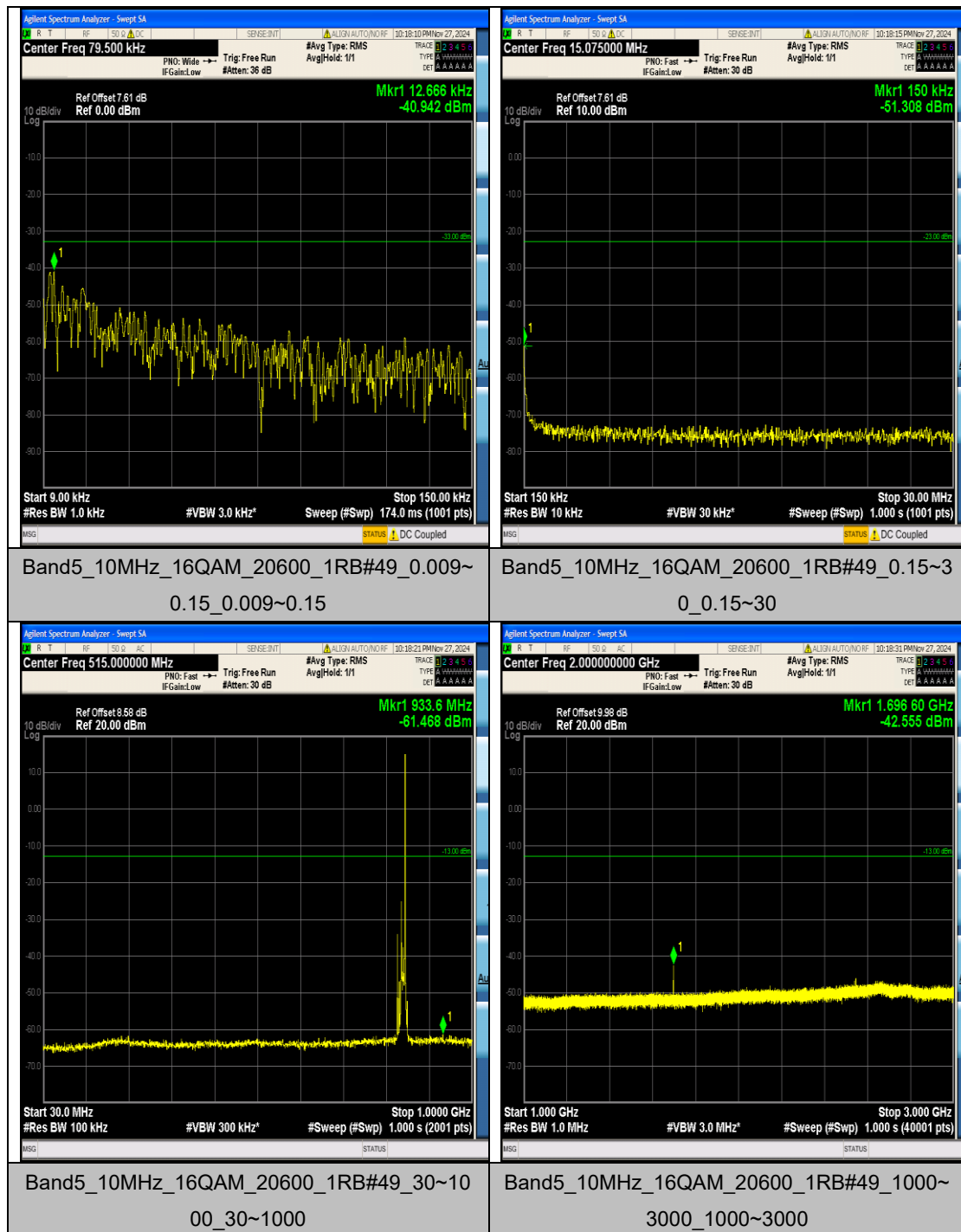
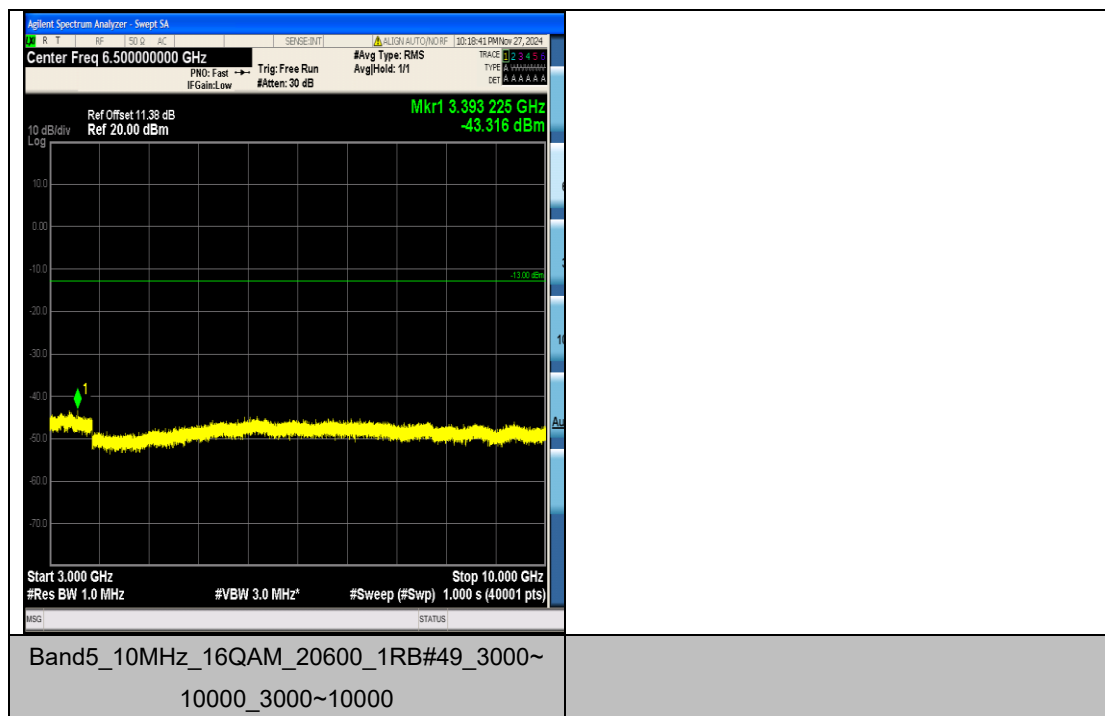






Appendix F: Frequency Stability

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
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-24.59	-0.029817	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-15.49	-0.018783	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-10	-6.25	-0.007579	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	-8.81	-0.010683	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-23.89	-0.028968	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-13.72	-0.016636	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	30	-24.16	-0.029296	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	40	-18.54	-0.022481	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	50	-16.31	-0.019777	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	6.08	0.007268	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	14.48	0.017310	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-10	6.02	0.007197	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	13.93	0.016653	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	19.76	0.023622	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	18.11	0.021650	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	30	20.47	0.024471	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	40	20.24	0.024196	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	50	21.84	0.026109	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	9.93	0.011706	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	10.74	0.012661	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-10	21.79	0.025687	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	28.41	0.033491	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	25.82	0.030437	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	8.91	0.010503	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	30	26.95	0.031769	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	40	26.24	0.030932	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	50	23.29	0.027455	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-10.13	-0.012283	±2.5	PASS

Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	-8.91	-0.010804	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-10	-16.81	-0.020383	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-26.14	-0.031696	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	-28.87	-0.035007	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	-6.28	-0.007615	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	30	-13.68	-0.016588	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	40	-16.38	-0.019862	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	50	-13.83	-0.016770	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-27.37	-0.032720	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-7.14	-0.008536	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-10	-9.90	-0.011835	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-16.75	-0.020024	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-5.84	-0.006981	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-16.25	-0.019426	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	30	-24.05	-0.028751	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	40	-20.51	-0.024519	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	50	-23.40	-0.027974	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	12.82	0.015113	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	14.43	0.017010	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-10	17.90	0.021101	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	23.98	0.028268	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	5.71	0.006731	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	12.66	0.014924	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	30	23.23	0.027384	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	40	9.77	0.011517	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	50	18.74	0.022091	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	-12.02	-0.014561	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	-27.17	-0.032913	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-10	-9.80	-0.011872	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	-28.67	-0.034730	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	-14.65	-0.017747	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	-21.09	-0.025548	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	30	-28.68	-0.034743	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	40	-13.68	-0.016572	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	50	-10.93	-0.013240	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	13.96	0.016689	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	18.68	0.022331	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-10	6.67	0.007974	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	21.69	0.025929	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	10.00	0.011955	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	14.05	0.016796	±2.5	PASS

Band5	3MHz	QPSK	20525	15RB#0	NV	30	23.32	0.027878	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	40	7.74	0.009253	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	50	15.09	0.018039	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	7.70	0.009086	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	26.12	0.030820	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-10	25.19	0.029723	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	17.97	0.021204	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	14.08	0.016614	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	12.75	0.015044	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	30	27.39	0.032319	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	40	16.14	0.019044	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	50	10.01	0.011811	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	-21.11	-0.025572	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	-13.56	-0.016426	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-10	-17.29	-0.020945	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	-25.94	-0.031423	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	-31.90	-0.038643	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	-26.65	-0.032283	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	30	-21.13	-0.025597	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	40	-21.43	-0.025960	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	50	-10.56	-0.012792	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-30	-17.67	-0.021124	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	-14.89	-0.017800	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-10	-28.72	-0.034334	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	-7.27	-0.008691	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	-22.52	-0.026922	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	-26.78	-0.032014	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	30	-23.09	-0.027603	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	40	-24.36	-0.029121	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	50	-20.26	-0.024220	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	-17.94	-0.021168	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	-16.68	-0.019681	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-10	-14.03	-0.016555	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	5.42	0.006395	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	14.73	0.017381	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	19.03	0.022454	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	30	4.68	0.005522	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	40	7.48	0.008826	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	50	12.80	0.015103	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	-24.42	-0.029546	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	-17.92	-0.021682	±2.5	PASS

Band5	5MHz	QPSK	20425	25RB#0	NV	-10	-11.74	-0.014204	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	-17.70	-0.021416	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	-24.43	-0.029558	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	-15.09	-0.018258	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	30	-22.34	-0.027030	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	40	-18.47	-0.022347	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	50	-27.21	-0.032922	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	-11.40	-0.013628	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	-3.96	-0.004734	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-10	11.09	0.013258	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	17.74	0.021207	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	20.60	0.024626	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	26.05	0.031142	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	30	8.93	0.010675	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	40	13.18	0.015756	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	50	16.16	0.019319	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	14.71	0.017377	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	23.62	0.027903	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-10	22.27	0.026308	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	23.39	0.027631	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	13.30	0.015712	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	11.12	0.013136	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	30	23.00	0.027171	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	40	21.36	0.025233	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	50	26.15	0.030892	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-17.29	-0.020920	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	-28.21	-0.034132	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-10	-14.62	-0.017689	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-17.34	-0.020980	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	-20.80	-0.025166	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-29.35	-0.035511	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	30	-10.99	-0.013297	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	40	-17.75	-0.021476	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	50	-16.38	-0.019819	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	-13.68	-0.016354	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	-14.85	-0.017753	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-10	-10.77	-0.012875	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	-26.26	-0.031393	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	-18.14	-0.021686	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	-22.54	-0.026946	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	30	-22.66	-0.027089	±2.5	PASS

Band5	5MHz	16QAM	20525	25RB#0	NV	40	-7.65	-0.009145	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	50	-9.98	-0.011931	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	7.80	0.009214	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	1.73	0.002044	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-10	-3.88	-0.004584	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	-3.83	-0.004525	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	-4.08	-0.004820	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	20	3.30	0.003898	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	30	11.29	0.013337	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	40	17.41	0.020567	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	50	16.84	0.019894	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-15.13	-0.018251	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-13.05	-0.015742	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-10	-8.57	-0.010338	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-26.68	-0.032183	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-23.22	-0.028010	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-15.72	-0.018963	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-29.73	-0.035862	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-17.47	-0.021074	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-11.77	-0.014198	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	10.91	0.013042	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	21.39	0.025571	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	5.54	0.006623	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	10.31	0.012325	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	20.61	0.024638	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	23.86	0.028524	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	21.83	0.026097	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	22.69	0.027125	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	23.57	0.028177	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	11.54	0.013673	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	14.72	0.017441	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-10	19.24	0.022796	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	17.07	0.020225	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	10.39	0.012310	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	25.05	0.029680	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	15.39	0.018235	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	26.09	0.030912	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	6.44	0.007630	±2.5	PASS

Appendix G: Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	PASS
Band5	3MHz	QPSK	20415	15RB#0	PASS
Band5	3MHz	QPSK	20525	15RB#0	PASS
Band5	3MHz	QPSK	20635	15RB#0	PASS
Band5	3MHz	16QAM	20415	15RB#0	PASS
Band5	3MHz	16QAM	20525	15RB#0	PASS
Band5	3MHz	16QAM	20635	15RB#0	PASS
Band5	5MHz	QPSK	20425	25RB#0	PASS
Band5	5MHz	QPSK	20525	25RB#0	PASS
Band5	5MHz	QPSK	20625	25RB#0	PASS
Band5	5MHz	16QAM	20425	25RB#0	PASS
Band5	5MHz	16QAM	20525	25RB#0	PASS
Band5	5MHz	16QAM	20625	25RB#0	PASS
Band5	10MHz	QPSK	20450	50RB#0	PASS
Band5	10MHz	QPSK	20525	50RB#0	PASS
Band5	10MHz	QPSK	20600	50RB#0	PASS
Band5	10MHz	16QAM	20450	1RB#0	PASS
Band5	10MHz	16QAM	20525	1RB#0	PASS
Band5	10MHz	16QAM	20600	1RB#0	PASS

Test Graphs

