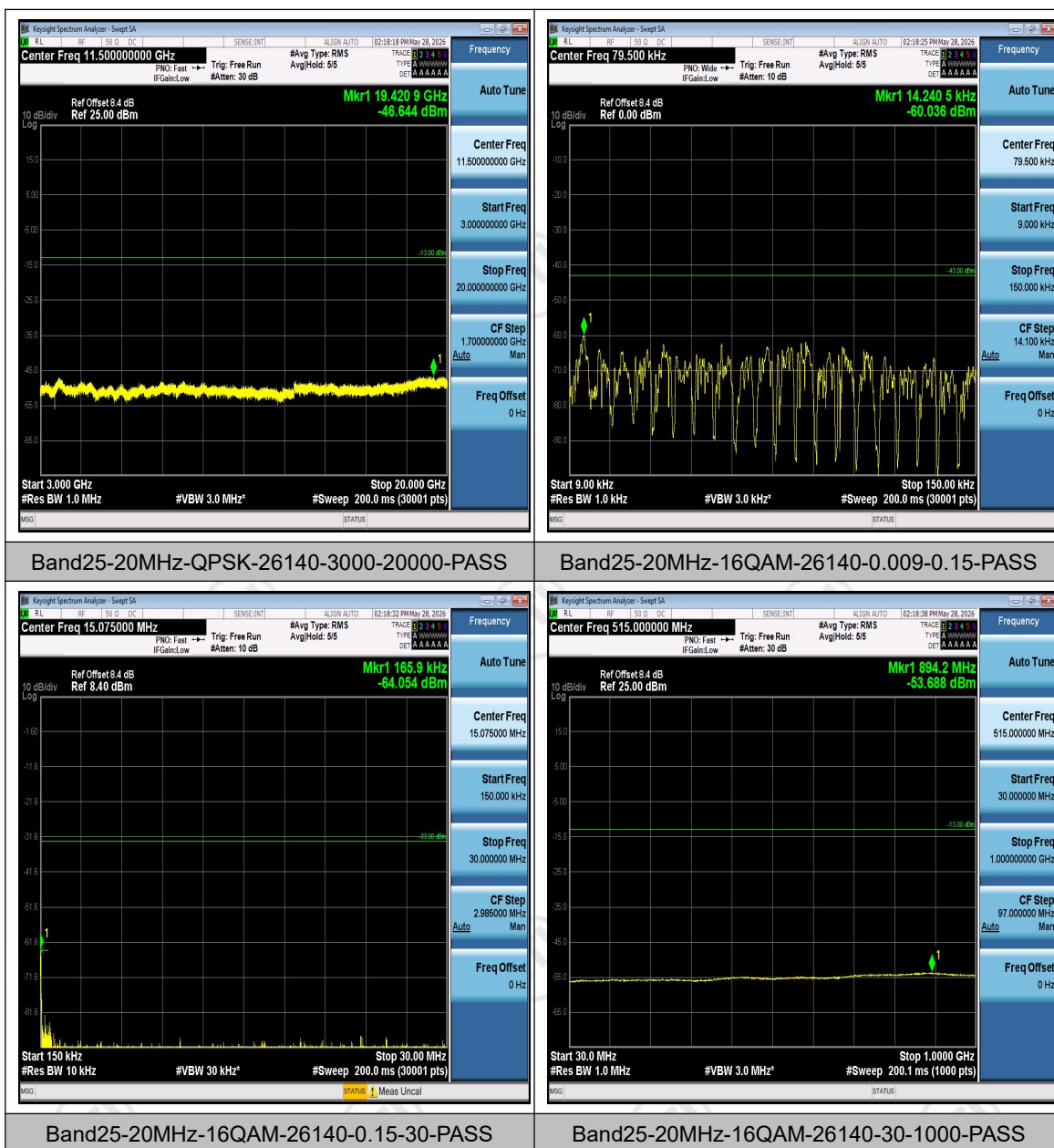
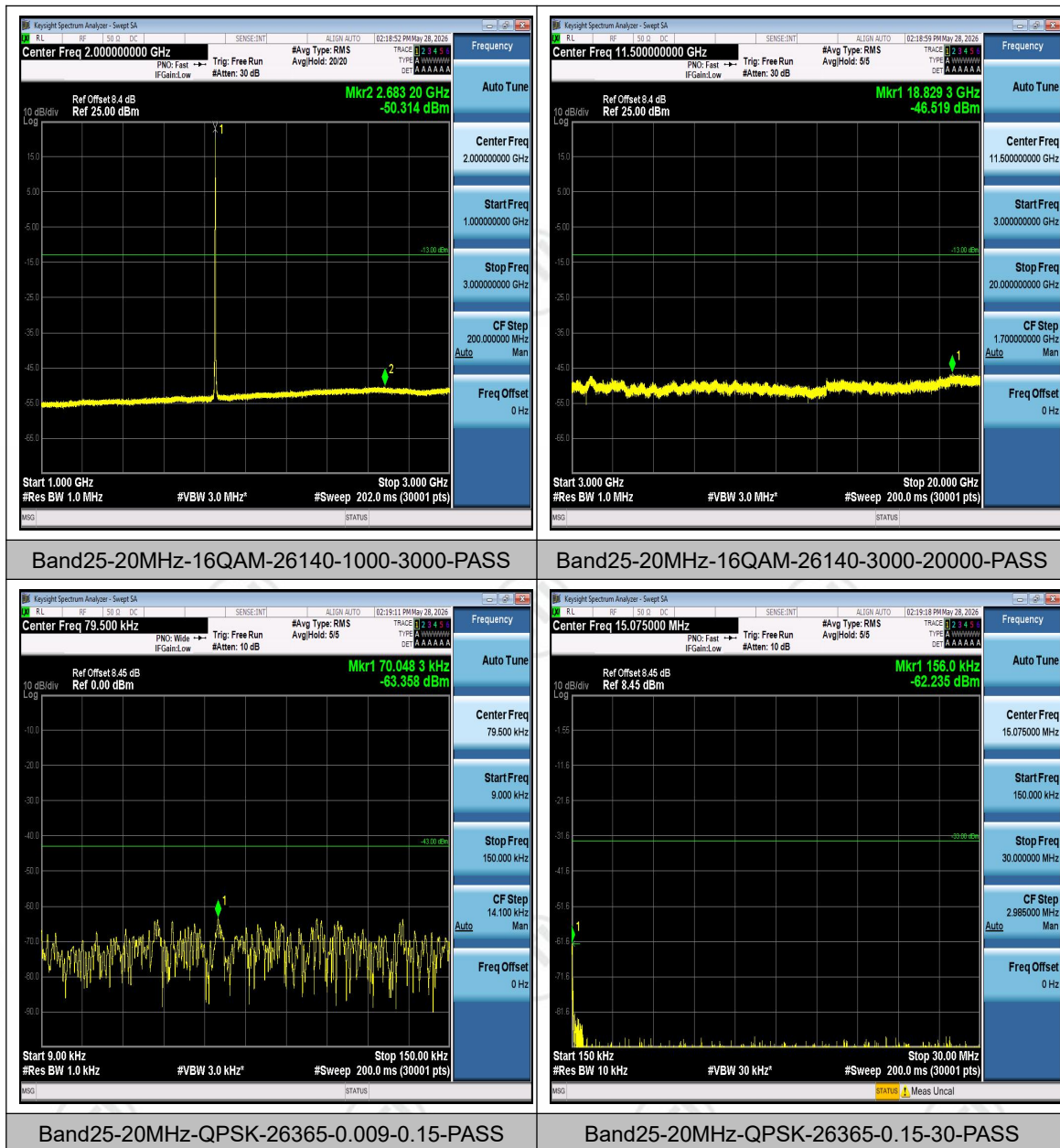
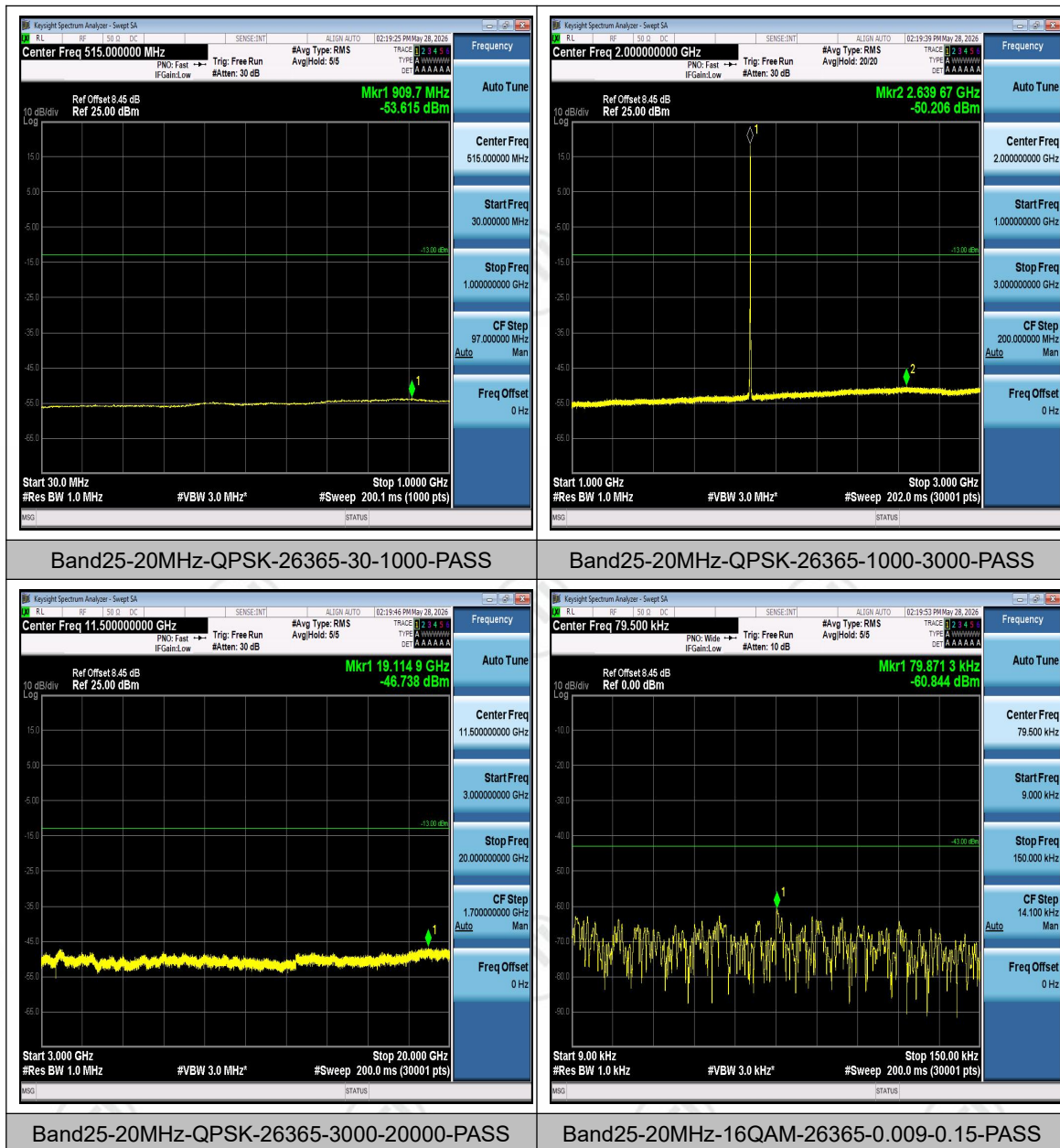
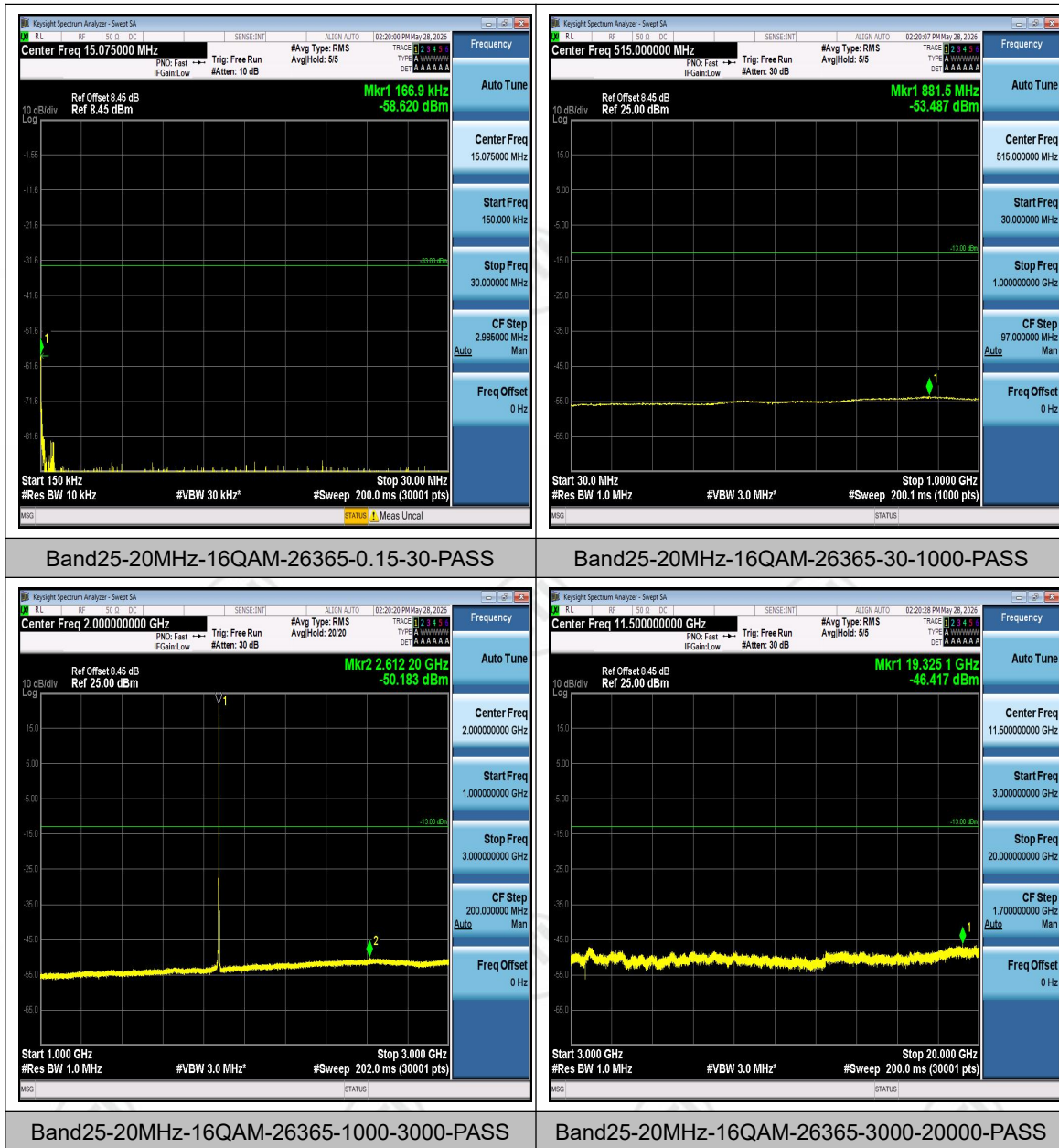
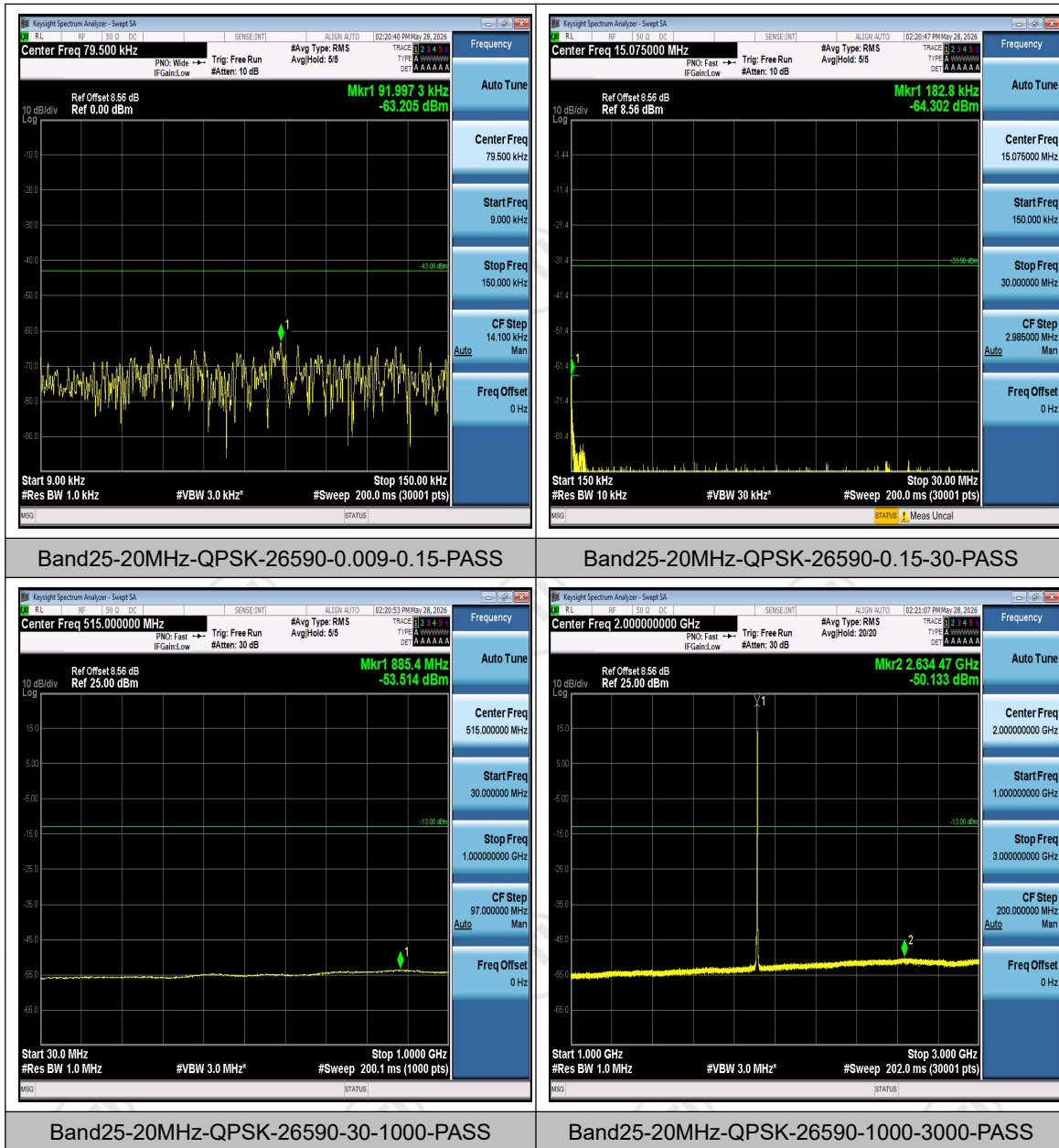


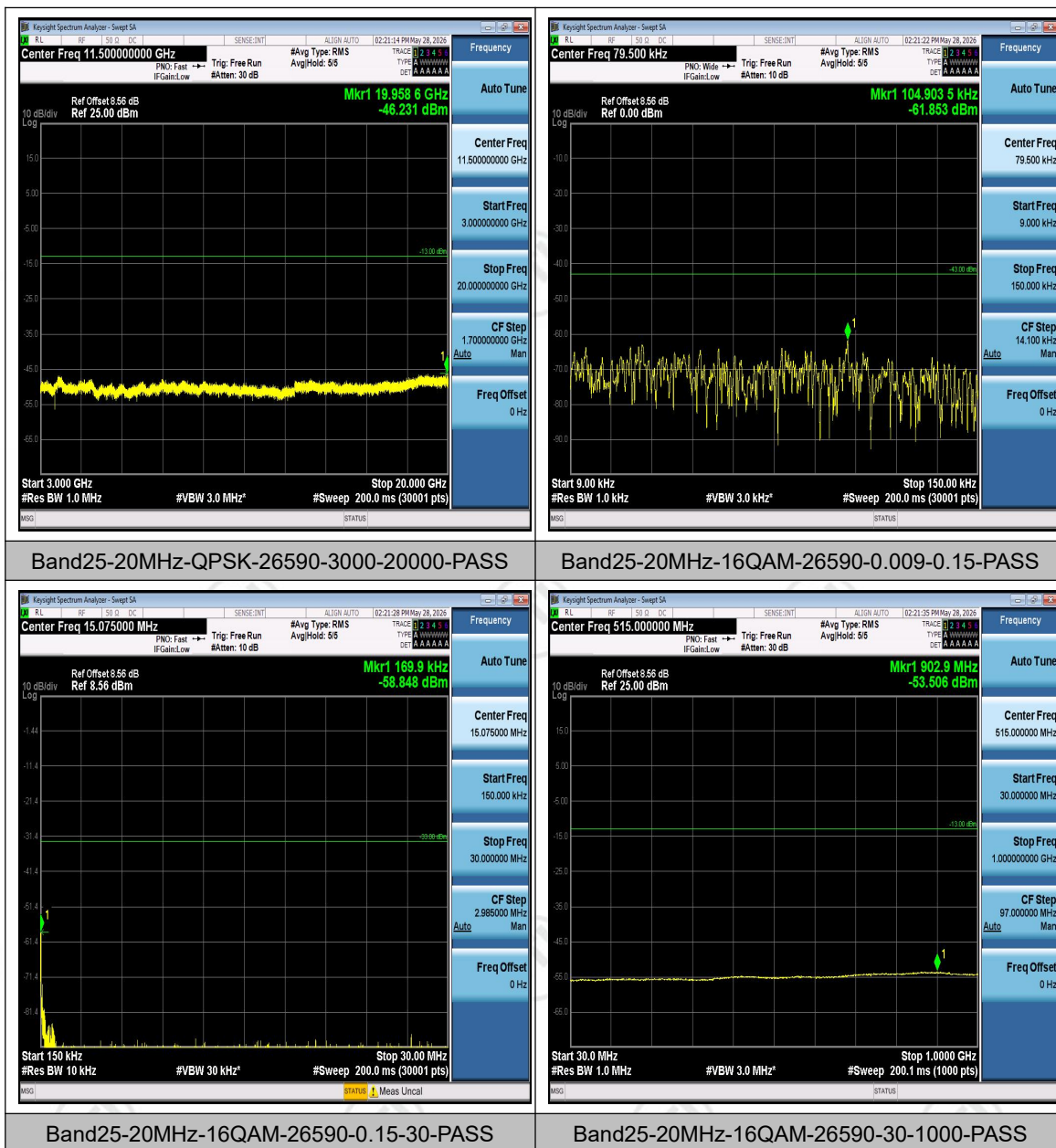


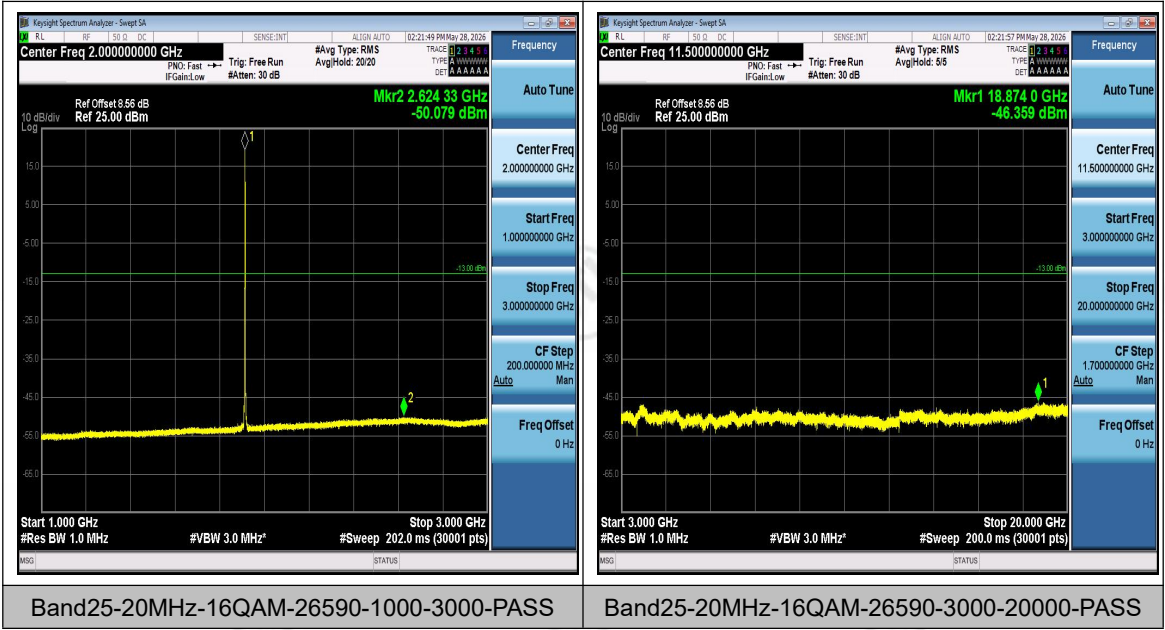












Appendix F: Frequency Stability for M1

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	1.4MHz	26047	QPSK	6	0	Low	VN	NT	-15.79	-0.008532	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	VL	NT	7.93	0.004285	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	VH	NT	11.50	0.006214	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	VN	NT	-10.24	-0.005533	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	VL	NT	-10.54	-0.005695	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	VH	NT	-10.61	-0.005733	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	VN	NT	11.26	0.005981	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	VL	NT	10.20	0.005418	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	VH	NT	-15.49	-0.008228	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	VN	NT	-11.67	-0.006199	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	VL	NT	-10.00	-0.005312	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	VH	NT	-11.00	-0.005843	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	VN	NT	12.27	0.006410	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	VL	NT	11.50	0.006007	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	VH	NT	-15.52	-0.008107	±2.5	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	VN	NT	-10.39	-0.005428	±2.5	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	VL	NT	-10.33	-0.005	±2.5	PASS

										396		
Band25	1.4MHz	26683	16QAM	6	0	High	VH	NT	-11.96	-0.006 248	±2.5	PASS
Band25	3MHz	26055	QPSK	6	0	Low	VN	NT	-17.38	-0.009 387	±2.5	PASS
Band25	3MHz	26055	QPSK	6	0	Low	VL	NT	-15.79	-0.008 528	±2.5	PASS
Band25	3MHz	26055	QPSK	6	0	Low	VH	NT	-12.56	-0.006 784	±2.5	PASS
Band25	3MHz	26055	16QAM	6	0	Low	VN	NT	-7.38	-0.003 986	±2.5	PASS
Band25	3MHz	26055	16QAM	6	0	Low	VL	NT	-7.74	-0.004 180	±2.5	PASS
Band25	3MHz	26055	16QAM	6	0	Low	VH	NT	-9.20	-0.004 969	±2.5	PASS
Band25	3MHz	26365	QPSK	6	0	Low	VN	NT	-11.12	-0.005 907	±2.5	PASS
Band25	3MHz	26365	QPSK	6	0	Low	VL	NT	5.05	0.0026 83	±2.5	PASS
Band25	3MHz	26365	QPSK	6	0	Low	VH	NT	4.18	0.0022 20	±2.5	PASS
Band25	3MHz	26365	16QAM	6	0	Low	VN	NT	6.69	0.0035 54	±2.5	PASS
Band25	3MHz	26365	16QAM	6	0	Low	VL	NT	5.88	0.0031 24	±2.5	PASS
Band25	3MHz	26365	16QAM	6	0	Low	VH	NT	6.67	0.0035 43	±2.5	PASS
Band25	3MHz	26675	QPSK	6	0	High	VN	NT	-5.75	-0.003 005	±2.5	PASS
Band25	3MHz	26675	QPSK	6	0	High	VL	NT	6.78	0.0035 43	±2.5	PASS
Band25	3MHz	26675	QPSK	6	0	High	VH	NT	6.34	0.0033 13	±2.5	PASS
Band25	3MHz	26675	16QAM	6	0	High	VN	NT	7.08	0.0037 00	±2.5	PASS
Band25	3MHz	26675	16QAM	6	0	High	VL	NT	7.05	0.0036 84	±2.5	PASS
Band25	3MHz	26675	16QAM	6	0	High	VH	NT	7.55	0.0039 46	±2.5	PASS
Band25	5MHz	26065	QPSK	6	0	Low	VN	NT	-15.06	-0.008 130	±2.5	PASS

Band25	5MHz	26065	QPSK	6	0	Low	VL	NT	-11.23	-0.006 062	±2.5	PASS
Band25	5MHz	26065	QPSK	6	0	Low	VH	NT	-10.91	-0.005 889	±2.5	PASS
Band25	5MHz	26065	16QAM	6	0	Low	VN	NT	-10.20	-0.005 506	±2.5	PASS
Band25	5MHz	26065	16QAM	6	0	Low	VL	NT	-10.11	-0.005 457	±2.5	PASS
Band25	5MHz	26065	16QAM	6	0	Low	VH	NT	-9.84	-0.005 312	±2.5	PASS
Band25	5MHz	26365	QPSK	6	0	Low	VN	NT	-13.38	-0.007 108	±2.5	PASS
Band25	5MHz	26365	QPSK	6	0	Low	VL	NT	-5.38	-0.002 858	±2.5	PASS
Band25	5MHz	26365	QPSK	6	0	Low	VH	NT	5.01	0.0026 61	±2.5	PASS
Band25	5MHz	26365	16QAM	6	0	Low	VN	NT	7.25	0.0038 51	±2.5	PASS
Band25	5MHz	26365	16QAM	6	0	Low	VL	NT	5.87	0.0031 18	±2.5	PASS
Band25	5MHz	26365	16QAM	6	0	Low	VH	NT	6.72	0.0035 70	±2.5	PASS
Band25	5MHz	26665	QPSK	6	0	High	VN	NT	-11.22	-0.005 867	±2.5	PASS
Band25	5MHz	26665	QPSK	6	0	High	VL	NT	4.76	0.0024 89	±2.5	PASS
Band25	5MHz	26665	QPSK	6	0	High	VH	NT	4.09	0.0021 39	±2.5	PASS
Band25	5MHz	26665	16QAM	6	0	High	VN	NT	4.84	0.0025 31	±2.5	PASS
Band25	5MHz	26665	16QAM	6	0	High	VL	NT	4.65	0.0024 31	±2.5	PASS
Band25	5MHz	26665	16QAM	6	0	High	VH	NT	5.09	0.0026 61	±2.5	PASS
Band25	10MHz	26090	QPSK	6	0	Low	VN	NT	6.71	0.0036 17	±2.5	PASS
Band25	10MHz	26090	QPSK	6	0	Low	VL	NT	-14.63	-0.007 887	±2.5	PASS
Band25	10MHz	26090	QPSK	6	0	Low	VH	NT	-13.62	-0.007 342	±2.5	PASS
Band25	10MHz	26090	16QAM	6	0	Low	VN	NT	-13.38	-0.007	±2.5	PASS

										213		
Band25	10MHz	26090	16QAM	6	0	Low	VL	NT	-13.85	-0.007 466	±2.5	PASS
Band25	10MHz	26090	16QAM	6	0	Low	VH	NT	-16.37	-0.008 825	±2.5	PASS
Band25	10MHz	26365	QPSK	6	0	Low	VN	NT	-11.04	-0.005 865	±2.5	PASS
Band25	10MHz	26365	QPSK	6	0	Low	VL	NT	7.68	0.0040 80	±2.5	PASS
Band25	10MHz	26365	QPSK	6	0	Low	VH	NT	8.71	0.0046 27	±2.5	PASS
Band25	10MHz	26365	16QAM	6	0	Low	VN	NT	10.29	0.0054 66	±2.5	PASS
Band25	10MHz	26365	16QAM	6	0	Low	VL	NT	10.61	0.0056 36	±2.5	PASS
Band25	10MHz	26365	16QAM	6	0	Low	VH	NT	11.23	0.0059 65	±2.5	PASS
Band25	10MHz	26640	QPSK	6	0	High	VN	NT	-4.52	-0.002 366	±2.5	PASS
Band25	10MHz	26640	QPSK	6	0	High	VL	NT	7.55	0.0039 53	±2.5	PASS
Band25	10MHz	26640	QPSK	6	0	High	VH	NT	8.38	0.0043 87	±2.5	PASS
Band25	10MHz	26640	16QAM	6	0	High	VN	NT	8.83	0.0046 23	±2.5	PASS
Band25	10MHz	26640	16QAM	6	0	High	VL	NT	8.40	0.0043 98	±2.5	PASS
Band25	10MHz	26640	16QAM	6	0	High	VH	NT	7.94	0.0041 57	±2.5	PASS
Band25	15MHz	26115	QPSK	6	0	Low	VN	NT	10.69	0.0057 55	±2.5	PASS
Band25	15MHz	26115	QPSK	6	0	Low	VL	NT	-13.12	-0.007 063	±2.5	PASS
Band25	15MHz	26115	QPSK	6	0	Low	VH	NT	-11.73	-0.006 315	±2.5	PASS
Band25	15MHz	26115	16QAM	6	0	Low	VN	NT	-7.93	-0.004 269	±2.5	PASS
Band25	15MHz	26115	16QAM	6	0	Low	VL	NT	-6.02	-0.003 241	±2.5	PASS
Band25	15MHz	26115	16QAM	6	0	Low	VH	NT	-6.45	-0.003 472	±2.5	PASS

Band25	15MHz	26365	QPSK	6	0	Low	VN	NT	-13.53	-0.007 187	±2.5	PASS
Band25	15MHz	26365	QPSK	6	0	Low	VL	NT	-5.68	-0.003 017	±2.5	PASS
Band25	15MHz	26365	QPSK	6	0	Low	VH	NT	-5.11	-0.002 714	±2.5	PASS
Band25	15MHz	26365	16QAM	6	0	Low	VN	NT	5.62	0.0029 85	±2.5	PASS
Band25	15MHz	26365	16QAM	6	0	Low	VL	NT	-4.53	-0.002 406	±2.5	PASS
Band25	15MHz	26365	16QAM	6	0	Low	VH	NT	-4.39	-0.002 332	±2.5	PASS
Band25	15MHz	26615	QPSK	6	0	High	VN	NT	13.00	0.0068 15	±2.5	PASS
Band25	15MHz	26615	QPSK	6	0	High	VL	NT	-8.38	-0.004 393	±2.5	PASS
Band25	15MHz	26615	QPSK	6	0	High	VH	NT	-8.63	-0.004 524	±2.5	PASS
Band25	15MHz	26615	16QAM	6	0	High	VN	NT	-9.14	-0.004 792	±2.5	PASS
Band25	15MHz	26615	16QAM	6	0	High	VL	NT	-10.51	-0.005 510	±2.5	PASS
Band25	15MHz	26615	16QAM	6	0	High	VH	NT	-9.56	-0.005 012	±2.5	PASS
Band25	20MHz	26140	QPSK	6	0	Low	VN	NT	8.44	0.0045 38	±2.5	PASS
Band25	20MHz	26140	QPSK	6	0	Low	VL	NT	10.77	0.0057 90	±2.5	PASS
Band25	20MHz	26140	QPSK	6	0	Low	VH	NT	14.31	0.0076 94	±2.5	PASS
Band25	20MHz	26140	16QAM	6	0	Low	VN	NT	-10.19	-0.005 478	±2.5	PASS
Band25	20MHz	26140	16QAM	6	0	Low	VL	NT	-10.90	-0.005 860	±2.5	PASS
Band25	20MHz	26140	16QAM	6	0	Low	VH	NT	-10.96	-0.005 892	±2.5	PASS
Band25	20MHz	26365	QPSK	6	0	Low	VN	NT	-10.84	-0.005 758	±2.5	PASS
Band25	20MHz	26365	QPSK	6	0	Low	VL	NT	5.34	0.0028 37	±2.5	PASS
Band25	20MHz	26365	QPSK	6	0	Low	VH	NT	6.64	0.0035	±2.5	PASS

										27		
Band25	20MHz	26365	16QAM	6	0	Low	VN	NT	8.47	0.004499	±2.5	PASS
Band25	20MHz	26365	16QAM	6	0	Low	VL	NT	7.91	0.004202	±2.5	PASS
Band25	20MHz	26365	16QAM	6	0	Low	VH	NT	8.53	0.004531	±2.5	PASS
Band25	20MHz	26590	QPSK	6	0	High	VN	NT	-6.88	-0.003612	±2.5	PASS
Band25	20MHz	26590	QPSK	6	0	High	VL	NT	7.60	0.003990	±2.5	PASS
Band25	20MHz	26590	QPSK	6	0	High	VH	NT	8.30	0.004357	±2.5	PASS
Band25	20MHz	26590	16QAM	6	0	High	VN	NT	7.47	0.003921	±2.5	PASS
Band25	20MHz	26590	16QAM	6	0	High	VL	NT	7.54	0.003958	±2.5	PASS
Band25	20MHz	26590	16QAM	6	0	High	VH	NT	6.14	0.003223	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band25	1.4MHz	26047	QPSK	6	0	Low	NV	-30	-13.80	-0.007457	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	NV	-20	-11.90	-0.006430	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	NV	-10	-12.56	-0.006787	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	NV	0	-11.96	-0.006462	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	NV	10	-12.26	-0.006625	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	NV	20	-11.49	-0.006208	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	NV	30	-10.00	-0.005403	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	NV	40	-10.63	-0.005744	±2.5	PASS
Band25	1.4MHz	26047	QPSK	6	0	Low	NV	50	-11.04	-0.005965	±2.5	PASS

Band25	1.4MHz	26047	16QAM	6	0	Low	NV	-30	-9.06	-0.004 895	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	NV	-20	-9.46	-0.005 112	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	NV	-10	-10.74	-0.005 803	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	NV	0	-9.96	-0.005 382	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	NV	10	-8.98	-0.004 852	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	NV	20	-8.68	-0.004 690	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	NV	30	-9.77	-0.005 279	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	NV	40	-10.21	-0.005 517	±2.5	PASS
Band25	1.4MHz	26047	16QAM	6	0	Low	NV	50	-9.90	-0.005 349	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	NV	-30	-14.46	-0.007 681	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	NV	-20	-13.58	-0.007 214	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	NV	-10	-14.13	-0.007 506	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	NV	0	-13.36	-0.007 097	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	NV	10	-11.53	-0.006 125	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	NV	20	-12.35	-0.006 560	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	NV	30	-12.83	-0.006 815	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	NV	40	-11.07	-0.005 880	±2.5	PASS
Band25	1.4MHz	26365	QPSK	6	0	Low	NV	50	-11.90	-0.006 321	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	NV	-30	-9.97	-0.005 296	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	NV	-20	-10.07	-0.005 349	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	NV	-10	-9.68	-0.005	±2.5	PASS

										142		
Band25	1.4MHz	26365	16QAM	6	0	Low	NV	0	-9.28	-0.004 930	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	NV	10	-8.43	-0.004 478	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	NV	20	-7.74	-0.004 112	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	NV	30	-7.60	-0.004 037	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	NV	40	-8.93	-0.004 744	±2.5	PASS
Band25	1.4MHz	26365	16QAM	6	0	Low	NV	50	-9.78	-0.005 195	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	NV	-30	-14.08	-0.007 355	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	NV	-20	-13.66	-0.007 136	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	NV	-10	-14.36	-0.007 501	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	NV	0	-12.72	-0.006 645	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	NV	10	-12.75	-0.006 660	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	NV	20	-12.46	-0.006 509	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	NV	30	-11.72	-0.006 122	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	NV	40	-12.13	-0.006 337	±2.5	PASS
Band25	1.4MHz	26683	QPSK	6	0	High	NV	50	-11.32	-0.005 913	±2.5	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	NV	-30	-11.54	-0.006 028	±2.5	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	NV	-20	-10.11	-0.005 281	±2.5	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	NV	-10	-11.83	-0.006 180	±2.5	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	NV	0	-11.32	-0.005 913	±2.5	PASS
Band25	1.4MHz	26683	16QAM	6	0	High	NV	10	-12.12	-0.006 331	±2.5	PASS