

FCC LTE Band Test Data

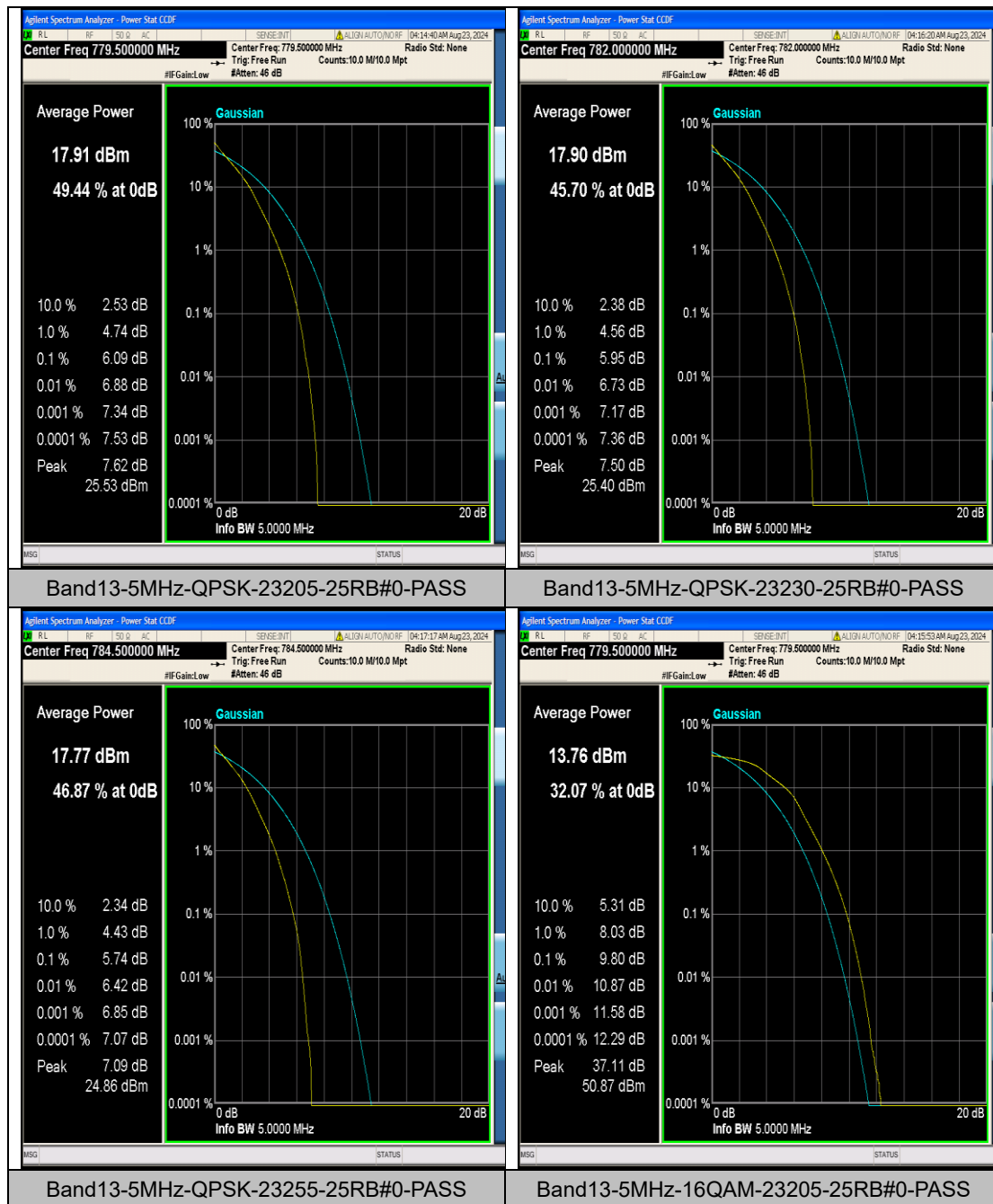
FCC ID : 2BKLE-ARIES
Company: : Versa World Inc.
EUT : POC/IP Two Way Radio
Model Number : G232
Reviewed By : Eric Wang

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

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	6.09	13	PASS
Band13	5MHz	QPSK	23230	25RB#0	5.95	13	PASS
Band13	5MHz	QPSK	23255	25RB#0	5.74	13	PASS
Band13	5MHz	16QAM	23205	25RB#0	9.80	13	PASS
Band13	5MHz	16QAM	23230	25RB#0	6.56	13	PASS
Band13	5MHz	16QAM	23255	25RB#0	6.39	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.80	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.51	13	PASS

Test Graphs



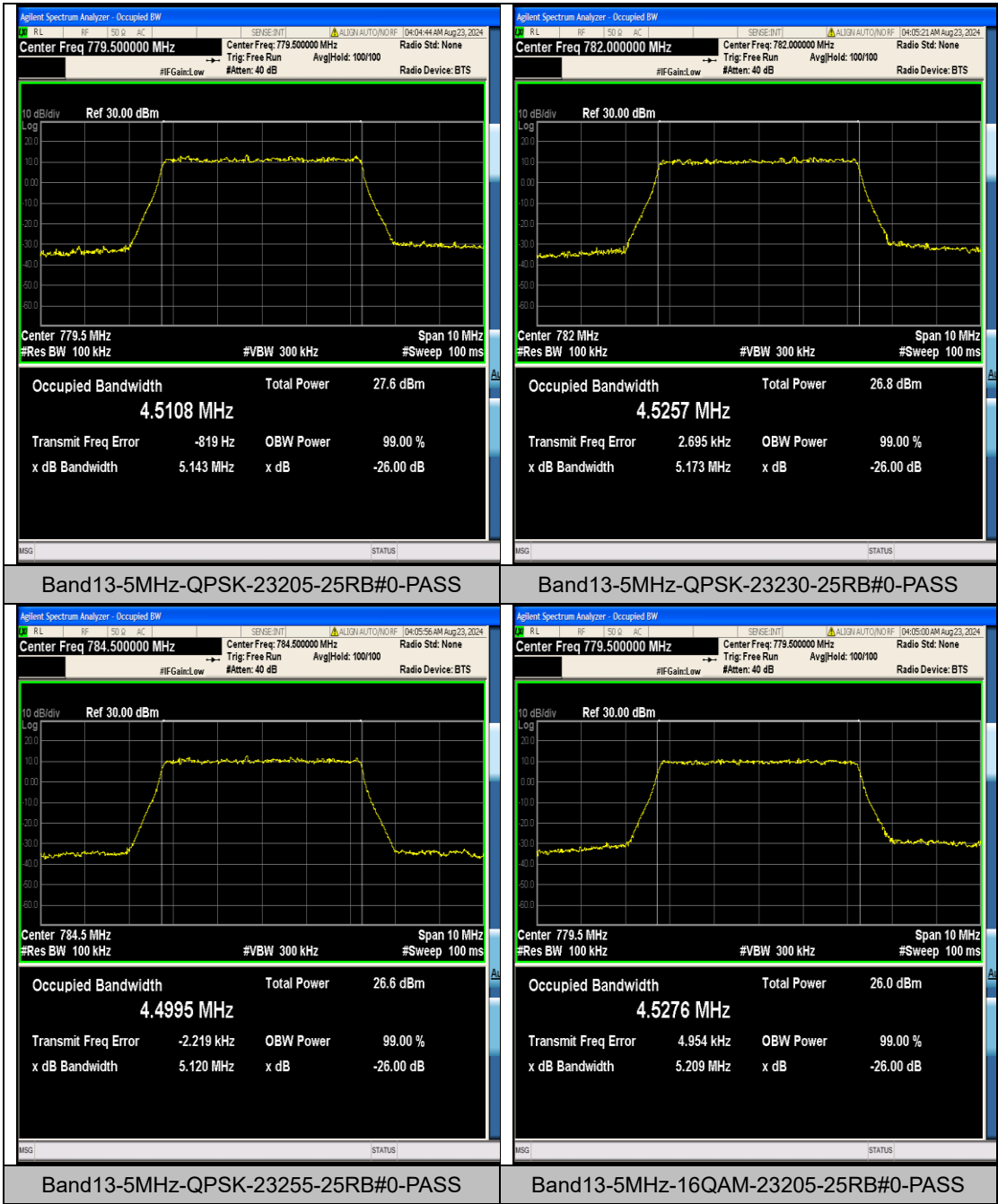


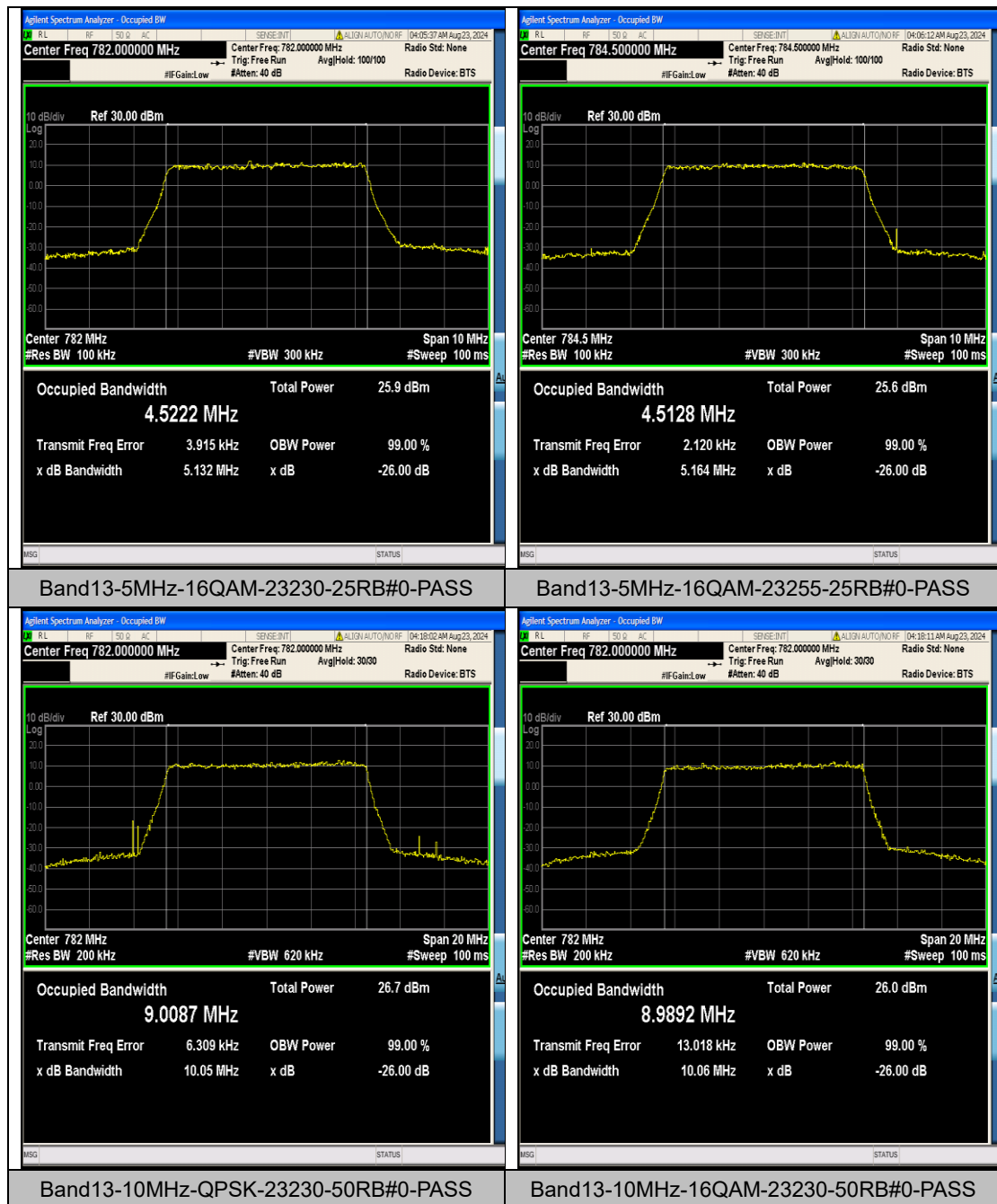
Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.5108	5.143	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5257	5.173	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.4995	5.120	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.5276	5.209	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5222	5.132	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5128	5.164	PASS
Band13	10MHz	QPSK	23230	50RB#0	9.0087	10.05	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9892	10.06	PASS

Test Graphs



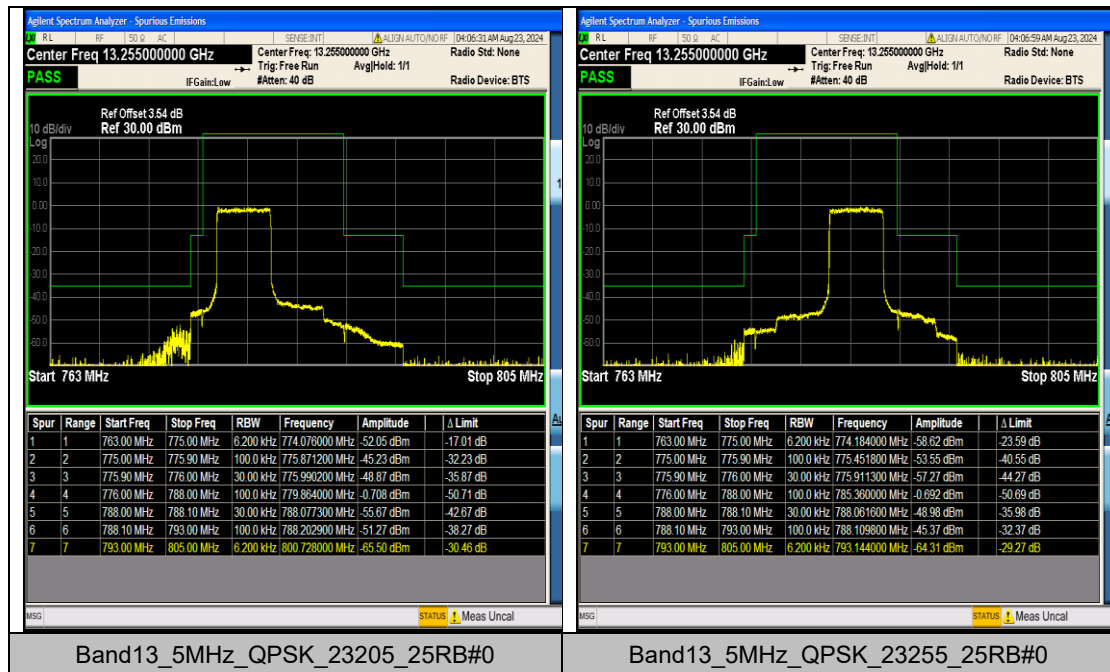


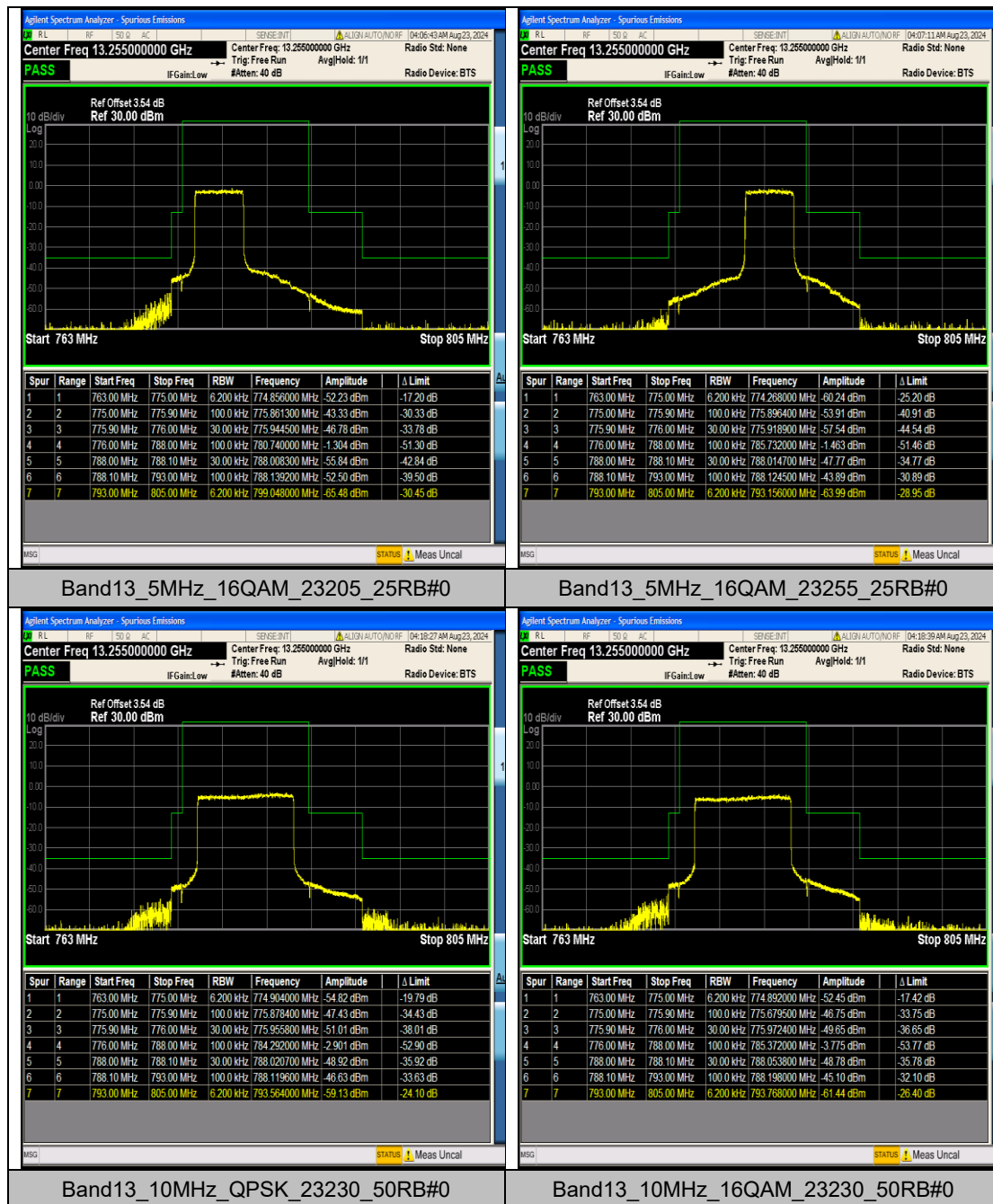
Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	-52.05	PASS
Band13	5MHz	QPSK	23255	25RB#0	-58.62	PASS
Band13	5MHz	16QAM	23205	25RB#0	-52.23	PASS
Band13	5MHz	16QAM	23255	25RB#0	-60.24	PASS
Band13	10MHz	QPSK	23230	50RB#0	-54.82	PASS
Band13	10MHz	16QAM	23230	50RB#0	-52.45	PASS

Test Graphs





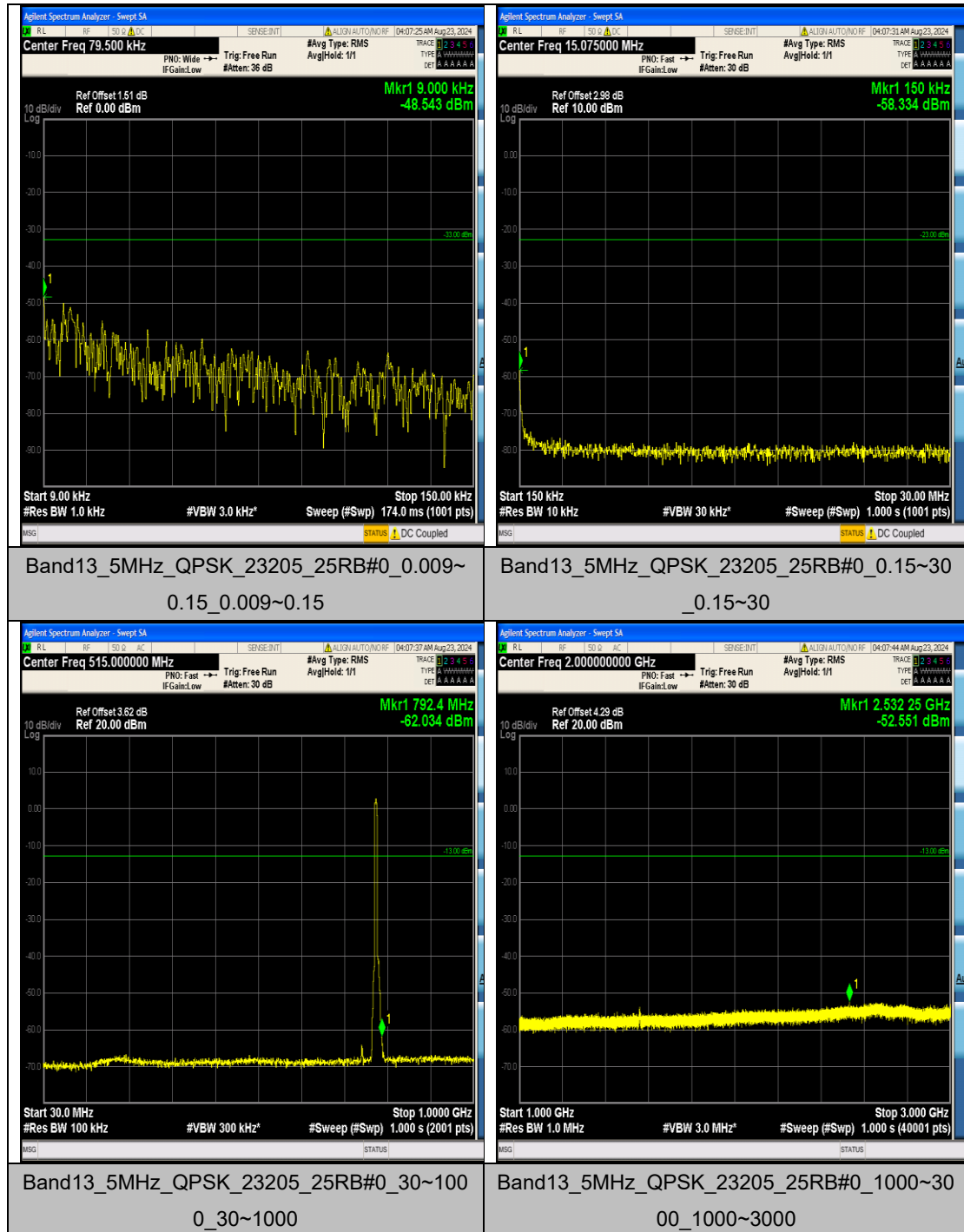
Appendix E: Conducted Spurious Emission

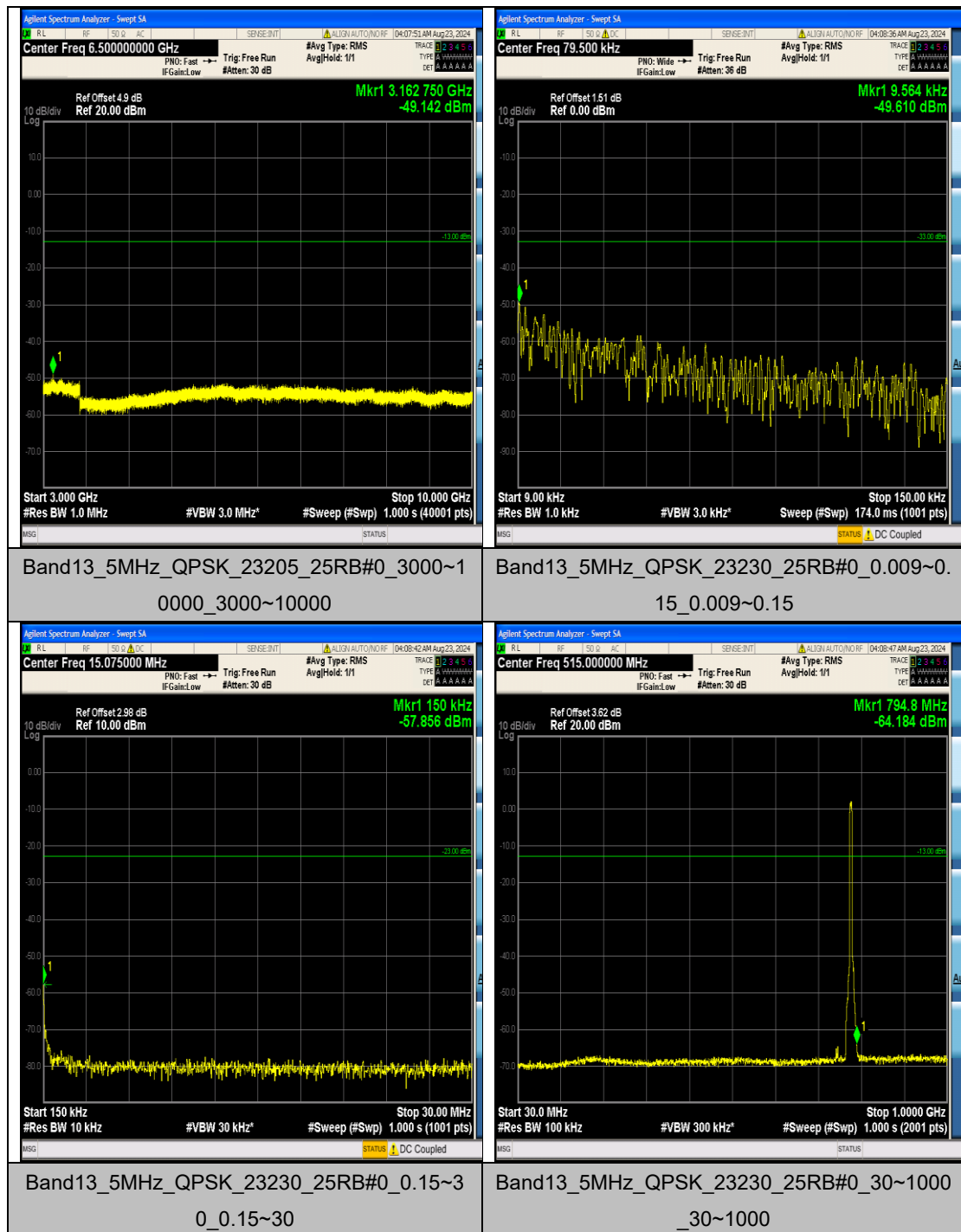
Test Result

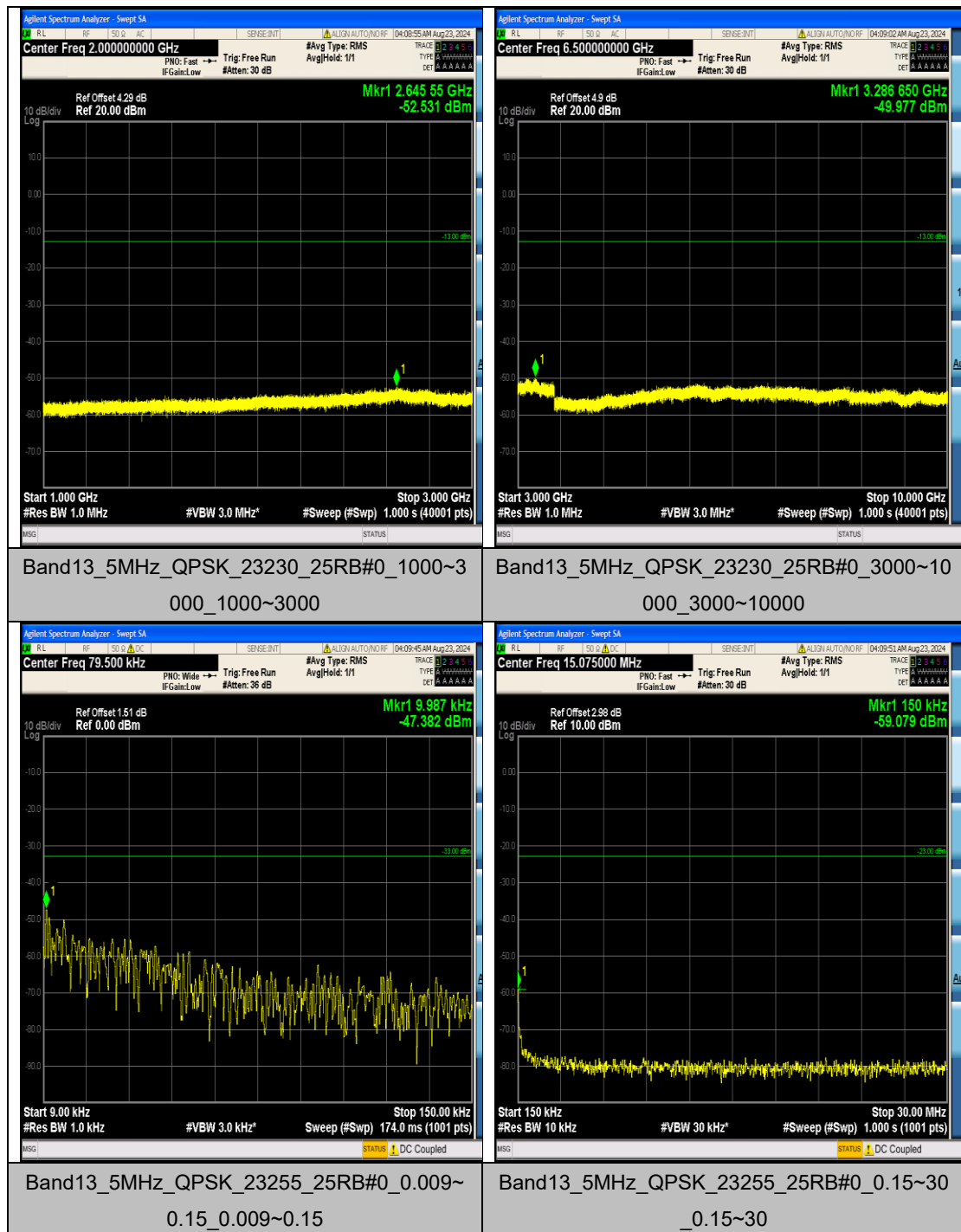
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	0.009~0.15	-48.54	PASS
Band13	5MHz	QPSK	23205	25RB#0	0.15~30	-58.33	PASS
Band13	5MHz	QPSK	23205	25RB#0	30~1000	-62.03	PASS
Band13	5MHz	QPSK	23205	25RB#0	1000~3000	-52.55	PASS
Band13	5MHz	QPSK	23205	25RB#0	3000~10000	-49.14	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.009~0.15	-49.61	PASS
Band13	5MHz	QPSK	23230	25RB#0	0.15~30	-57.86	PASS
Band13	5MHz	QPSK	23230	25RB#0	30~1000	-64.18	PASS
Band13	5MHz	QPSK	23230	25RB#0	1000~3000	-52.53	PASS
Band13	5MHz	QPSK	23230	25RB#0	3000~10000	-49.98	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.009~0.15	-47.38	PASS
Band13	5MHz	QPSK	23255	25RB#0	0.15~30	-59.08	PASS
Band13	5MHz	QPSK	23255	25RB#0	30~1000	-62.98	PASS
Band13	5MHz	QPSK	23255	25RB#0	1000~3000	-52.05	PASS
Band13	5MHz	QPSK	23255	25RB#0	3000~10000	-49.82	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.009~0.15	-48.33	PASS
Band13	5MHz	16QAM	23205	25RB#0	0.15~30	-58.52	PASS
Band13	5MHz	16QAM	23205	25RB#0	30~1000	-64.15	PASS
Band13	5MHz	16QAM	23205	25RB#0	1000~3000	-52.11	PASS
Band13	5MHz	16QAM	23205	25RB#0	3000~10000	-49.84	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.009~0.15	-48.76	PASS
Band13	5MHz	16QAM	23230	25RB#0	0.15~30	-58.57	PASS
Band13	5MHz	16QAM	23230	25RB#0	30~1000	-64.78	PASS
Band13	5MHz	16QAM	23230	25RB#0	1000~3000	-52.51	PASS
Band13	5MHz	16QAM	23230	25RB#0	3000~10000	-49.80	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.009~0.15	-48.09	PASS
Band13	5MHz	16QAM	23255	25RB#0	0.15~30	-60.01	PASS
Band13	5MHz	16QAM	23255	25RB#0	30~1000	-64.04	PASS
Band13	5MHz	16QAM	23255	25RB#0	1000~3000	-52.41	PASS
Band13	5MHz	16QAM	23255	25RB#0	3000~10000	-49.99	PASS
Band13	10MHz	QPSK	23230	50RB#0	0.009~0.15	-45.72	PASS
Band13	10MHz	QPSK	23230	50RB#0	0.15~30	-58.17	PASS
Band13	10MHz	QPSK	23230	50RB#0	30~1000	-66.62	PASS
Band13	10MHz	QPSK	23230	50RB#0	1000~3000	-52.27	PASS
Band13	10MHz	QPSK	23230	50RB#0	3000~10000	-49.49	PASS
Band13	10MHz	16QAM	23230	50RB#0	0.009~0.15	-47.36	PASS

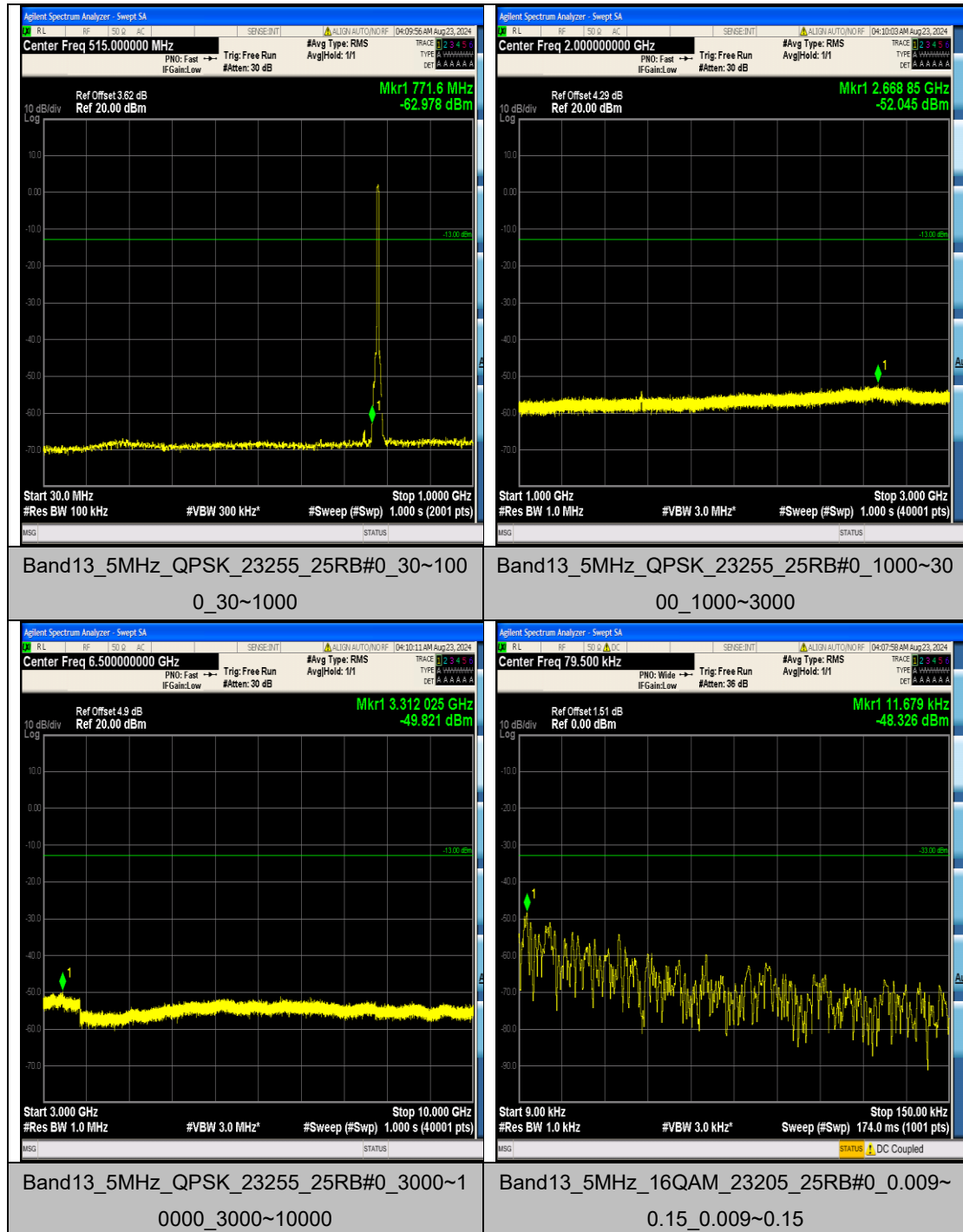
Band13	10MHz	16QAM	23230	50RB#0	0.15~30	-58.23	PASS
Band13	10MHz	16QAM	23230	50RB#0	30~1000	-66.46	PASS
Band13	10MHz	16QAM	23230	50RB#0	1000~3000	-52.29	PASS
Band13	10MHz	16QAM	23230	50RB#0	3000~10000	-50.00	PASS

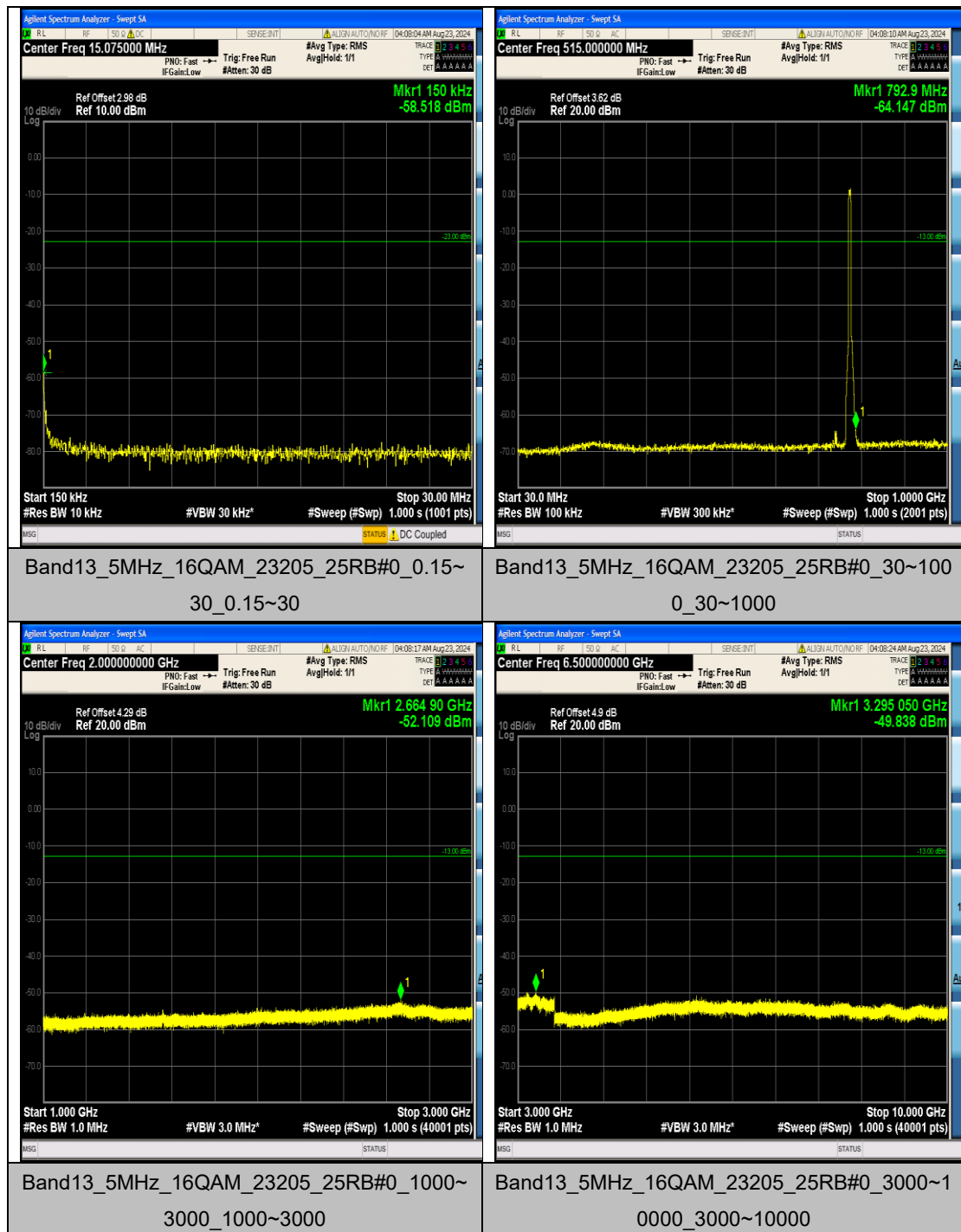
Test Graphs

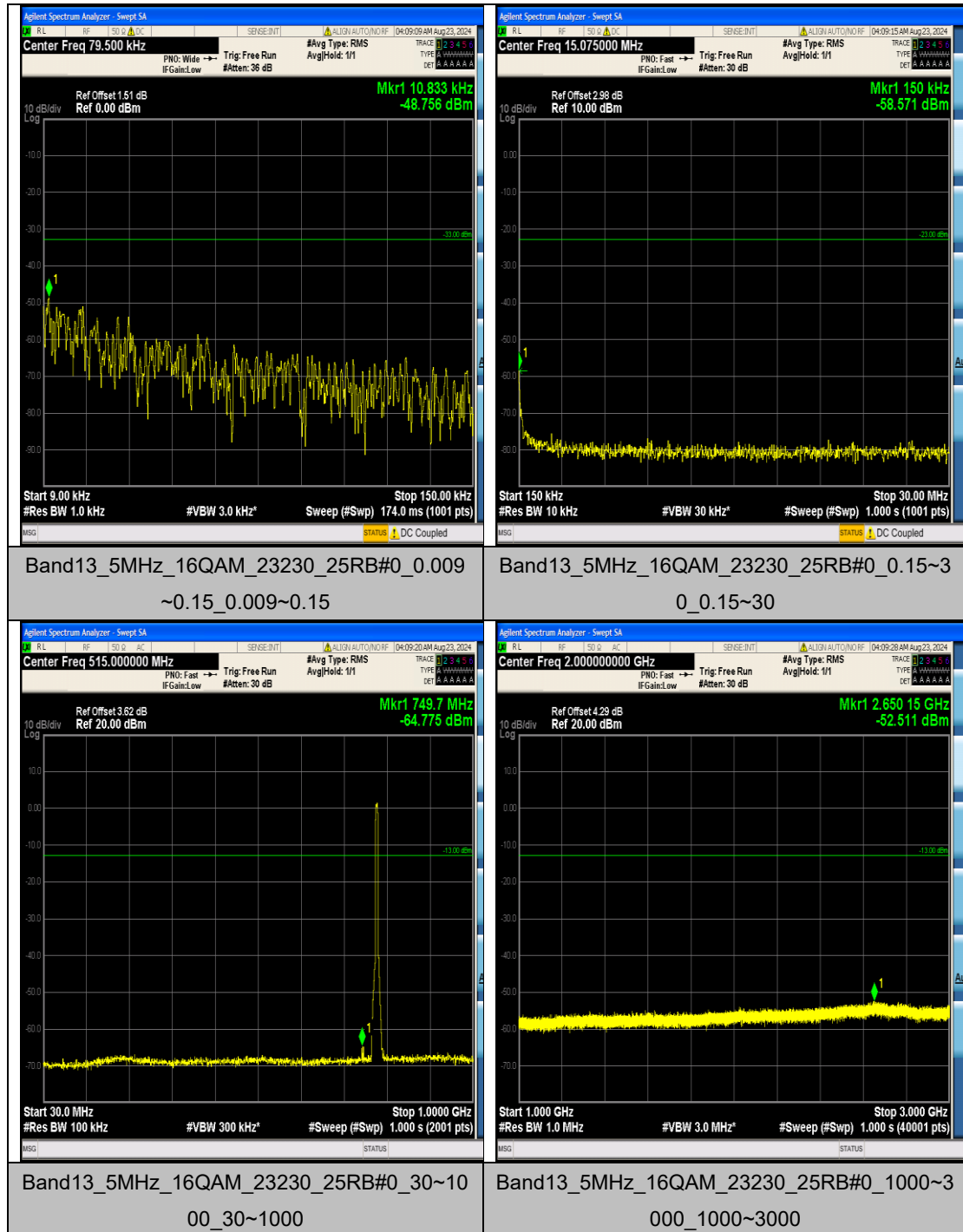


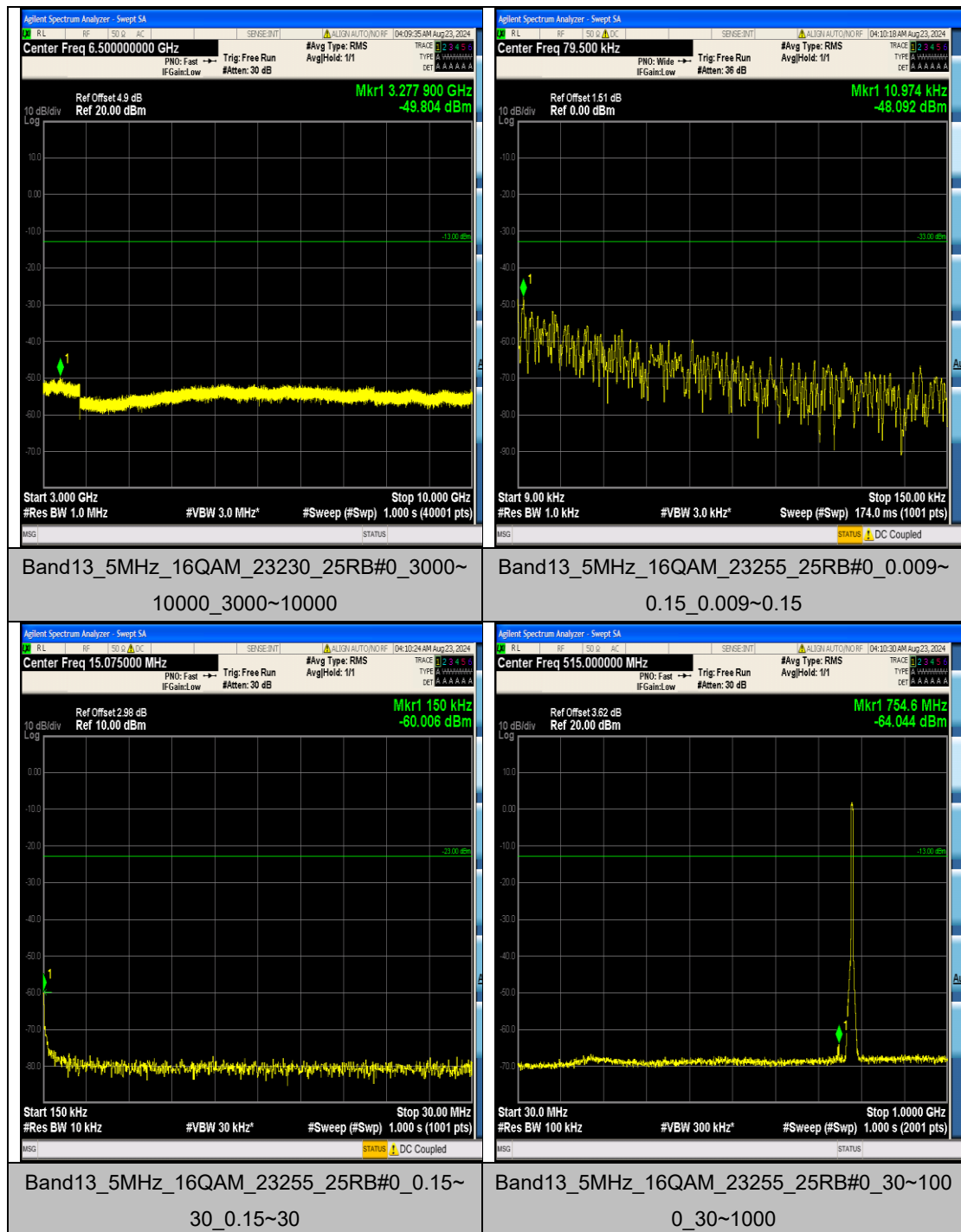


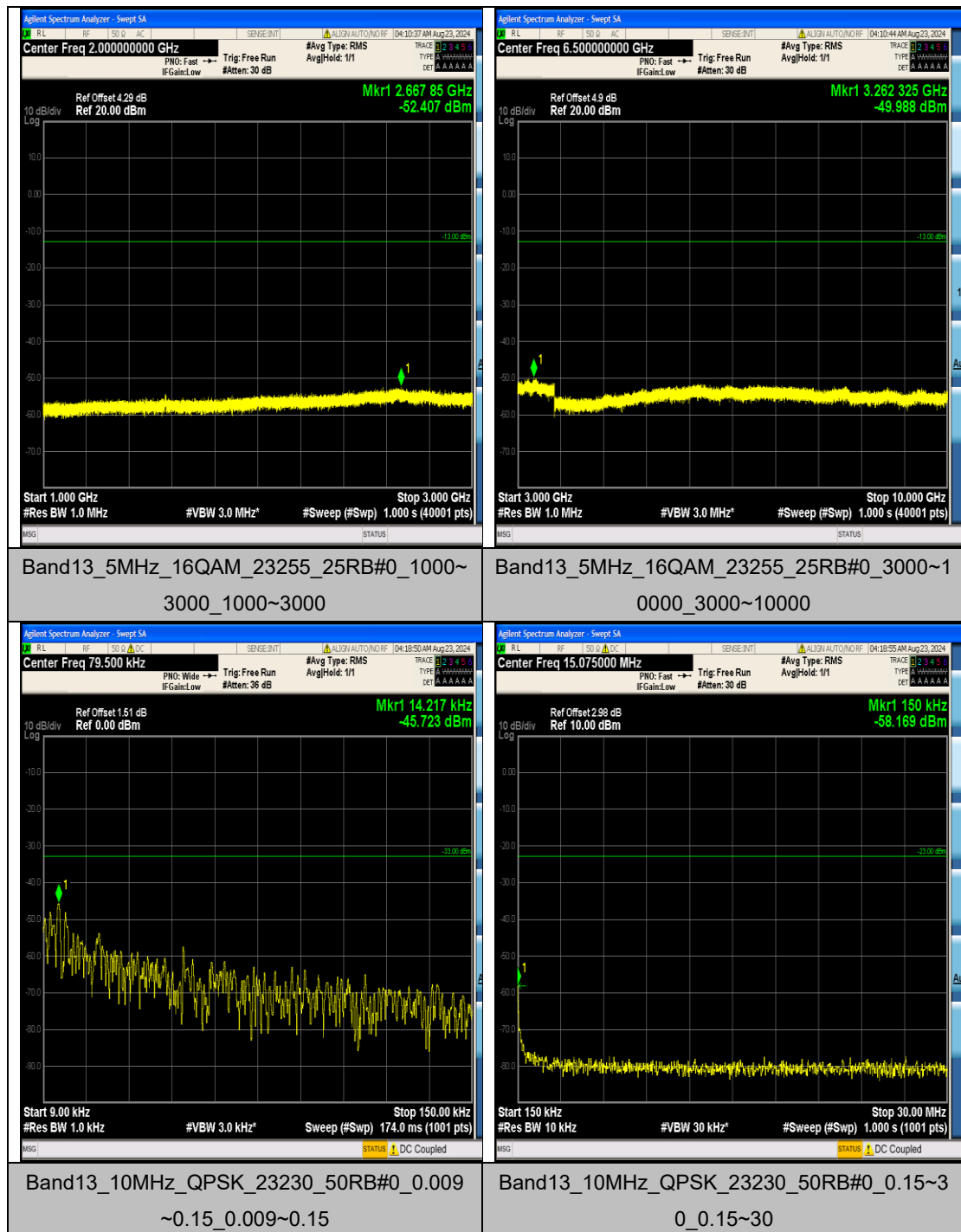


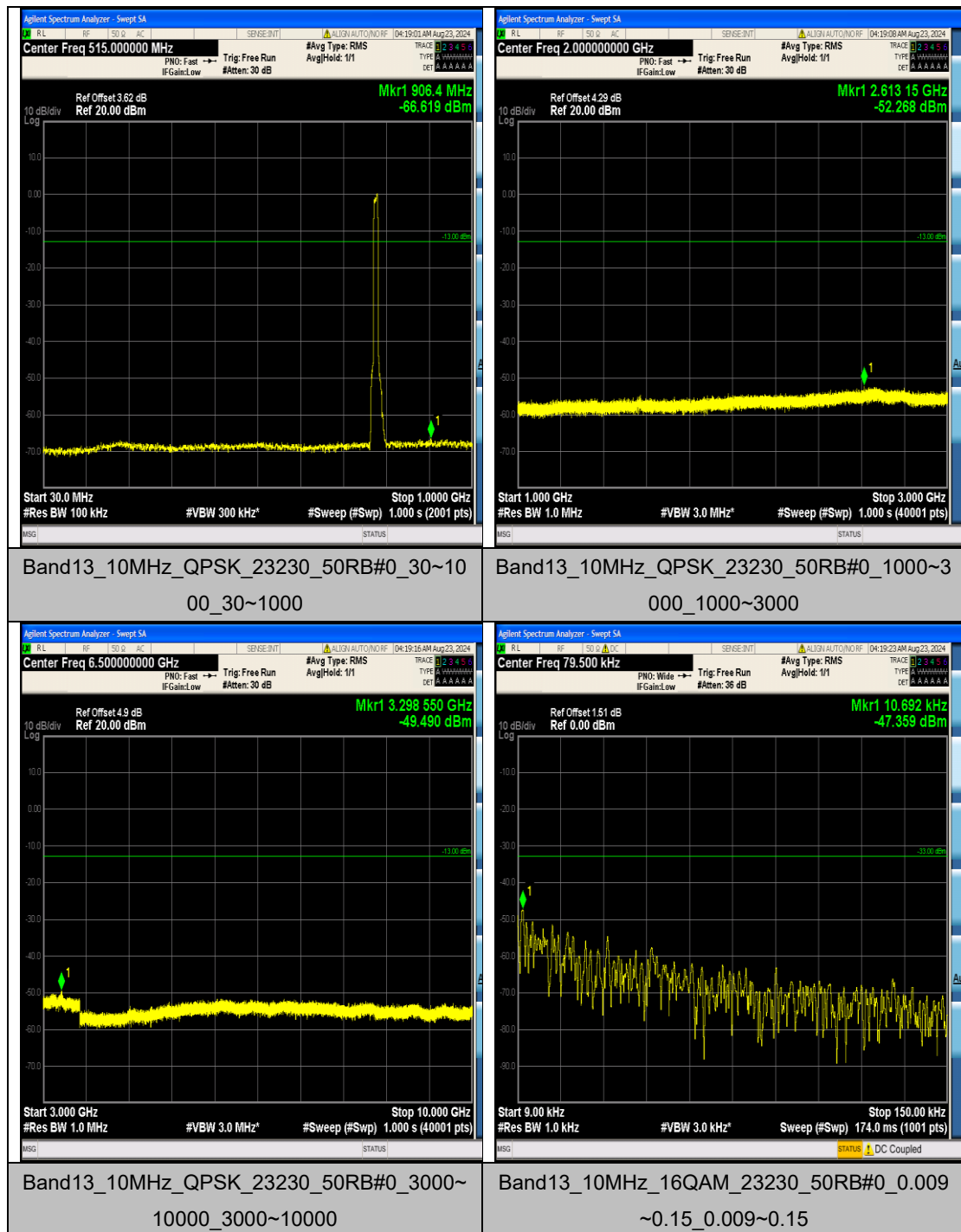


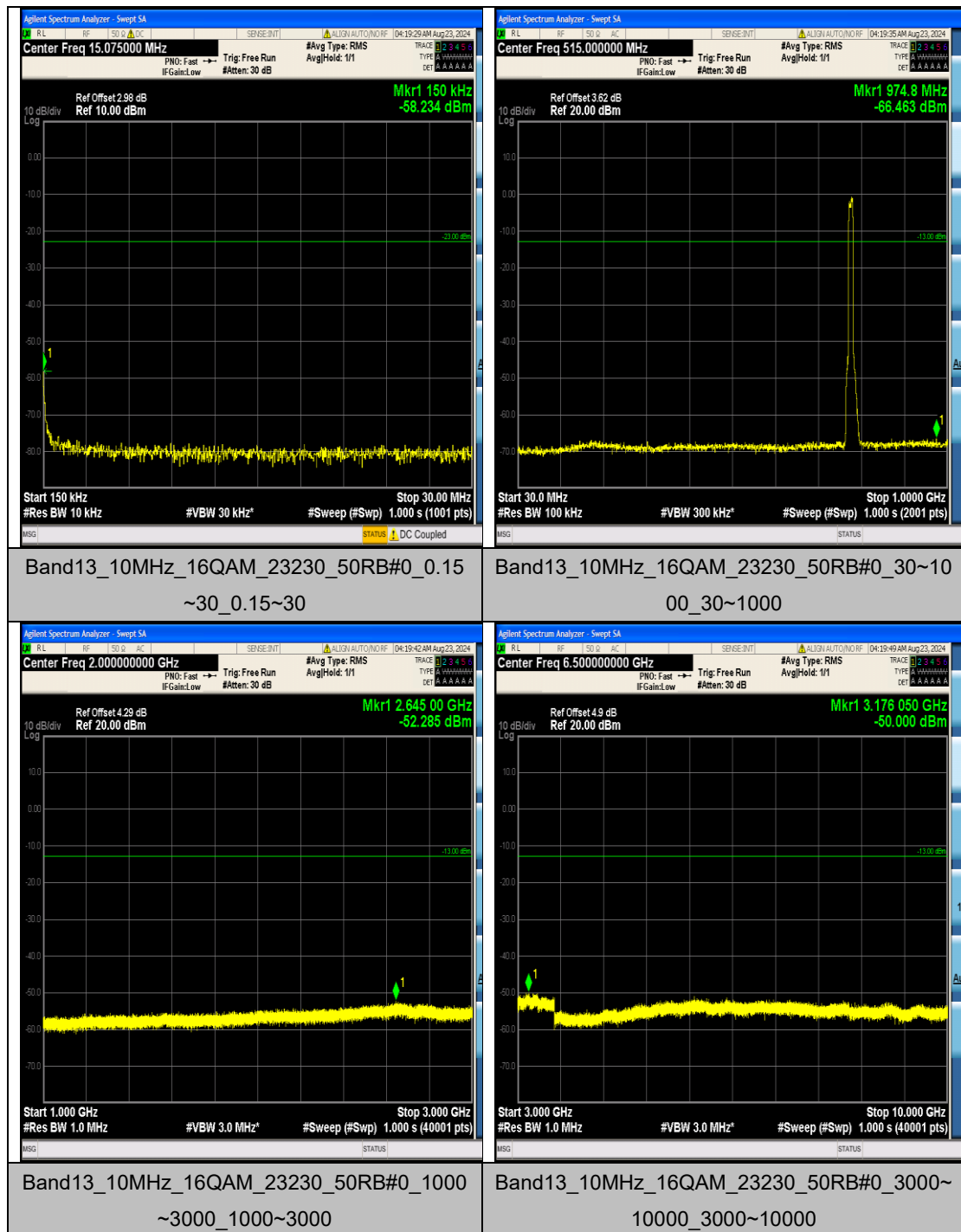












Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandName	Bandwidth	Modulation	Channel	RBcfg	VolValue	TempValue	ValueHz	ValuePpm	Limit	Verdict

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	-11.59	-0.014869	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-20	-10.69	-0.013714	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	-10	-14.29	-0.018332	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	0	-8.81	-0.011302	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	10	-10.44	-0.013393	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	20	-13.59	-0.017434	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	30	5.12	0.006568	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	40	-13.46	-0.017267	±2.5	PASS
Band13	5MHz	QPSK	23205	25RB#0	NV	50	-11.39	-0.014612	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-30	-4.28	-0.005473	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-20	-7.50	-0.009591	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	-10	-11.27	-0.014412	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	0	-14.61	-0.018683	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	10	-13.18	-0.016854	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	20	-2.86	-0.003657	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	30	-10.16	-0.012992	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	40	-13.33	-0.017046	±2.5	PASS
Band13	5MHz	QPSK	23230	25RB#0	NV	50	-14.00	-0.017903	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-30	-16.82	-0.021440	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-20	-5.98	-0.007623	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	-10	-9.26	-0.011804	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	0	-8.18	-0.010427	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	10	-3.73	-0.004755	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	20	-9.04	-0.011523	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	30	-6.90	-0.008795	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	40	-9.24	-0.011778	±2.5	PASS
Band13	5MHz	QPSK	23255	25RB#0	NV	50	-12.22	-0.015577	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-30	-7.27	-0.009326	±2.5	PASS

Band13	5MHz	16QAM	23205	25RB#0	NV	-20	-11.17	-0.014330	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	-10	-12.90	-0.016549	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	0	1.69	0.002168	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	10	-9.20	-0.011802	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	20	-11.07	-0.014201	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	30	-6.44	-0.008262	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	40	8.14	0.010443	±2.5	PASS
Band13	5MHz	16QAM	23205	25RB#0	NV	50	-14.56	-0.018679	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-30	-2.62	-0.003350	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-20	-12.36	-0.015806	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	-10	-2.43	-0.003107	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	0	-8.30	-0.010614	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	10	-5.04	-0.006445	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	20	-9.61	-0.012289	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	30	-3.89	-0.004974	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	40	-4.71	-0.006023	±2.5	PASS
Band13	5MHz	16QAM	23230	25RB#0	NV	50	-3.86	-0.004936	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-30	-9.78	-0.012467	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-20	-7.14	-0.009101	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	-10	-8.87	-0.011307	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	0	-6.17	-0.007865	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	10	-13.53	-0.017247	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	20	3.99	0.005086	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	30	-10.39	-0.013244	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	40	-5.74	-0.007317	±2.5	PASS
Band13	5MHz	16QAM	23255	25RB#0	NV	50	-13.15	-0.016762	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-10.30	-0.013171	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-12.35	-0.015793	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-10.69	-0.013670	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-10.87	-0.013900	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-11.40	-0.014578	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-15.29	-0.019552	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-5.68	-0.007263	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-18.93	-0.024207	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-10.00	-0.012788	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-14.92	-0.019079	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-10.99	-0.014054	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-10	-13.55	-0.017327	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-9.98	-0.012762	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-10.76	-0.013760	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-17.51	-0.022391	±2.5	PASS

Band13	10MHz	16QAM	23230	50RB#0	NV	30	-18.05	-0.023082	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-15.88	-0.020307	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-13.63	-0.017430	±2.5	PASS