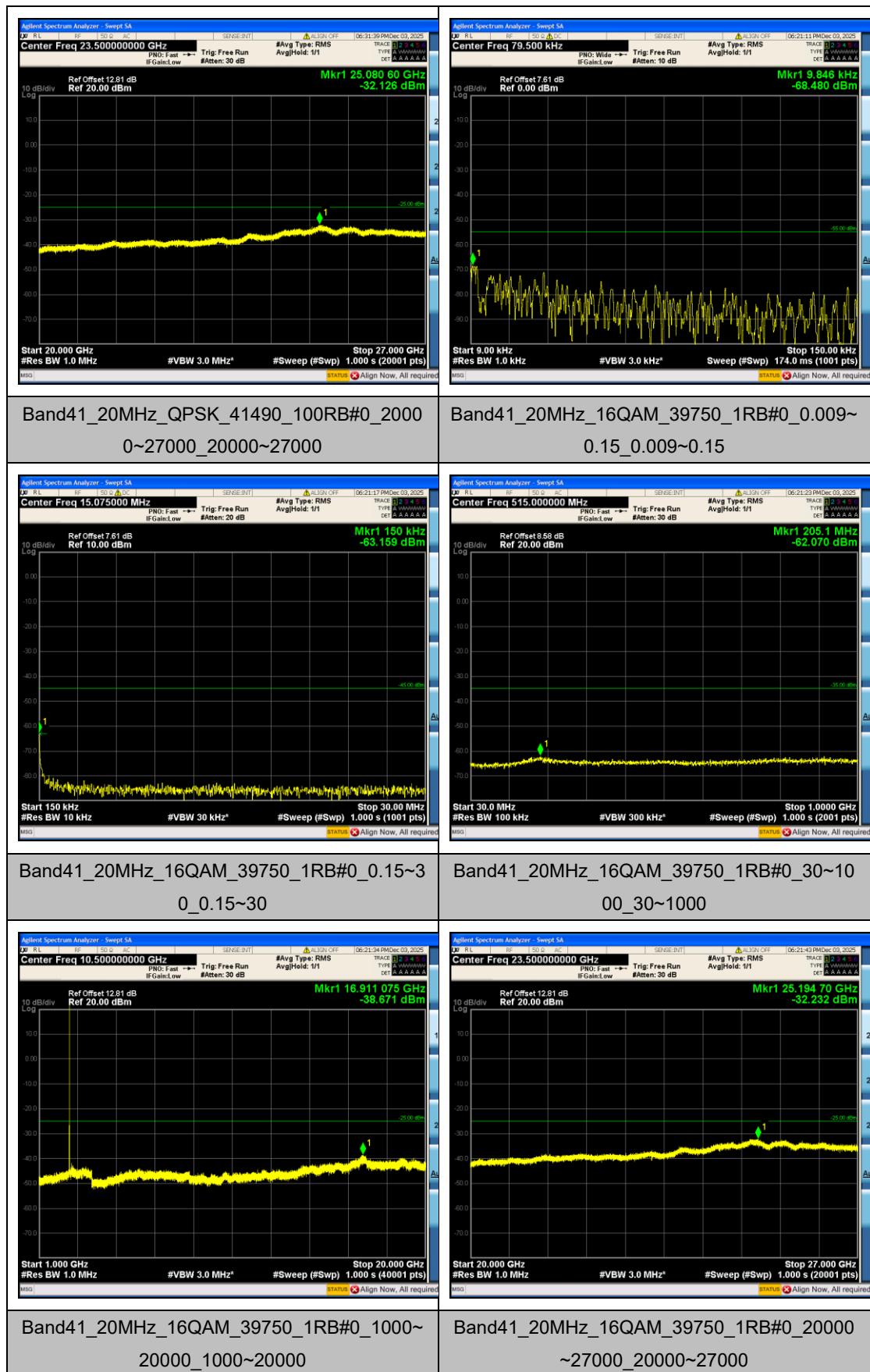
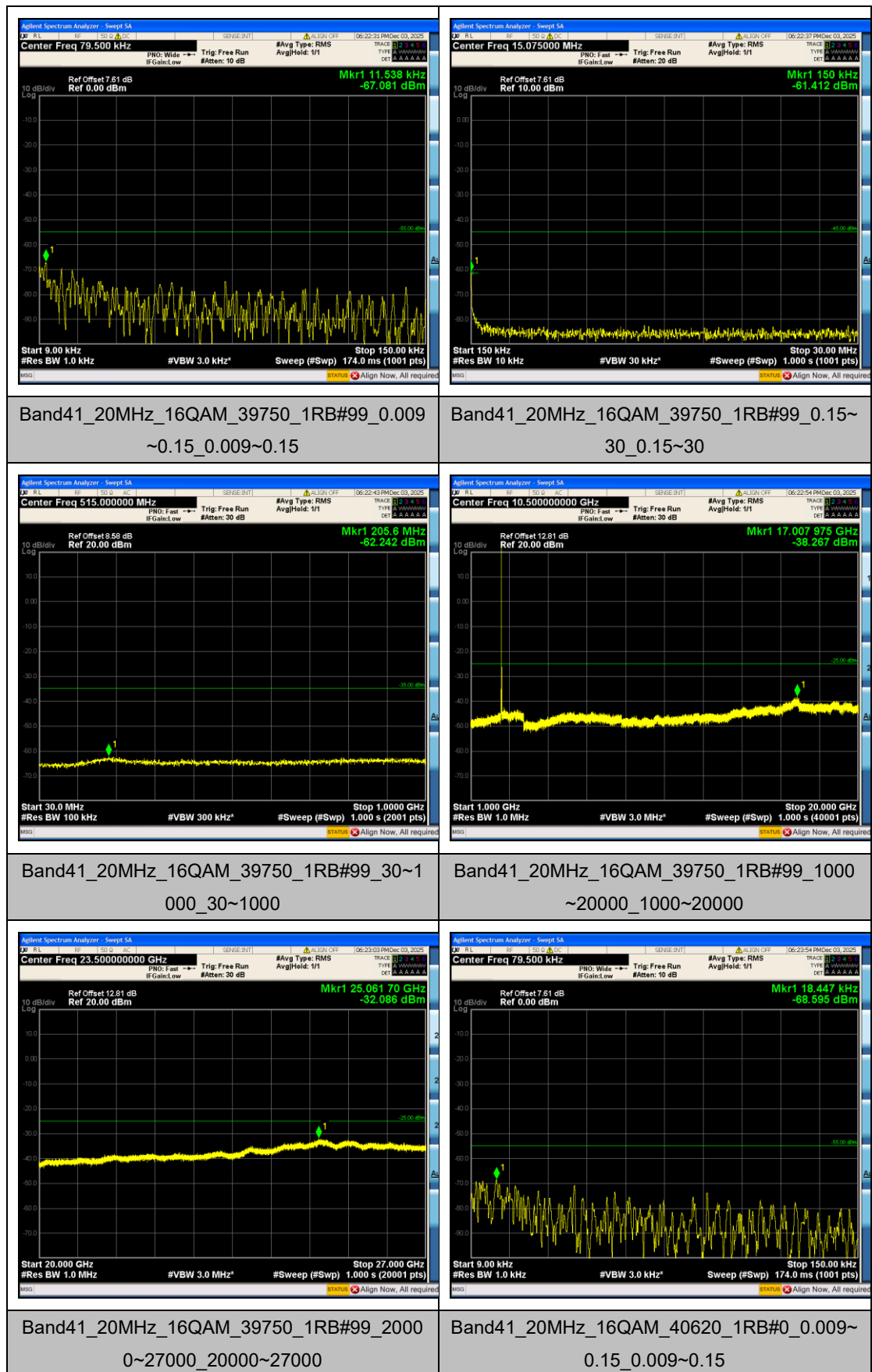
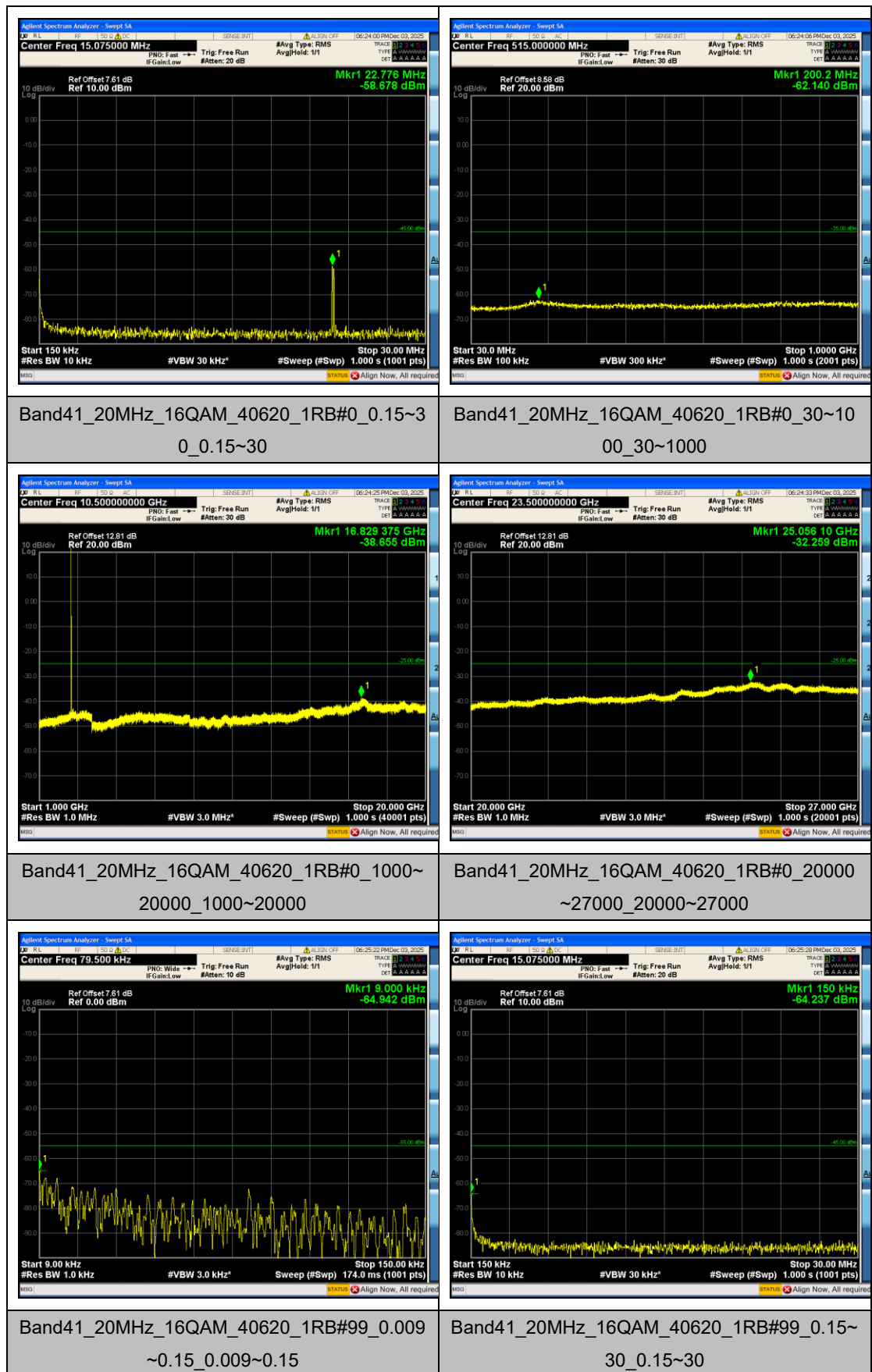
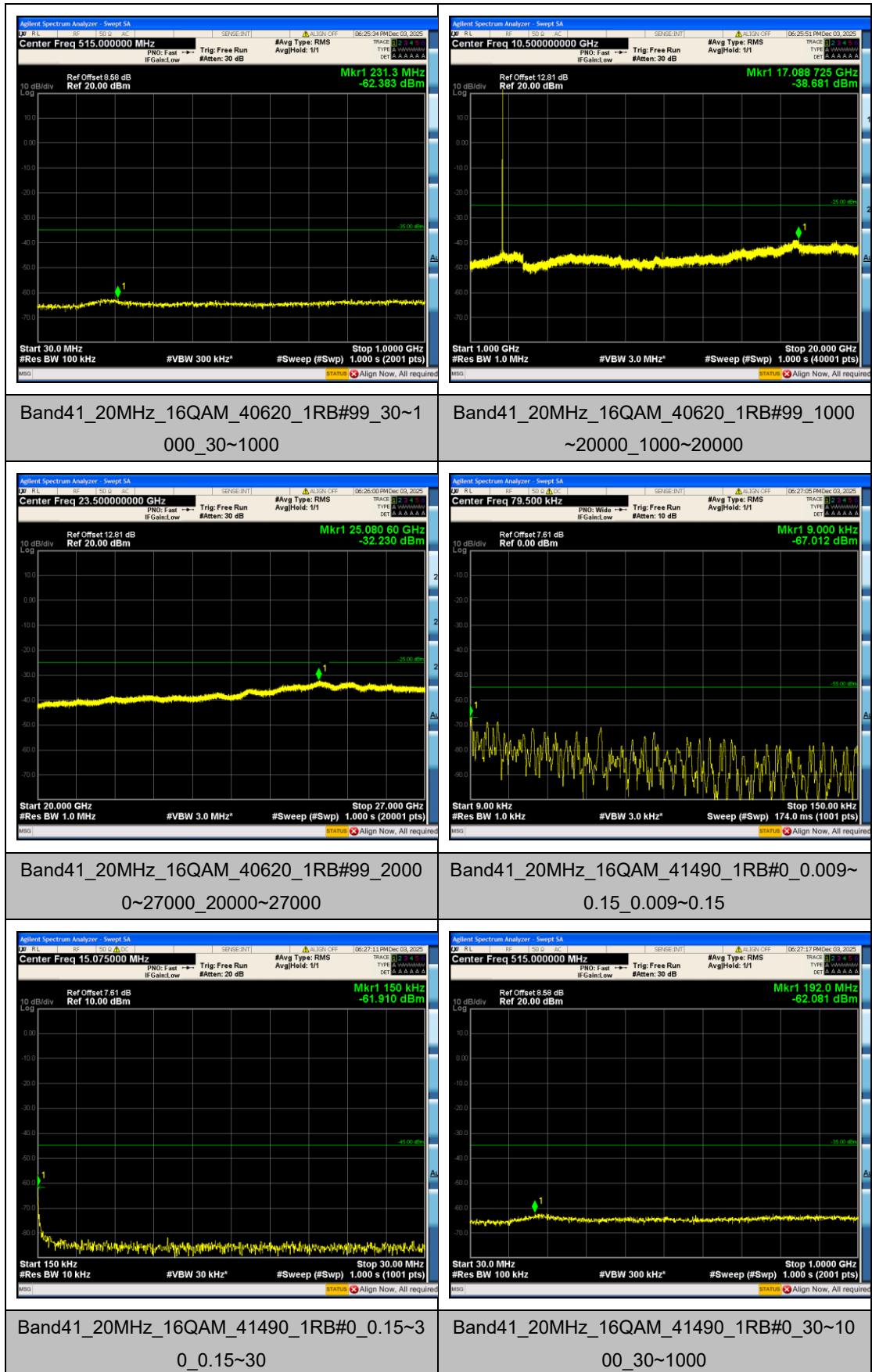
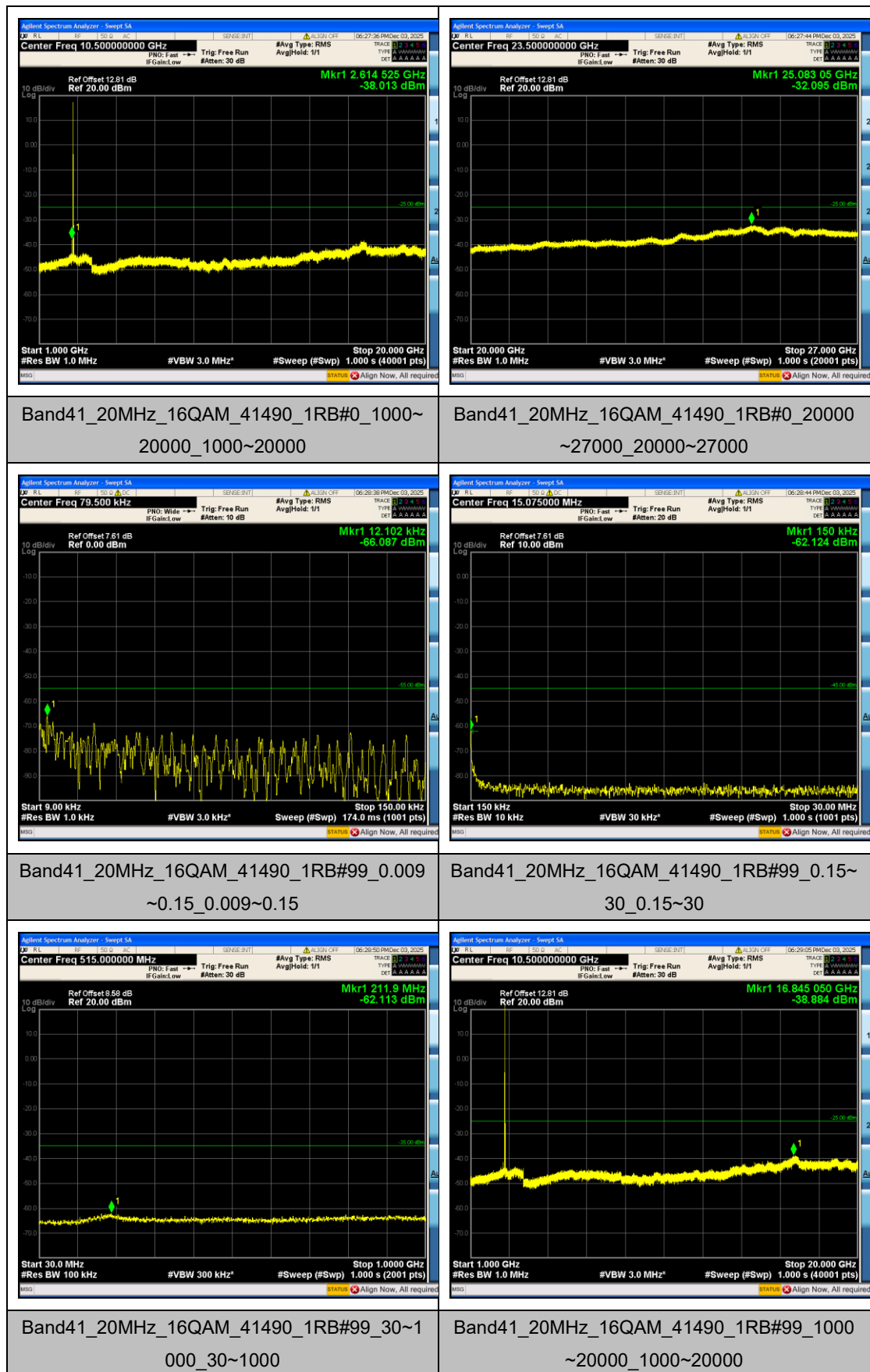


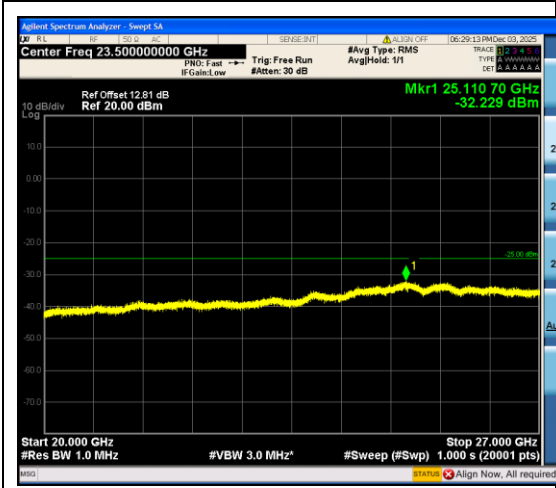












Band41_20MHz_16QAM_41490_1RB#99_2000
0~27000_20000~27000

Appendix F: Frequency Stability

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band41	5MHz	QPSK	39675	25RB#0	NV	-30	6.08	0.002433	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	-20	8.88	0.003554	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	-10	16.32	0.006532	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	0	7.38	0.002954	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	10	8.24	0.003298	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	20	16.49	0.006600	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	30	17.15	0.006864	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	40	11.76	0.004707	±2.5	PASS
Band41	5MHz	QPSK	39675	25RB#0	NV	50	8.18	0.003274	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-30	11.19	0.004315	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-20	15.32	0.005908	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	-10	8.33	0.003212	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	0	9.61	0.003706	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	10	11.93	0.004601	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	20	11.49	0.004431	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	30	11.76	0.004535	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	40	7.77	0.002997	±2.5	PASS
Band41	5MHz	QPSK	40620	25RB#0	NV	50	14.15	0.005457	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-30	9.51	0.003539	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-20	7.07	0.002631	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	-10	10.23	0.003807	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	0	13.98	0.005202	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	10	14.46	0.005380	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	20	13.93	0.005183	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	30	8.27	0.003077	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	40	10.86	0.004041	±2.5	PASS
Band41	5MHz	QPSK	41565	25RB#0	NV	50	10.50	0.003907	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-30	13.36	0.005347	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-20	17.81	0.007128	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	-10	12.79	0.005119	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	0	7.48	0.002994	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	10	11.13	0.004455	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	20	11.42	0.004571	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	30	12.89	0.005159	±2.5	PASS
Band41	5MHz	16QAM	39675	25RB#0	NV	40	14.12	0.005651	±2.5	PASS

Band41	5MHz	16QAM	39675	25RB#0	NV	50	7.50	0.003002	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-30	15.86	0.006116	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-20	11.84	0.004566	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	-10	9.37	0.003614	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	0	7.57	0.002919	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	10	14.52	0.005600	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	20	6.88	0.002653	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	30	8.93	0.003444	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	40	-9.53	-0.003675	±2.5	PASS
Band41	5MHz	16QAM	40620	25RB#0	NV	50	11.86	0.004574	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-30	6.45	0.002400	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-20	9.16	0.003408	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	-10	12.56	0.004673	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	0	15.19	0.005652	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	10	9.84	0.003661	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	20	11.09	0.004127	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	30	12.10	0.004502	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	40	8.07	0.003003	±2.5	PASS
Band41	5MHz	16QAM	41565	25RB#0	NV	50	13.58	0.005053	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-30	9.18	0.003671	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-20	11.92	0.004766	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	-10	12.27	0.004906	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	0	15.41	0.006162	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	10	10.57	0.004226	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	20	13.99	0.005594	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	30	10.34	0.004134	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	40	12.57	0.005026	±2.5	PASS
Band41	10MHz	QPSK	39700	50RB#0	NV	50	7.07	0.002827	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-30	-6.47	-0.002495	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-20	7.58	0.002923	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	-10	14.10	0.005438	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	0	-7.51	-0.002896	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	10	-7.57	-0.002919	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	20	-9.74	-0.003756	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	30	-7.25	-0.002796	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	40	4.94	0.001905	±2.5	PASS
Band41	10MHz	QPSK	40620	50RB#0	NV	50	5.65	0.002179	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-30	-7.44	-0.002771	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-20	-7.71	-0.002872	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	-10	-6.02	-0.002242	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	0	-10.76	-0.004007	±2.5	PASS

Band41	10MHz	QPSK	41540	50RB#0	NV	10	-11.54	-0.004298	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	20	4.13	0.001538	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	30	10.34	0.003851	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	40	-8.13	-0.003028	±2.5	PASS
Band41	10MHz	QPSK	41540	50RB#0	NV	50	7.85	0.002924	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-30	-8.57	-0.003423	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-20	-8.93	-0.003567	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	-10	-7.25	-0.002896	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	0	6.54	0.002612	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	10	-9.57	-0.003823	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	20	-9.67	-0.003863	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	30	-6.74	-0.002692	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	40	-9.64	-0.003851	±2.5	PASS
Band41	15MHz	QPSK	39725	75RB#0	NV	50	-17.82	-0.007118	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-30	8.65	0.003336	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-20	6.64	0.002561	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	-10	-5.59	-0.002156	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	0	-10.43	-0.004022	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	10	5.01	0.001932	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	20	-10.37	-0.003999	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	30	-5.85	-0.002256	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	40	8.91	0.003436	±2.5	PASS
Band41	15MHz	QPSK	40620	75RB#0	NV	50	-12.03	-0.004639	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-30	5.87	0.002188	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-20	5.66	0.002110	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	-10	9.38	0.003497	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	0	11.73	0.004373	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	10	-5.75	-0.002144	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	20	-7.65	-0.002852	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	30	7.81	0.002911	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	40	-10.26	-0.003825	±2.5	PASS
Band41	15MHz	QPSK	41515	75RB#0	NV	50	8.81	0.003284	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-30	6.35	0.002534	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-20	9.84	0.003927	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	-10	11.33	0.004521	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	0	13.32	0.005315	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	10	6.97	0.002781	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	20	6.44	0.002570	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	30	9.04	0.003607	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	40	13.99	0.005583	±2.5	PASS
Band41	20MHz	QPSK	39750	100RB#0	NV	50	-9.01	-0.003595	±2.5	PASS

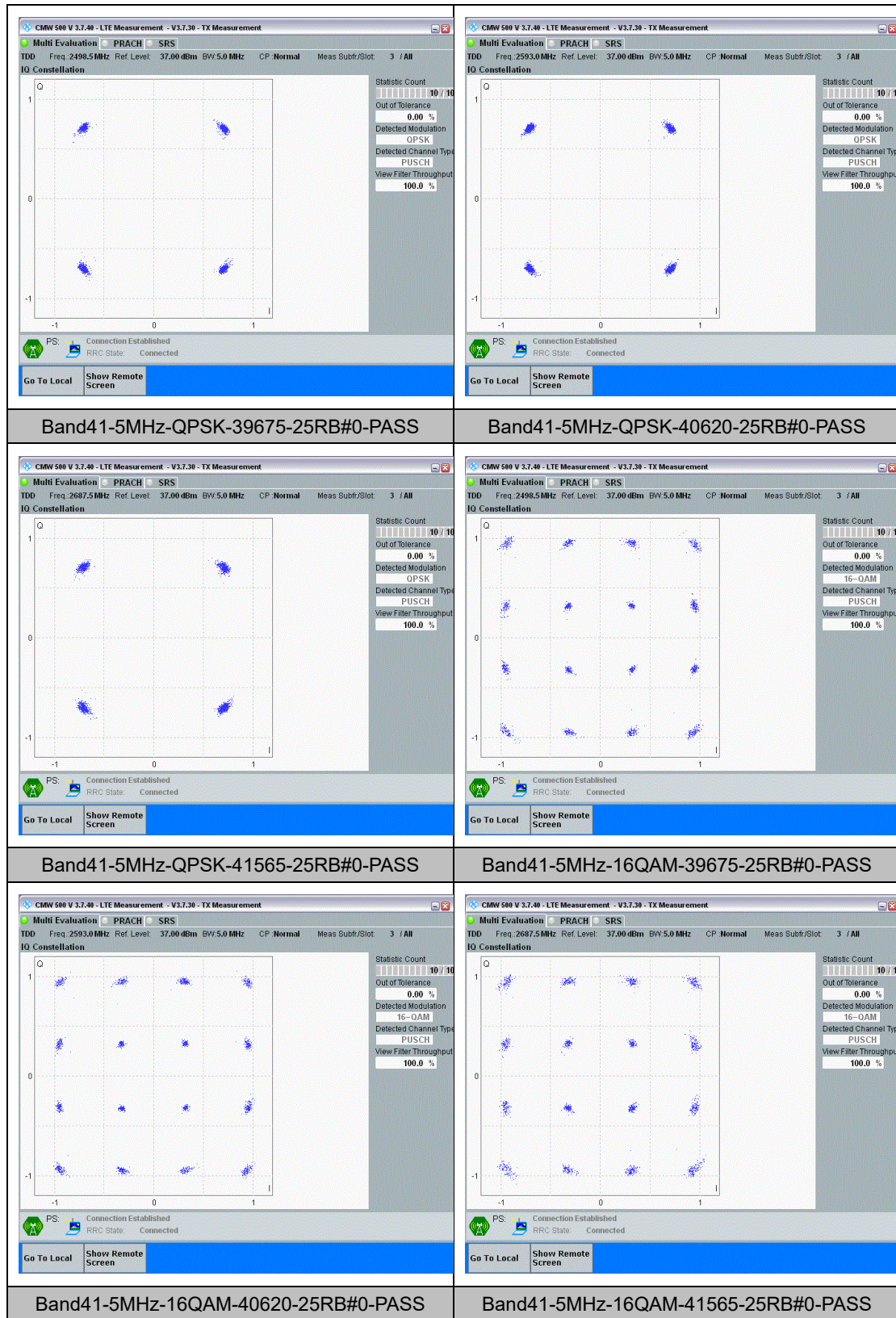
Band41	20MHz	QPSK	40620	100RB#0	NV	-30	9.58	0.003695	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-20	-7.72	-0.002977	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	-10	-8.25	-0.003182	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	0	10.77	0.004153	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	10	-11.23	-0.004331	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	20	10.94	0.004219	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	30	-7.54	-0.002908	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	40	4.39	0.001693	±2.5	PASS
Band41	20MHz	QPSK	40620	100RB#0	NV	50	-8.10	-0.003124	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-30	7.95	0.002966	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-20	-5.12	-0.001910	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	-10	6.94	0.002590	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	0	8.05	0.003004	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	10	10.14	0.003784	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	20	8.88	0.003313	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	30	11.12	0.004149	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	40	-13.13	-0.004899	±2.5	PASS
Band41	20MHz	QPSK	41490	100RB#0	NV	50	9.93	0.003705	±2.5	PASS

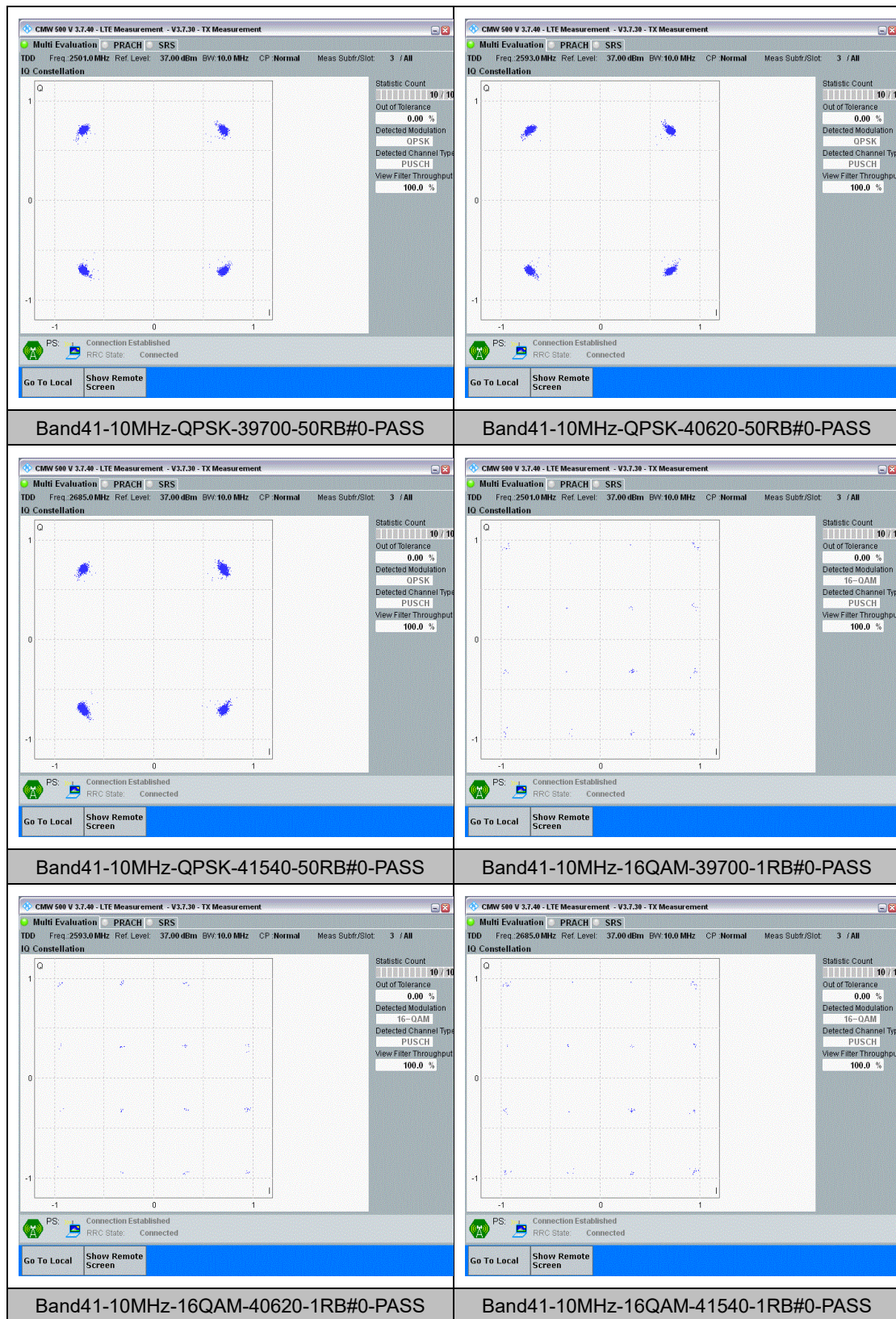
Appendix G: Modulation Characteristics

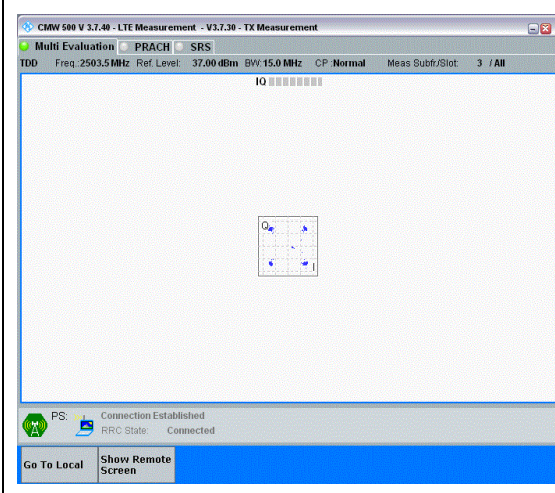
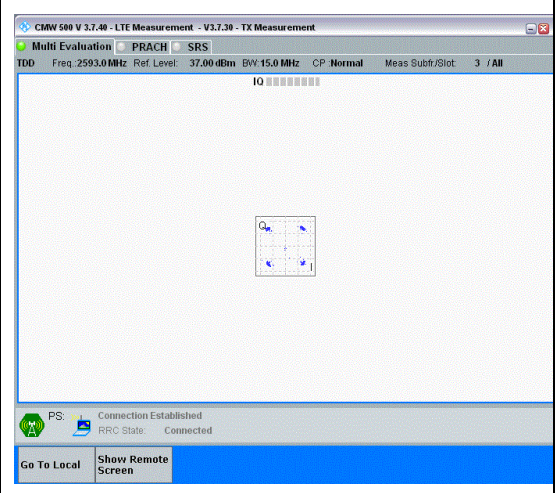
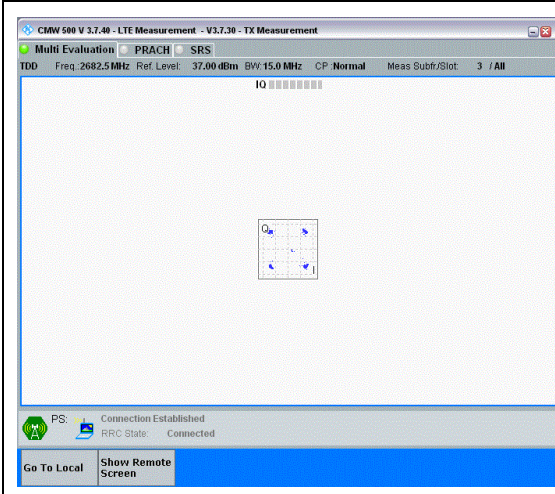
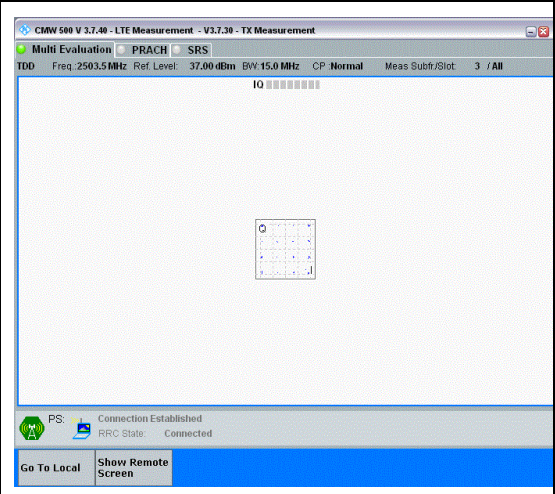
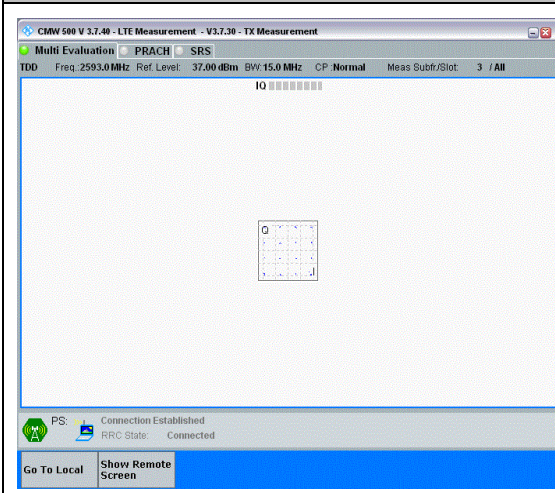
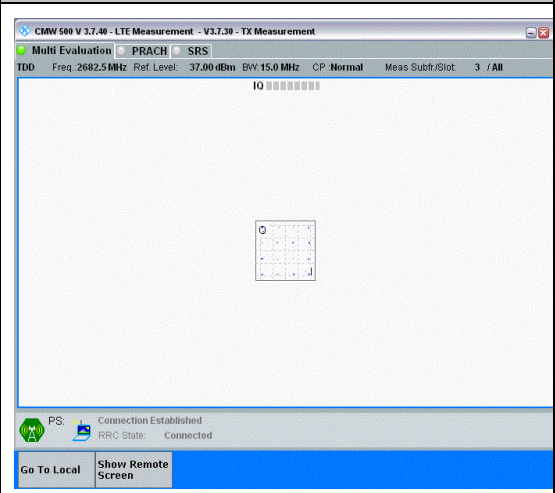
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band41	5MHz	QPSK	39675	25RB#0	PASS
Band41	5MHz	QPSK	40620	25RB#0	PASS
Band41	5MHz	QPSK	41565	25RB#0	PASS
Band41	5MHz	16QAM	39675	25RB#0	PASS
Band41	5MHz	16QAM	40620	25RB#0	PASS
Band41	5MHz	16QAM	41565	25RB#0	PASS
Band41	10MHz	QPSK	39700	50RB#0	PASS
Band41	10MHz	QPSK	40620	50RB#0	PASS
Band41	10MHz	QPSK	41540	50RB#0	PASS
Band41	10MHz	16QAM	39700	1RB#0	PASS
Band41	10MHz	16QAM	40620	1RB#0	PASS
Band41	10MHz	16QAM	41540	1RB#0	PASS
Band41	15MHz	QPSK	39725	75RB#0	PASS
Band41	15MHz	QPSK	40620	75RB#0	PASS
Band41	15MHz	QPSK	41515	75RB#0	PASS
Band41	15MHz	16QAM	39725	1RB#0	PASS
Band41	15MHz	16QAM	40620	1RB#0	PASS
Band41	15MHz	16QAM	41515	1RB#0	PASS
Band41	20MHz	QPSK	39750	100RB#0	PASS
Band41	20MHz	QPSK	40620	100RB#0	PASS
Band41	20MHz	QPSK	41490	100RB#0	PASS
Band41	20MHz	16QAM	39750	1RB#0	PASS
Band41	20MHz	16QAM	40620	1RB#0	PASS
Band41	20MHz	16QAM	41490	1RB#0	PASS

Test Graphs





	
Band41-15MHz-QPSK-39725-75RB#0-PASS	Band41-15MHz-QPSK-40620-75RB#0-PASS
	
Band41-15MHz-QPSK-41515-75RB#0-PASS	Band41-15MHz-16QAM-39725-1RB#0-PASS
	
Band41-15MHz-16QAM-40620-1RB#0-PASS	Band41-15MHz-16QAM-41515-1RB#0-PASS