

# 1. Frequency Stability

## 1.1 B2\_1.4MHz

### 1.1.1 Test Result

Band: 2 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1850.7	6	0	20	3.4	-3.354	-0.0018	-2.5 to 2.5	Pass
					3.7	0.097	0.0001	-2.5 to 2.5	Pass
					4.2	-1.279	-0.0007	-2.5 to 2.5	Pass
				-30	3.7	-0.660	-0.0004	-2.5 to 2.5	Pass
				-20	3.7	-2.600	-0.0014	-2.5 to 2.5	Pass
				-10	3.7	-2.190	-0.0012	-2.5 to 2.5	Pass
				0	3.7	-2.946	-0.0016	-2.5 to 2.5	Pass
				10	3.7	-1.703	-0.0009	-2.5 to 2.5	Pass
				30	3.7	-2.215	-0.0012	-2.5 to 2.5	Pass
	40	3.7	-1.395	-0.0008	-2.5 to 2.5	Pass			
	50	3.7	-0.855	-0.0005	-2.5 to 2.5	Pass			
	1880	6	0	20	3.4	-2.118	-0.0011	-2.5 to 2.5	Pass
					3.7	-3.377	-0.0018	-2.5 to 2.5	Pass
					4.2	-1.615	-0.0009	-2.5 to 2.5	Pass
				-30	3.7	-3.230	-0.0017	-2.5 to 2.5	Pass
				-20	3.7	-1.941	-0.0010	-2.5 to 2.5	Pass
				-10	3.7	-3.764	-0.0020	-2.5 to 2.5	Pass
				0	3.7	-1.833	-0.0010	-2.5 to 2.5	Pass
				10	3.7	-4.366	-0.0023	-2.5 to 2.5	Pass
				30	3.7	-2.717	-0.0014	-2.5 to 2.5	Pass
	40	3.7	-2.270	-0.0012	-2.5 to 2.5	Pass			
	50	3.7	-1.817	-0.0010	-2.5 to 2.5	Pass			
	1909.3	6	0	20	3.4	-0.112	-0.0001	-2.5 to 2.5	Pass
					3.7	-0.565	-0.0003	-2.5 to 2.5	Pass
					4.2	1.202	0.0006	-2.5 to 2.5	Pass
				-30	3.7	0.016	0.0000	-2.5 to 2.5	Pass
				-20	3.7	2.323	0.0012	-2.5 to 2.5	Pass
-10				3.7	0.950	0.0005	-2.5 to 2.5	Pass	
0				3.7	0.597	0.0003	-2.5 to 2.5	Pass	
10				3.7	-0.757	-0.0004	-2.5 to 2.5	Pass	
30				3.7	1.140	0.0006	-2.5 to 2.5	Pass	
40	3.7	0.575	0.0003	-2.5 to 2.5	Pass				
50	3.7	1.564	0.0008	-2.5 to 2.5	Pass				
16QAM	1850.7	6	0	20	3.4	-2.216	-0.0012	-2.5 to 2.5	Pass
					3.7	-2.753	-0.0015	-2.5 to 2.5	Pass
					4.2	-2.164	-0.0012	-2.5 to 2.5	Pass
				-30	3.7	-0.776	-0.0004	-2.5 to 2.5	Pass
				-20	3.7	-3.597	-0.0019	-2.5 to 2.5	Pass
				-10	3.7	-2.033	-0.0011	-2.5 to 2.5	Pass
				0	3.7	-2.080	-0.0011	-2.5 to 2.5	Pass
				10	3.7	-0.511	-0.0003	-2.5 to 2.5	Pass
				30	3.7	-1.561	-0.0008	-2.5 to 2.5	Pass
	40	3.7	-3.111	-0.0017	-2.5 to 2.5	Pass			
	50	3.7	-2.899	-0.0016	-2.5 to 2.5	Pass			
	1880	6	0	20	3.4	-3.975	-0.0021	-2.5 to 2.5	Pass
					3.7	-3.209	-0.0017	-2.5 to 2.5	Pass
					4.2	-4.337	-0.0023	-2.5 to 2.5	Pass
				-30	3.7	-4.253	-0.0023	-2.5 to 2.5	Pass
-20				3.7	-2.891	-0.0015	-2.5 to 2.5	Pass	

	1909.3	6	0	-10	3.7	-4.441	-0.0024	-2.5 to 2.5	Pass	
				0	3.7	-2.177	-0.0012	-2.5 to 2.5	Pass	
				10	3.7	-4.495	-0.0024	-2.5 to 2.5	Pass	
				30	3.7	-3.477	-0.0018	-2.5 to 2.5	Pass	
				40	3.7	-2.272	-0.0012	-2.5 to 2.5	Pass	
				50	3.7	-4.504	-0.0024	-2.5 to 2.5	Pass	
					20	3.4	-0.146	-0.0001	-2.5 to 2.5	Pass
						3.7	0.501	0.0003	-2.5 to 2.5	Pass
						4.2	0.740	0.0004	-2.5 to 2.5	Pass
					-30	3.7	-0.491	-0.0003	-2.5 to 2.5	Pass
					-20	3.7	-1.522	-0.0008	-2.5 to 2.5	Pass
					-10	3.7	-0.480	-0.0003	-2.5 to 2.5	Pass
					0	3.7	-0.817	-0.0004	-2.5 to 2.5	Pass
					10	3.7	0.433	0.0002	-2.5 to 2.5	Pass
					30	3.7	-0.569	-0.0003	-2.5 to 2.5	Pass
					40	3.7	-1.304	-0.0007	-2.5 to 2.5	Pass
					50	3.7	-0.719	-0.0004	-2.5 to 2.5	Pass

## 1.2 B2\_3MHz

### 1.2.1 Test Result

Band: 2 / Bandwidth: 3MHz													
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict				
		Size	Offset				Result	Limit					
QPSK	1851.5	15	0	20	3.4	-2.779	-0.0015	-2.5 to 2.5	Pass				
					3.7	-3.320	-0.0018	-2.5 to 2.5	Pass				
					4.2	-3.082	-0.0017	-2.5 to 2.5	Pass				
				-30	3.7	-2.475	-0.0013	-2.5 to 2.5	Pass				
				-20	3.7	-2.040	-0.0011	-2.5 to 2.5	Pass				
				-10	3.7	-2.879	-0.0016	-2.5 to 2.5	Pass				
				0	3.7	-3.383	-0.0018	-2.5 to 2.5	Pass				
				10	3.7	-1.749	-0.0009	-2.5 to 2.5	Pass				
				30	3.7	-2.683	-0.0014	-2.5 to 2.5	Pass				
				40	3.7	-1.721	-0.0009	-2.5 to 2.5	Pass				
				50	3.7	-1.283	-0.0007	-2.5 to 2.5	Pass				
								20	3.4	-3.861	-0.0021	-2.5 to 2.5	Pass
									3.7	-2.820	-0.0015	-2.5 to 2.5	Pass
									4.2	-2.400	-0.0013	-2.5 to 2.5	Pass
								-30	3.7	-1.857	-0.0010	-2.5 to 2.5	Pass
					-20	3.7	-2.995	-0.0016	-2.5 to 2.5	Pass			
					-10	3.7	-2.757	-0.0015	-2.5 to 2.5	Pass			
					0	3.7	-1.439	-0.0008	-2.5 to 2.5	Pass			
					10	3.7	-2.774	-0.0015	-2.5 to 2.5	Pass			
					30	3.7	-4.300	-0.0023	-2.5 to 2.5	Pass			
					40	3.7	-3.017	-0.0016	-2.5 to 2.5	Pass			
					50	3.7	-3.789	-0.0020	-2.5 to 2.5	Pass			
		1908.5	15	0	20	3.4	1.247	0.0007	-2.5 to 2.5	Pass			
									3.7	2.133	0.0011	-2.5 to 2.5	Pass
									4.2	0.119	0.0001	-2.5 to 2.5	Pass
								-30	3.7	1.657	0.0009	-2.5 to 2.5	Pass
								-20	3.7	0.972	0.0005	-2.5 to 2.5	Pass
								-10	3.7	0.989	0.0005	-2.5 to 2.5	Pass
								0	3.7	0.929	0.0005	-2.5 to 2.5	Pass
								10	3.7	-1.173	-0.0006	-2.5 to 2.5	Pass
							30	3.7	0.187	0.0001	-2.5 to 2.5	Pass	
							40	3.7	0.466	0.0002	-2.5 to 2.5	Pass	

16QAM	1851.5	15	0	50	3.7	-1.204	-0.0006	-2.5 to 2.5	Pass
				20	3.4	-0.742	-0.0004	-2.5 to 2.5	Pass
					3.7	-0.335	-0.0002	-2.5 to 2.5	Pass
					4.2	-1.120	-0.0006	-2.5 to 2.5	Pass
				-30	3.7	-0.853	-0.0005	-2.5 to 2.5	Pass
				-20	3.7	-2.638	-0.0014	-2.5 to 2.5	Pass
				-10	3.7	-2.556	-0.0014	-2.5 to 2.5	Pass
				0	3.7	-3.007	-0.0016	-2.5 to 2.5	Pass
				10	3.7	-3.768	-0.0020	-2.5 to 2.5	Pass
				30	3.7	-2.325	-0.0013	-2.5 to 2.5	Pass
	40	3.7	-2.330	-0.0013	-2.5 to 2.5	Pass			
	50	3.7	-2.027	-0.0011	-2.5 to 2.5	Pass			
	1880	15	0	20	3.4	-3.547	-0.0019	-2.5 to 2.5	Pass
					3.7	-3.747	-0.0020	-2.5 to 2.5	Pass
					4.2	-2.732	-0.0015	-2.5 to 2.5	Pass
				-30	3.7	-3.248	-0.0017	-2.5 to 2.5	Pass
				-20	3.7	-3.983	-0.0021	-2.5 to 2.5	Pass
				-10	3.7	-3.396	-0.0018	-2.5 to 2.5	Pass
				0	3.7	-3.446	-0.0018	-2.5 to 2.5	Pass
				10	3.7	-3.035	-0.0016	-2.5 to 2.5	Pass
				30	3.7	-2.838	-0.0015	-2.5 to 2.5	Pass
				40	3.7	-5.643	-0.0030	-2.5 to 2.5	Pass
	50	3.7	-2.395	-0.0013	-2.5 to 2.5	Pass			
	1908.5	15	0	20	3.4	0.264	0.0001	-2.5 to 2.5	Pass
					3.7	-0.824	-0.0004	-2.5 to 2.5	Pass
					4.2	0.458	0.0002	-2.5 to 2.5	Pass
				-30	3.7	-0.485	-0.0003	-2.5 to 2.5	Pass
				-20	3.7	-0.494	-0.0003	-2.5 to 2.5	Pass
				-10	3.7	0.105	0.0001	-2.5 to 2.5	Pass
				0	3.7	0.475	0.0002	-2.5 to 2.5	Pass
10				3.7	1.056	0.0006	-2.5 to 2.5	Pass	
30				3.7	0.636	0.0003	-2.5 to 2.5	Pass	
40				3.7	0.708	0.0004	-2.5 to 2.5	Pass	
50	3.7	1.644	0.0009	-2.5 to 2.5	Pass				

### 1.3 B2\_5MHz

#### 1.3.1 Test Result

Band: 2 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1852.5	25	0	20	3.4	-1.804	-0.0010	-2.5 to 2.5	Pass
					3.7	-3.768	-0.0020	-2.5 to 2.5	Pass
					4.2	-2.050	-0.0011	-2.5 to 2.5	Pass
				-30	3.7	-0.908	-0.0005	-2.5 to 2.5	Pass
				-20	3.7	-1.786	-0.0010	-2.5 to 2.5	Pass
				-10	3.7	-1.153	-0.0006	-2.5 to 2.5	Pass
				0	3.7	-0.246	-0.0001	-2.5 to 2.5	Pass
				10	3.7	-1.720	-0.0009	-2.5 to 2.5	Pass
				30	3.7	-0.819	-0.0004	-2.5 to 2.5	Pass
				40	3.7	-3.109	-0.0017	-2.5 to 2.5	Pass
	50	3.7	-3.694	-0.0020	-2.5 to 2.5	Pass			
	1880	25	0	20	3.4	-3.331	-0.0018	-2.5 to 2.5	Pass
					3.7	-3.236	-0.0017	-2.5 to 2.5	Pass
					4.2	-4.165	-0.0022	-2.5 to 2.5	Pass
-30				3.7	-4.822	-0.0026	-2.5 to 2.5	Pass	

				-20	3.7	-2.354	-0.0013	-2.5 to 2.5	Pass
				-10	3.7	-2.136	-0.0011	-2.5 to 2.5	Pass
				0	3.7	-3.134	-0.0017	-2.5 to 2.5	Pass
				10	3.7	-4.509	-0.0024	-2.5 to 2.5	Pass
				30	3.7	-3.860	-0.0021	-2.5 to 2.5	Pass
				40	3.7	-3.149	-0.0017	-2.5 to 2.5	Pass
	50	3.7	-2.740	-0.0015	-2.5 to 2.5	Pass			
	1907.5	25	0	20	3.4	0.410	0.0002	-2.5 to 2.5	Pass
					3.7	0.222	0.0001	-2.5 to 2.5	Pass
					4.2	1.325	0.0007	-2.5 to 2.5	Pass
				-30	3.7	-0.001	0.0000	-2.5 to 2.5	Pass
				-20	3.7	1.196	0.0006	-2.5 to 2.5	Pass
				-10	3.7	0.530	0.0003	-2.5 to 2.5	Pass
				0	3.7	0.857	0.0004	-2.5 to 2.5	Pass
				10	3.7	1.673	0.0009	-2.5 to 2.5	Pass
				30	3.7	1.596	0.0008	-2.5 to 2.5	Pass
				40	3.7	0.488	0.0003	-2.5 to 2.5	Pass
				50	3.7	0.158	0.0001	-2.5 to 2.5	Pass
16QAM				1852.5	25	0	20	3.4	-3.135
	3.7	-2.507	-0.0014					-2.5 to 2.5	Pass
	4.2	-2.696	-0.0015					-2.5 to 2.5	Pass
	-30	3.7	-2.506				-0.0014	-2.5 to 2.5	Pass
	-20	3.7	-0.328				-0.0002	-2.5 to 2.5	Pass
	-10	3.7	-2.566				-0.0014	-2.5 to 2.5	Pass
	0	3.7	-2.315				-0.0012	-2.5 to 2.5	Pass
	10	3.7	-2.906				-0.0016	-2.5 to 2.5	Pass
	30	3.7	-3.046				-0.0016	-2.5 to 2.5	Pass
	40	3.7	-2.233				-0.0012	-2.5 to 2.5	Pass
	50	3.7	-1.905				-0.0010	-2.5 to 2.5	Pass
	1880	25	0				20	3.4	-2.510
				3.7	-0.895	-0.0005		-2.5 to 2.5	Pass
				4.2	-3.588	-0.0019		-2.5 to 2.5	Pass
				-30	3.7	-2.928	-0.0016	-2.5 to 2.5	Pass
				-20	3.7	-5.175	-0.0028	-2.5 to 2.5	Pass
				-10	3.7	-4.141	-0.0022	-2.5 to 2.5	Pass
				0	3.7	-3.365	-0.0018	-2.5 to 2.5	Pass
				10	3.7	-2.304	-0.0012	-2.5 to 2.5	Pass
				30	3.7	-3.123	-0.0017	-2.5 to 2.5	Pass
				40	3.7	-2.940	-0.0016	-2.5 to 2.5	Pass
				50	3.7	-3.050	-0.0016	-2.5 to 2.5	Pass
				1907.5	25	0	20	3.4	-1.892
	3.7	-0.534	-0.0003					-2.5 to 2.5	Pass
	4.2	-1.807	-0.0009					-2.5 to 2.5	Pass
	-30	3.7	-0.934				-0.0005	-2.5 to 2.5	Pass
	-20	3.7	-0.964				-0.0005	-2.5 to 2.5	Pass
	-10	3.7	-0.890				-0.0005	-2.5 to 2.5	Pass
	0	3.7	-0.273				-0.0001	-2.5 to 2.5	Pass
	10	3.7	0.473				0.0002	-2.5 to 2.5	Pass
	30	3.7	-0.406				-0.0002	-2.5 to 2.5	Pass
	40	3.7	-0.057				0.0000	-2.5 to 2.5	Pass
	50	3.7	0.914				0.0005	-2.5 to 2.5	Pass

## 1.4 B2\_10MHz

### 1.4.1 Test Result

Band: 2 / Bandwidth: 10MHz

Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1855	50	0	20	3.4	-3.193	-0.0017	-2.5 to 2.5	Pass
					3.7	-4.098	-0.0022	-2.5 to 2.5	Pass
					4.2	-4.219	-0.0023	-2.5 to 2.5	Pass
				-30	3.7	-3.849	-0.0021	-2.5 to 2.5	Pass
				-20	3.7	-2.918	-0.0016	-2.5 to 2.5	Pass
				-10	3.7	-2.671	-0.0014	-2.5 to 2.5	Pass
				0	3.7	-2.717	-0.0015	-2.5 to 2.5	Pass
				10	3.7	-2.275	-0.0012	-2.5 to 2.5	Pass
				30	3.7	-2.428	-0.0013	-2.5 to 2.5	Pass
				40	3.7	-3.929	-0.0021	-2.5 to 2.5	Pass
	50	3.7	-3.327	-0.0018	-2.5 to 2.5	Pass			
	1880	50	0	20	3.4	-3.598	-0.0019	-2.5 to 2.5	Pass
					3.7	-4.648	-0.0025	-2.5 to 2.5	Pass
					4.2	-3.832	-0.0020	-2.5 to 2.5	Pass
				-30	3.7	-2.919	-0.0016	-2.5 to 2.5	Pass
				-20	3.7	-4.479	-0.0024	-2.5 to 2.5	Pass
				-10	3.7	-4.537	-0.0024	-2.5 to 2.5	Pass
				0	3.7	-2.512	-0.0013	-2.5 to 2.5	Pass
				10	3.7	-2.074	-0.0011	-2.5 to 2.5	Pass
				30	3.7	-3.792	-0.0020	-2.5 to 2.5	Pass
				40	3.7	-4.652	-0.0025	-2.5 to 2.5	Pass
	50	3.7	-2.987	-0.0016	-2.5 to 2.5	Pass			
	1905	50	0	20	3.4	1.534	0.0008	-2.5 to 2.5	Pass
					3.7	1.894	0.0010	-2.5 to 2.5	Pass
					4.2	0.470	0.0002	-2.5 to 2.5	Pass
				-30	3.7	0.975	0.0005	-2.5 to 2.5	Pass
				-20	3.7	1.369	0.0007	-2.5 to 2.5	Pass
				-10	3.7	0.209	0.0001	-2.5 to 2.5	Pass
				0	3.7	2.019	0.0011	-2.5 to 2.5	Pass
				10	3.7	0.843	0.0004	-2.5 to 2.5	Pass
30				3.7	1.136	0.0006	-2.5 to 2.5	Pass	
40				3.7	0.376	0.0002	-2.5 to 2.5	Pass	
50	3.7	1.058	0.0006	-2.5 to 2.5	Pass				
16QAM	1855	50	0	20	3.4	-3.358	-0.0018	-2.5 to 2.5	Pass
					3.7	-4.156	-0.0022	-2.5 to 2.5	Pass
					4.2	-4.879	-0.0026	-2.5 to 2.5	Pass
				-30	3.7	-3.005	-0.0016	-2.5 to 2.5	Pass
				-20	3.7	-0.776	-0.0004	-2.5 to 2.5	Pass
				-10	3.7	-2.522	-0.0014	-2.5 to 2.5	Pass
				0	3.7	-2.127	-0.0011	-2.5 to 2.5	Pass
				10	3.7	-1.788	-0.0010	-2.5 to 2.5	Pass
				30	3.7	-1.792	-0.0010	-2.5 to 2.5	Pass
				40	3.7	-1.756	-0.0009	-2.5 to 2.5	Pass
	50	3.7	-2.520	-0.0014	-2.5 to 2.5	Pass			
	1880	50	0	20	3.4	-1.322	-0.0007	-2.5 to 2.5	Pass
					3.7	-3.409	-0.0018	-2.5 to 2.5	Pass
					4.2	-4.014	-0.0021	-2.5 to 2.5	Pass
				-30	3.7	-3.256	-0.0017	-2.5 to 2.5	Pass
				-20	3.7	-2.114	-0.0011	-2.5 to 2.5	Pass
				-10	3.7	-2.979	-0.0016	-2.5 to 2.5	Pass
				0	3.7	-1.893	-0.0010	-2.5 to 2.5	Pass
				10	3.7	-4.007	-0.0021	-2.5 to 2.5	Pass
				30	3.7	-3.678	-0.0020	-2.5 to 2.5	Pass
				40	3.7	-5.156	-0.0027	-2.5 to 2.5	Pass
	50	3.7	-3.73	-0.0020	-2.5 to 2.5	Pass			
	1905	50	0	20	3.4	0.281	0.0001	-2.5 to 2.5	Pass
					3.7	1.637	0.0009	-2.5 to 2.5	Pass

				4.2	-0.538	-0.0003	-2.5 to 2.5	Pass
				-30	3.7	-0.343	-2.5 to 2.5	Pass
				-20	3.7	1.432	-2.5 to 2.5	Pass
				-10	3.7	0.705	-2.5 to 2.5	Pass
				0	3.7	0.363	-2.5 to 2.5	Pass
				10	3.7	0.777	-2.5 to 2.5	Pass
				30	3.7	0.806	-2.5 to 2.5	Pass
				40	3.7	0.586	-2.5 to 2.5	Pass
				50	3.7	0.899	-2.5 to 2.5	Pass

## 1.5 B2\_15MHz

### 1.5.1 Test Result

Band: 2 / Bandwidth: 15MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1857.5	75	0	20	3.4	-3.560	-0.0019	-2.5 to 2.5	Pass	
					3.7	-1.862	-0.0010	-2.5 to 2.5	Pass	
					4.2	-3.091	-0.0017	-2.5 to 2.5	Pass	
				-30	3.7	-3.946	-0.0021	-2.5 to 2.5	Pass	
					-20	3.7	-3.561	-0.0019	-2.5 to 2.5	Pass
						3.7	-4.249	-0.0023	-2.5 to 2.5	Pass
				0	3.7	-4.117	-0.0022	-2.5 to 2.5	Pass	
					10	3.7	-3.477	-0.0019	-2.5 to 2.5	Pass
				30	3.7	-1.404	-0.0008	-2.5 to 2.5	Pass	
	40	3.7	-3.607	-0.0019	-2.5 to 2.5	Pass				
	50	3.7	-3.197	-0.0017	-2.5 to 2.5	Pass				
	1880	75	0	20	3.4	-3.299	-0.0018	-2.5 to 2.5	Pass	
					3.7	-2.253	-0.0012	-2.5 to 2.5	Pass	
					4.2	-3.385	-0.0018	-2.5 to 2.5	Pass	
				-30	3.7	-4.763	-0.0025	-2.5 to 2.5	Pass	
					-20	3.7	-4.148	-0.0022	-2.5 to 2.5	Pass
						3.7	-1.767	-0.0009	-2.5 to 2.5	Pass
				0	3.7	-2.167	-0.0012	-2.5 to 2.5	Pass	
					10	3.7	-3.250	-0.0017	-2.5 to 2.5	Pass
				30	3.7	-1.347	-0.0007	-2.5 to 2.5	Pass	
	40	3.7	-2.057	-0.0011	-2.5 to 2.5	Pass				
	50	3.7	-2.336	-0.0012	-2.5 to 2.5	Pass				
	1902.5	75	0	20	3.4	-2.345	-0.0012	-2.5 to 2.5	Pass	
					3.7	-2.509	-0.0013	-2.5 to 2.5	Pass	
					4.2	-3.283	-0.0017	-2.5 to 2.5	Pass	
				-30	3.7	-4.239	-0.0022	-2.5 to 2.5	Pass	
					-20	3.7	-2.622	-0.0014	-2.5 to 2.5	Pass
3.7						-3.74	-0.0020	-2.5 to 2.5	Pass	
0				3.7	-3.056	-0.0016	-2.5 to 2.5	Pass		
				10	3.7	-3.968	-0.0021	-2.5 to 2.5	Pass	
30				3.7	-2.669	-0.0014	-2.5 to 2.5	Pass		
40	3.7	-4.442	-0.0023	-2.5 to 2.5	Pass					
50	3.7	-2.405	-0.0013	-2.5 to 2.5	Pass					
16QAM	1857.5	75	0	20	3.4	-2.143	-0.0012	-2.5 to 2.5	Pass	
					3.7	-2.512	-0.0014	-2.5 to 2.5	Pass	
					4.2	-3.455	-0.0019	-2.5 to 2.5	Pass	
				-30	3.7	-4.318	-0.0023	-2.5 to 2.5	Pass	
					3.7	-3.589	-0.0019	-2.5 to 2.5	Pass	
				-10	3.7	-5.009	-0.0027	-2.5 to 2.5	Pass	
0	3.7	-4.069	-0.0022	-2.5 to 2.5	Pass					

	1880	75	0	10	3.7	-2.896	-0.0016	-2.5 to 2.5	Pass
				30	3.7	-3.942	-0.0021	-2.5 to 2.5	Pass
				40	3.7	-4.725	-0.0025	-2.5 to 2.5	Pass
				50	3.7	-2.541	-0.0014	-2.5 to 2.5	Pass
				20	3.4	-3.106	-0.0017	-2.5 to 2.5	Pass
					3.7	-1.556	-0.0008	-2.5 to 2.5	Pass
					4.2	-0.743	-0.0004	-2.5 to 2.5	Pass
				-30	3.7	-3.109	-0.0017	-2.5 to 2.5	Pass
				-20	3.7	-3.325	-0.0018	-2.5 to 2.5	Pass
				-10	3.7	-3.172	-0.0017	-2.5 to 2.5	Pass
	0	3.7	-1.755	-0.0009	-2.5 to 2.5	Pass			
	10	3.7	-3.615	-0.0019	-2.5 to 2.5	Pass			
	30	3.7	-1.691	-0.0009	-2.5 to 2.5	Pass			
	40	3.7	-4.028	-0.0021	-2.5 to 2.5	Pass			
	50	3.7	-3.249	-0.0017	-2.5 to 2.5	Pass			
	1902.5	75	0	20	3.4	-3.633	-0.0019	-2.5 to 2.5	Pass
					3.7	-2.858	-0.0015	-2.5 to 2.5	Pass
					4.2	-2.492	-0.0013	-2.5 to 2.5	Pass
				-30	3.7	-3.488	-0.0018	-2.5 to 2.5	Pass
				-20	3.7	-3.589	-0.0019	-2.5 to 2.5	Pass
-10				3.7	-3.802	-0.0020	-2.5 to 2.5	Pass	
0				3.7	-4.055	-0.0021	-2.5 to 2.5	Pass	
10				3.7	-3.765	-0.0020	-2.5 to 2.5	Pass	
30				3.7	-3.755	-0.0020	-2.5 to 2.5	Pass	
40				3.7	-3.464	-0.0018	-2.5 to 2.5	Pass	
50	3.7	-4.232	-0.0022	-2.5 to 2.5	Pass				

## 1.6 B2\_20MHz

### 1.6.1 Test Result

Band: 2 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1860	100	0	20	3.4	1.787	0.0010	-2.5 to 2.5	Pass
					3.7	0.635	0.0003	-2.5 to 2.5	Pass
					4.2	0.818	0.0004	-2.5 to 2.5	Pass
				-30	3.7	1.277	0.0007	-2.5 to 2.5	Pass
				-20	3.7	2.778	0.0015	-2.5 to 2.5	Pass
				-10	3.7	1.110	0.0006	-2.5 to 2.5	Pass
				0	3.7	2.696	0.0014	-2.5 to 2.5	Pass
				10	3.7	2.442	0.0013	-2.5 to 2.5	Pass
				30	3.7	1.958	0.0011	-2.5 to 2.5	Pass
				40	3.7	2.090	0.0011	-2.5 to 2.5	Pass
	50	3.7	2.790	0.0015	-2.5 to 2.5	Pass			
	1880	100	0	20	3.4	-1.778	-0.0009	-2.5 to 2.5	Pass
					3.7	-2.041	-0.0011	-2.5 to 2.5	Pass
					4.2	-2.923	-0.0016	-2.5 to 2.5	Pass
				-30	3.7	-2.755	-0.0015	-2.5 to 2.5	Pass
				-20	3.7	-3.041	-0.0016	-2.5 to 2.5	Pass
				-10	3.7	-0.206	-0.0001	-2.5 to 2.5	Pass
				0	3.7	-1.062	-0.0006	-2.5 to 2.5	Pass
				10	3.7	-2.084	-0.0011	-2.5 to 2.5	Pass
				30	3.7	-2.811	-0.0015	-2.5 to 2.5	Pass
40				3.7	-2.400	-0.0013	-2.5 to 2.5	Pass	
50	3.7	-3.159	-0.0017	-2.5 to 2.5	Pass				
1900	100	0	20	3.4	-1.433	-0.0008	-2.5 to 2.5	Pass	

					3.7	-1.100	-0.0006	-2.5 to 2.5	Pass	
					4.2	-3.763	-0.0020	-2.5 to 2.5	Pass	
					-30	3.7	-0.956	-0.0005	-2.5 to 2.5	Pass
					-20	3.7	-1.797	-0.0009	-2.5 to 2.5	Pass
					-10	3.7	-1.643	-0.0009	-2.5 to 2.5	Pass
					0	3.7	-1.680	-0.0009	-2.5 to 2.5	Pass
					10	3.7	-1.625	-0.0009	-2.5 to 2.5	Pass
					30	3.7	-0.718	-0.0004	-2.5 to 2.5	Pass
					40	3.7	-1.557	-0.0008	-2.5 to 2.5	Pass
50	3.7	-0.654	-0.0003	-2.5 to 2.5	Pass					
16QAM	1860	100	0	20	3.4	1.800	0.0010	-2.5 to 2.5	Pass	
					3.7	1.503	0.0008	-2.5 to 2.5	Pass	
					4.2	2.127	0.0011	-2.5 to 2.5	Pass	
				-30	3.7	2.786	0.0015	-2.5 to 2.5	Pass	
				-20	3.7	2.458	0.0013	-2.5 to 2.5	Pass	
				-10	3.7	1.837	0.0010	-2.5 to 2.5	Pass	
				0	3.7	2.959	0.0016	-2.5 to 2.5	Pass	
				10	3.7	2.900	0.0016	-2.5 to 2.5	Pass	
				30	3.7	3.512	0.0019	-2.5 to 2.5	Pass	
	40	3.7	4.129	0.0022	-2.5 to 2.5	Pass				
	50	3.7	3.844	0.0021	-2.5 to 2.5	Pass				
	1880	100	0	20	3.4	-2.601	-0.0014	-2.5 to 2.5	Pass	
					3.7	-3.173	-0.0017	-2.5 to 2.5	Pass	
					4.2	-3.494	-0.0019	-2.5 to 2.5	Pass	
				-30	3.7	-1.858	-0.0010	-2.5 to 2.5	Pass	
				-20	3.7	-4.899	-0.0026	-2.5 to 2.5	Pass	
				-10	3.7	-4.951	-0.0026	-2.5 to 2.5	Pass	
				0	3.7	-4.181	-0.0022	-2.5 to 2.5	Pass	
				10	3.7	-3.468	-0.0018	-2.5 to 2.5	Pass	
				30	3.7	-4.629	-0.0025	-2.5 to 2.5	Pass	
	40	3.7	-4.120	-0.0022	-2.5 to 2.5	Pass				
	50	3.7	-2.942	-0.0016	-2.5 to 2.5	Pass				
	1900	100	0	20	3.4	-1.314	-0.0007	-2.5 to 2.5	Pass	
					3.7	-2.017	-0.0011	-2.5 to 2.5	Pass	
					4.2	-3.837	-0.0020	-2.5 to 2.5	Pass	
				-30	3.7	-3.252	-0.0017	-2.5 to 2.5	Pass	
				-20	3.7	-4.199	-0.0022	-2.5 to 2.5	Pass	
-10				3.7	-3.005	-0.0016	-2.5 to 2.5	Pass		
0				3.7	-2.597	-0.0014	-2.5 to 2.5	Pass		
10				3.7	-3.214	-0.0017	-2.5 to 2.5	Pass		
30				3.7	-4.209	-0.0022	-2.5 to 2.5	Pass		
40	3.7	-3.370	-0.0018	-2.5 to 2.5	Pass					
50	3.7	-2.469	-0.0013	-2.5 to 2.5	Pass					

## 2. Frequency Stability

### 2.1 B4\_1.4MHz

#### 2.1.1 Test Result

Band: 4 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20			0.0006	-2.5 to 2.5	Pass
							0.0010	-2.5 to 2.5	Pass
							0.0022	-2.5 to 2.5	Pass



				-30	3.7	2.948	0.0017	-2.5 to 2.5	Pass
				-20	3.7	1.207	0.0007	-2.5 to 2.5	Pass
				-10	3.7	2.080	0.0012	-2.5 to 2.5	Pass
				0	3.7	1.349	0.0008	-2.5 to 2.5	Pass
				10	3.7	0.754	0.0004	-2.5 to 2.5	Pass
				30	3.7	1.384	0.0008	-2.5 to 2.5	Pass
				40	3.7	1.041	0.0006	-2.5 to 2.5	Pass
				50	3.7	1.004	0.0006	-2.5 to 2.5	Pass
	1732.5	6	0	20	3.4	0.444	0.0003	-2.5 to 2.5	Pass
					3.7	1.476	0.0009	-2.5 to 2.5	Pass
					4.2	2.159	0.0012	-2.5 to 2.5	Pass
				-30	3.7	1.918	0.0011	-2.5 to 2.5	Pass
				-20	3.7	0.736	0.0004	-2.5 to 2.5	Pass
				-10	3.7	0.882	0.0005	-2.5 to 2.5	Pass
				0	3.7	-0.244	-0.0001	-2.5 to 2.5	Pass
				10	3.7	1.121	0.0006	-2.5 to 2.5	Pass
				30	3.7	1.147	0.0007	-2.5 to 2.5	Pass
				40	3.7	1.390	0.0008	-2.5 to 2.5	Pass
				50	3.7	2.310	0.0013	-2.5 to 2.5	Pass
				1754.3	6	0	20	3.4	-3.687
	3.7	-3.237	-0.0018					-2.5 to 2.5	Pass
	4.2	-2.879	-0.0016					-2.5 to 2.5	Pass
	-30	3.7	-2.735				-0.0016	-2.5 to 2.5	Pass
	-20	3.7	-3.077				-0.0018	-2.5 to 2.5	Pass
	-10	3.7	-1.976				-0.0011	-2.5 to 2.5	Pass
	0	3.7	-2.290				-0.0013	-2.5 to 2.5	Pass
	10	3.7	-1.893				-0.0011	-2.5 to 2.5	Pass
	30	3.7	-2.128				-0.0012	-2.5 to 2.5	Pass
	40	3.7	-1.474				-0.0008	-2.5 to 2.5	Pass
	16QAM	1710.7	6	0	20	3.4	-0.009	0.0000	-2.5 to 2.5
3.7						3.113	0.0018	-2.5 to 2.5	Pass
4.2						1.868	0.0011	-2.5 to 2.5	Pass
-30					3.7	1.781	0.0010	-2.5 to 2.5	Pass
-20					3.7	0.919	0.0005	-2.5 to 2.5	Pass
-10					3.7	0.972	0.0006	-2.5 to 2.5	Pass
0					3.7	1.901	0.0011	-2.5 to 2.5	Pass
10					3.7	2.190	0.0013	-2.5 to 2.5	Pass
30					3.7	1.120	0.0007	-2.5 to 2.5	Pass
40					3.7	1.171	0.0007	-2.5 to 2.5	Pass
50					3.7	2.108	0.0012	-2.5 to 2.5	Pass
1732.5					6	0	20	3.4	1.276
		3.7	-0.242	-0.0001				-2.5 to 2.5	Pass
		4.2	0.854	0.0005				-2.5 to 2.5	Pass
		-30	3.7	0.166			0.0001	-2.5 to 2.5	Pass
		-20	3.7	-0.230			-0.0001	-2.5 to 2.5	Pass
		-10	3.7	0.551			0.0003	-2.5 to 2.5	Pass
		0	3.7	-0.013			0.0000	-2.5 to 2.5	Pass
		10	3.7	-0.904			-0.0005	-2.5 to 2.5	Pass
		30	3.7	-0.331			-0.0002	-2.5 to 2.5	Pass
		40	3.7	0.490			0.0003	-2.5 to 2.5	Pass
50		3.7	0.773	0.0004	-2.5 to 2.5	Pass			
1754.3		6	0	20	3.4	-1.456	-0.0008	-2.5 to 2.5	Pass
					3.7	-4.880	-0.0028	-2.5 to 2.5	Pass
					4.2	-1.676	-0.0010	-2.5 to 2.5	Pass
				-30	3.7	-2.733	-0.0016	-2.5 to 2.5	Pass
				-20	3.7	-4.660	-0.0027	-2.5 to 2.5	Pass
				-10	3.7	-1.437	-0.0008	-2.5 to 2.5	Pass
				0	3.7	-2.488	-0.0014	-2.5 to 2.5	Pass

				10	3.7	-2.948	-0.0017	-2.5 to 2.5	Pass
				30	3.7	-4.026	-0.0023	-2.5 to 2.5	Pass
				40	3.7	-3.083	-0.0018	-2.5 to 2.5	Pass
				50	3.7	-3.303	-0.0019	-2.5 to 2.5	Pass

## 2.2 B4\_3MHz

### 2.2.1 Test Result

Band: 4 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.4	0.711	0.0004	-2.5 to 2.5	Pass
					3.7	-0.268	-0.0002	-2.5 to 2.5	Pass
					4.2	0.580	0.0003	-2.5 to 2.5	Pass
				-30	3.7	0.842	0.0005	-2.5 to 2.5	Pass
				-20	3.7	1.723	0.0010	-2.5 to 2.5	Pass
				-10	3.7	-0.249	-0.0001	-2.5 to 2.5	Pass
				0	3.7	1.690	0.0010	-2.5 to 2.5	Pass
				10	3.7	-0.064	0.0000	-2.5 to 2.5	Pass
				30	3.7	-0.167	-0.0001	-2.5 to 2.5	Pass
				40	3.7	0.809	0.0005	-2.5 to 2.5	Pass
	50	3.7	-0.611	-0.0004	-2.5 to 2.5	Pass			
	1732.5	15	0	20	3.4	-0.378	-0.0002	-2.5 to 2.5	Pass
					3.7	0.215	0.0001	-2.5 to 2.5	Pass
					4.2	0.300	0.0002	-2.5 to 2.5	Pass
				-30	3.7	0.329	0.0002	-2.5 to 2.5	Pass
				-20	3.7	0.911	0.0005	-2.5 to 2.5	Pass
				-10	3.7	1.069	0.0006	-2.5 to 2.5	Pass
				0	3.7	0.932	0.0005	-2.5 to 2.5	Pass
				10	3.7	0.778	0.0004	-2.5 to 2.5	Pass
				30	3.7	0.937	0.0005	-2.5 to 2.5	Pass
				40	3.7	0.721	0.0004	-2.5 to 2.5	Pass
	50	3.7	-0.992	-0.0006	-2.5 to 2.5	Pass			
	1753.5	15	0	20	3.4	0.158	0.0001	-2.5 to 2.5	Pass
					3.7	-0.399	-0.0002	-2.5 to 2.5	Pass
					4.2	1.178	0.0007	-2.5 to 2.5	Pass
				-30	3.7	2.545	0.0015	-2.5 to 2.5	Pass
				-20	3.7	0.536	0.0003	-2.5 to 2.5	Pass
				-10	3.7	0.977	0.0006	-2.5 to 2.5	Pass
				0	3.7	-0.343	-0.0002	-2.5 to 2.5	Pass
				10	3.7	1.813	0.0010	-2.5 to 2.5	Pass
30				3.7	1.991	0.0011	-2.5 to 2.5	Pass	
40				3.7	2.413	0.0014	-2.5 to 2.5	Pass	
50	3.7	1.744	0.0010	-2.5 to 2.5	Pass				
16QAM	1711.5	15	0	20	3.4	-0.820	-0.0005	-2.5 to 2.5	Pass
					3.7	-0.111	-0.0001	-2.5 to 2.5	Pass
					4.2	-1.044	-0.0006	-2.5 to 2.5	Pass
				-30	3.7	-0.711	-0.0004	-2.5 to 2.5	Pass
				-20	3.7	0.017	0.0000	-2.5 to 2.5	Pass
				-10	3.7	-0.214	-0.0001	-2.5 to 2.5	Pass
				0	3.7	0.009	0.0000	-2.5 to 2.5	Pass
				10	3.7	-0.276	-0.0002	-2.5 to 2.5	Pass
				30	3.7	0.618	0.0004	-2.5 to 2.5	Pass
				40	3.7	1.319	0.0008	-2.5 to 2.5	Pass
	50	3.7	0.656	0.0004	-2.5 to 2.5	Pass			
	1732.5	15	0	20	3.4	-1.018	-0.0006	-2.5 to 2.5	Pass

					3.7	-0.014	0.0000	-2.5 to 2.5	Pass		
					4.2	0.509	0.0003	-2.5 to 2.5	Pass		
					-30	3.7	0.582	0.0003	-2.5 to 2.5	Pass	
					-20	3.7	0.197	0.0001	-2.5 to 2.5	Pass	
					-10	3.7	-0.131	-0.0001	-2.5 to 2.5	Pass	
					0	3.7	0.790	0.0005	-2.5 to 2.5	Pass	
					10	3.7	0.329	0.0002	-2.5 to 2.5	Pass	
					30	3.7	-0.794	-0.0005	-2.5 to 2.5	Pass	
					40	3.7	-1.110	-0.0006	-2.5 to 2.5	Pass	
	50	3.7	0.441	0.0003	-2.5 to 2.5	Pass					
	1753.5	15	0			20	3.4	1.391	0.0008	-2.5 to 2.5	Pass
							3.7	1.618	0.0009	-2.5 to 2.5	Pass
							4.2	0.564	0.0003	-2.5 to 2.5	Pass
						-30	3.7	1.549	0.0009	-2.5 to 2.5	Pass
						-20	3.7	0.533	0.0003	-2.5 to 2.5	Pass
						-10	3.7	-0.248	-0.0001	-2.5 to 2.5	Pass
						0	3.7	0.376	0.0002	-2.5 to 2.5	Pass
						10	3.7	0.385	0.0002	-2.5 to 2.5	Pass
						30	3.7	0.036	0.0000	-2.5 to 2.5	Pass
40						3.7	-0.296	-0.0002	-2.5 to 2.5	Pass	
50	3.7	-0.315	-0.0002	-2.5 to 2.5	Pass						

## 2.3 B4\_5MHz

### 2.3.1 Test Result

Band: 4 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1712.5	25	0	20	3.4	1.590	0.0009	-2.5 to 2.5	Pass
					3.7	2.088	0.0012	-2.5 to 2.5	Pass
					4.2	1.421	0.0008	-2.5 to 2.5	Pass
				-30	3.7	2.134	0.0012	-2.5 to 2.5	Pass
				-20	3.7	1.982	0.0012	-2.5 to 2.5	Pass
				-10	3.7	0.371	0.0002	-2.5 to 2.5	Pass
				0	3.7	3.172	0.0019	-2.5 to 2.5	Pass
				10	3.7	1.229	0.0007	-2.5 to 2.5	Pass
				30	3.7	0.526	0.0003	-2.5 to 2.5	Pass
				40	3.7	0.871	0.0005	-2.5 to 2.5	Pass
	50	3.7	0.135	0.0001	-2.5 to 2.5	Pass			
	1732.5	25	0	20	3.4	0.732	0.0004	-2.5 to 2.5	Pass
					3.7	0.883	0.0005	-2.5 to 2.5	Pass
					4.2	-0.396	-0.0002	-2.5 to 2.5	Pass
				-30	3.7	-0.543	-0.0003	-2.5 to 2.5	Pass
				-20	3.7	0.796	0.0005	-2.5 to 2.5	Pass
				-10	3.7	1.162	0.0007	-2.5 to 2.5	Pass
				0	3.7	0.641	0.0004	-2.5 to 2.5	Pass
				10	3.7	1.373	0.0008	-2.5 to 2.5	Pass
				30	3.7	1.008	0.0006	-2.5 to 2.5	Pass
				40	3.7	0.969	0.0006	-2.5 to 2.5	Pass
	50	3.7	0.997	0.0006	-2.5 to 2.5	Pass			
	1752.5	25	0	20	3.4	-1.249	-0.0007	-2.5 to 2.5	Pass
					3.7	-1.681	-0.0010	-2.5 to 2.5	Pass
					4.2	-3.449	-0.0020	-2.5 to 2.5	Pass
				-30	3.7	-3.585	-0.0020	-2.5 to 2.5	Pass
				-20	3.7	-3.951	-0.0023	-2.5 to 2.5	Pass
-10				3.7	-3.370	-0.0019	-2.5 to 2.5	Pass	

				0	3.7	-3.115	-0.0018	-2.5 to 2.5	Pass
				10	3.7	-3.706	-0.0021	-2.5 to 2.5	Pass
				30	3.7	-3.324	-0.0019	-2.5 to 2.5	Pass
				40	3.7	-2.480	-0.0014	-2.5 to 2.5	Pass
				50	3.7	-1.938	-0.0011	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.4	1.834	0.0011	-2.5 to 2.5	Pass
					3.7	1.663	0.0010	-2.5 to 2.5	Pass
					4.2	2.953	0.0017	-2.5 to 2.5	Pass
				-30	3.7	2.768	0.0016	-2.5 to 2.5	Pass
				-20	3.7	0.730	0.0004	-2.5 to 2.5	Pass
				-10	3.7	1.617	0.0009	-2.5 to 2.5	Pass
				0	3.7	1.869	0.0011	-2.5 to 2.5	Pass
				10	3.7	2.335	0.0014	-2.5 to 2.5	Pass
				30	3.7	1.497	0.0009	-2.5 to 2.5	Pass
				40	3.7	1.369	0.0008	-2.5 to 2.5	Pass
	50	3.7	1.526	0.0009	-2.5 to 2.5	Pass			
	1732.5	25	0	20	3.4	-0.114	-0.0001	-2.5 to 2.5	Pass
					3.7	1.258	0.0007	-2.5 to 2.5	Pass
					4.2	-0.013	0.0000	-2.5 to 2.5	Pass
				-30	3.7	0.056	0.0000	-2.5 to 2.5	Pass
				-20	3.7	0.924	0.0005	-2.5 to 2.5	Pass
				-10	3.7	-0.246	-0.0001	-2.5 to 2.5	Pass
				0	3.7	-0.446	-0.0003	-2.5 to 2.5	Pass
				10	3.7	-0.651	-0.0004	-2.5 to 2.5	Pass
				30	3.7	0.441	0.0003	-2.5 to 2.5	Pass
				40	3.7	0.896	0.0005	-2.5 to 2.5	Pass
	50	3.7	1.547	0.0009	-2.5 to 2.5	Pass			
	1752.5	25	0	20	3.4	-2.143	-0.0012	-2.5 to 2.5	Pass
					3.7	-3.712	-0.0021	-2.5 to 2.5	Pass
					4.2	-2.191	-0.0013	-2.5 to 2.5	Pass
				-30	3.7	-1.988	-0.0011	-2.5 to 2.5	Pass
				-20	3.7	-3.668	-0.0021	-2.5 to 2.5	Pass
				-10	3.7	-2.811	-0.0016	-2.5 to 2.5	Pass
				0	3.7	-3.232	-0.0018	-2.5 to 2.5	Pass
				10	3.7	-2.135	-0.0012	-2.5 to 2.5	Pass
30				3.7	-4.684	-0.0027	-2.5 to 2.5	Pass	
40				3.7	-2.533	-0.0014	-2.5 to 2.5	Pass	
50	3.7	-2.494	-0.0014	-2.5 to 2.5	Pass				

## 2.4 B4\_10MHz

### 2.4.1 Test Result

Band: 4 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1715	50	0	20	3.4	-1.181	-0.0007	-2.5 to 2.5	Pass
					3.7	-0.921	-0.0005	-2.5 to 2.5	Pass
					4.2	-1.440	-0.0008	-2.5 to 2.5	Pass
				-30	3.7	-2.296	-0.0013	-2.5 to 2.5	Pass
				-20	3.7	-1.363	-0.0008	-2.5 to 2.5	Pass
				-10	3.7	-3.819	-0.0022	-2.5 to 2.5	Pass
				0	3.7	-3.060	-0.0018	-2.5 to 2.5	Pass
				10	3.7	-2.074	-0.0012	-2.5 to 2.5	Pass
				30	3.7	-2.155	-0.0013	-2.5 to 2.5	Pass
				40	3.7	-2.152	-0.0013	-2.5 to 2.5	Pass
50	3.7	-4.213	-0.0025	-2.5 to 2.5	Pass				

	1732.5	50	0	20	3.4	0.436	0.0003	-2.5 to 2.5	Pass				
					3.7	-1.289	-0.0007	-2.5 to 2.5	Pass				
					4.2	0.229	0.0001	-2.5 to 2.5	Pass				
				-30	3.7	1.442	0.0008	-2.5 to 2.5	Pass				
					-20	3.7	0.633	0.0004	-2.5 to 2.5	Pass			
					-10	3.7	1.506	0.0009	-2.5 to 2.5	Pass			
				1750	50	0	20	3.7	-0.107	-0.0001	-2.5 to 2.5	Pass	
								10	3.7	-1.068	-0.0006	-2.5 to 2.5	Pass
								30	3.7	0.651	0.0004	-2.5 to 2.5	Pass
	40	3.7	-0.513				-0.0003	-2.5 to 2.5	Pass				
		50	3.7				0.429	0.0002	-2.5 to 2.5	Pass			
		20	3.4				2.978	0.0017	-2.5 to 2.5	Pass			
	3.7		3.232				0.0018	-2.5 to 2.5	Pass				
	4.2		1.115				0.0006	-2.5 to 2.5	Pass				
	1715	50	0				-30	3.7	1.172	0.0007	-2.5 to 2.5	Pass	
				-20	3.7	2.958		0.0017	-2.5 to 2.5	Pass			
				-10	3.7	0.789		0.0005	-2.5 to 2.5	Pass			
				1732.5	50	0	0	3.7	1.472	0.0008	-2.5 to 2.5	Pass	
								10	3.7	1.462	0.0008	-2.5 to 2.5	Pass
								30	3.7	0.887	0.0005	-2.5 to 2.5	Pass
							40	3.7	3.062	0.0017	-2.5 to 2.5	Pass	
								50	3.7	1.804	0.0010	-2.5 to 2.5	Pass
								20	3.4	-0.921	-0.0005	-2.5 to 2.5	Pass
	3.7	-1.608	-0.0009				-2.5 to 2.5		Pass				
	4.2	-1.306	-0.0008				-2.5 to 2.5		Pass				
	1750	50	0				-30	3.7	-0.219	-0.0001	-2.5 to 2.5	Pass	
				-20	3.7	-0.878		-0.0005	-2.5 to 2.5	Pass			
-10				3.7	0.003	0.0000		-2.5 to 2.5	Pass				
1732.5				50	0	0	3.7	-0.597	-0.0003	-2.5 to 2.5	Pass		
							10	3.7	-0.738	-0.0004	-2.5 to 2.5	Pass	
							30	3.7	-1.425	-0.0008	-2.5 to 2.5	Pass	
						40	3.7	-2.248	-0.0013	-2.5 to 2.5	Pass		
							50	3.7	-0.659	-0.0004	-2.5 to 2.5	Pass	
							20	3.4	-0.601	-0.0003	-2.5 to 2.5	Pass	
	3.7	-0.017	0.0000			-2.5 to 2.5		Pass					
	4.2	-0.821	-0.0005			-2.5 to 2.5		Pass					
	1715	50	0			-30	3.7	0.966	0.0006	-2.5 to 2.5	Pass		
-20				3.7	0.237		0.0001	-2.5 to 2.5	Pass				
-10				3.7	1.394		0.0008	-2.5 to 2.5	Pass				
1732.5				50	0	0	3.7	-0.748	-0.0004	-2.5 to 2.5	Pass		
							10	3.7	-0.450	-0.0003	-2.5 to 2.5	Pass	
							30	3.7	-0.296	-0.0002	-2.5 to 2.5	Pass	
						40	3.7	-1.126	-0.0006	-2.5 to 2.5	Pass		
							50	3.7	-0.023	0.0000	-2.5 to 2.5	Pass	
							20	3.4	1.240	0.0007	-2.5 to 2.5	Pass	
	3.7	1.176	0.0007			-2.5 to 2.5		Pass					
	4.2	0.094	0.0001			-2.5 to 2.5		Pass					
	1750	50	0			-30	3.7	1.525	0.0009	-2.5 to 2.5	Pass		
-20				3.7	1.568		0.0009	-2.5 to 2.5	Pass				
-10				3.7	0.552		0.0003	-2.5 to 2.5	Pass				
1732.5				50	0	0	3.7	0.721	0.0004	-2.5 to 2.5	Pass		
							10	3.7	1.744	0.0010	-2.5 to 2.5	Pass	
							30	3.7	1.815	0.0010	-2.5 to 2.5	Pass	
						40	3.7	3.157	0.0018	-2.5 to 2.5	Pass		
							50	3.7	2.053	0.0012	-2.5 to 2.5	Pass	
							20	3.4	1.240	0.0007	-2.5 to 2.5	Pass	
	3.7	1.176	0.0007			-2.5 to 2.5		Pass					
	4.2	0.094	0.0001			-2.5 to 2.5		Pass					

2.5 B4\_15MHz

## 2.5.1 Test Result

Band: 4 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.4	-0.079	0.0000	-2.5 to 2.5	Pass
					3.7	1.269	0.0007	-2.5 to 2.5	Pass
					4.2	-0.831	-0.0005	-2.5 to 2.5	Pass
				-30	3.7	1.006	0.0006	-2.5 to 2.5	Pass
				-20	3.7	0.301	0.0002	-2.5 to 2.5	Pass
				-10	3.7	1.255	0.0007	-2.5 to 2.5	Pass
				0	3.7	2.397	0.0014	-2.5 to 2.5	Pass
				10	3.7	-0.564	-0.0003	-2.5 to 2.5	Pass
				30	3.7	0.921	0.0005	-2.5 to 2.5	Pass
				40	3.7	0.107	0.0001	-2.5 to 2.5	Pass
	50	3.7	1.505	0.0009	-2.5 to 2.5	Pass			
	1732.5	75	0	20	3.4	1.115	0.0006	-2.5 to 2.5	Pass
					3.7	-1.120	-0.0006	-2.5 to 2.5	Pass
					4.2	-0.836	-0.0005	-2.5 to 2.5	Pass
				-30	3.7	1.676	0.0010	-2.5 to 2.5	Pass
				-20	3.7	0.808	0.0005	-2.5 to 2.5	Pass
				-10	3.7	-0.079	0.0000	-2.5 to 2.5	Pass
				0	3.7	-0.279	-0.0002	-2.5 to 2.5	Pass
				10	3.7	-1.114	-0.0006	-2.5 to 2.5	Pass
				30	3.7	-0.043	0.0000	-2.5 to 2.5	Pass
				40	3.7	-1.016	-0.0006	-2.5 to 2.5	Pass
	50	3.7	-1.234	-0.0007	-2.5 to 2.5	Pass			
	1747.5	75	0	20	3.4	0.802	0.0005	-2.5 to 2.5	Pass
					3.7	0.064	0.0000	-2.5 to 2.5	Pass
					4.2	0.024	0.0000	-2.5 to 2.5	Pass
				-30	3.7	-0.073	0.0000	-2.5 to 2.5	Pass
				-20	3.7	-0.545	-0.0003	-2.5 to 2.5	Pass
				-10	3.7	0.419	0.0002	-2.5 to 2.5	Pass
				0	3.7	1.098	0.0006	-2.5 to 2.5	Pass
				10	3.7	0.438	0.0003	-2.5 to 2.5	Pass
30				3.7	-0.431	-0.0002	-2.5 to 2.5	Pass	
40				3.7	-0.178	-0.0001	-2.5 to 2.5	Pass	
50	3.7	0.006	0.0000	-2.5 to 2.5	Pass				
16QAM	1717.5	75	0	20	3.4	0.543	0.0003	-2.5 to 2.5	Pass
					3.7	0.769	0.0004	-2.5 to 2.5	Pass
					4.2	-0.829	-0.0005	-2.5 to 2.5	Pass
				-30	3.7	0.200	0.0001	-2.5 to 2.5	Pass
				-20	3.7	1.251	0.0007	-2.5 to 2.5	Pass
				-10	3.7	1.784	0.0010	-2.5 to 2.5	Pass
				0	3.7	1.097	0.0006	-2.5 to 2.5	Pass
				10	3.7	2.220	0.0013	-2.5 to 2.5	Pass
				30	3.7	0.453	0.0003	-2.5 to 2.5	Pass
				40	3.7	1.164	0.0007	-2.5 to 2.5	Pass
	50	3.7	-0.151	-0.0001	-2.5 to 2.5	Pass			
	1732.5	75	0	20	3.4	0.365	0.0002	-2.5 to 2.5	Pass
					3.7	-0.453	-0.0003	-2.5 to 2.5	Pass
					4.2	-0.303	-0.0002	-2.5 to 2.5	Pass
				-30	3.7	-0.898	-0.0005	-2.5 to 2.5	Pass
				-20	3.7	0.157	0.0001	-2.5 to 2.5	Pass
				-10	3.7	-0.403	-0.0002	-2.5 to 2.5	Pass
				0	3.7	-0.124	-0.0001	-2.5 to 2.5	Pass
				10	3.7	0.657	0.0004	-2.5 to 2.5	Pass
				30	3.7	-0.614	-0.0004	-2.5 to 2.5	Pass
40				3.7	-0.300	-0.0002	-2.5 to 2.5	Pass	

	1747.5	75	0	50	3.7	-0.951	-0.0005	-2.5 to 2.5	Pass
				20	3.4	-0.487	-0.0003	-2.5 to 2.5	Pass
					3.7	-0.699	-0.0004	-2.5 to 2.5	Pass
					4.2	0.264	0.0002	-2.5 to 2.5	Pass
				-30	3.7	-0.013	0.0000	-2.5 to 2.5	Pass
				-20	3.7	0.170	0.0001	-2.5 to 2.5	Pass
				-10	3.7	0.791	0.0005	-2.5 to 2.5	Pass
				0	3.7	0.018	0.0000	-2.5 to 2.5	Pass
				10	3.7	1.101	0.0006	-2.5 to 2.5	Pass
				30	3.7	1.107	0.0006	-2.5 to 2.5	Pass
				40	3.7	0.817	0.0005	-2.5 to 2.5	Pass
				50	3.7	0.814	0.0005	-2.5 to 2.5	Pass

## 2.6 B4\_20MHz

### 2.6.1 Test Result

Band: 4 / Bandwidth: 20MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	1720	100	0	20	3.4	1.781	0.0010	-2.5 to 2.5	Pass			
					3.7	1.679	0.0010	-2.5 to 2.5	Pass			
					4.2	1.206	0.0007	-2.5 to 2.5	Pass			
				-30	3.7	1.330	0.0008	-2.5 to 2.5	Pass			
				-20	3.7	0.525	0.0003	-2.5 to 2.5	Pass			
				-10	3.7	0.933	0.0005	-2.5 to 2.5	Pass			
				0	3.7	3.381	0.0020	-2.5 to 2.5	Pass			
				10	3.7	0.302	0.0002	-2.5 to 2.5	Pass			
				30	3.7	1.176	0.0007	-2.5 to 2.5	Pass			
				40	3.7	0.896	0.0005	-2.5 to 2.5	Pass			
				50	3.7	0.844	0.0005	-2.5 to 2.5	Pass			
				1732.5	100	0	20	3.4	-0.989	-0.0006	-2.5 to 2.5	Pass
								3.7	1.056	0.0006	-2.5 to 2.5	Pass
								4.2	0.983	0.0006	-2.5 to 2.5	Pass
							-30	3.7	0.734	0.0004	-2.5 to 2.5	Pass
	-20	3.7	1.426				0.0008	-2.5 to 2.5	Pass			
	-10	3.7	0.764				0.0004	-2.5 to 2.5	Pass			
	0	3.7	-0.222				-0.0001	-2.5 to 2.5	Pass			
	10	3.7	0.186				0.0001	-2.5 to 2.5	Pass			
	30	3.7	0.117				0.0001	-2.5 to 2.5	Pass			
	40	3.7	0.637				0.0004	-2.5 to 2.5	Pass			
	50	3.7	0.494				0.0003	-2.5 to 2.5	Pass			
	1745	100	0				20	3.4	-1.797	-0.0010	-2.5 to 2.5	Pass
								3.7	-3.919	-0.0022	-2.5 to 2.5	Pass
								4.2	-2.137	-0.0012	-2.5 to 2.5	Pass
							-30	3.7	-1.907	-0.0011	-2.5 to 2.5	Pass
				-20	3.7	-4.307	-0.0025	-2.5 to 2.5	Pass			
				-10	3.7	-3.434	-0.0020	-2.5 to 2.5	Pass			
				0	3.7	-3.319	-0.0019	-2.5 to 2.5	Pass			
				10	3.7	-3.388	-0.0019	-2.5 to 2.5	Pass			
30				3.7	-3.829	-0.0022	-2.5 to 2.5	Pass				
40				3.7	-3.109	-0.0018	-2.5 to 2.5	Pass				
50				3.7	-2.688	-0.0015	-2.5 to 2.5	Pass				
16QAM				1720	100	0	20	3.4	1.170	0.0007	-2.5 to 2.5	Pass
								3.7	1.764	0.0010	-2.5 to 2.5	Pass
								4.2	0.371	0.0002	-2.5 to 2.5	Pass
							-30	3.7	0.341	0.0002	-2.5 to 2.5	Pass

				-20	3.7	0.627	0.0004	-2.5 to 2.5	Pass
				-10	3.7	1.192	0.0007	-2.5 to 2.5	Pass
				0	3.7	1.117	0.0006	-2.5 to 2.5	Pass
				10	3.7	1.125	0.0007	-2.5 to 2.5	Pass
				30	3.7	2.185	0.0013	-2.5 to 2.5	Pass
				40	3.7	2.552	0.0015	-2.5 to 2.5	Pass
				50	3.7	1.001	0.0006	-2.5 to 2.5	Pass
				20	3.4	-1.339	-0.0008	-2.5 to 2.5	Pass
					3.7	-0.796	-0.0005	-2.5 to 2.5	Pass
					4.2	-1.497	-0.0009	-2.5 to 2.5	Pass
	-30	3.7	-0.692	-0.0004	-2.5 to 2.5	Pass			
	-20	3.7	-0.804	-0.0005	-2.5 to 2.5	Pass			
	-10	3.7	-1.261	-0.0007	-2.5 to 2.5	Pass			
	0	3.7	-0.857	-0.0005	-2.5 to 2.5	Pass			
	10	3.7	-1.034	-0.0006	-2.5 to 2.5	Pass			
	30	3.7	-0.694	-0.0004	-2.5 to 2.5	Pass			
	40	3.7	-0.355	-0.0002	-2.5 to 2.5	Pass			
	50	3.7	-0.224	-0.0001	-2.5 to 2.5	Pass			
	1732.5	100	0	20	3.4	-2.623	-0.0015	-2.5 to 2.5	Pass
					3.7	-2.126	-0.0012	-2.5 to 2.5	Pass
					4.2	-2.821	-0.0016	-2.5 to 2.5	Pass
				-30	3.7	-1.373	-0.0008	-2.5 to 2.5	Pass
				-20	3.7	-3.665	-0.0021	-2.5 to 2.5	Pass
				-10	3.7	-2.510	-0.0014	-2.5 to 2.5	Pass
				0	3.7	-0.764	-0.0004	-2.5 to 2.5	Pass
				10	3.7	-1.070	-0.0006	-2.5 to 2.5	Pass
				30	3.7	-1.796	-0.0010	-2.5 to 2.5	Pass
				40	3.7	0.138	0.0001	-2.5 to 2.5	Pass
	50	3.7	-2.744	-0.0016	-2.5 to 2.5	Pass			
	1745	100	0	20	3.4	-2.623	-0.0015	-2.5 to 2.5	Pass
3.7					-2.126	-0.0012	-2.5 to 2.5	Pass	
4.2					-2.821	-0.0016	-2.5 to 2.5	Pass	
-30				3.7	-1.373	-0.0008	-2.5 to 2.5	Pass	
-20				3.7	-3.665	-0.0021	-2.5 to 2.5	Pass	
-10				3.7	-2.510	-0.0014	-2.5 to 2.5	Pass	
0				3.7	-0.764	-0.0004	-2.5 to 2.5	Pass	
10				3.7	-1.070	-0.0006	-2.5 to 2.5	Pass	
30				3.7	-1.796	-0.0010	-2.5 to 2.5	Pass	
40				3.7	0.138	0.0001	-2.5 to 2.5	Pass	
50	3.7	-2.744	-0.0016	-2.5 to 2.5	Pass				

### 3. Frequency Stability

#### 3.1 B5\_1.4MHz

##### 3.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	824.7	6	0	20	3.4	-1.370	-0.0017	-2.5 to 2.5	Pass
					3.7	-1.277	-0.0015	-2.5 to 2.5	Pass
					4.2	-1.189	-0.0014	-2.5 to 2.5	Pass
				-30	3.7	-0.066	-0.0001	-2.5 to 2.5	Pass
				-20	3.7	-1.845	-0.0022	-2.5 to 2.5	Pass
				-10	3.7	-1.271	-0.0015	-2.5 to 2.5	Pass
				0	3.7	-1.336	-0.0016	-2.5 to 2.5	Pass
				10	3.7	-0.590	-0.0007	-2.5 to 2.5	Pass
				30	3.7	-0.660	-0.0008	-2.5 to 2.5	Pass
				40	3.7	-1.406	-0.0017	-2.5 to 2.5	Pass
	50	3.7	-1.088	-0.0013	-2.5 to 2.5	Pass			
	836.5	6	0	20	3.4	-1.038	-0.0012	-2.5 to 2.5	Pass
					3.7	-0.099	-0.0001	-2.5 to 2.5	Pass
					4.2	-0.718	-0.0009	-2.5 to 2.5	Pass
				-30	3.7	0.021	0.0000	-2.5 to 2.5	Pass
				-20	3.7	-0.670	-0.0008	-2.5 to 2.5	Pass
				-10	3.7	0.162	0.0002	-2.5 to 2.5	Pass



				0	3.7	-1.102	-0.0013	-2.5 to 2.5	Pass				
				10	3.7	-0.430	-0.0005	-2.5 to 2.5	Pass				
				30	3.7	0.503	0.0006	-2.5 to 2.5	Pass				
				40	3.7	-0.295	-0.0004	-2.5 to 2.5	Pass				
				50	3.7	0.007	0.0000	-2.5 to 2.5	Pass				
	848.3	6	0	20	3.4	-0.602	-0.0007	-2.5 to 2.5	Pass				
					3.7	0.210	0.0002	-2.5 to 2.5	Pass				
					4.2	0.034	0.0000	-2.5 to 2.5	Pass				
				-30	3.7	-1.439	-0.0017	-2.5 to 2.5	Pass				
				-20	3.7	-0.875	-0.0010	-2.5 to 2.5	Pass				
				-10	3.7	-0.303	-0.0004	-2.5 to 2.5	Pass				
				0	3.7	-0.010	0.0000	-2.5 to 2.5	Pass				
				10	3.7	-0.203	-0.0002	-2.5 to 2.5	Pass				
				30	3.7	-0.364	-0.0004	-2.5 to 2.5	Pass				
				40	3.7	0.465	0.0005	-2.5 to 2.5	Pass				
				50	3.7	0.142	0.0002	-2.5 to 2.5	Pass				
				16QAM	824.7	6	0	20	3.4	-0.992	-0.0012	-2.5 to 2.5	Pass
									3.7	-1.405	-0.0017	-2.5 to 2.5	Pass
									4.2	-1.018	-0.0012	-2.5 to 2.5	Pass
-30	3.7	-2.176	-0.0026					-2.5 to 2.5	Pass				
-20	3.7	-2.011	-0.0024					-2.5 to 2.5	Pass				
-10	3.7	-1.610	-0.0020					-2.5 to 2.5	Pass				
0	3.7	-0.571	-0.0007					-2.5 to 2.5	Pass				
10	3.7	-0.923	-0.0011					-2.5 to 2.5	Pass				
30	3.7	0.104	0.0001					-2.5 to 2.5	Pass				
40	3.7	-1.102	-0.0013					-2.5 to 2.5	Pass				
50	3.7	-1.392	-0.0017		-2.5 to 2.5	Pass							
836.5	6	0	20		3.4	-0.938	-0.0011	-2.5 to 2.5	Pass				
					3.7	-1.388	-0.0017	-2.5 to 2.5	Pass				
					4.2	-0.844	-0.0010	-2.5 to 2.5	Pass				
			-30		3.7	-1.335	-0.0016	-2.5 to 2.5	Pass				
			-20		3.7	-0.487	-0.0006	-2.5 to 2.5	Pass				
			-10		3.7	-0.792	-0.0009	-2.5 to 2.5	Pass				
			0		3.7	-1.508	-0.0018	-2.5 to 2.5	Pass				
			10		3.7	-0.296	-0.0004	-2.5 to 2.5	Pass				
			30	3.7	-1.619	-0.0019	-2.5 to 2.5	Pass					
40	3.7	-1.247	-0.0015	-2.5 to 2.5	Pass								
50	3.7	-0.963	-0.0012	-2.5 to 2.5	Pass								
848.3	6	0	20	3.4	-0.777	-0.0009	-2.5 to 2.5	Pass					
				3.7	-0.115	-0.0001	-2.5 to 2.5	Pass					
				4.2	0.779	0.0009	-2.5 to 2.5	Pass					
			-30	3.7	0.332	0.0004	-2.5 to 2.5	Pass					
			-20	3.7	-0.854	-0.0010	-2.5 to 2.5	Pass					
			-10	3.7	-0.104	-0.0001	-2.5 to 2.5	Pass					
			0	3.7	0.161	0.0002	-2.5 to 2.5	Pass					
			10	3.7	0.309	0.0004	-2.5 to 2.5	Pass					
			30	3.7	0.434	0.0005	-2.5 to 2.5	Pass					
			40	3.7	0.180	0.0002	-2.5 to 2.5	Pass					
50	3.7	0.587	0.0007	-2.5 to 2.5	Pass								

### 3.2 B5\_3MHz

#### 3.2.1 Test Result

Band: 5 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	

QPSK	825.5	15	0	20	3.4	-0.029	0.0000	-2.5 to 2.5	Pass				
					3.7	-0.274	-0.0003	-2.5 to 2.5	Pass				
					4.2	0.213	0.0003	-2.5 to 2.5	Pass				
				-30	3.7	-0.021	0.0000	-2.5 to 2.5	Pass				
					-20	3.7	0.518	0.0006	-2.5 to 2.5	Pass			
					-10	3.7	-0.982	-0.0012	-2.5 to 2.5	Pass			
				836.5	15	0	0	3.7	0.012	0.0000	-2.5 to 2.5	Pass	
								10	3.7	0.130	0.0002	-2.5 to 2.5	Pass
								30	3.7	-0.061	-0.0001	-2.5 to 2.5	Pass
	40	3.7	-0.216				-0.0003	-2.5 to 2.5	Pass				
		50	3.7				1.285	0.0016	-2.5 to 2.5	Pass			
		20	3.4				0.004	0.0000	-2.5 to 2.5	Pass			
	3.7		-1.667				-0.0020	-2.5 to 2.5	Pass				
	4.2		0.299				0.0004	-2.5 to 2.5	Pass				
	847.5	15	0				-30	3.7	-0.651	-0.0008	-2.5 to 2.5	Pass	
				-20	3.7	-1.765		-0.0021	-2.5 to 2.5	Pass			
				-10	3.7	-1.116		-0.0013	-2.5 to 2.5	Pass			
				0	3.7	-1.382	-0.0017	-2.5 to 2.5	Pass				
					10	3.7	-0.232	-0.0003	-2.5 to 2.5	Pass			
					30	3.7	-0.642	-0.0008	-2.5 to 2.5	Pass			
				40	3.7	-0.318	-0.0004	-2.5 to 2.5	Pass				
					50	3.7	-1.799	-0.0022	-2.5 to 2.5	Pass			
					20	3.4	-0.832	-0.0010	-2.5 to 2.5	Pass			
	3.7	-0.855	-0.0010	-2.5 to 2.5		Pass							
	4.2	-1.677	-0.0020	-2.5 to 2.5		Pass							
	16QAM	825.5	15	0	-30	3.7	-0.891	-0.0011	-2.5 to 2.5	Pass			
						-20	3.7	-1.142	-0.0013	-2.5 to 2.5	Pass		
-10						3.7	-1.325	-0.0016	-2.5 to 2.5	Pass			
0					3.7	-1.053	-0.0012	-2.5 to 2.5	Pass				
					10	3.7	-0.828	-0.0010	-2.5 to 2.5	Pass			
					30	3.7	-2.399	-0.0028	-2.5 to 2.5	Pass			
40					3.7	-3.115	-0.0037	-2.5 to 2.5	Pass				
					50	3.7	-1.819	-0.0021	-2.5 to 2.5	Pass			
					20	3.4	0.285	0.0003	-2.5 to 2.5	Pass			
3.7		-1.664	-0.0020	-2.5 to 2.5		Pass							
4.2		-1.764	-0.0021	-2.5 to 2.5		Pass							
836.5		15	0	-30	3.7	-0.971	-0.0012	-2.5 to 2.5	Pass				
					-20	3.7	-0.142	-0.0002	-2.5 to 2.5	Pass			
					-10	3.7	0.099	0.0001	-2.5 to 2.5	Pass			
				0	3.7	-0.882	-0.0011	-2.5 to 2.5	Pass				
					10	3.7	-0.233	-0.0003	-2.5 to 2.5	Pass			
					30	3.7	-0.737	-0.0009	-2.5 to 2.5	Pass			
				40	3.7	0.715	0.0009	-2.5 to 2.5	Pass				
					50	3.7	-0.131	-0.0002	-2.5 to 2.5	Pass			
					20	3.4	-0.188	-0.0002	-2.5 to 2.5	Pass			
3.7		-0.999	-0.0012	-2.5 to 2.5		Pass							
4.2		-1.076	-0.0013	-2.5 to 2.5		Pass							
847.5		15	0	-30	3.7	-0.699	-0.0008	-2.5 to 2.5	Pass				
					-20	3.7	-0.513	-0.0006	-2.5 to 2.5	Pass			
					-10	3.7	-0.201	-0.0002	-2.5 to 2.5	Pass			
				0	3.7	-1.004	-0.0012	-2.5 to 2.5	Pass				
					10	3.7	-0.842	-0.0010	-2.5 to 2.5	Pass			
	30				3.7	-1.439	-0.0017	-2.5 to 2.5	Pass				
	40			3.7	1.433	0.0017	-2.5 to 2.5	Pass					
				50	3.7	0.395	0.0005	-2.5 to 2.5	Pass				
				20	3.4	-1.844	-0.0022	-2.5 to 2.5	Pass				
3.7	-1.525	-0.0018	-2.5 to 2.5		Pass								
4.2	-1.669	-0.0020	-2.5 to 2.5		Pass								
-30	3.7	-2.101	-0.0025	-2.5 to 2.5	Pass								

				-20	3.7	-1.548	-0.0018	-2.5 to 2.5	Pass
				-10	3.7	-0.643	-0.0008	-2.5 to 2.5	Pass
				0	3.7	-2.668	-0.0031	-2.5 to 2.5	Pass
				10	3.7	-2.774	-0.0033	-2.5 to 2.5	Pass
				30	3.7	-2.136	-0.0025	-2.5 to 2.5	Pass
				40	3.7	-1.966	-0.0023	-2.5 to 2.5	Pass
				50	3.7	-2.198	-0.0026	-2.5 to 2.5	Pass

### 3.3 B5\_5MHz

#### 3.3.1 Test Result

Band: 5 / Bandwidth: 5MHz																	
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict								
		Size	Offset				Result	Limit									
QPSK	826.5	25	0	20	3.4	-0.835	-0.0010	-2.5 to 2.5	Pass								
					3.7	-1.562	-0.0019	-2.5 to 2.5	Pass								
					4.2	-1.040	-0.0013	-2.5 to 2.5	Pass								
				836.5	25	0	20	3.7	-1.156	-0.0014	-2.5 to 2.5	Pass					
								-30	3.7	-1.633	-0.0020	-2.5 to 2.5	Pass				
								-20	3.7	-1.336	-0.0016	-2.5 to 2.5	Pass				
							846.5	25	0	0	3.7	-2.088	-0.0025	-2.5 to 2.5	Pass		
											10	3.7	-1.662	-0.0020	-2.5 to 2.5	Pass	
											30	3.7	-2.015	-0.0024	-2.5 to 2.5	Pass	
	826.5	25	0							40	3.7	-1.371	-0.0017	-2.5 to 2.5	Pass		
											50	3.7	-1.448	-0.0018	-2.5 to 2.5	Pass	
											20	3.4	-0.082	-0.0001	-2.5 to 2.5	Pass	
				836.5	25	0				20	3.7	-1.055	-0.0013	-2.5 to 2.5	Pass		
											4.2	-1.676	-0.0020	-2.5 to 2.5	Pass		
											-30	3.7	-0.548	-0.0007	-2.5 to 2.5	Pass	
							846.5	25	0	-20	3.7	-0.581	-0.0007	-2.5 to 2.5	Pass		
											-10	3.7	-2.039	-0.0024	-2.5 to 2.5	Pass	
											0	3.7	-0.394	-0.0005	-2.5 to 2.5	Pass	
	826.5	25	0							10	3.7	0.799	0.0010	-2.5 to 2.5	Pass		
											30	3.7	0.008	0.0000	-2.5 to 2.5	Pass	
											40	3.7	-2.119	-0.0025	-2.5 to 2.5	Pass	
				836.5	25	0				50	3.7	-1.822	-0.0022	-2.5 to 2.5	Pass		
											20	3.4	-0.214	-0.0003	-2.5 to 2.5	Pass	
											3.7	-0.584	-0.0007	-2.5 to 2.5	Pass		
							846.5	25	0	4.2	-1.258	-0.0015	-2.5 to 2.5	Pass			
											-30	3.7	-2.444	-0.0029	-2.5 to 2.5	Pass	
											-20	3.7	-0.920	-0.0011	-2.5 to 2.5	Pass	
826.5	25	0	-10							3.7	-0.503	-0.0006	-2.5 to 2.5	Pass			
										0	3.7	-1.577	-0.0019	-2.5 to 2.5	Pass		
										10	3.7	0.123	0.0001	-2.5 to 2.5	Pass		
			836.5	25	0	30				3.7	-1.082	-0.0013	-2.5 to 2.5	Pass			
										40	3.7	-0.686	-0.0008	-2.5 to 2.5	Pass		
										50	3.7	-1.500	-0.0018	-2.5 to 2.5	Pass		
						846.5	25	0	20	3.4	-0.487	-0.0006	-2.5 to 2.5	Pass			
										3.7	-0.576	-0.0007	-2.5 to 2.5	Pass			
										4.2	-2.027	-0.0025	-2.5 to 2.5	Pass			
826.5	25	0							-30	3.7	-1.664	-0.0020	-2.5 to 2.5	Pass			
										-20	3.7	-1.666	-0.0020	-2.5 to 2.5	Pass		
										-10	3.7	-0.803	-0.0010	-2.5 to 2.5	Pass		
			836.5	25	0				0	3.7	-0.855	-0.0010	-2.5 to 2.5	Pass			
										10	3.7	-1.009	-0.0012	-2.5 to 2.5	Pass		
										30	3.7	-1.583	-0.0019	-2.5 to 2.5	Pass		
						846.5	25	0	16QAM	826.5	25	0	3.7	-1.583	-0.0019	-2.5 to 2.5	Pass

	836.5	25	0	40	3.7	-2.077	-0.0025	-2.5 to 2.5	Pass
				50	3.7	-0.619	-0.0007	-2.5 to 2.5	Pass
				20	3.4	-0.799	-0.0010	-2.5 to 2.5	Pass
					3.7	-1.135	-0.0014	-2.5 to 2.5	Pass
					4.2	-0.182	-0.0002	-2.5 to 2.5	Pass
				-30	3.7	-0.222	-0.0003	-2.5 to 2.5	Pass
				-20	3.7	0.157	0.0002	-2.5 to 2.5	Pass
				-10	3.7	0.748	0.0009	-2.5 to 2.5	Pass
				0	3.7	0.031	0.0000	-2.5 to 2.5	Pass
				10	3.7	0.316	0.0004	-2.5 to 2.5	Pass
	30	3.7	0.458	0.0005	-2.5 to 2.5	Pass			
	40	3.7	-1.997	-0.0024	-2.5 to 2.5	Pass			
	50	3.7	-1.835	-0.0022	-2.5 to 2.5	Pass			
	846.5	25	0	20	3.4	0.265	0.0003	-2.5 to 2.5	Pass
					3.7	0.452	0.0005	-2.5 to 2.5	Pass
					4.2	-0.665	-0.0008	-2.5 to 2.5	Pass
				-30	3.7	-0.252	-0.0003	-2.5 to 2.5	Pass
				-20	3.7	-0.782	-0.0009	-2.5 to 2.5	Pass
				-10	3.7	-0.440	-0.0005	-2.5 to 2.5	Pass
				0	3.7	0.112	0.0001	-2.5 to 2.5	Pass
10				3.7	-0.224	-0.0003	-2.5 to 2.5	Pass	
30				3.7	0.469	0.0006	-2.5 to 2.5	Pass	
40				3.7	0.323	0.0004	-2.5 to 2.5	Pass	
50	3.7	0.503	0.0006	-2.5 to 2.5	Pass				

### 3.4 B5\_10MHz

#### 3.4.1 Test Result

Band: 5 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	829	50	0	20	3.4	-0.135	-0.0002	-2.5 to 2.5	Pass
					3.7	-0.175	-0.0002	-2.5 to 2.5	Pass
					4.2	-1.638	-0.0020	-2.5 to 2.5	Pass
				-30	3.7	-0.434	-0.0005	-2.5 to 2.5	Pass
				-20	3.7	1.199	0.0014	-2.5 to 2.5	Pass
				-10	3.7	-0.259	-0.0003	-2.5 to 2.5	Pass
				0	3.7	0.213	0.0003	-2.5 to 2.5	Pass
				10	3.7	-0.287	-0.0003	-2.5 to 2.5	Pass
				30	3.7	-1.385	-0.0017	-2.5 to 2.5	Pass
				40	3.7	0.087	0.0001	-2.5 to 2.5	Pass
	50	3.7	-0.469	-0.0006	-2.5 to 2.5	Pass			
	836.5	50	0	20	3.4	-0.651	-0.0008	-2.5 to 2.5	Pass
					3.7	0.684	0.0008	-2.5 to 2.5	Pass
					4.2	-0.594	-0.0007	-2.5 to 2.5	Pass
				-30	3.7	-0.328	-0.0004	-2.5 to 2.5	Pass
				-20	3.7	-1.100	-0.0013	-2.5 to 2.5	Pass
				-10	3.7	-0.109	-0.0001	-2.5 to 2.5	Pass
				0	3.7	-0.844	-0.0010	-2.5 to 2.5	Pass
				10	3.7	-0.775	-0.0009	-2.5 to 2.5	Pass
				30	3.7	-1.317	-0.0016	-2.5 to 2.5	Pass
				40	3.7	-1.755	-0.0021	-2.5 to 2.5	Pass
	50	3.7	-0.660	-0.0008	-2.5 to 2.5	Pass			
	844	50	0	20	3.4	0.333	0.0004	-2.5 to 2.5	Pass
					3.7	-0.515	-0.0006	-2.5 to 2.5	Pass
					4.2	-0.168	-0.0002	-2.5 to 2.5	Pass

				-30	3.7	-0.872	-0.0010	-2.5 to 2.5	Pass				
				-20	3.7	0.284	0.0003	-2.5 to 2.5	Pass				
				-10	3.7	-0.434	-0.0005	-2.5 to 2.5	Pass				
				0	3.7	-0.243	-0.0003	-2.5 to 2.5	Pass				
				10	3.7	-0.794	-0.0009	-2.5 to 2.5	Pass				
				30	3.7	-1.170	-0.0014	-2.5 to 2.5	Pass				
				40	3.7	0.523	0.0006	-2.5 to 2.5	Pass				
				50	3.7	-0.289	-0.0003	-2.5 to 2.5	Pass				
16QAM	829	50	0	20	3.4	-2.137	-0.0026	-2.5 to 2.5	Pass				
					3.7	-1.901	-0.0023	-2.5 to 2.5	Pass				
					4.2	-1.835	-0.0022	-2.5 to 2.5	Pass				
				836.5	50	0	-30	3.7	-1.661	-0.0020	-2.5 to 2.5	Pass	
								-20	3.7	-1.968	-0.0024	-2.5 to 2.5	Pass
								-10	3.7	-1.039	-0.0013	-2.5 to 2.5	Pass
							0	3.7	-1.564	-0.0019	-2.5 to 2.5	Pass	
								10	3.7	-1.694	-0.0020	-2.5 to 2.5	Pass
								30	3.7	-1.829	-0.0022	-2.5 to 2.5	Pass
	40	3.7	-2.167				-0.0026	-2.5 to 2.5	Pass				
		50	3.7				0.095	0.0001	-2.5 to 2.5	Pass			
		20	3.4				-0.446	-0.0005	-2.5 to 2.5	Pass			
			3.7	-0.186	-0.0002	-2.5 to 2.5	Pass						
			4.2	-0.187	-0.0002	-2.5 to 2.5	Pass						
	844	50	0	-30	3.7	-0.276	-0.0003	-2.5 to 2.5	Pass				
					-20	3.7	0.346	0.0004	-2.5 to 2.5	Pass			
					-10	3.7	-1.616	-0.0019	-2.5 to 2.5	Pass			
				0	3.7	-1.692	-0.0020	-2.5 to 2.5	Pass				
					10	3.7	-1.181	-0.0014	-2.5 to 2.5	Pass			
					30	3.7	-1.328	-0.0016	-2.5 to 2.5	Pass			
				40	3.7	-0.093	-0.0001	-2.5 to 2.5	Pass				
					50	3.7	-1.196	-0.0014	-2.5 to 2.5	Pass			
					20	3.4	-1.219	-0.0014	-2.5 to 2.5	Pass			
	3.7	0.238	0.0003	-2.5 to 2.5		Pass							
	4.2	0.388	0.0005	-2.5 to 2.5		Pass							
	-30	3.7	0.251	0.0003	-2.5 to 2.5	Pass							
							-20	3.7	-1.581	-0.0019	-2.5 to 2.5	Pass	
-10								3.7	-1.354	-0.0016	-2.5 to 2.5	Pass	
0							3.7	-0.917	-0.0011	-2.5 to 2.5	Pass		
							10	3.7	-0.790	-0.0009	-2.5 to 2.5	Pass	
30							3.7	-0.748	-0.0009	-2.5 to 2.5	Pass		
							40	3.7	-0.378	-0.0004	-2.5 to 2.5	Pass	
50							3.7	-0.068	-0.0001	-2.5 to 2.5	Pass		

## 4. Frequency Stability

### 4.1 B66\_1.4MHz

#### 4.1.1 Test Result

Band: 66 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1710.7	6	0	20	3.4	1.057	0.0006	-2.5 to 2.5	Pass
					3.7	0.812	0.0005	-2.5 to 2.5	Pass
					4.2	2.393	0.0014	-2.5 to 2.5	Pass
				-30	3.7	0.472	0.0003	-2.5 to 2.5	Pass
				-20	3.7	-0.107	-0.0001	-2.5 to 2.5	Pass

				-10	3.7	2.424	0.0014	-2.5 to 2.5	Pass
				0	3.7	2.361	0.0014	-2.5 to 2.5	Pass
				10	3.7	1.443	0.0008	-2.5 to 2.5	Pass
				30	3.7	2.260	0.0013	-2.5 to 2.5	Pass
				40	3.7	2.410	0.0014	-2.5 to 2.5	Pass
	50	3.7	2.667	0.0016	-2.5 to 2.5	Pass			
	1745	6	0	20	3.4	-3.178	-0.0018	-2.5 to 2.5	Pass
					3.7	-2.814	-0.0016	-2.5 to 2.5	Pass
					4.2	-2.604	-0.0015	-2.5 to 2.5	Pass
				-30	3.7	-2.246	-0.0013	-2.5 to 2.5	Pass
				-20	3.7	-2.726	-0.0016	-2.5 to 2.5	Pass
				-10	3.7	-2.784	-0.0016	-2.5 to 2.5	Pass
				0	3.7	-2.725	-0.0016	-2.5 to 2.5	Pass
				10	3.7	-2.795	-0.0016	-2.5 to 2.5	Pass
				30	3.7	-1.573	-0.0009	-2.5 to 2.5	Pass
				40	3.7	-1.298	-0.0007	-2.5 to 2.5	Pass
	50	3.7	-3.728	-0.0021	-2.5 to 2.5	Pass			
	1779.3	6	0	20	3.4	0.686	0.0004	-2.5 to 2.5	Pass
					3.7	0.379	0.0002	-2.5 to 2.5	Pass
					4.2	0.235	0.0001	-2.5 to 2.5	Pass
-30				3.7	1.575	0.0009	-2.5 to 2.5	Pass	
-20				3.7	0.524	0.0003	-2.5 to 2.5	Pass	
-10				3.7	0.940	0.0005	-2.5 to 2.5	Pass	
0				3.7	-0.035	0.0000	-2.5 to 2.5	Pass	
10				3.7	-0.955	-0.0005	-2.5 to 2.5	Pass	
30				3.7	1.379	0.0008	-2.5 to 2.5	Pass	
40				3.7	0.642	0.0004	-2.5 to 2.5	Pass	
50	3.7	0.886	0.0005	-2.5 to 2.5	Pass				
16QAM	1710.7	6	0	20	3.4	1.122	0.0007	-2.5 to 2.5	Pass
					3.7	1.629	0.0010	-2.5 to 2.5	Pass
					4.2	1.803	0.0011	-2.5 to 2.5	Pass
				-30	3.7	2.173	0.0013	-2.5 to 2.5	Pass
				-20	3.7	1.192	0.0007	-2.5 to 2.5	Pass
				-10	3.7	1.814	0.0011	-2.5 to 2.5	Pass
				0	3.7	1.538	0.0009	-2.5 to 2.5	Pass
				10	3.7	1.245	0.0007	-2.5 to 2.5	Pass
				30	3.7	0.575	0.0003	-2.5 to 2.5	Pass
				40	3.7	1.642	0.0010	-2.5 to 2.5	Pass
	50	3.7	1.915	0.0011	-2.5 to 2.5	Pass			
	1745	6	0	20	3.4	-4.812	-0.0028	-2.5 to 2.5	Pass
					3.7	-4.613	-0.0026	-2.5 to 2.5	Pass
					4.2	-2.170	-0.0012	-2.5 to 2.5	Pass
				-30	3.7	-2.913	-0.0017	-2.5 to 2.5	Pass
				-20	3.7	-3.562	-0.0020	-2.5 to 2.5	Pass
				-10	3.7	-3.125	-0.0018	-2.5 to 2.5	Pass
				0	3.7	-3.975	-0.0023	-2.5 to 2.5	Pass
				10	3.7	-2.171	-0.0012	-2.5 to 2.5	Pass
				30	3.7	-2.909	-0.0017	-2.5 to 2.5	Pass
40				3.7	-3.042	-0.0017	-2.5 to 2.5	Pass	
50	3.7	-3.344	-0.0019	-2.5 to 2.5	Pass				
1779.3	6	0	20	3.4	-0.830	-0.0005	-2.5 to 2.5	Pass	
				3.7	1.008	0.0006	-2.5 to 2.5	Pass	
				4.2	-0.921	-0.0005	-2.5 to 2.5	Pass	
			-30	3.7	-1.036	-0.0006	-2.5 to 2.5	Pass	
			-20	3.7	-0.037	0.0000	-2.5 to 2.5	Pass	
			-10	3.7	1.279	0.0007	-2.5 to 2.5	Pass	
			0	3.7	0.963	0.0005	-2.5 to 2.5	Pass	
			10	3.7	1.000	0.0006	-2.5 to 2.5	Pass	
30	3.7	1.248	0.0007	-2.5 to 2.5	Pass				

				40	3.7	0.586	0.0003	-2.5 to 2.5	Pass
				50	3.7	-0.141	-0.0001	-2.5 to 2.5	Pass

## 4.2 B66\_3MHz

### 4.2.1 Test Result

Band: 66 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1711.5	15	0	20	3.4	1.355	0.0008	-2.5 to 2.5	Pass
					3.7	0.224	0.0001	-2.5 to 2.5	Pass
					4.2	0.700	0.0004	-2.5 to 2.5	Pass
				-30	3.7	0.051	0.0000	-2.5 to 2.5	Pass
				-20	3.7	-1.693	-0.0010	-2.5 to 2.5	Pass
				-10	3.7	1.501	0.0009	-2.5 to 2.5	Pass
				0	3.7	-0.335	-0.0002	-2.5 to 2.5	Pass
				10	3.7	-0.048	0.0000	-2.5 to 2.5	Pass
				30	3.7	-0.790	-0.0005	-2.5 to 2.5	Pass
				40	3.7	1.051	0.0006	-2.5 to 2.5	Pass
	50	3.7	-1.023	-0.0006	-2.5 to 2.5	Pass			
	1745	15	0	20	3.4	-1.846	-0.0011	-2.5 to 2.5	Pass
					3.7	-2.870	-0.0016	-2.5 to 2.5	Pass
					4.2	-1.262	-0.0007	-2.5 to 2.5	Pass
				-30	3.7	-3.128	-0.0018	-2.5 to 2.5	Pass
				-20	3.7	-2.562	-0.0015	-2.5 to 2.5	Pass
				-10	3.7	-2.890	-0.0017	-2.5 to 2.5	Pass
				0	3.7	-2.486	-0.0014	-2.5 to 2.5	Pass
				10	3.7	-2.979	-0.0017	-2.5 to 2.5	Pass
				30	3.7	-2.177	-0.0012	-2.5 to 2.5	Pass
				40	3.7	-1.961	-0.0011	-2.5 to 2.5	Pass
	50	3.7	-2.844	-0.0016	-2.5 to 2.5	Pass			
	1778.5	15	0	20	3.4	0.932	0.0005	-2.5 to 2.5	Pass
					3.7	1.649	0.0009	-2.5 to 2.5	Pass
					4.2	2.716	0.0015	-2.5 to 2.5	Pass
				-30	3.7	1.413	0.0008	-2.5 to 2.5	Pass
				-20	3.7	2.107	0.0012	-2.5 to 2.5	Pass
				-10	3.7	0.910	0.0005	-2.5 to 2.5	Pass
				0	3.7	3.245	0.0018	-2.5 to 2.5	Pass
				10	3.7	2.224	0.0013	-2.5 to 2.5	Pass
30				3.7	0.398	0.0002	-2.5 to 2.5	Pass	
40				3.7	1.818	0.0010	-2.5 to 2.5	Pass	
50	3.7	2.711	0.0015	-2.5 to 2.5	Pass				
16QAM	1711.5	15	0	20	3.4	-0.766	-0.0004	-2.5 to 2.5	Pass
					3.7	-1.405	-0.0008	-2.5 to 2.5	Pass
					4.2	0.993	0.0006	-2.5 to 2.5	Pass
				-30	3.7	-0.853	-0.0005	-2.5 to 2.5	Pass
				-20	3.7	0.295	0.0002	-2.5 to 2.5	Pass
				-10	3.7	-0.134	-0.0001	-2.5 to 2.5	Pass
				0	3.7	0.717	0.0004	-2.5 to 2.5	Pass
				10	3.7	0.689	0.0004	-2.5 to 2.5	Pass
				30	3.7	-0.095	-0.0001	-2.5 to 2.5	Pass
				40	3.7	-0.059	0.0000	-2.5 to 2.5	Pass
	50	3.7	0.979	0.0006	-2.5 to 2.5	Pass			
	1745	15	0	20	3.4	-3.723	-0.0021	-2.5 to 2.5	Pass
					3.7	-2.585	-0.0015	-2.5 to 2.5	Pass
					4.2	-3.389	-0.0019	-2.5 to 2.5	Pass

				-30	3.7	-4.191	-0.0024	-2.5 to 2.5	Pass			
				-20	3.7	-3.678	-0.0021	-2.5 to 2.5	Pass			
				-10	3.7	-3.694	-0.0021	-2.5 to 2.5	Pass			
				0	3.7	-2.913	-0.0017	-2.5 to 2.5	Pass			
				10	3.7	-3.830	-0.0022	-2.5 to 2.5	Pass			
				30	3.7	-3.556	-0.0020	-2.5 to 2.5	Pass			
				40	3.7	-4.411	-0.0025	-2.5 to 2.5	Pass			
				50	3.7	-3.314	-0.0019	-2.5 to 2.5	Pass			
	1778.5	15	0	20	3.4	2.100	0.0012	-2.5 to 2.5	Pass			
								3.7	1.640	0.0009	-2.5 to 2.5	Pass
								4.2	2.459	0.0014	-2.5 to 2.5	Pass
							-30	3.7	2.654	0.0015	-2.5 to 2.5	Pass
							-20	3.7	1.987	0.0011	-2.5 to 2.5	Pass
							-10	3.7	2.011	0.0011	-2.5 to 2.5	Pass
							0	3.7	2.467	0.0014	-2.5 to 2.5	Pass
							10	3.7	1.833	0.0010	-2.5 to 2.5	Pass
							30	3.7	2.150	0.0012	-2.5 to 2.5	Pass
							40	3.7	1.851	0.0010	-2.5 to 2.5	Pass
							50	3.7	2.569	0.0014	-2.5 to 2.5	Pass

### 4.3 B66\_5MHz

#### 4.3.1 Test Result

Band: 66 / Bandwidth: 5MHz													
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict				
		Size	Offset				Result	Limit					
QPSK	1712.5	25	0	20	3.4	1.218	0.0007	-2.5 to 2.5	Pass				
						3.7	2.189	0.0013	-2.5 to 2.5	Pass			
						4.2	1.352	0.0008	-2.5 to 2.5	Pass			
								-30	3.7	2.309	0.0013	-2.5 to 2.5	Pass
								-20	3.7	1.542	0.0009	-2.5 to 2.5	Pass
								-10	3.7	1.749	0.0010	-2.5 to 2.5	Pass
								0	3.7	2.101	0.0012	-2.5 to 2.5	Pass
								10	3.7	3.172	0.0019	-2.5 to 2.5	Pass
								30	3.7	0.575	0.0003	-2.5 to 2.5	Pass
								40	3.7	-0.029	0.0000	-2.5 to 2.5	Pass
								50	3.7	0.399	0.0002	-2.5 to 2.5	Pass
					1745	25	0	20	3.4	-4.468	-0.0026	-2.5 to 2.5	Pass
									3.7	-4.963	-0.0028	-2.5 to 2.5	Pass
									4.2	-2.530	-0.0014	-2.5 to 2.5	Pass
								-30	3.7	-1.610	-0.0009	-2.5 to 2.5	Pass
								-20	3.7	-1.343	-0.0008	-2.5 to 2.5	Pass
								-10	3.7	-2.898	-0.0017	-2.5 to 2.5	Pass
								0	3.7	-2.309	-0.0013	-2.5 to 2.5	Pass
								10	3.7	-2.830	-0.0016	-2.5 to 2.5	Pass
								30	3.7	-2.872	-0.0016	-2.5 to 2.5	Pass
								40	3.7	-2.794	-0.0016	-2.5 to 2.5	Pass
								50	3.7	-2.580	-0.0015	-2.5 to 2.5	Pass
		1777.5	25	0				20	3.4	1.254	0.0007	-2.5 to 2.5	Pass
									3.7	0.280	0.0002	-2.5 to 2.5	Pass
									4.2	1.323	0.0007	-2.5 to 2.5	Pass
								-30	3.7	2.000	0.0011	-2.5 to 2.5	Pass
								-20	3.7	-0.885	-0.0005	-2.5 to 2.5	Pass
								-10	3.7	0.232	0.0001	-2.5 to 2.5	Pass
								0	3.7	0.977	0.0005	-2.5 to 2.5	Pass
					10	3.7	-0.338	-0.0002	-2.5 to 2.5	Pass			



				30	3.7	0.518	0.0003	-2.5 to 2.5	Pass
				40	3.7	0.081	0.0000	-2.5 to 2.5	Pass
				50	3.7	1.288	0.0007	-2.5 to 2.5	Pass
16QAM	1712.5	25	0	20	3.4	0.784	0.0005	-2.5 to 2.5	Pass
					3.7	2.765	0.0016	-2.5 to 2.5	Pass
					4.2	2.605	0.0015	-2.5 to 2.5	Pass
				-30	3.7	2.057	0.0012	-2.5 to 2.5	Pass
				-20	3.7	0.529	0.0003	-2.5 to 2.5	Pass
				-10	3.7	0.757	0.0004	-2.5 to 2.5	Pass
				0	3.7	0.257	0.0002	-2.5 to 2.5	Pass
				10	3.7	1.126	0.0007	-2.5 to 2.5	Pass
				30	3.7	1.243	0.0007	-2.5 to 2.5	Pass
				40	3.7	0.818	0.0005	-2.5 to 2.5	Pass
	50	3.7	0.765	0.0004	-2.5 to 2.5	Pass			
	1745	25	0	20	3.4	-1.498	-0.0009	-2.5 to 2.5	Pass
					3.7	-2.066	-0.0012	-2.5 to 2.5	Pass
					4.2	-3.036	-0.0017	-2.5 to 2.5	Pass
				-30	3.7	-4.622	-0.0026	-2.5 to 2.5	Pass
				-20	3.7	-1.818	-0.0010	-2.5 to 2.5	Pass
				-10	3.7	-1.873	-0.0011	-2.5 to 2.5	Pass
				0	3.7	-3.112	-0.0018	-2.5 to 2.5	Pass
				10	3.7	-2.224	-0.0013	-2.5 to 2.5	Pass
				30	3.7	-1.948	-0.0011	-2.5 to 2.5	Pass
				40	3.7	-1.529	-0.0009	-2.5 to 2.5	Pass
	50	3.7	-1.308	-0.0007	-2.5 to 2.5	Pass			
	1777.5	25	0	20	3.4	-0.006	0.0000	-2.5 to 2.5	Pass
					3.7	0.833	0.0005	-2.5 to 2.5	Pass
					4.2	1.102	0.0006	-2.5 to 2.5	Pass
				-30	3.7	1.307	0.0007	-2.5 to 2.5	Pass
				-20	3.7	0.608	0.0003	-2.5 to 2.5	Pass
				-10	3.7	1.299	0.0007	-2.5 to 2.5	Pass
				0	3.7	0.858	0.0005	-2.5 to 2.5	Pass
				10	3.7	0.666	0.0004	-2.5 to 2.5	Pass
30				3.7	1.828	0.0010	-2.5 to 2.5	Pass	
40				3.7	1.142	0.0006	-2.5 to 2.5	Pass	
50	3.7	1.042	0.0006	-2.5 to 2.5	Pass				

#### 4.4 B66\_10MHz

##### 4.4.1 Test Result

Band: 66 / Bandwidth: 10MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	1715	50	0	20	3.4	-2.073	-0.0012	-2.5 to 2.5	Pass			
					3.7	-3.379	-0.0020	-2.5 to 2.5	Pass			
					4.2	-2.890	-0.0017	-2.5 to 2.5	Pass			
				-30	3.7	-2.137	-0.0012	-2.5 to 2.5	Pass			
				-20	3.7	-3.780	-0.0022	-2.5 to 2.5	Pass			
				-10	3.7	-2.930	-0.0017	-2.5 to 2.5	Pass			
				0	3.7	-2.604	-0.0015	-2.5 to 2.5	Pass			
				10	3.7	-1.653	-0.0010	-2.5 to 2.5	Pass			
				30	3.7	-2.013	-0.0012	-2.5 to 2.5	Pass			
				40	3.7	-3.908	-0.0023	-2.5 to 2.5	Pass			
				50	3.7	-2.976	-0.0017	-2.5 to 2.5	Pass			
				1745	50	0	20	3.4	-2.250	-0.0013	-2.5 to 2.5	Pass
								3.7	-2.857	-0.0016	-2.5 to 2.5	Pass

					4.2	-3.642	-0.0021	-2.5 to 2.5	Pass
				-30	3.7	-3.714	-0.0021	-2.5 to 2.5	Pass
				-20	3.7	-3.733	-0.0021	-2.5 to 2.5	Pass
				-10	3.7	-2.931	-0.0017	-2.5 to 2.5	Pass
				0	3.7	-3.074	-0.0018	-2.5 to 2.5	Pass
				10	3.7	-3.109	-0.0018	-2.5 to 2.5	Pass
				30	3.7	-1.978	-0.0011	-2.5 to 2.5	Pass
				40	3.7	-2.427	-0.0014	-2.5 to 2.5	Pass
				50	3.7	-4.152	-0.0024	-2.5 to 2.5	Pass
	1775	50	0	20	3.4	-3.363	-0.0019	-2.5 to 2.5	Pass
					3.7	-2.768	-0.0016	-2.5 to 2.5	Pass
					4.2	-3.137	-0.0018	-2.5 to 2.5	Pass
				-30	3.7	-1.838	-0.0010	-2.5 to 2.5	Pass
				-20	3.7	-4.086	-0.0023	-2.5 to 2.5	Pass
				-10	3.7	-3.250	-0.0018	-2.5 to 2.5	Pass
				0	3.7	-2.009	-0.0011	-2.5 to 2.5	Pass
				10	3.7	-2.718	-0.0015	-2.5 to 2.5	Pass
				30	3.7	-2.163	-0.0012	-2.5 to 2.5	Pass
16QAM	1715	50	0	20	3.4	-3.206	-0.0019	-2.5 to 2.5	Pass
					3.7	-2.477	-0.0014	-2.5 to 2.5	Pass
					4.2	-1.890	-0.0011	-2.5 to 2.5	Pass
				-30	3.7	-3.45	-0.0019	-2.5 to 2.5	Pass
				-20	3.7	-3.465	-0.0020	-2.5 to 2.5	Pass
				-10	3.7	-2.865	-0.0017	-2.5 to 2.5	Pass
				0	3.7	-4.237	-0.0025	-2.5 to 2.5	Pass
				10	3.7	-3.816	-0.0022	-2.5 to 2.5	Pass
				30	3.7	-2.398	-0.0014	-2.5 to 2.5	Pass
	1745	50	0	20	3.4	-3.988	-0.0023	-2.5 to 2.5	Pass
					3.7	-2.418	-0.0014	-2.5 to 2.5	Pass
					4.2	-2.568	-0.0015	-2.5 to 2.5	Pass
				-30	3.7	-3.540	-0.0020	-2.5 to 2.5	Pass
				-20	3.7	-3.295	-0.0019	-2.5 to 2.5	Pass
				-10	3.7	-2.191	-0.0013	-2.5 to 2.5	Pass
				0	3.7	-2.884	-0.0017	-2.5 to 2.5	Pass
				10	3.7	-1.152	-0.0007	-2.5 to 2.5	Pass
				30	3.7	-1.501	-0.0009	-2.5 to 2.5	Pass
1775	50	0	20	3.4	-1.765	-0.0010	-2.5 to 2.5	Pass	
				3.7	-3.100	-0.0017	-2.5 to 2.5	Pass	
				4.2	-3.419	-0.0019	-2.5 to 2.5	Pass	
			-30	3.7	-3.474	-0.0020	-2.5 to 2.5	Pass	
			-20	3.7	-1.349	-0.0008	-2.5 to 2.5	Pass	
			-10	3.7	-2.313	-0.0013	-2.5 to 2.5	Pass	
			0	3.7	-2.159	-0.0012	-2.5 to 2.5	Pass	
			10	3.7	-2.494	-0.0014	-2.5 to 2.5	Pass	
			30	3.7	-2.773	-0.0016	-2.5 to 2.5	Pass	
40	3.7	-1.577	-0.0009	-2.5 to 2.5	Pass				
50	3.7	-3.221	-0.0018	-2.5 to 2.5	Pass				

## 4.5 B66\_15MHz

### 4.5.1 Test Result

Band: 66 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	1717.5	75	0	20	3.4	-0.277	-0.0002	-2.5 to 2.5	Pass
					3.7	-0.597	-0.0003	-2.5 to 2.5	Pass
					4.2	1.525	0.0009	-2.5 to 2.5	Pass
				-30	3.7	0.494	0.0003	-2.5 to 2.5	Pass
				-20	3.7	1.648	0.0010	-2.5 to 2.5	Pass
				-10	3.7	0.162	0.0001	-2.5 to 2.5	Pass
				0	3.7	-0.683	-0.0004	-2.5 to 2.5	Pass
				10	3.7	1.061	0.0006	-2.5 to 2.5	Pass
				30	3.7	-0.108	-0.0001	-2.5 to 2.5	Pass
				40	3.7	0.855	0.0005	-2.5 to 2.5	Pass
	50	3.7	0.321	0.0002	-2.5 to 2.5	Pass			
	1745	75	0	20	3.4	-2.814	-0.0016	-2.5 to 2.5	Pass
					3.7	-2.644	-0.0015	-2.5 to 2.5	Pass
					4.2	-0.895	-0.0005	-2.5 to 2.5	Pass
				-30	3.7	-2.084	-0.0012	-2.5 to 2.5	Pass
				-20	3.7	-2.349	-0.0013	-2.5 to 2.5	Pass
				-10	3.7	-2.063	-0.0012	-2.5 to 2.5	Pass
				0	3.7	-2.641	-0.0015	-2.5 to 2.5	Pass
				10	3.7	-2.701	-0.0015	-2.5 to 2.5	Pass
				30	3.7	-4.575	-0.0026	-2.5 to 2.5	Pass
				40	3.7	-1.995	-0.0011	-2.5 to 2.5	Pass
	50	3.7	-2.040	-0.0012	-2.5 to 2.5	Pass			
	1772.5	75	0	20	3.4	1.766	0.0010	-2.5 to 2.5	Pass
					3.7	0.362	0.0002	-2.5 to 2.5	Pass
					4.2	1.490	0.0008	-2.5 to 2.5	Pass
				-30	3.7	2.160	0.0012	-2.5 to 2.5	Pass
				-20	3.7	1.032	0.0006	-2.5 to 2.5	Pass
				-10	3.7	0.521	0.0003	-2.5 to 2.5	Pass
				0	3.7	3.461	0.0020	-2.5 to 2.5	Pass
				10	3.7	1.551	0.0009	-2.5 to 2.5	Pass
30				3.7	1.657	0.0009	-2.5 to 2.5	Pass	
40				3.7	3.577	0.0020	-2.5 to 2.5	Pass	
50	3.7	0.984	0.0006	-2.5 to 2.5	Pass				
16QAM	1717.5	75	0	20	3.4	0.350	0.0002	-2.5 to 2.5	Pass
					3.7	-1.066	-0.0006	-2.5 to 2.5	Pass
					4.2	-0.557	-0.0003	-2.5 to 2.5	Pass
				-30	3.7	-1.034	-0.0006	-2.5 to 2.5	Pass
				-20	3.7	0.170	0.0001	-2.5 to 2.5	Pass
				-10	3.7	1.292	0.0008	-2.5 to 2.5	Pass
				0	3.7	2.773	0.0016	-2.5 to 2.5	Pass
				10	3.7	1.194	0.0007	-2.5 to 2.5	Pass
				30	3.7	-0.426	-0.0002	-2.5 to 2.5	Pass
				40	3.7	-0.031	0.0000	-2.5 to 2.5	Pass
	50	3.7	0.795	0.0005	-2.5 to 2.5	Pass			
	1745	75	0	20	3.4	-3.554	-0.0020	-2.5 to 2.5	Pass
					3.7	-1.911	-0.0011	-2.5 to 2.5	Pass
					4.2	-2.642	-0.0015	-2.5 to 2.5	Pass
				-30	3.7	-4.089	-0.0023	-2.5 to 2.5	Pass
				-20	3.7	-2.855	-0.0016	-2.5 to 2.5	Pass
				-10	3.7	-2.581	-0.0015	-2.5 to 2.5	Pass
				0	3.7	-1.945	-0.0011	-2.5 to 2.5	Pass
				10	3.7	-2.426	-0.0014	-2.5 to 2.5	Pass
				30	3.7	-2.764	-0.0016	-2.5 to 2.5	Pass
				40	3.7	-3.48	-0.0019	-2.5 to 2.5	Pass
	50	3.7	-2.787	-0.0016	-2.5 to 2.5	Pass			
1772.5	75	0	20	3.4	1.236	0.0007	-2.5 to 2.5	Pass	

					3.7	1.582	0.0009	-2.5 to 2.5	Pass
					4.2	2.402	0.0014	-2.5 to 2.5	Pass
				-30	3.7	1.976	0.0011	-2.5 to 2.5	Pass
				-20	3.7	1.692	0.0010	-2.5 to 2.5	Pass
				-10	3.7	3.575	0.0020	-2.5 to 2.5	Pass
				0	3.7	3.347	0.0019	-2.5 to 2.5	Pass
				10	3.7	2.983	0.0017	-2.5 to 2.5	Pass
				30	3.7	2.090	0.0012	-2.5 to 2.5	Pass
				40	3.7	0.801	0.0005	-2.5 to 2.5	Pass
				50	3.7	1.469	0.0008	-2.5 to 2.5	Pass

## 4.6 B66\_20MHz

### 4.6.1 Test Result

Band: 66 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	1720	100	0	20	3.4	2.212	0.0013	-2.5 to 2.5	Pass	
					3.7	2.467	0.0014	-2.5 to 2.5	Pass	
					4.2	3.091	0.0018	-2.5 to 2.5	Pass	
				-30	3.7	2.511	0.0015	-2.5 to 2.5	Pass	
					-20	3.7	2.276	0.0013	-2.5 to 2.5	Pass
						-10	3.7	2.725	0.0016	-2.5 to 2.5
				0	3.7	1.134	0.0007	-2.5 to 2.5	Pass	
					10	3.7	1.805	0.0010	-2.5 to 2.5	Pass
					30	3.7	1.584	0.0009	-2.5 to 2.5	Pass
	40	3.7	1.682		0.0010	-2.5 to 2.5	Pass			
	50	3.7	2.449		0.0014	-2.5 to 2.5	Pass			
	1745	100	0	20	3.4	-3.025	-0.0017	-2.5 to 2.5	Pass	
					3.7	-3.738	-0.0021	-2.5 to 2.5	Pass	
					4.2	-3.304	-0.0019	-2.5 to 2.5	Pass	
				-30	3.7	-1.967	-0.0011	-2.5 to 2.5	Pass	
					-20	3.7	-3.960	-0.0023	-2.5 to 2.5	Pass
						-10	3.7	-3.115	-0.0018	-2.5 to 2.5
				0	3.7	-2.723	-0.0016	-2.5 to 2.5	Pass	
					10	3.7	-2.387	-0.0014	-2.5 to 2.5	Pass
					30	3.7	-2.592	-0.0015	-2.5 to 2.5	Pass
	40	3.7	-2.901		-0.0017	-2.5 to 2.5	Pass			
	50	3.7	-2.654		-0.0015	-2.5 to 2.5	Pass			
	1770	100	0	20	3.4	0.876	0.0005	-2.5 to 2.5	Pass	
					3.7	0.173	0.0001	-2.5 to 2.5	Pass	
					4.2	0.636	0.0004	-2.5 to 2.5	Pass	
				-30	3.7	0.118	0.0001	-2.5 to 2.5	Pass	
					-20	3.7	0.043	0.0000	-2.5 to 2.5	Pass
-10						3.7	-0.535	-0.0003	-2.5 to 2.5	Pass
0				3.7	-0.169	-0.0001	-2.5 to 2.5	Pass		
				10	3.7	1.254	0.0007	-2.5 to 2.5	Pass	
				30	3.7	-0.712	-0.0004	-2.5 to 2.5	Pass	
	40	3.7	1.837	0.0010	-2.5 to 2.5	Pass				
	50	3.7	0.368	0.0002	-2.5 to 2.5	Pass				
16QAM	1720	100	0	20	3.4	0.614	0.0004	-2.5 to 2.5	Pass	
					3.7	1.568	0.0009	-2.5 to 2.5	Pass	
					4.2	0.754	0.0004	-2.5 to 2.5	Pass	
				-30	3.7	-0.024	0.0000	-2.5 to 2.5	Pass	
					-20	3.7	2.063	0.0012	-2.5 to 2.5	Pass
-10	3.7	2.132	0.0012	-2.5 to 2.5	Pass					

				0	3.7	2.292	0.0013	-2.5 to 2.5	Pass
				10	3.7	0.197	0.0001	-2.5 to 2.5	Pass
				30	3.7	0.857	0.0005	-2.5 to 2.5	Pass
				40	3.7	2.189	0.0013	-2.5 to 2.5	Pass
				50	3.7	0.708	0.0004	-2.5 to 2.5	Pass
	1745	100	0	20	3.4	-2.558	-0.0015	-2.5 to 2.5	Pass
					3.7	-3.512	-0.0020	-2.5 to 2.5	Pass
					4.2	-2.230	-0.0013	-2.5 to 2.5	Pass
				-30	3.7	-3.201	-0.0018	-2.5 to 2.5	Pass
				-20	3.7	-2.804	-0.0016	-2.5 to 2.5	Pass
				-10	3.7	-1.505	-0.0009	-2.5 to 2.5	Pass
				0	3.7	-3.367	-0.0019	-2.5 to 2.5	Pass
				10	3.7	-2.215	-0.0013	-2.5 to 2.5	Pass
				30	3.7	-2.351	-0.0013	-2.5 to 2.5	Pass
				40	3.7	-2.763	-0.0016	-2.5 to 2.5	Pass
				50	3.7	-3.707	-0.0021	-2.5 to 2.5	Pass
				1770	100	0	20	3.4	1.479
	3.7	1.850	0.0010					-2.5 to 2.5	Pass
	4.2	1.810	0.0010					-2.5 to 2.5	Pass
	-30	3.7	0.166				0.0001	-2.5 to 2.5	Pass
	-20	3.7	-0.912				-0.0005	-2.5 to 2.5	Pass
	-10	3.7	0.227				0.0001	-2.5 to 2.5	Pass
	0	3.7	-0.292				-0.0002	-2.5 to 2.5	Pass
	10	3.7	1.619				0.0009	-2.5 to 2.5	Pass
	30	3.7	1.005				0.0006	-2.5 to 2.5	Pass
	40	3.7	0.697				0.0004	-2.5 to 2.5	Pass
	50	3.7	0.131				0.0001	-2.5 to 2.5	Pass

## 5. Frequency Stability

### 5.1 B7\_5MHz

#### 5.1.1 Test Result

Band: 7 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2502.5	25	0	20	3.4	0.227	0.0001	-2.5 to 2.5	Pass
					3.7	2.451	0.0010	-2.5 to 2.5	Pass
					4.2	1.754	0.0007	-2.5 to 2.5	Pass
				-30	3.7	2.999	0.0012	-2.5 to 2.5	Pass
				-20	3.7	2.248	0.0009	-2.5 to 2.5	Pass
				-10	3.7	0.278	0.0001	-2.5 to 2.5	Pass
				0	3.7	0.999	0.0004	-2.5 to 2.5	Pass
				10	3.7	4.192	0.0017	-2.5 to 2.5	Pass
				30	3.7	2.139	0.0009	-2.5 to 2.5	Pass
	40	3.7	0.644	0.0003	-2.5 to 2.5	Pass			
	50	3.7	0.968	0.0004	-2.5 to 2.5	Pass			
	2535	25	0	20	3.4	-1.182	-0.0005	-2.5 to 2.5	Pass
					3.7	-0.290	-0.0001	-2.5 to 2.5	Pass
					4.2	-1.641	-0.0006	-2.5 to 2.5	Pass
				-30	3.7	-1.136	-0.0004	-2.5 to 2.5	Pass
				-20	3.7	-0.716	-0.0003	-2.5 to 2.5	Pass
				-10	3.7	-0.660	-0.0003	-2.5 to 2.5	Pass
				0	3.7	-1.001	-0.0004	-2.5 to 2.5	Pass
10				3.7	-0.530	-0.0002	-2.5 to 2.5	Pass	

				30	3.7	-0.109	0.0000	-2.5 to 2.5	Pass			
				40	3.7	-2.031	-0.0008	-2.5 to 2.5	Pass			
				50	3.7	-0.347	-0.0001	-2.5 to 2.5	Pass			
				20	3.4	0.549	0.0002	-2.5 to 2.5	Pass			
					3.7	0.223	0.0001	-2.5 to 2.5	Pass			
					4.2	0.405	0.0002	-2.5 to 2.5	Pass			
				-30	3.7	-0.651	-0.0003	-2.5 to 2.5	Pass			
				-20	3.7	-2.160	-0.0008	-2.5 to 2.5	Pass			
				-10	3.7	-2.303	-0.0009	-2.5 to 2.5	Pass			
				0	3.7	0.912	0.0004	-2.5 to 2.5	Pass			
				10	3.7	0.811	0.0003	-2.5 to 2.5	Pass			
				30	3.7	1.094	0.0004	-2.5 to 2.5	Pass			
				40	3.7	2.386	0.0009	-2.5 to 2.5	Pass			
				50	3.7	0.110	0.0000	-2.5 to 2.5	Pass			
				16QAM	2502.5	25	0	20	3.4	3.212	0.0013	-2.5 to 2.5
3.7	2.655	0.0011	-2.5 to 2.5						Pass			
4.2	2.234	0.0009	-2.5 to 2.5						Pass			
-30	3.7	1.056	0.0004					-2.5 to 2.5	Pass			
-20	3.7	2.872	0.0011					-2.5 to 2.5	Pass			
-10	3.7	4.082	0.0016					-2.5 to 2.5	Pass			
0	3.7	2.482	0.0010					-2.5 to 2.5	Pass			
10	3.7	2.903	0.0012					-2.5 to 2.5	Pass			
30	3.7	0.296	0.0001					-2.5 to 2.5	Pass			
40	3.7	3.405	0.0014					-2.5 to 2.5	Pass			
50	3.7	0.747	0.0003					-2.5 to 2.5	Pass			
2535	25	0	20					3.4	-1.106	-0.0004	-2.5 to 2.5	Pass
								3.7	-2.685	-0.0011	-2.5 to 2.5	Pass
								4.2	-2.412	-0.0010	-2.5 to 2.5	Pass
			-30					3.7	-1.966	-0.0008	-2.5 to 2.5	Pass
			-20		3.7	-2.242	-0.0009	-2.5 to 2.5	Pass			
			-10		3.7	-1.476	-0.0006	-2.5 to 2.5	Pass			
			0		3.7	-1.578	-0.0006	-2.5 to 2.5	Pass			
			10		3.7	-2.471	-0.0010	-2.5 to 2.5	Pass			
			30		3.7	-2.542	-0.0010	-2.5 to 2.5	Pass			
			40		3.7	-3.059	-0.0012	-2.5 to 2.5	Pass			
			50		3.7	-2.227	-0.0009	-2.5 to 2.5	Pass			
			2567.5		25	0	20	3.4	0.889	0.0003	-2.5 to 2.5	Pass
								3.7	2.460	0.0010	-2.5 to 2.5	Pass
								4.2	-1.694	-0.0007	-2.5 to 2.5	Pass
							-30	3.7	-1.376	-0.0005	-2.5 to 2.5	Pass
-20	3.7	-0.273					-0.0001	-2.5 to 2.5	Pass			
-10	3.7	0.682					0.0003	-2.5 to 2.5	Pass			
0	3.7	0.935					0.0004	-2.5 to 2.5	Pass			
10	3.7	1.933					0.0008	-2.5 to 2.5	Pass			
30	3.7	2.289		0.0009			-2.5 to 2.5	Pass				
40	3.7	-1.340		-0.0005			-2.5 to 2.5	Pass				
50	3.7	2.406		0.0009			-2.5 to 2.5	Pass				

## 5.2 B7\_10MHz

### 5.2.1 Test Result

Band: 7 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2505	50	0	20	3.4	-4.926	-0.0020	-2.5 to 2.5	Pass
					3.7	-4.819	-0.0019	-2.5 to 2.5	Pass

					4.2	-4.140	-0.0017	-2.5 to 2.5	Pass
				-30	3.7	-4.612	-0.0018	-2.5 to 2.5	Pass
				-20	3.7	-3.128	-0.0012	-2.5 to 2.5	Pass
				-10	3.7	-3.916	-0.0016	-2.5 to 2.5	Pass
				0	3.7	-5.684	-0.0023	-2.5 to 2.5	Pass
				10	3.7	-4.733	-0.0019	-2.5 to 2.5	Pass
				30	3.7	-0.314	-0.0001	-2.5 to 2.5	Pass
				40	3.7	-1.729	-0.0007	-2.5 to 2.5	Pass
	50	3.7	-3.960	-0.0016	-2.5 to 2.5	Pass			
	2535	50	0	20	3.4	-4.198	-0.0017	-2.5 to 2.5	Pass
					3.7	-3.525	-0.0014	-2.5 to 2.5	Pass
					4.2	-3.390	-0.0013	-2.5 to 2.5	Pass
				-30	3.7	-0.871	-0.0003	-2.5 to 2.5	Pass
				-20	3.7	-1.334	-0.0005	-2.5 to 2.5	Pass
				-10	3.7	-2.603	-0.0010	-2.5 to 2.5	Pass
				0	3.7	-2.650	-0.0010	-2.5 to 2.5	Pass
				10	3.7	-1.753	-0.0007	-2.5 to 2.5	Pass
				30	3.7	-1.835	-0.0007	-2.5 to 2.5	Pass
				40	3.7	-1.566	-0.0006	-2.5 to 2.5	Pass
				50	3.7	-1.634	-0.0006	-2.5 to 2.5	Pass
				2565	50	0	20	3.4	-1.841
	3.7	-2.179	-0.0008					-2.5 to 2.5	Pass
	4.2	-3.572	-0.0014					-2.5 to 2.5	Pass
	-30	3.7	-2.238				-0.0009	-2.5 to 2.5	Pass
	-20	3.7	-3.742				-0.0015	-2.5 to 2.5	Pass
	-10	3.7	-4.363				-0.0017	-2.5 to 2.5	Pass
	0	3.7	-4.637				-0.0018	-2.5 to 2.5	Pass
	10	3.7	-4.560				-0.0018	-2.5 to 2.5	Pass
	30	3.7	-3.462				-0.0013	-2.5 to 2.5	Pass
	40	3.7	-3.770				-0.0015	-2.5 to 2.5	Pass
50	3.7	-2.641	-0.0010				-2.5 to 2.5	Pass	
16QAM	2505	50	0				20	3.4	-4.860
				3.7	-2.324	-0.0009		-2.5 to 2.5	Pass
				4.2	-1.821	-0.0007		-2.5 to 2.5	Pass
				-30	3.7	-5.113	-0.0020	-2.5 to 2.5	Pass
				-20	3.7	-4.467	-0.0018	-2.5 to 2.5	Pass
				-10	3.7	-3.73	-0.0015	-2.5 to 2.5	Pass
				0	3.7	-2.621	-0.0010	-2.5 to 2.5	Pass
				10	3.7	-4.464	-0.0018	-2.5 to 2.5	Pass
				30	3.7	-1.110	-0.0004	-2.5 to 2.5	Pass
				40	3.7	-1.874	-0.0007	-2.5 to 2.5	Pass
				50	3.7	-0.719	-0.0003	-2.5 to 2.5	Pass
				2535	50	0	20	3.4	-0.661
	3.7	-0.603	-0.0002					-2.5 to 2.5	Pass
	4.2	-2.701	-0.0011					-2.5 to 2.5	Pass
	-30	3.7	-1.623				-0.0006	-2.5 to 2.5	Pass
	-20	3.7	-5.085				-0.0020	-2.5 to 2.5	Pass
	-10	3.7	-3.288				-0.0013	-2.5 to 2.5	Pass
	0	3.7	-1.457				-0.0006	-2.5 to 2.5	Pass
	10	3.7	-3.430				-0.0014	-2.5 to 2.5	Pass
	30	3.7	-3.452				-0.0014	-2.5 to 2.5	Pass
	40	3.7	-2.243				-0.0009	-2.5 to 2.5	Pass
	50	3.7	-1.985				-0.0008	-2.5 to 2.5	Pass
	2565	50	0				20	3.4	-3.876
				3.7	-4.928	-0.0019		-2.5 to 2.5	Pass
				4.2	-3.871	-0.0015		-2.5 to 2.5	Pass
				-30	3.7	6.463	0.0025	-2.5 to 2.5	Pass
				-20	3.7	-1.644	-0.0006	-2.5 to 2.5	Pass
				-10	3.7	-1.099	-0.0004	-2.5 to 2.5	Pass

				0	3.7	-4.241	-0.0017	-2.5 to 2.5	Pass
				10	3.7	-0.797	-0.0003	-2.5 to 2.5	Pass
				30	3.7	-2.605	-0.0010	-2.5 to 2.5	Pass
				40	3.7	-4.773	-0.0019	-2.5 to 2.5	Pass
				50	3.7	-2.746	-0.0011	-2.5 to 2.5	Pass

### 5.3 B7\_15MHz

#### 5.3.1 Test Result

Band: 7 / Bandwidth: 15MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2507.5	75	0	20	3.4	0.801	0.0003	-2.5 to 2.5	Pass
					3.7	1.259	0.0005	-2.5 to 2.5	Pass
					4.2	-0.939	-0.0004	-2.5 to 2.5	Pass
				-30	3.7	2.447	0.0010	-2.5 to 2.5	Pass
				-20	3.7	1.778	0.0007	-2.5 to 2.5	Pass
				-10	3.7	-0.982	-0.0004	-2.5 to 2.5	Pass
				0	3.7	0.262	0.0001	-2.5 to 2.5	Pass
				10	3.7	0.161	0.0001	-2.5 to 2.5	Pass
				30	3.7	-0.045	0.0000	-2.5 to 2.5	Pass
				40	3.7	2.553	0.0010	-2.5 to 2.5	Pass
	50	3.7	-0.657	-0.0003	-2.5 to 2.5	Pass			
	2535	75	0	20	3.4	-1.618	-0.0006	-2.5 to 2.5	Pass
					3.7	-4.894	-0.0019	-2.5 to 2.5	Pass
					4.2	-1.330	-0.0005	-2.5 to 2.5	Pass
				-30	3.7	-1.640	-0.0006	-2.5 to 2.5	Pass
				-20	3.7	-3.246	-0.0013	-2.5 to 2.5	Pass
				-10	3.7	-2.213	-0.0009	-2.5 to 2.5	Pass
				0	3.7	-4.279	-0.0017	-2.5 to 2.5	Pass
				10	3.7	-3.579	-0.0014	-2.5 to 2.5	Pass
				30	3.7	-2.223	-0.0009	-2.5 to 2.5	Pass
				40	3.7	-5.033	-0.0020	-2.5 to 2.5	Pass
	50	3.7	0.087	0.0000	-2.5 to 2.5	Pass			
	2562.5	75	0	20	3.4	0.125	0.0000	-2.5 to 2.5	Pass
					3.7	1.527	0.0006	-2.5 to 2.5	Pass
					4.2	3.022	0.0012	-2.5 to 2.5	Pass
				-30	3.7	0.512	0.0002	-2.5 to 2.5	Pass
				-20	3.7	3.286	0.0013	-2.5 to 2.5	Pass
				-10	3.7	1.604	0.0006	-2.5 to 2.5	Pass
				0	3.7	0.178	0.0001	-2.5 to 2.5	Pass
				10	3.7	2.443	0.0010	-2.5 to 2.5	Pass
30				3.7	2.141	0.0008	-2.5 to 2.5	Pass	
40				3.7	0.159	0.0001	-2.5 to 2.5	Pass	
50	3.7	2.744	0.0011	-2.5 to 2.5	Pass				
16QAM	2507.5	75	0	20	3.4	1.599	0.0006	-2.5 to 2.5	Pass
					3.7	2.715	0.0011	-2.5 to 2.5	Pass
					4.2	1.325	0.0005	-2.5 to 2.5	Pass
				-30	3.7	1.520	0.0006	-2.5 to 2.5	Pass
				-20	3.7	0.980	0.0004	-2.5 to 2.5	Pass
				-10	3.7	-0.379	-0.0002	-2.5 to 2.5	Pass
				0	3.7	2.410	0.0010	-2.5 to 2.5	Pass
				10	3.7	1.628	0.0006	-2.5 to 2.5	Pass
				30	3.7	2.705	0.0011	-2.5 to 2.5	Pass
				40	3.7	-0.004	0.0000	-2.5 to 2.5	Pass
50	3.7	1.172	0.0005	-2.5 to 2.5	Pass				



	2535	75	0	20	3.4	-4.383	-0.0017	-2.5 to 2.5	Pass	
					3.7	-2.348	-0.0009	-2.5 to 2.5	Pass	
					4.2	-2.351	-0.0009	-2.5 to 2.5	Pass	
				-30	3.7	-4.986	-0.0020	-2.5 to 2.5	Pass	
					-20	3.7	-3.78	-0.0015	-2.5 to 2.5	Pass
					-10	3.7	-3.658	-0.0014	-2.5 to 2.5	Pass
				0	3.7	-4.582	-0.0018	-2.5 to 2.5	Pass	
					10	3.7	-4.329	-0.0017	-2.5 to 2.5	Pass
					30	3.7	-4.220	-0.0017	-2.5 to 2.5	Pass
	40	3.7	-3.596		-0.0014	-2.5 to 2.5	Pass			
	50	3.7	-2.037		-0.0008	-2.5 to 2.5	Pass			
	2562.5	75	0		20	3.4	1.720	0.0007	-2.5 to 2.5	Pass
						3.7	3.945	0.0015	-2.5 to 2.5	Pass
				4.2		2.379	0.0009	-2.5 to 2.5	Pass	
				-30	3.7	1.748	0.0007	-2.5 to 2.5	Pass	
					-20	3.7	0.091	0.0000	-2.5 to 2.5	Pass
					-10	3.7	0.101	0.0000	-2.5 to 2.5	Pass
				0	3.7	1.296	0.0005	-2.5 to 2.5	Pass	
					10	3.7	1.803	0.0007	-2.5 to 2.5	Pass
30					3.7	0.957	0.0004	-2.5 to 2.5	Pass	
40	3.7	2.476	0.0010		-2.5 to 2.5	Pass				
50	3.7	0.858	0.0003		-2.5 to 2.5	Pass				

## 5.4 B7\_20MHz

### 5.4.1 Test Result

Band: 7 / Bandwidth: 20MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2510	100	0	20	3.4	2.159	0.0009	-2.5 to 2.5	Pass	
					3.7	4.175	0.0017	-2.5 to 2.5	Pass	
					4.2	1.606	0.0006	-2.5 to 2.5	Pass	
				-30	3.7	1.223	0.0005	-2.5 to 2.5	Pass	
					-20	3.7	2.426	0.0010	-2.5 to 2.5	Pass
					-10	3.7	3.989	0.0016	-2.5 to 2.5	Pass
				0	3.7	4.326	0.0017	-2.5 to 2.5	Pass	
					10	3.7	1.744	0.0007	-2.5 to 2.5	Pass
					30	3.7	0.622	0.0002	-2.5 to 2.5	Pass
	40	3.7	2.556		0.0010	-2.5 to 2.5	Pass			
	50	3.7	3.141		0.0013	-2.5 to 2.5	Pass			
	2535	100	0		20	3.4	-3.410	-0.0013	-2.5 to 2.5	Pass
						3.7	-0.454	-0.0002	-2.5 to 2.5	Pass
				4.2		-1.935	-0.0008	-2.5 to 2.5	Pass	
				-30	3.7	-3.407	-0.0013	-2.5 to 2.5	Pass	
					-20	3.7	-4.654	-0.0018	-2.5 to 2.5	Pass
					-10	3.7	-2.354	-0.0009	-2.5 to 2.5	Pass
				0	3.7	-1.955	-0.0008	-2.5 to 2.5	Pass	
					10	3.7	-2.678	-0.0011	-2.5 to 2.5	Pass
					30	3.7	-4.072	-0.0016	-2.5 to 2.5	Pass
	40	3.7	-3.999		-0.0016	-2.5 to 2.5	Pass			
	50	3.7	-3.379		-0.0013	-2.5 to 2.5	Pass			
	2560	100	0		20	3.4	1.179	0.0005	-2.5 to 2.5	Pass
						3.7	0.119	0.0000	-2.5 to 2.5	Pass
				4.2		-0.931	-0.0004	-2.5 to 2.5	Pass	
				-30	3.7	-0.172	-0.0001	-2.5 to 2.5	Pass	
				-20	3.7	1.929	0.0008	-2.5 to 2.5	Pass	

				-10	3.7	0.391	0.0002	-2.5 to 2.5	Pass
				0	3.7	3.589	0.0014	-2.5 to 2.5	Pass
				10	3.7	1.347	0.0005	-2.5 to 2.5	Pass
				30	3.7	1.904	0.0007	-2.5 to 2.5	Pass
				40	3.7	1.687	0.0007	-2.5 to 2.5	Pass
				50	3.7	4.319	0.0017	-2.5 to 2.5	Pass
16QAM	2510	100	0	20	3.4	1.895	0.0008	-2.5 to 2.5	Pass
					3.7	0.163	0.0001	-2.5 to 2.5	Pass
					4.2	2.690	0.0011	-2.5 to 2.5	Pass
				-30	3.7	3.053	0.0012	-2.5 to 2.5	Pass
				-20	3.7	1.328	0.0005	-2.5 to 2.5	Pass
				-10	3.7	2.585	0.0010	-2.5 to 2.5	Pass
				0	3.7	0.930	0.0004	-2.5 to 2.5	Pass
				10	3.7	1.329	0.0005	-2.5 to 2.5	Pass
				30	3.7	4.710	0.0019	-2.5 to 2.5	Pass
				40	3.7	3.233	0.0013	-2.5 to 2.5	Pass
	50	3.7	0.049	0.0000	-2.5 to 2.5	Pass			
	2535	100	0	20	3.4	-1.660	-0.0007	-2.5 to 2.5	Pass
					3.7	-4.231	-0.0017	-2.5 to 2.5	Pass
					4.2	-0.372	-0.0001	-2.5 to 2.5	Pass
				-30	3.7	-3.632	-0.0014	-2.5 to 2.5	Pass
				-20	3.7	-5.218	-0.0021	-2.5 to 2.5	Pass
				-10	3.7	-4.877	-0.0019	-2.5 to 2.5	Pass
				0	3.7	-1.660	-0.0007	-2.5 to 2.5	Pass
				10	3.7	0.726	0.0003	-2.5 to 2.5	Pass
				30	3.7	-0.710	-0.0003	-2.5 to 2.5	Pass
				40	3.7	-1.636	-0.0006	-2.5 to 2.5	Pass
	50	3.7	-0.746	-0.0003	-2.5 to 2.5	Pass			
	2560	100	0	20	3.4	-1.026	-0.0004	-2.5 to 2.5	Pass
					3.7	-1.253	-0.0005	-2.5 to 2.5	Pass
					4.2	2.920	0.0011	-2.5 to 2.5	Pass
				-30	3.7	-1.907	-0.0007	-2.5 to 2.5	Pass
				-20	3.7	-1.629	-0.0006	-2.5 to 2.5	Pass
				-10	3.7	3.281	0.0013	-2.5 to 2.5	Pass
				0	3.7	5.797	0.0023	-2.5 to 2.5	Pass
				10	3.7	-0.574	-0.0002	-2.5 to 2.5	Pass
30				3.7	1.016	0.0004	-2.5 to 2.5	Pass	
40				3.7	-0.644	-0.0003	-2.5 to 2.5	Pass	
50	3.7	0.129	0.0001	-2.5 to 2.5	Pass				