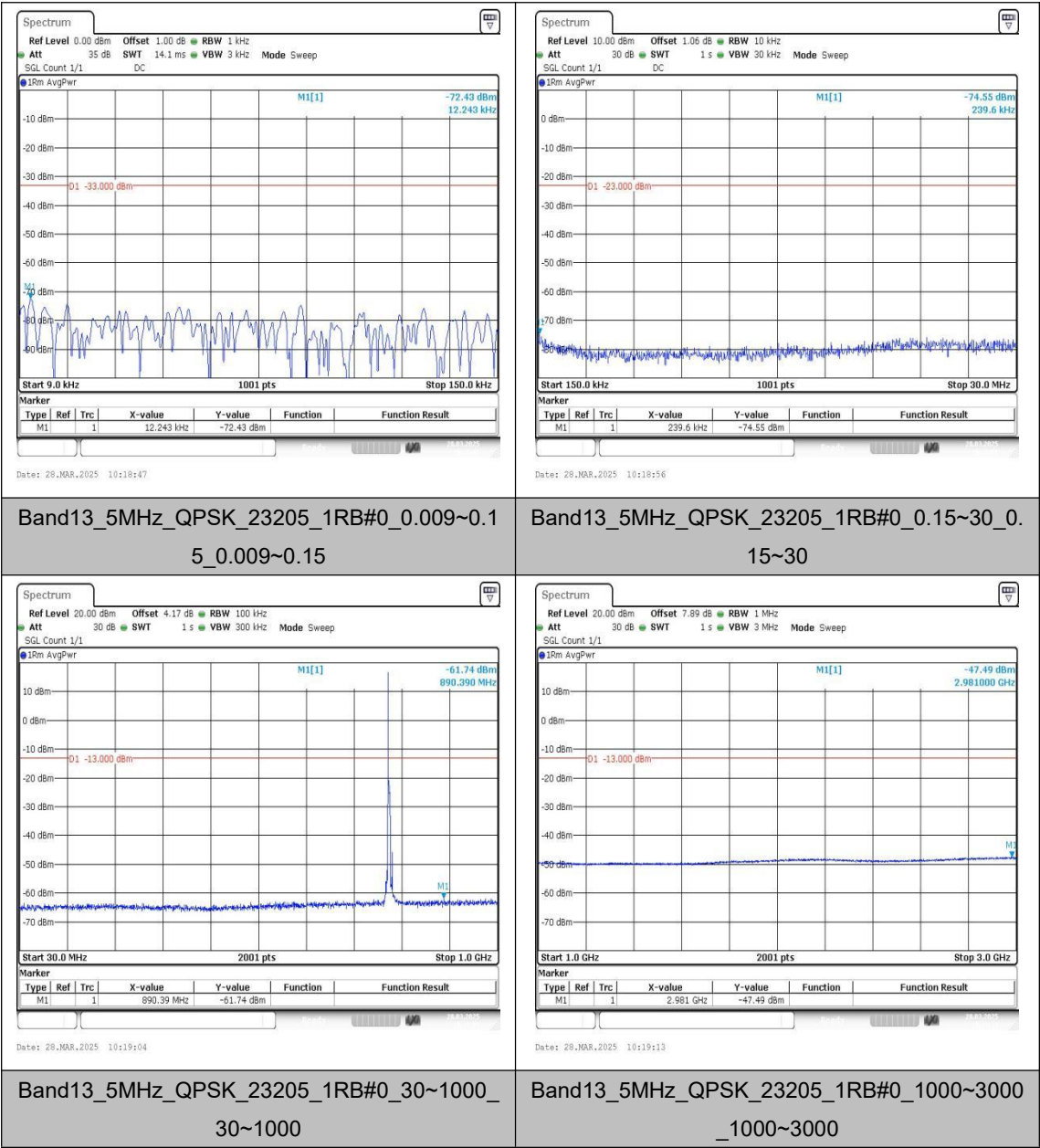
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	0.009~0.15	-72.43	PASS
Band13	5MHz	QPSK	23205	1RB#0	0.15~30	-74.55	PASS
Band13	5MHz	QPSK	23205	1RB#0	30~1000	-61.74	PASS
Band13	5MHz	QPSK	23205	1RB#0	1000~3000	-47.49	PASS
Band13	5MHz	QPSK	23205	1RB#0	3000~10000	-36.33	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.009~0.15	-71.95	PASS
Band13	5MHz	16QAM	23205	1RB#0	0.15~30	-74.48	PASS
Band13	5MHz	16QAM	23205	1RB#0	30~1000	-62.23	PASS
Band13	5MHz	16QAM	23205	1RB#0	1000~3000	-47.48	PASS
Band13	5MHz	16QAM	23205	1RB#0	3000~10000	-36.55	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.009~0.15	-70.44	PASS
Band13	5MHz	QPSK	23230	1RB#0	0.15~30	-75.34	PASS
Band13	5MHz	QPSK	23230	1RB#0	30~1000	-61.57	PASS
Band13	5MHz	QPSK	23230	1RB#0	1000~3000	-47.50	PASS
Band13	5MHz	QPSK	23230	1RB#0	3000~10000	-36.47	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.009~0.15	-72.90	PASS
Band13	5MHz	16QAM	23230	1RB#0	0.15~30	-74.66	PASS
Band13	5MHz	16QAM	23230	1RB#0	30~1000	-62.01	PASS
Band13	5MHz	16QAM	23230	1RB#0	1000~3000	-47.41	PASS
Band13	5MHz	16QAM	23230	1RB#0	3000~10000	-36.54	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.009~0.15	-71.52	PASS
Band13	5MHz	QPSK	23255	1RB#0	0.15~30	-75.25	PASS
Band13	5MHz	QPSK	23255	1RB#0	30~1000	-60.85	PASS
Band13	5MHz	QPSK	23255	1RB#0	1000~3000	-47.33	PASS
Band13	5MHz	QPSK	23255	1RB#0	3000~10000	-36.46	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.009~0.15	-72.81	PASS
Band13	5MHz	16QAM	23255	1RB#0	0.15~30	-75.42	PASS
Band13	5MHz	16QAM	23255	1RB#0	30~1000	-61.74	PASS
Band13	5MHz	16QAM	23255	1RB#0	1000~3000	-47.46	PASS
Band13	5MHz	16QAM	23255	1RB#0	3000~10000	-36.56	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.009~0.15	-70.87	PASS
Band13	10MHz	QPSK	23230	1RB#0	0.15~30	-75.49	PASS
Band13	10MHz	QPSK	23230	1RB#0	30~1000	-62.13	PASS
Band13	10MHz	QPSK	23230	1RB#0	1000~3000	-47.55	PASS
Band13	10MHz	QPSK	23230	1RB#0	3000~10000	-36.52	PASS
Band13	10MHz	16QAM	23230	1RB#0	0.009~0.15	-69.25	PASS

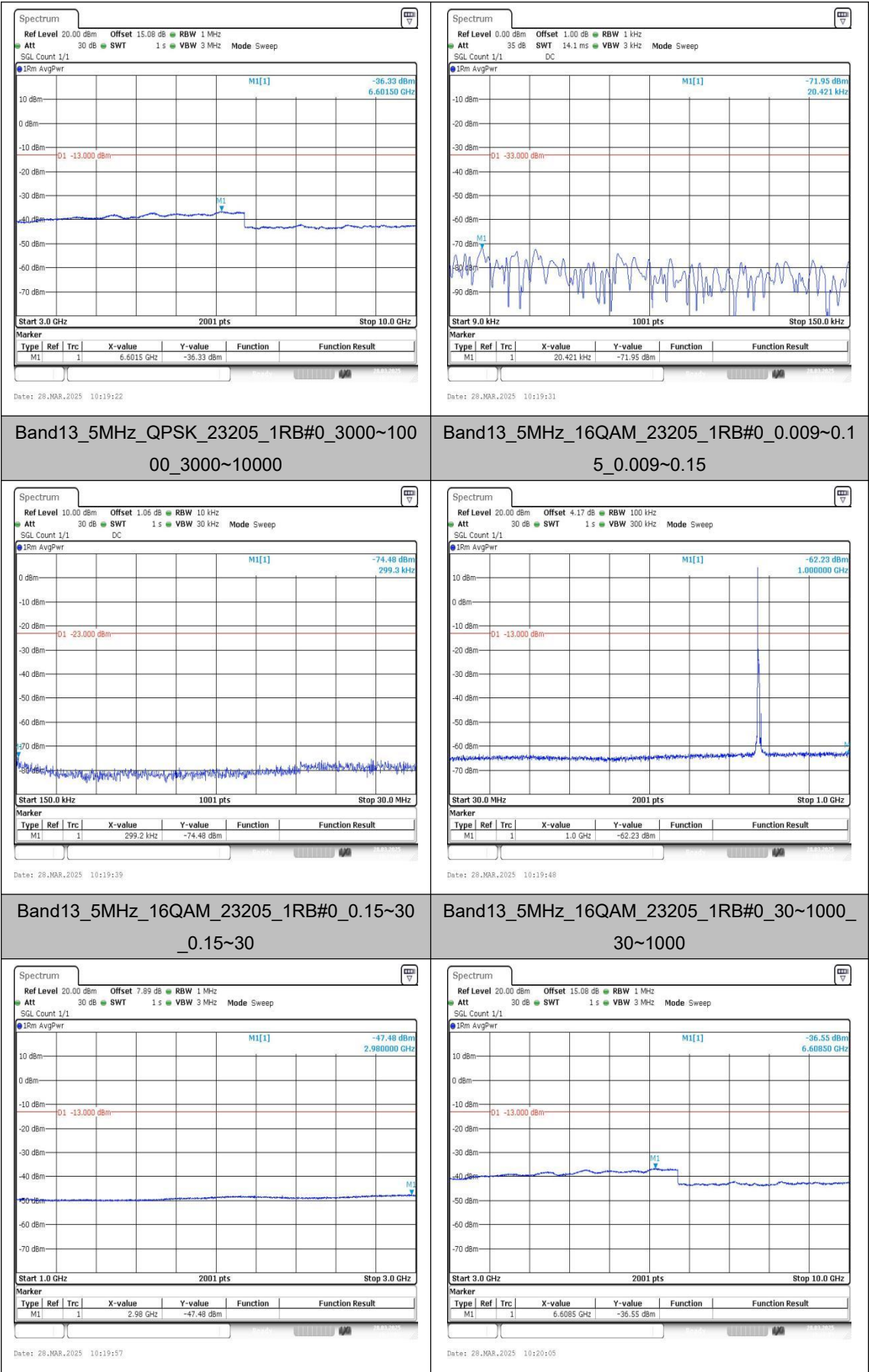
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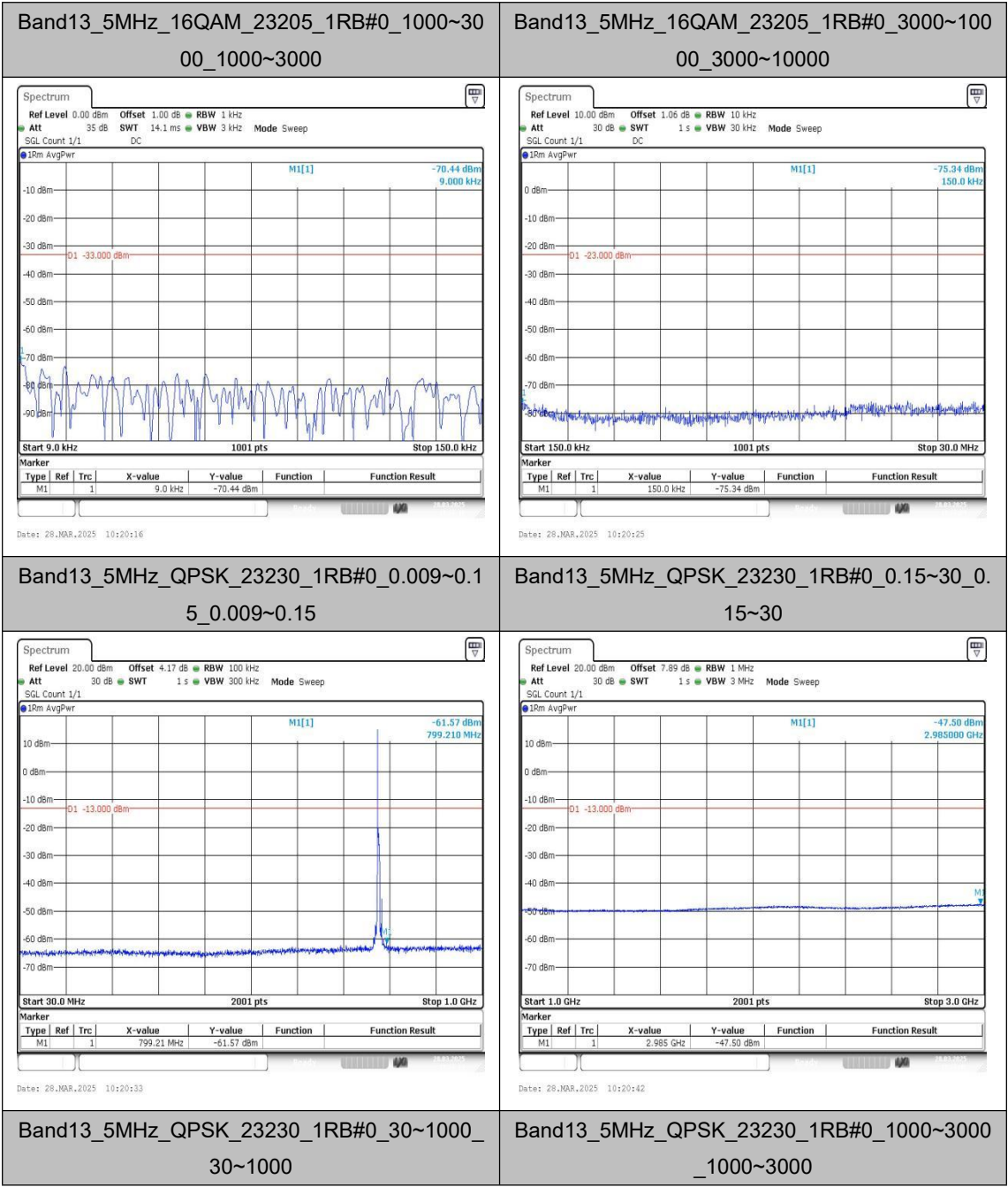
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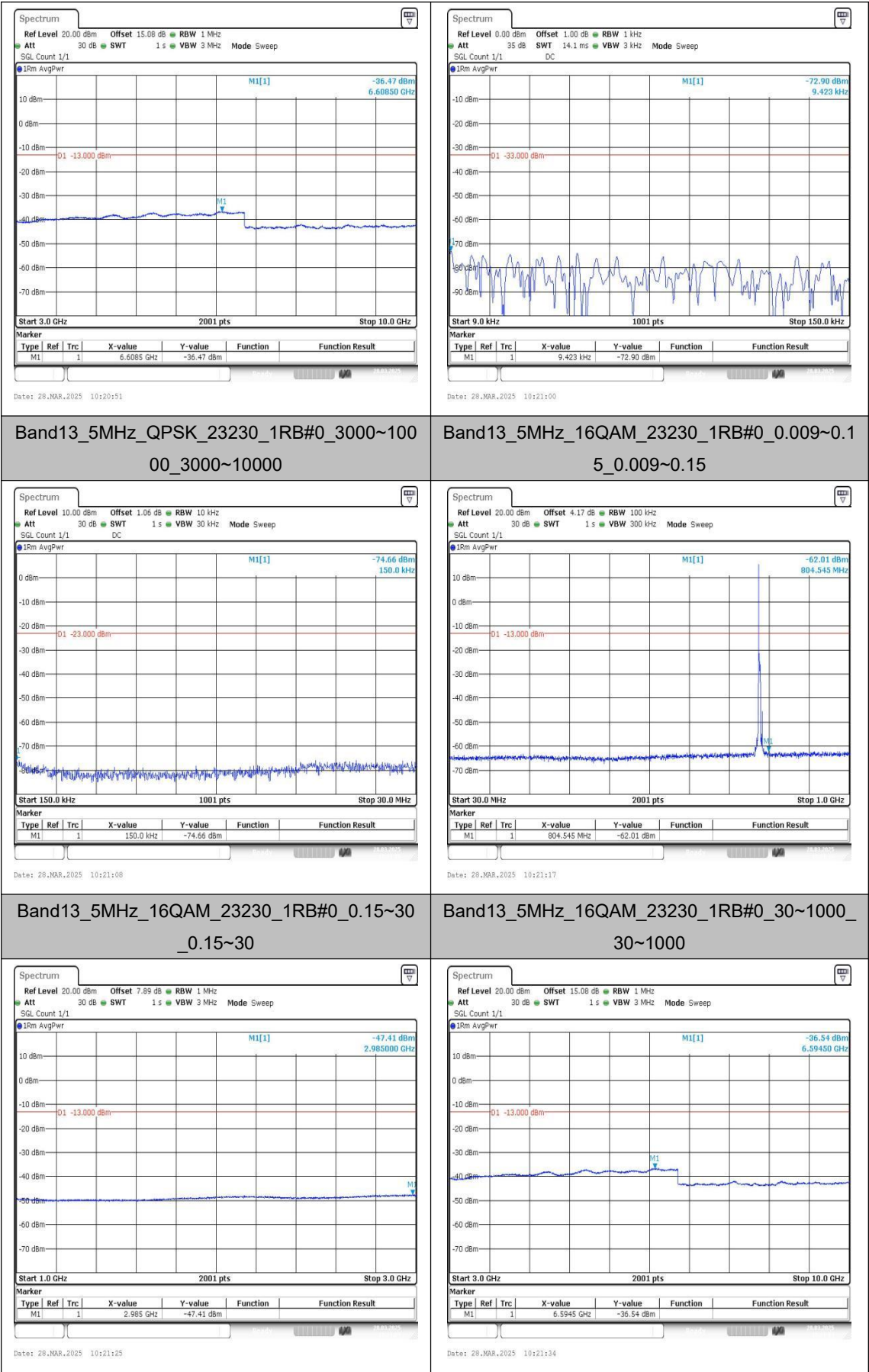
Band13	10MHz	16QAM	23230	1RB#0	0.15~30	-74.53	PASS
Band13	10MHz	16QAM	23230	1RB#0	30~1000	-62.08	PASS
Band13	10MHz	16QAM	23230	1RB#0	1000~3000	-47.52	PASS
Band13	10MHz	16QAM	23230	1RB#0	3000~10000	-36.56	PASS

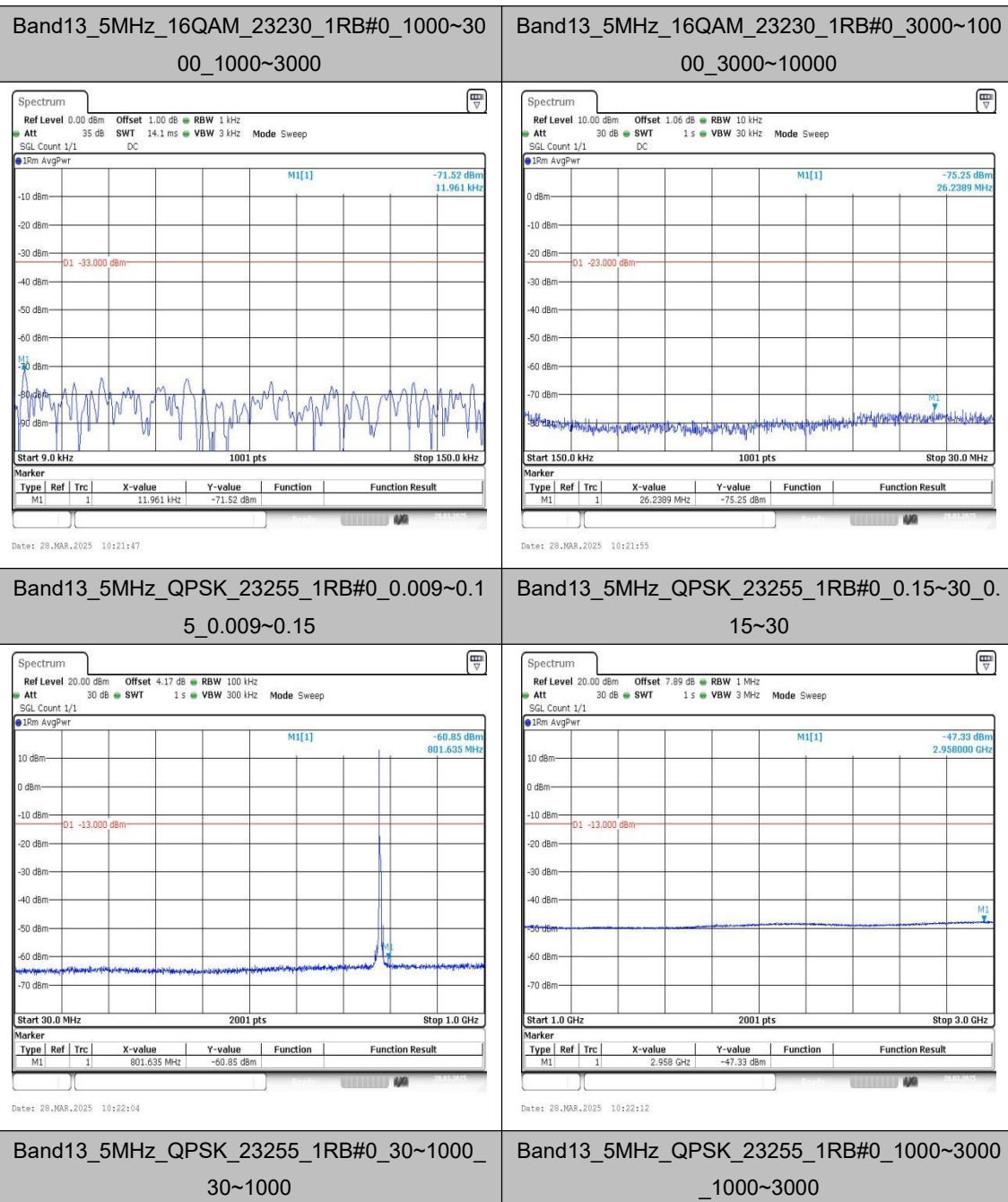
Test Graphs

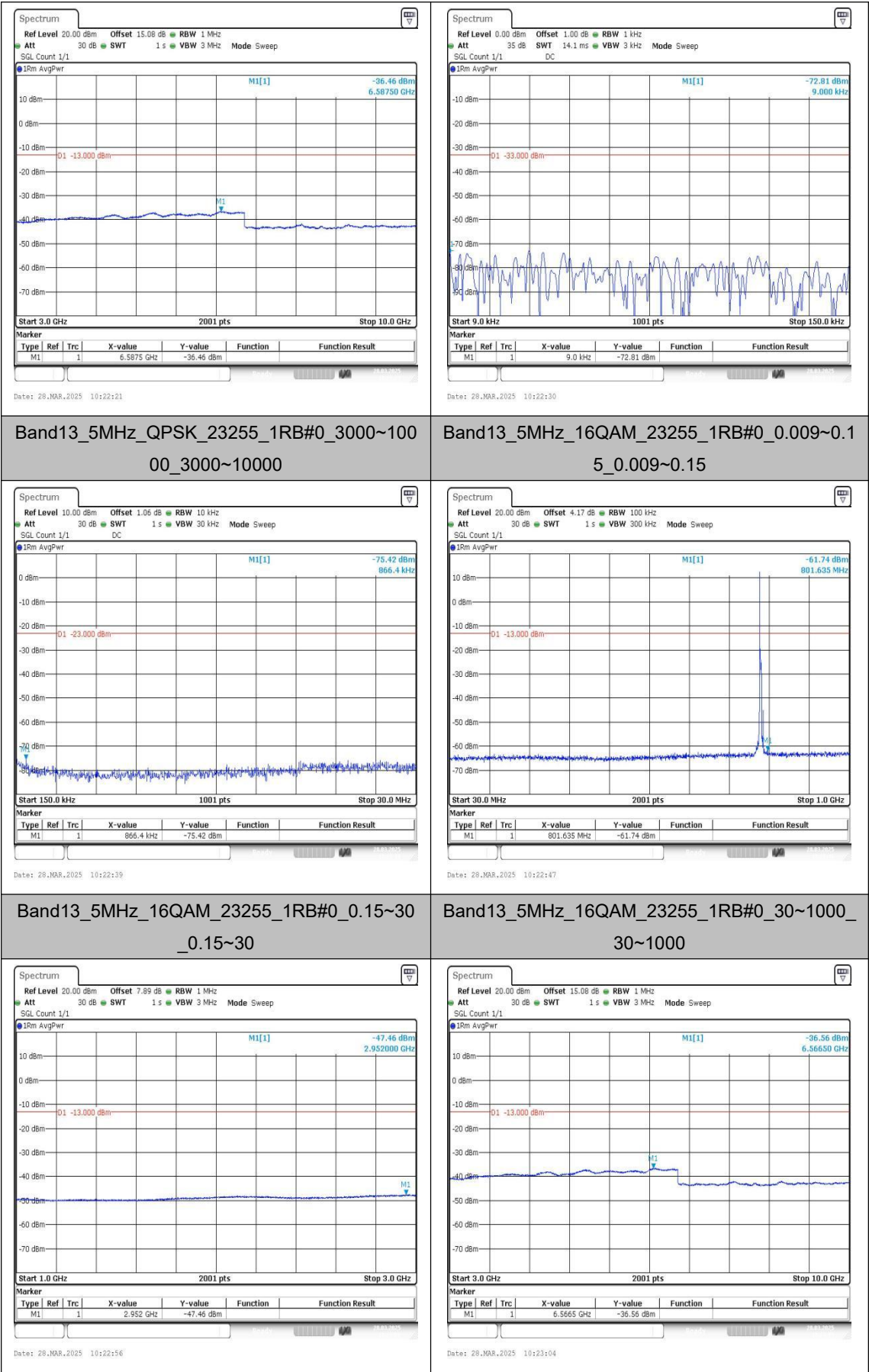


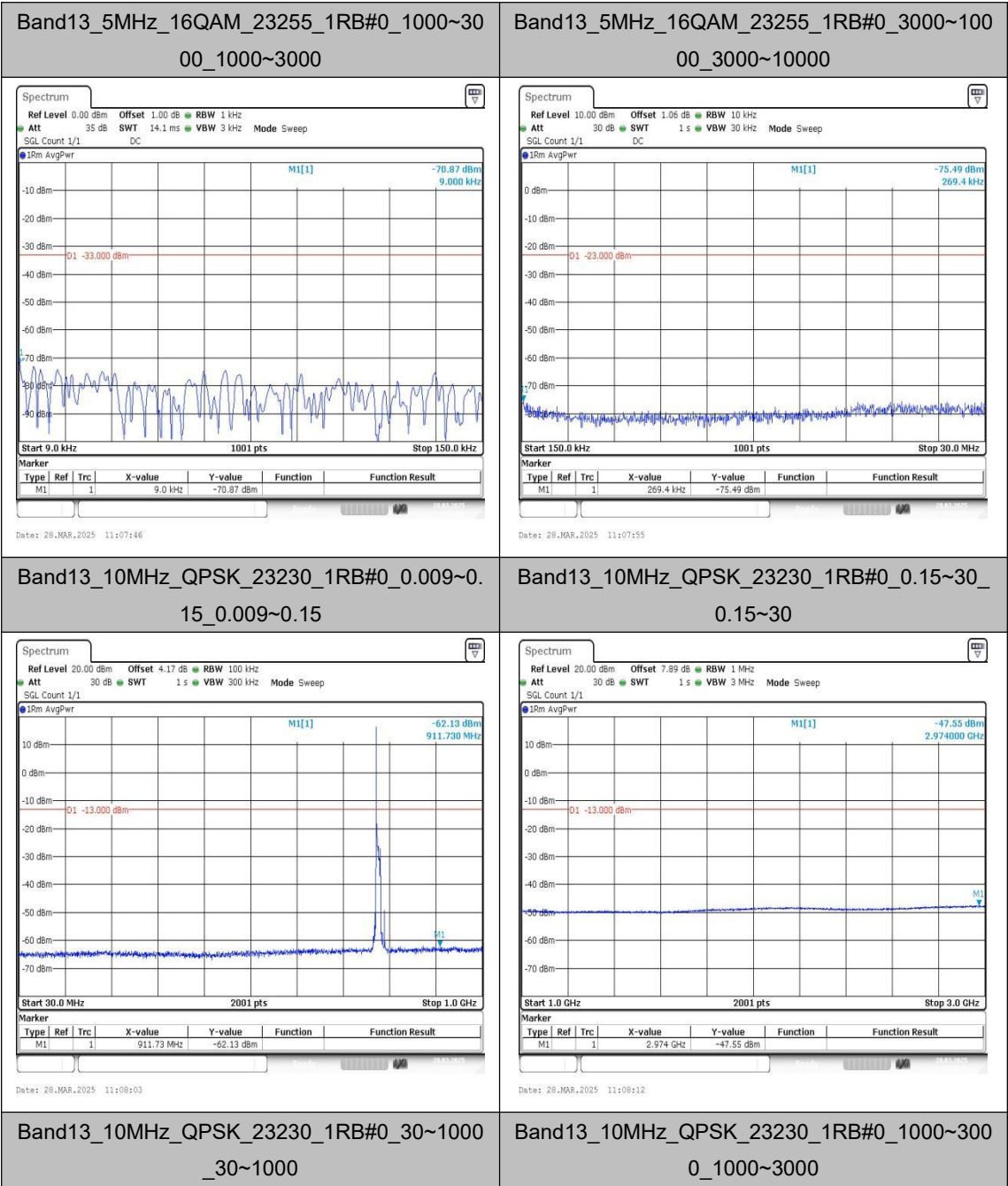


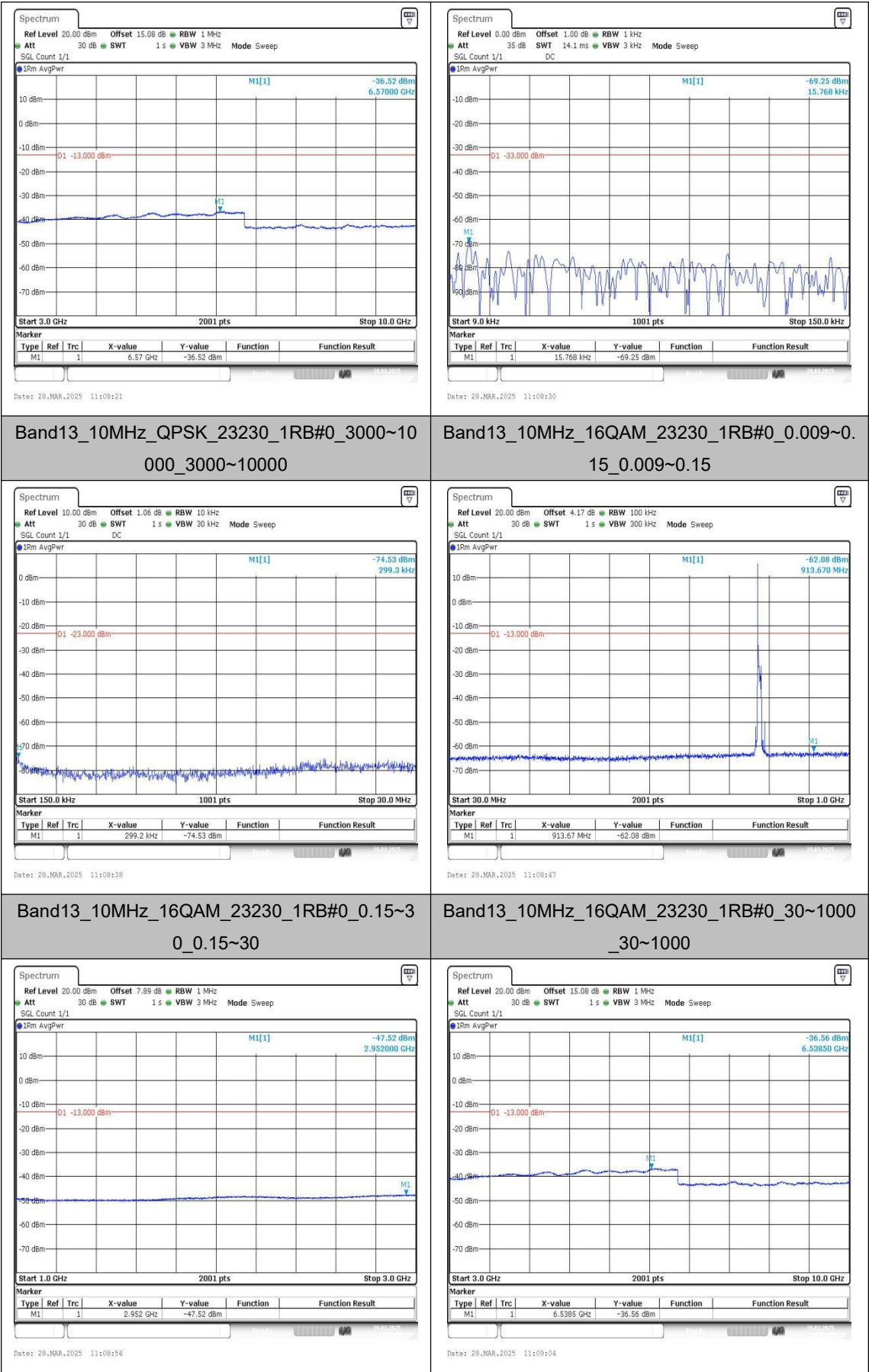












Band13_10MHz_16QAM_23230_1RB#0_1000~3000_1000~3000	Band13_10MHz_16QAM_23230_1RB#0_3000~10000_3000~10000
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Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	VN	NT	25.61	0.032854	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VL	NT	29.13	0.037370	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	VH	NT	31.57	0.040500	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VN	NT	-12.80	-0.016421	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VL	NT	25.89	0.033214	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	VH	NT	29.45	0.037781	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VN	NT	-6.65	-0.008504	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VL	NT	-30.36	-0.038824	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	VH	NT	-49.00	-0.062660	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VN	NT	-39.58	-0.050614	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VL	NT	-42.40	-0.054220	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	VH	NT	23.16	0.029616	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VN	NT	-5.42	-0.006909	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VL	NT	-7.93	-0.010108	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	VH	NT	-15.31	-0.019516	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VN	NT	29.23	0.037259	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VL	NT	35.48	0.045226	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	VH	NT	40.48	0.051600	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-29.35	-0.037532	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-10.69	-0.013670	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-9.50	-0.012148	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-14.92	-0.019079	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-31.46	-0.040230	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-43.57	-0.055716	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	NV	-30	32.23	0.041347	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	-14.75	-0.018922	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-10	-10.47	-0.013432	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	-47.46	-0.060885	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-40.15	-0.051507	±2.5	PASS

Band13	5MHz	QPSK	23205	25RB#0	NV	20	-28.07	-0.036010	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	30	-27.47	-0.035241	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	40	-27.74	-0.035587	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	50	-23.92	-0.030686	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	52.93	0.067903	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-20	11.64	0.014933	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-10	14.20	0.018217	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	25.46	0.032662	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	36.82	0.047235	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	43.32	0.055574	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	30	28.81	0.036960	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	40	25.68	0.032944	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	50	35.58	0.045645	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	10.57	0.013517	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	-5.56	-0.007110	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-10	-11.52	-0.014731	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	8.10	0.010358	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-10.24	-0.013095	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	-11.69	-0.014949	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	30	-35.48	-0.045371	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	40	-36.64	-0.046854	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	50	-38.41	-0.049118	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	44.16	0.056471	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	57.66	0.073734	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-10	22.00	0.028133	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	26.44	0.033811	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	19.13	0.024463	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	25.68	0.032839	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	30	33.43	0.042749	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	40	38.05	0.048657	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	50	27.92	0.035703	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	-24.82	-0.031638	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	14.15	0.018037	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-10	26.89	0.034277	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	33.53	0.042741	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	32.80	0.041810	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	32.42	0.041326	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	30	34.75	0.044296	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	40	26.75	0.034098	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	50	30.63	0.039044	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	48.08	0.061287	±2.5	PASS

Band13	5MHz	16QAM	23255	25RB#0	NV	-20	50.57	0.064461	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-10	-9.60	-0.012237	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	-19.60	-0.024984	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	-35.25	-0.044933	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	-39.05	-0.049777	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	30	-26.89	-0.034277	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	40	-23.12	-0.029471	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	50	-26.56	-0.033856	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-14.85	-0.018990	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-36.16	-0.046240	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-29.75	-0.038043	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-10.71	-0.013696	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-46.32	-0.059233	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-32.24	-0.041228	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-18.07	-0.023107	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-47.45	-0.060678	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-21.76	-0.027826	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	5.49	0.007020	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-24.63	-0.031496	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	-15.36	-0.019642	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-24.32	-0.031100	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-36.45	-0.046611	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-52.79	-0.067506	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-13.75	-0.017583	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-30.13	-0.038529	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-42.20	-0.053964	±2.5	PASS