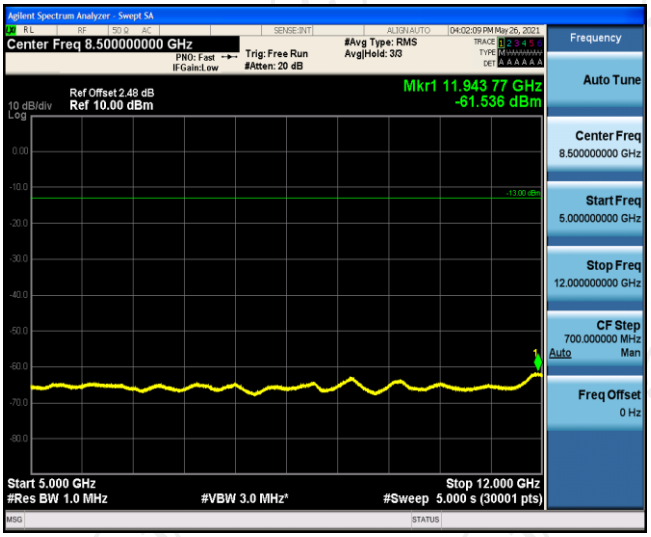
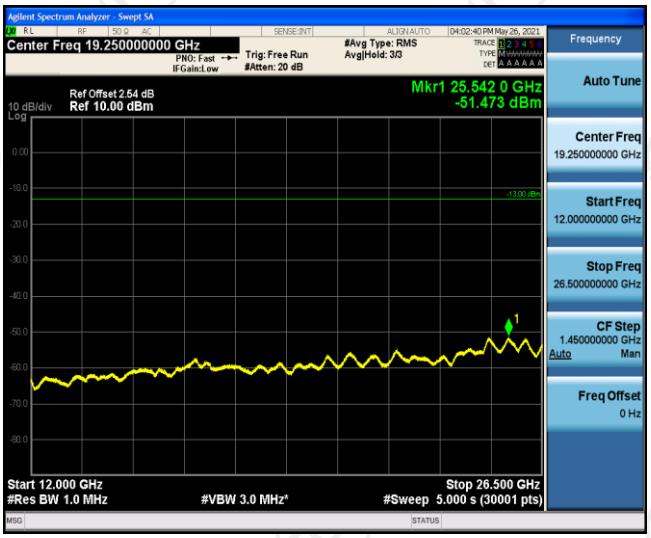
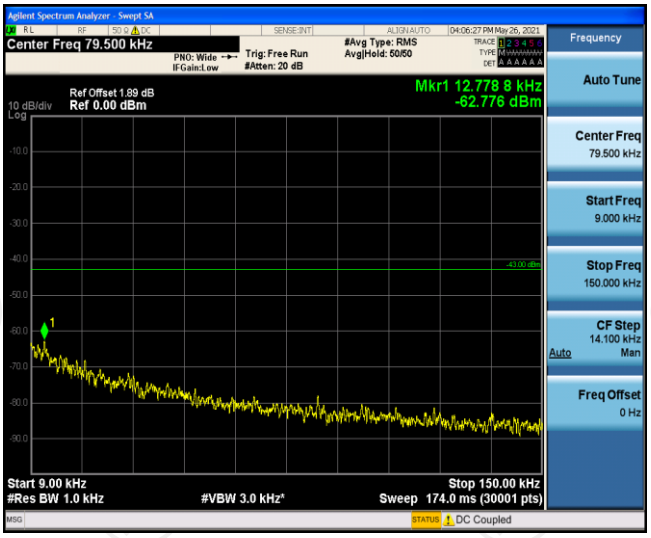


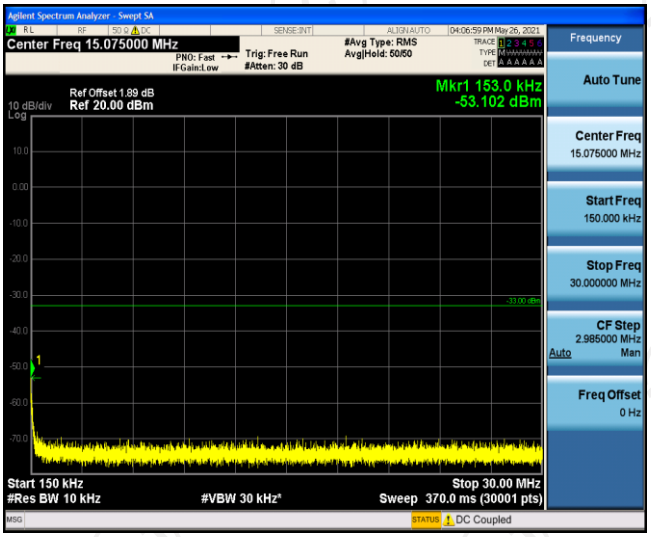
Band71-20MHz-16QAM-133222-1RB#0-Range6:12000~26500MHz



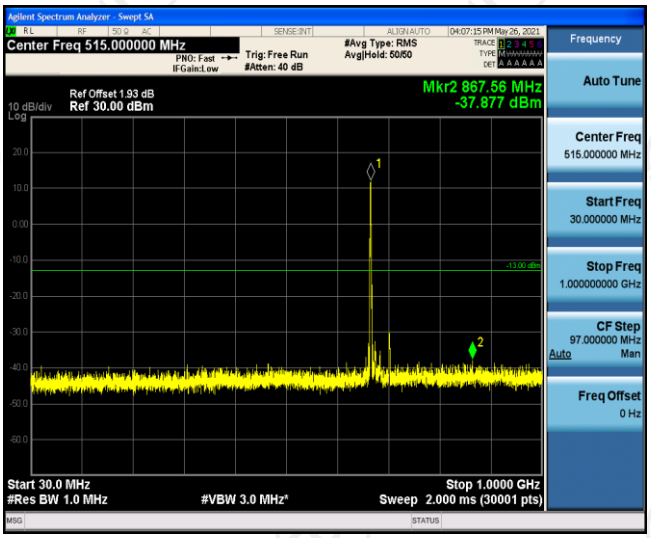
Band71-20MHz-16QAM-133322-1RB#0-Range1:0.009~0.15MHz



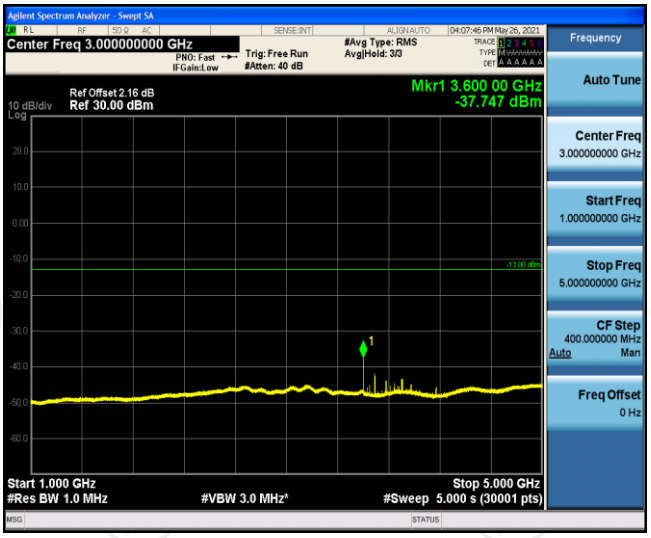
Band71-20MHz-16QAM-133322-1RB#0-Range2:0.15~30MHz



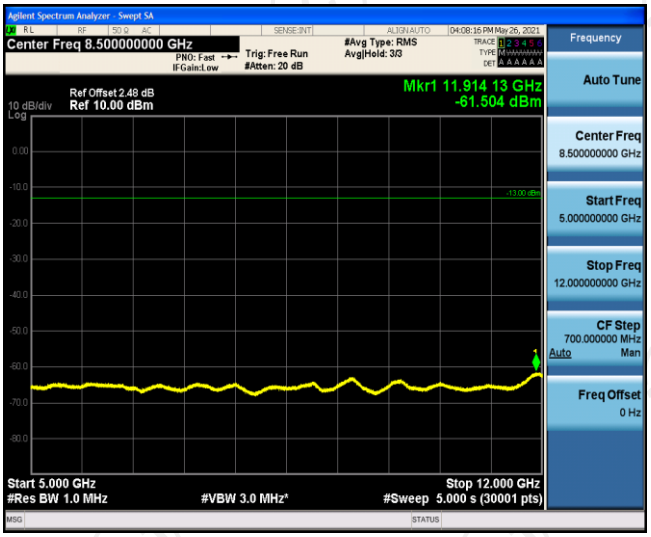
Band71-20MHz-16QAM-133322-1RB#0-Range3:30~1000MHz



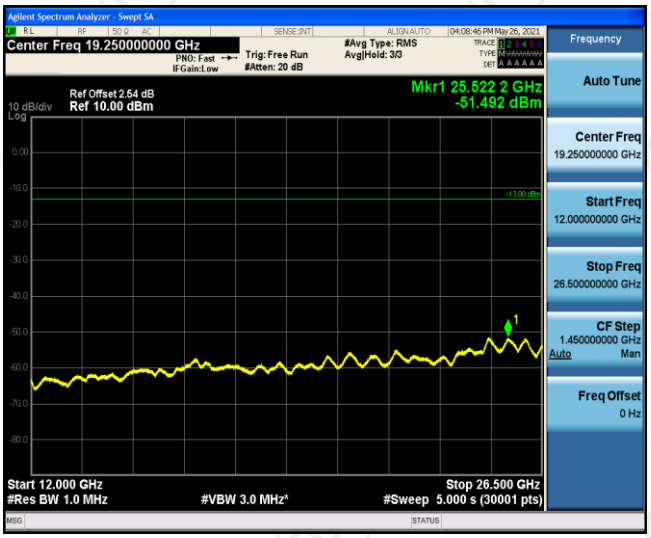
Band71-20MHz-16QAM-133322-1RB#0-Range4:1000~5000MHz



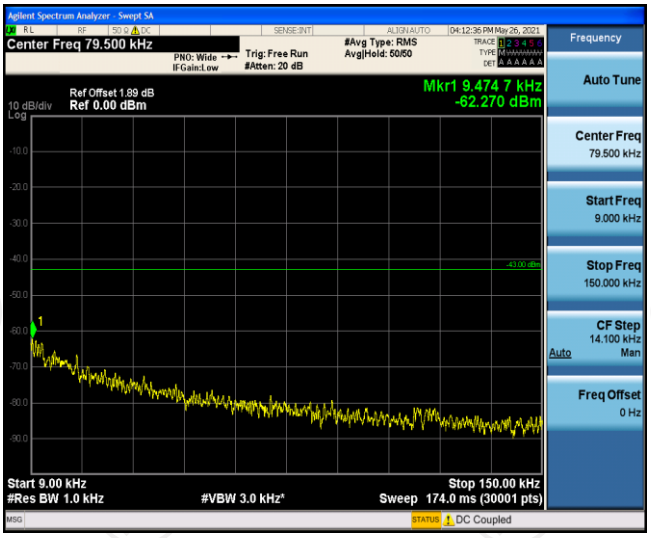
Band71-20MHz-16QAM-133322-1RB#0-Range5:5000~12000MHz



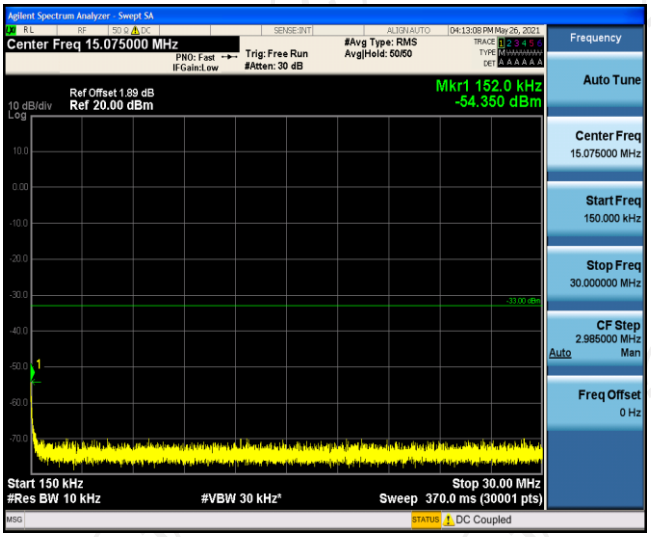
Band71-20MHz-16QAM-133322-1RB#0-Range6:12000~26500MHz



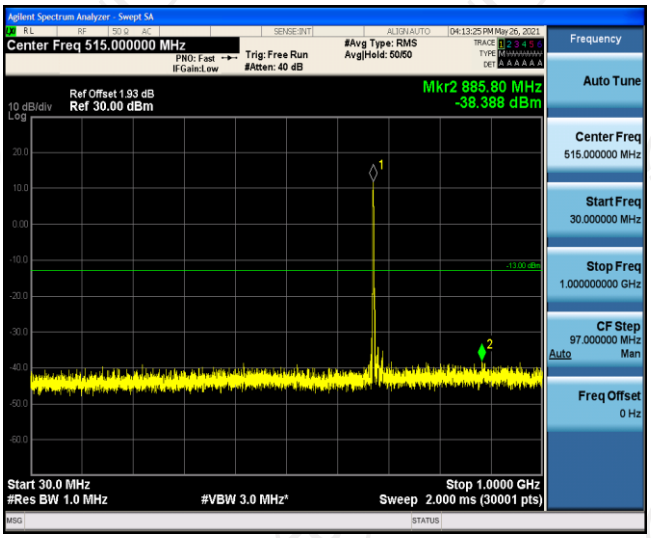
Band71-20MHz-16QAM-133372-1RB#0-Range1:0.009~0.15MHz



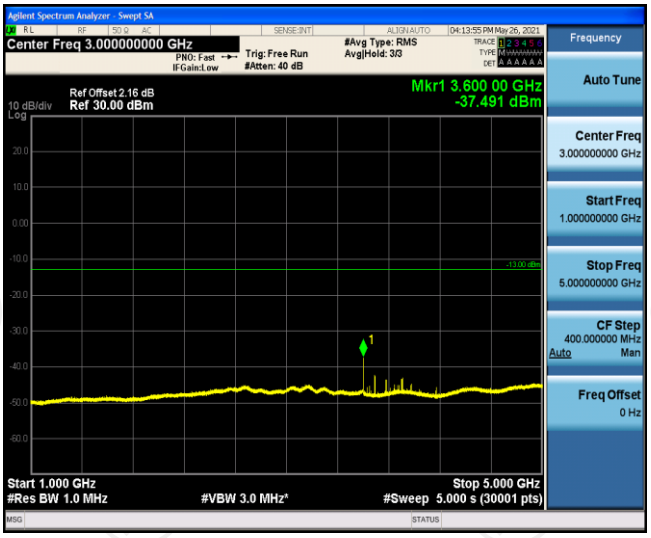
Band71-20MHz-16QAM-133372-1RB#0-Range2:0.15~30MHz



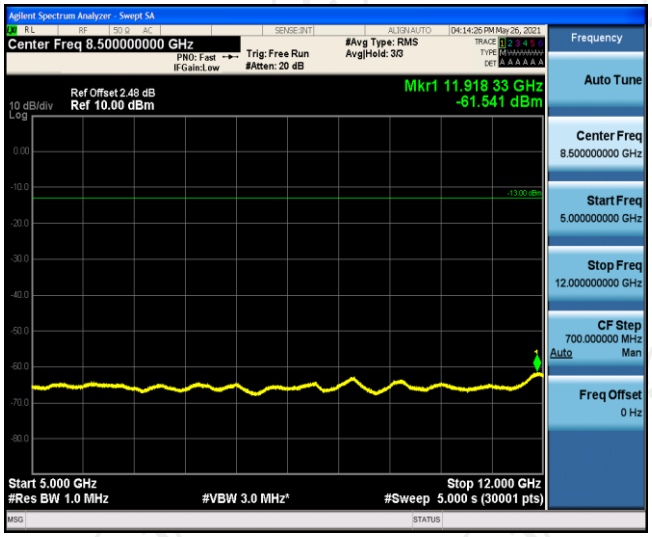
Band71-20MHz-16QAM-133372-1RB#0-Range3:30~1000MHz



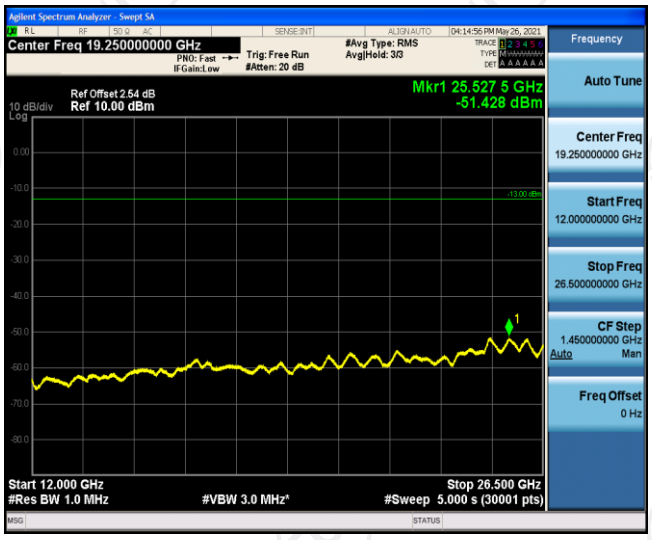
Band71-20MHz-16QAM-133372-1RB#0-Range4:1000~5000MHz



Band71-20MHz-16QAM-133372-1RB#0-Range5:5000~12000MHz



Band71-20MHz-16QAM-133372-1RB#0-Range6:12000~26500MHz



Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	VL	NT	-15.54	-0.023351	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	VN	NT	1.67	0.002509	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	VH	NT	-12.49	-0.018768	±2.5	PASS
Band71	5MHz	QPSK	133297	25RB#0	VL	NT	-11.94	-0.017546	±2.5	PASS
Band71	5MHz	QPSK	133297	25RB#0	VN	NT	-18.40	-0.027039	±2.5	PASS
Band71	5MHz	QPSK	133297	25RB#0	VH	NT	-6.92	-0.010169	±2.5	PASS
Band71	5MHz	QPSK	133447	25RB#0	VL	NT	-13.07	-0.018792	±2.5	PASS
Band71	5MHz	QPSK	133447	25RB#0	VN	NT	-18.30	-0.026312	±2.5	PASS
Band71	5MHz	QPSK	133447	25RB#0	VH	NT	-10.69	-0.015370	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	VL	NT	34.53	0.051886	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	VN	NT	-4.32	-0.006491	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	VH	NT	30.97	0.046536	±2.5	PASS
Band71	5MHz	16QAM	133297	25RB#0	VL	NT	-6.79	-0.009978	±2.5	PASS
Band71	5MHz	16QAM	133297	25RB#0	VN	NT	-15.12	-0.022219	±2.5	PASS
Band71	5MHz	16QAM	133297	25RB#0	VH	NT	-13.52	-0.019868	±2.5	PASS
Band71	5MHz	16QAM	133447	25RB#0	VL	NT	-12.56	-0.018059	±2.5	PASS
Band71	5MHz	16QAM	133447	25RB#0	VN	NT	-19.64	-0.028239	±2.5	PASS

Band71	5MHz	16QAM	133447	25RB#0	VH	NT	-10.67	-0.015341	±2.5	PASS
Band71	10MHz	QPSK	133172	50RB#0	VL	NT	-11.87	-0.017769	±2.5	PASS
Band71	10MHz	QPSK	133172	50RB#0	VN	NT	-13.30	-0.019910	±2.5	PASS
Band71	10MHz	QPSK	133172	50RB#0	VH	NT	-9.77	-0.014626	±2.5	PASS
Band71	10MHz	QPSK	133297	50RB#0	VL	NT	-2.50	-0.003674	±2.5	PASS
Band71	10MHz	QPSK	133297	50RB#0	VN	NT	-7.74	-0.011374	±2.5	PASS
Band71	10MHz	QPSK	133297	50RB#0	VH	NT	-7.14	-0.010492	±2.5	PASS
Band71	10MHz	QPSK	133422	50RB#0	VL	NT	-7.95	-0.011472	±2.5	PASS
Band71	10MHz	QPSK	133422	50RB#0	VN	NT	-9.13	-0.013175	±2.5	PASS
Band71	10MHz	QPSK	133422	50RB#0	VH	NT	-12.16	-0.017547	±2.5	PASS
Band71	10MHz	16QAM	133172	50RB#0	VL	NT	-9.73	-0.014566	±2.5	PASS
Band71	10MHz	16QAM	133172	50RB#0	VN	NT	-12.03	-0.018009	±2.5	PASS
Band71	10MHz	16QAM	133172	50RB#0	VH	NT	-12.40	-0.018563	±2.5	PASS
Band71	10MHz	16QAM	133297	50RB#0	VL	NT	-8.63	-0.012682	±2.5	PASS
Band71	10MHz	16QAM	133297	50RB#0	VN	NT	-10.83	-0.015915	±2.5	PASS
Band71	10MHz	16QAM	133297	50RB#0	VH	NT	-9.71	-0.014269	±2.5	PASS
Band71	10MHz	16QAM	133422	50RB#0	VL	NT	-12.02	-0.017345	±2.5	PASS
Band71	10MHz	16QAM	133422	50RB#0	VN	NT	-9.37	-0.013521	±2.5	PASS
Band71	10MHz	16QAM	133422	50RB#0	VH	NT	-12.00	-0.017316	±2.5	PASS
Band71	15MHz	QPSK	133197	75RB#0	VL	NT	-58.48	-0.087218	±2.5	PASS
Band71	15MHz	QPSK	133197	75RB#0	VN	NT	-31.47	-0.046935	±2.5	PASS

Band71	15MHz	QPSK	133197	75RB#0	VH	NT	-70.24	-0.104758	±2.5	PASS
Band71	15MHz	QPSK	133297	75RB#0	VL	NT	-19.03	-0.027965	±2.5	PASS
Band71	15MHz	QPSK	133297	75RB#0	VN	NT	-19.03	-0.027965	±2.5	PASS
Band71	15MHz	QPSK	133297	75RB#0	VH	NT	-18.17	-0.026701	±2.5	PASS
Band71	15MHz	QPSK	133397	75RB#0	VL	NT	-22.83	-0.033063	±2.5	PASS
Band71	15MHz	QPSK	133397	75RB#0	VN	NT	-19.31	-0.027965	±2.5	PASS
Band71	15MHz	QPSK	133397	75RB#0	VH	NT	-22.00	-0.031861	±2.5	PASS
Band71	15MHz	16QAM	133197	75RB#0	VL	NT	14.98	0.022342	±2.5	PASS
Band71	15MHz	16QAM	133197	75RB#0	VN	NT	-5.99	-0.008934	±2.5	PASS
Band71	15MHz	16QAM	133197	75RB#0	VH	NT	20.69	0.030858	±2.5	PASS
Band71	15MHz	16QAM	133297	75RB#0	VL	NT	11.34	0.016664	±2.5	PASS
Band71	15MHz	16QAM	133297	75RB#0	VN	NT	-12.55	-0.018442	±2.5	PASS
Band71	15MHz	16QAM	133297	75RB#0	VH	NT	10.44	0.015342	±2.5	PASS
Band71	15MHz	16QAM	133397	75RB#0	VL	NT	-33.40	-0.048371	±2.5	PASS
Band71	15MHz	16QAM	133397	75RB#0	VN	NT	-12.43	-0.018001	±2.5	PASS
Band71	15MHz	16QAM	133397	75RB#0	VH	NT	-46.28	-0.067024	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VL	NT	-17.41	-0.025869	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	-18.01	-0.026761	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	-19.01	-0.028247	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	5.85	0.008565	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-6.09	-0.008917	±2.5	PASS

Band71	20MHz	QPSK	133322	100RB#0	VH	NT	5.48	0.008023	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	-10.34	-0.015029	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	-14.36	-0.020872	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	-19.73	-0.028677	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VL	NT	-13.15	-0.019539	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VN	NT	-13.42	-0.019941	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VH	NT	-12.00	-0.017831	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VL	NT	-11.40	-0.016691	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VN	NT	-5.66	-0.008287	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VH	NT	10.60	0.015520	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VL	NT	-14.65	-0.021294	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VN	NT	-12.35	-0.017951	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VH	NT	-17.12	-0.024884	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	NV	-30	-11.80	-0.017731	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	-20	-15.41	-0.023156	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	0	5.01	0.007528	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	10	-8.71	-0.013088	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	20	-13.05	-0.019609	±2.5	PASS
Band71	5MHz	QPSK	133297	25RB#0	NV	-30	-10.53	-0.015474	±2.5	PASS

Band71	5MHz	QPSK	133297	25RB#0	NV	-20	-11.86	-0.017428	±2.5	PASS
Band71	5MHz	QPSK	133297	25RB#0	NV	0	-8.96	-0.013167	±2.5	PASS
Band71	5MHz	QPSK	133297	25RB#0	NV	10	-12.06	-0.017722	±2.5	PASS
Band71	5MHz	QPSK	133297	25RB#0	NV	20	-12.45	-0.018295	±2.5	PASS
Band71	5MHz	QPSK	133447	25RB#0	NV	-30	-9.60	-0.013803	±2.5	PASS
Band71	5MHz	QPSK	133447	25RB#0	NV	-20	-12.37	-0.017786	±2.5	PASS
Band71	5MHz	QPSK	133447	25RB#0	NV	0	-10.96	-0.015758	±2.5	PASS
Band71	5MHz	QPSK	133447	25RB#0	NV	10	-9.98	-0.014349	±2.5	PASS
Band71	5MHz	QPSK	133447	25RB#0	NV	20	-6.61	-0.009504	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	-30	22.76	0.034200	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	-20	-13.40	-0.020135	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	0	-9.21	-0.013839	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	10	-12.10	-0.018182	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	20	-13.32	-0.020015	±2.5	PASS
Band71	5MHz	16QAM	133297	25RB#0	NV	-30	-10.10	-0.014842	±2.5	PASS
Band71	5MHz	16QAM	133297	25RB#0	NV	-20	-8.91	-0.013093	±2.5	PASS
Band71	5MHz	16QAM	133297	25RB#0	NV	0	-9.88	-0.014519	±2.5	PASS
Band71	5MHz	16QAM	133297	25RB#0	NV	10	-7.34	-0.010786	±2.5	PASS
Band71	5MHz	16QAM	133297	25RB#0	NV	20	-8.75	-0.012858	±2.5	PASS
Band71	5MHz	16QAM	133447	25RB#0	NV	-30	-7.57	-0.010884	±2.5	PASS
Band71	5MHz	16QAM	133447	25RB#0	NV	-20	-13.86	-0.019928	±2.5	PASS

Band71	5MHz	16QAM	133447	25RB#0	NV	0	-13.18	-0.018950	±2.5	PASS
Band71	5MHz	16QAM	133447	25RB#0	NV	10	-7.31	-0.010510	±2.5	PASS
Band71	5MHz	16QAM	133447	25RB#0	NV	20	-9.73	-0.013990	±2.5	PASS
Band71	10MHz	QPSK	133172	50RB#0	NV	-30	-10.20	-0.015269	±2.5	PASS
Band71	10MHz	QPSK	133172	50RB#0	NV	-20	-14.93	-0.022350	±2.5	PASS
Band71	10MHz	QPSK	133172	50RB#0	NV	0	-7.21	-0.010793	±2.5	PASS
Band71	10MHz	QPSK	133172	50RB#0	NV	10	-11.67	-0.017470	±2.5	PASS
Band71	10MHz	QPSK	133172	50RB#0	NV	20	-6.15	-0.009207	±2.5	PASS
Band71	10MHz	QPSK	133297	50RB#0	NV	-30	-6.94	-0.010198	±2.5	PASS
Band71	10MHz	QPSK	133297	50RB#0	NV	-20	-11.33	-0.016650	±2.5	PASS
Band71	10MHz	QPSK	133297	50RB#0	NV	0	-10.23	-0.015033	±2.5	PASS
Band71	10MHz	QPSK	133297	50RB#0	NV	10	-8.63	-0.012682	±2.5	PASS
Band71	10MHz	QPSK	133297	50RB#0	NV	20	-9.47	-0.013916	±2.5	PASS
Band71	10MHz	QPSK	133422	50RB#0	NV	-30	-9.88	-0.014257	±2.5	PASS
Band71	10MHz	QPSK	133422	50RB#0	NV	-20	-8.58	-0.012381	±2.5	PASS
Band71	10MHz	QPSK	133422	50RB#0	NV	0	-10.64	-0.015354	±2.5	PASS
Band71	10MHz	QPSK	133422	50RB#0	NV	10	-10.51	-0.015166	±2.5	PASS
Band71	10MHz	QPSK	133422	50RB#0	NV	20	-10.93	-0.015772	±2.5	PASS
Band71	10MHz	16QAM	133172	50RB#0	NV	-30	-7.87	-0.011781	±2.5	PASS
Band71	10MHz	16QAM	133172	50RB#0	NV	-20	-7.68	-0.011497	±2.5	PASS
Band71	10MHz	16QAM	133172	50RB#0	NV	0	-5.87	-0.008787	±2.5	PASS

Band71	10MHz	16QAM	133172	50RB#0	NV	10	-8.60	-0.012874	±2.5	PASS
Band71	10MHz	16QAM	133172	50RB#0	NV	20	-4.53	-0.006781	±2.5	PASS
Band71	10MHz	16QAM	133297	50RB#0	NV	-30	-10.86	-0.015959	±2.5	PASS
Band71	10MHz	16QAM	133297	50RB#0	NV	-20	-9.21	-0.013534	±2.5	PASS
Band71	10MHz	16QAM	133297	50RB#0	NV	0	-11.47	-0.016855	±2.5	PASS
Band71	10MHz	16QAM	133297	50RB#0	NV	10	-9.86	-0.014489	±2.5	PASS
Band71	10MHz	16QAM	133297	50RB#0	NV	20	-6.42	-0.009434	±2.5	PASS
Band71	10MHz	16QAM	133422	50RB#0	NV	-30	-9.48	-0.013680	±2.5	PASS
Band71	10MHz	16QAM	133422	50RB#0	NV	-20	-12.29	-0.017734	±2.5	PASS
Band71	10MHz	16QAM	133422	50RB#0	NV	0	-14.98	-0.021616	±2.5	PASS
Band71	10MHz	16QAM	133422	50RB#0	NV	10	-5.76	-0.008312	±2.5	PASS
Band71	10MHz	16QAM	133422	50RB#0	NV	20	-15.28	-0.022049	±2.5	PASS
Band71	15MHz	QPSK	133197	75RB#0	NV	-30	-71.68	-0.106905	±2.5	PASS
Band71	15MHz	QPSK	133197	75RB#0	NV	-20	-75.06	-0.111946	±2.5	PASS
Band71	15MHz	QPSK	133197	75RB#0	NV	0	-69.02	-0.102938	±2.5	PASS
Band71	15MHz	QPSK	133197	75RB#0	NV	10	-58.77	-0.087651	±2.5	PASS
Band71	15MHz	QPSK	133197	75RB#0	NV	20	-55.27	-0.082431	±2.5	PASS
Band71	15MHz	QPSK	133297	75RB#0	NV	-30	-39.83	-0.058530	±2.5	PASS
Band71	15MHz	QPSK	133297	75RB#0	NV	-20	-56.10	-0.082439	±2.5	PASS
Band71	15MHz	QPSK	133297	75RB#0	NV	0	-68.88	-0.101220	±2.5	PASS
Band71	15MHz	QPSK	133297	75RB#0	NV	10	-82.86	-0.121763	±2.5	PASS

Band71	15MHz	QPSK	133297	75RB#0	NV	20	-84.84	-0.124673	±2.5	PASS
Band71	15MHz	QPSK	133397	75RB#0	NV	-30	-22.69	-0.032860	±2.5	PASS
Band71	15MHz	QPSK	133397	75RB#0	NV	-20	-20.67	-0.029935	±2.5	PASS
Band71	15MHz	QPSK	133397	75RB#0	NV	0	-16.61	-0.024055	±2.5	PASS
Band71	15MHz	QPSK	133397	75RB#0	NV	10	-23.90	-0.034613	±2.5	PASS
Band71	15MHz	QPSK	133397	75RB#0	NV	20	-20.14	-0.029167	±2.5	PASS
Band71	15MHz	16QAM	133197	75RB#0	NV	-30	20.74	0.030932	±2.5	PASS
Band71	15MHz	16QAM	133197	75RB#0	NV	-20	16.25	0.024236	±2.5	PASS
Band71	15MHz	16QAM	133197	75RB#0	NV	0	19.73	0.029426	±2.5	PASS
Band71	15MHz	16QAM	133197	75RB#0	NV	10	23.67	0.035302	±2.5	PASS
Band71	15MHz	16QAM	133197	75RB#0	NV	20	26.21	0.039090	±2.5	PASS
Band71	15MHz	16QAM	133297	75RB#0	NV	-30	10.99	0.016150	±2.5	PASS
Band71	15MHz	16QAM	133297	75RB#0	NV	-20	16.87	0.024791	±2.5	PASS
Band71	15MHz	16QAM	133297	75RB#0	NV	0	11.13	0.016356	±2.5	PASS
Band71	15MHz	16QAM	133297	75RB#0	NV	10	13.73	0.020176	±2.5	PASS
Band71	15MHz	16QAM	133297	75RB#0	NV	20	18.84	0.027686	±2.5	PASS
Band71	15MHz	16QAM	133397	75RB#0	NV	-30	-56.72	-0.082143	±2.5	PASS
Band71	15MHz	16QAM	133397	75RB#0	NV	-20	-62.36	-0.090311	±2.5	PASS
Band71	15MHz	16QAM	133397	75RB#0	NV	0	-66.62	-0.096481	±2.5	PASS
Band71	15MHz	16QAM	133397	75RB#0	NV	10	-69.14	-0.100130	±2.5	PASS
Band71	15MHz	16QAM	133397	75RB#0	NV	20	-70.54	-0.102158	±2.5	PASS

Band71	20MHz	QPSK	133222	100RB#0	NV	-30	-21.56	-0.032036	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-20	-19.80	-0.029421	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	0	-18.60	-0.027637	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	-17.25	-0.025632	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	-14.95	-0.022214	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	4.78	0.006999	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	7.22	0.010571	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	6.04	0.008843	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	11.82	0.017306	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	10.50	0.015373	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	-15.06	-0.021890	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-13.39	-0.019462	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	0	-5.88	-0.008547	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	10	-12.43	-0.018067	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	20	-7.64	-0.011105	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-30	21.56	0.032036	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-20	-8.05	-0.011961	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	0	-5.59	-0.008306	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	10	-13.19	-0.019599	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	20	-10.26	-0.015245	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-30	-9.27	-0.013572	±2.5	PASS

Band71	20MHz	16QAM	133322	100RB#0	NV	-20	-7.68	-0.011245	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	0	-9.44	-0.013821	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	10	-9.73	-0.014246	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	20	-12.42	-0.018184	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-30	-11.17	-0.016235	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-20	-13.73	-0.019956	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	0	-10.39	-0.015102	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	10	-12.93	-0.018794	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	20	-13.43	-0.019520	±2.5	PASS