

## 6Appendix\_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

### Part I - Test Plots

#### 6.1 For LTE

##### 6.1.1 Test Band = BAND2

##### 6.1.1.1 Test Mode = LTE/TM1

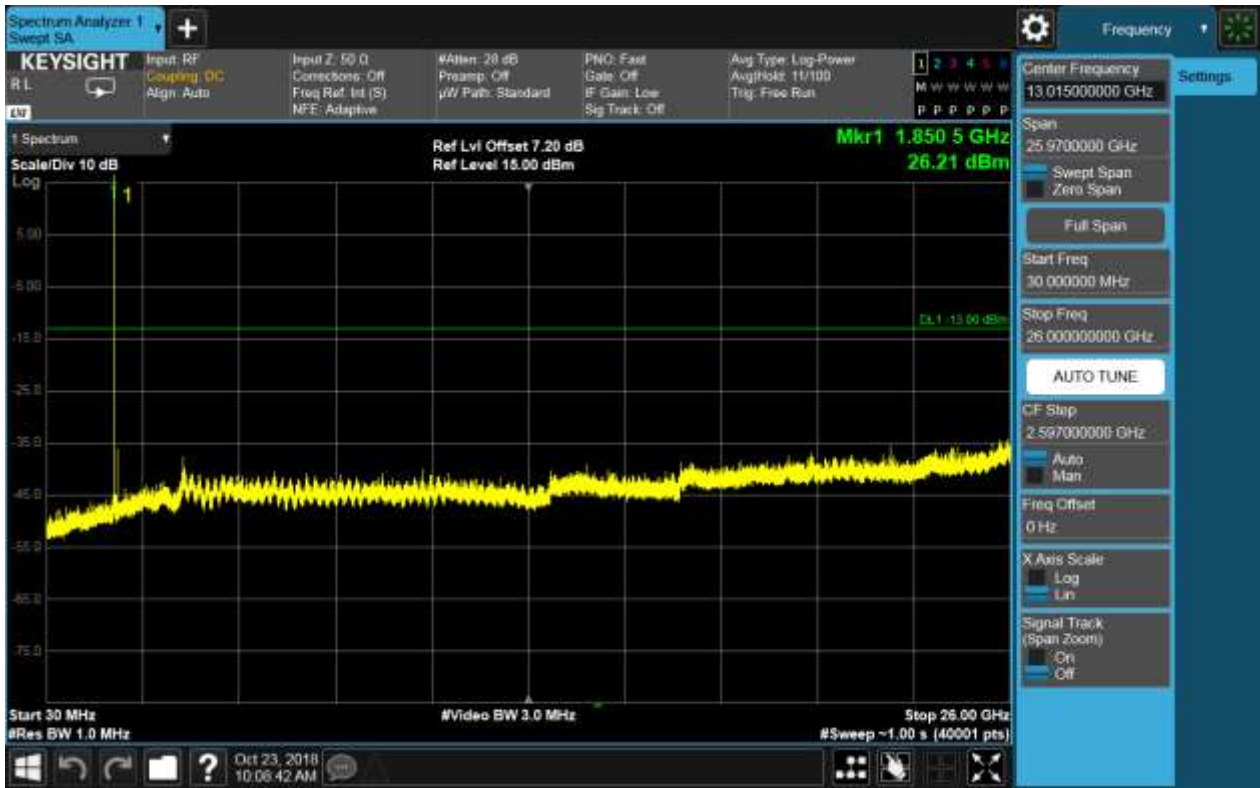
##### 6.1.1.1.1 Test Bandwidth = 1.4

##### 6.1.1.1.1.1 Test Channel = LCH

##### 6.1.1.1.1.1.1 Test RB = RB1#0





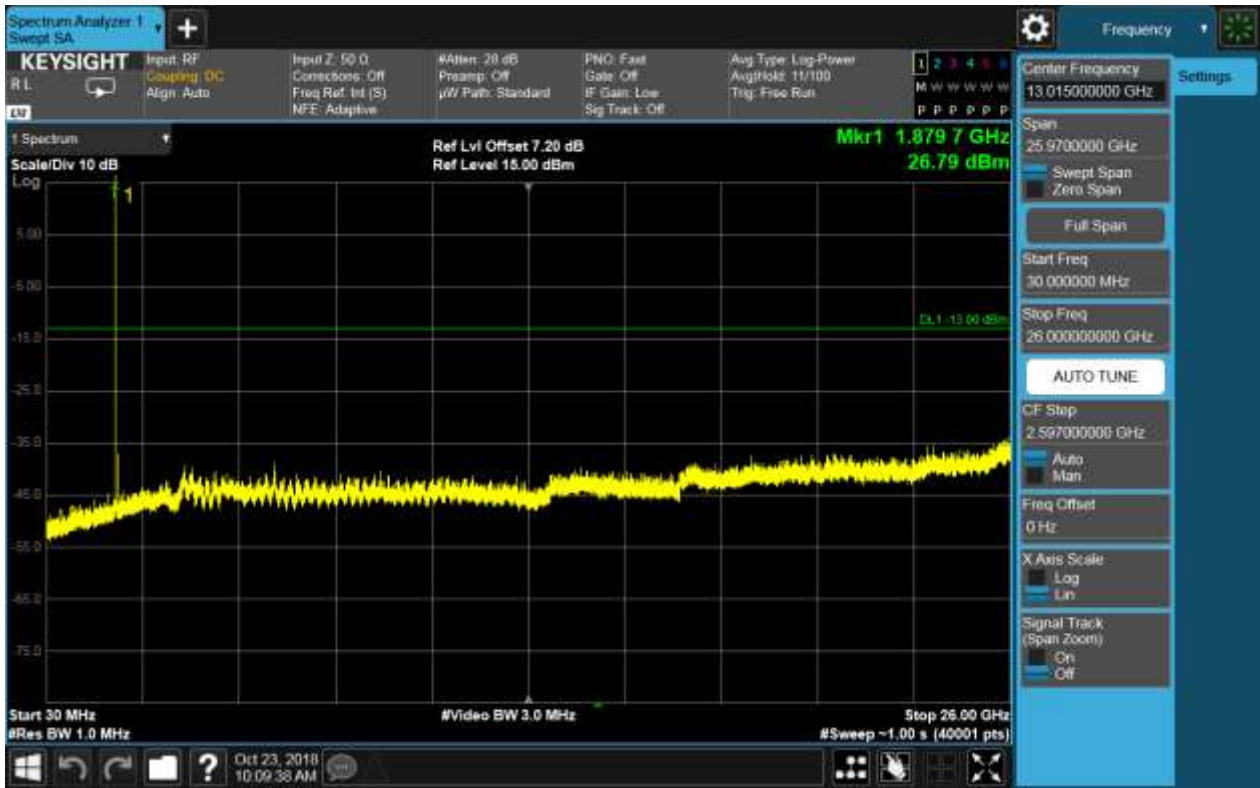


6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0







### 6.1.1.1.1.3 Test Channel = HCH

#### 6.1.1.1.1.3.1 Test RB = RB1#0











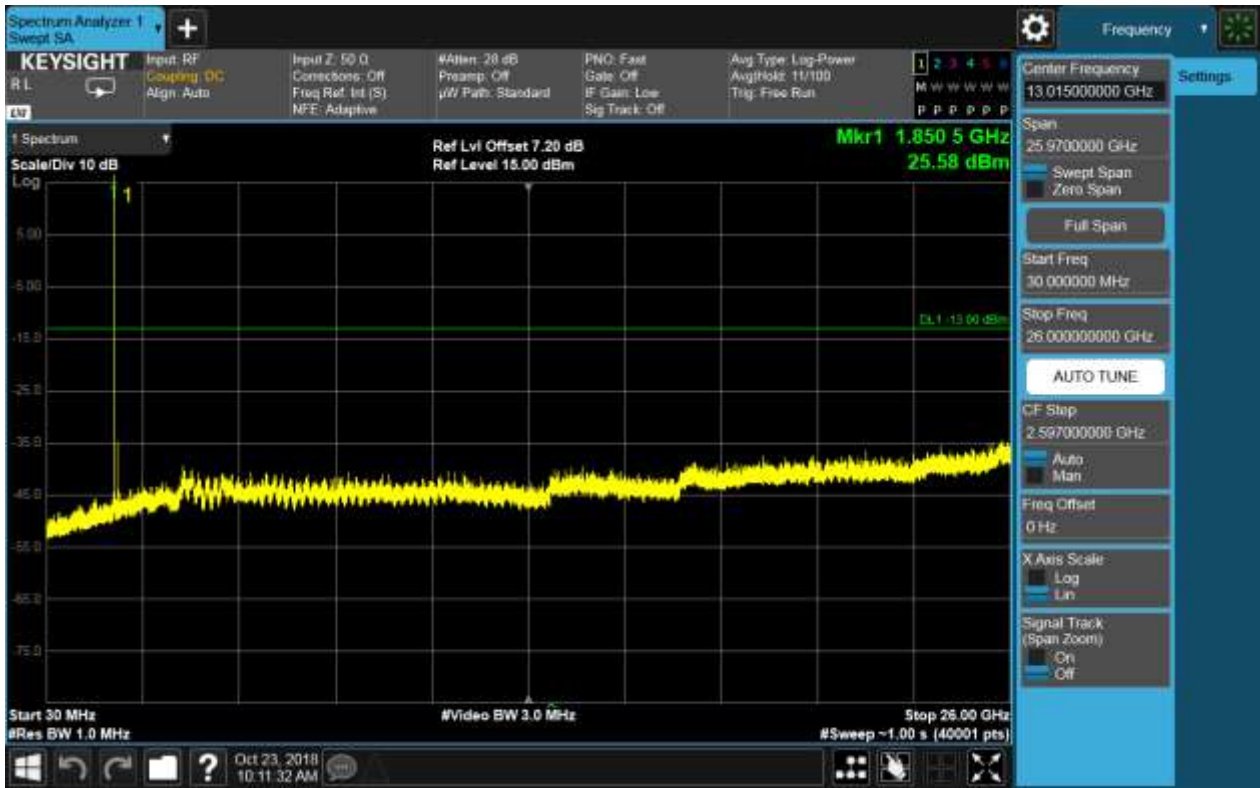
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0





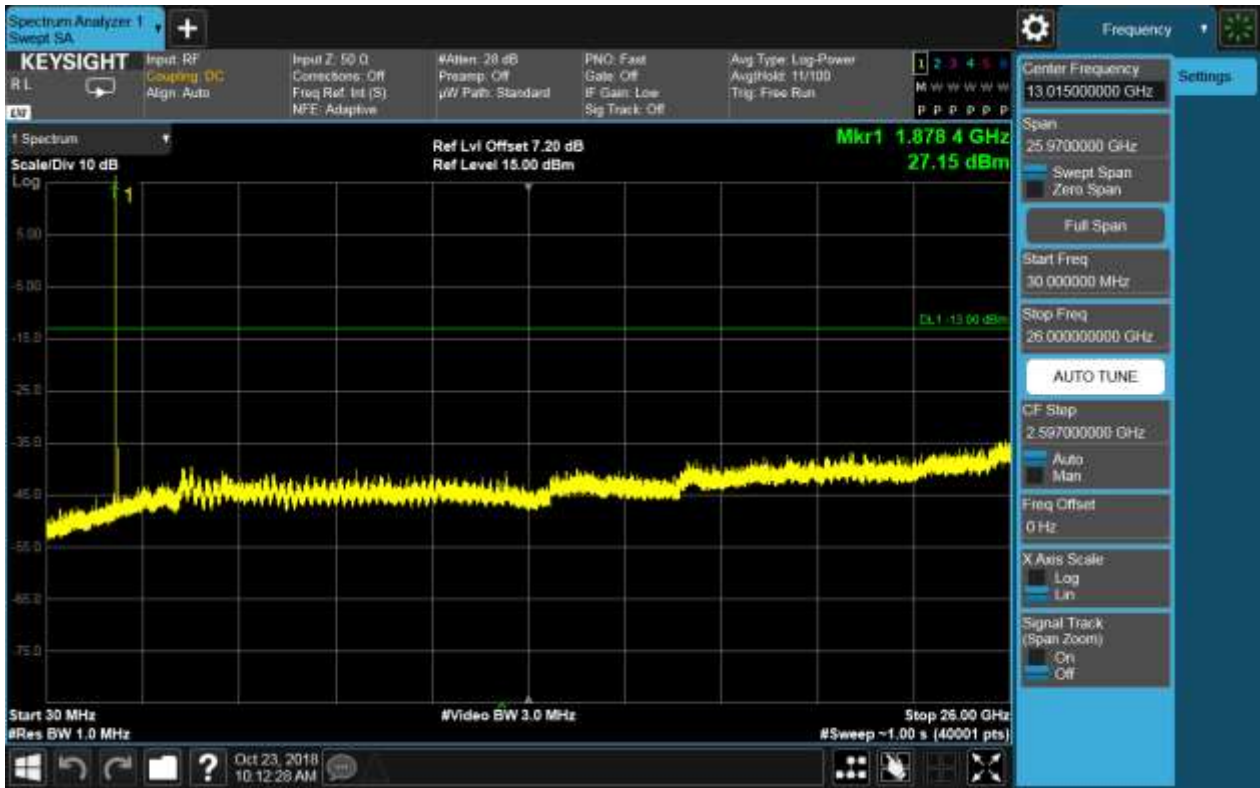


### 6.1.1.1.2.2 Test Channel = MCH

#### 6.1.1.1.2.2.1 Test RB = RB1#0







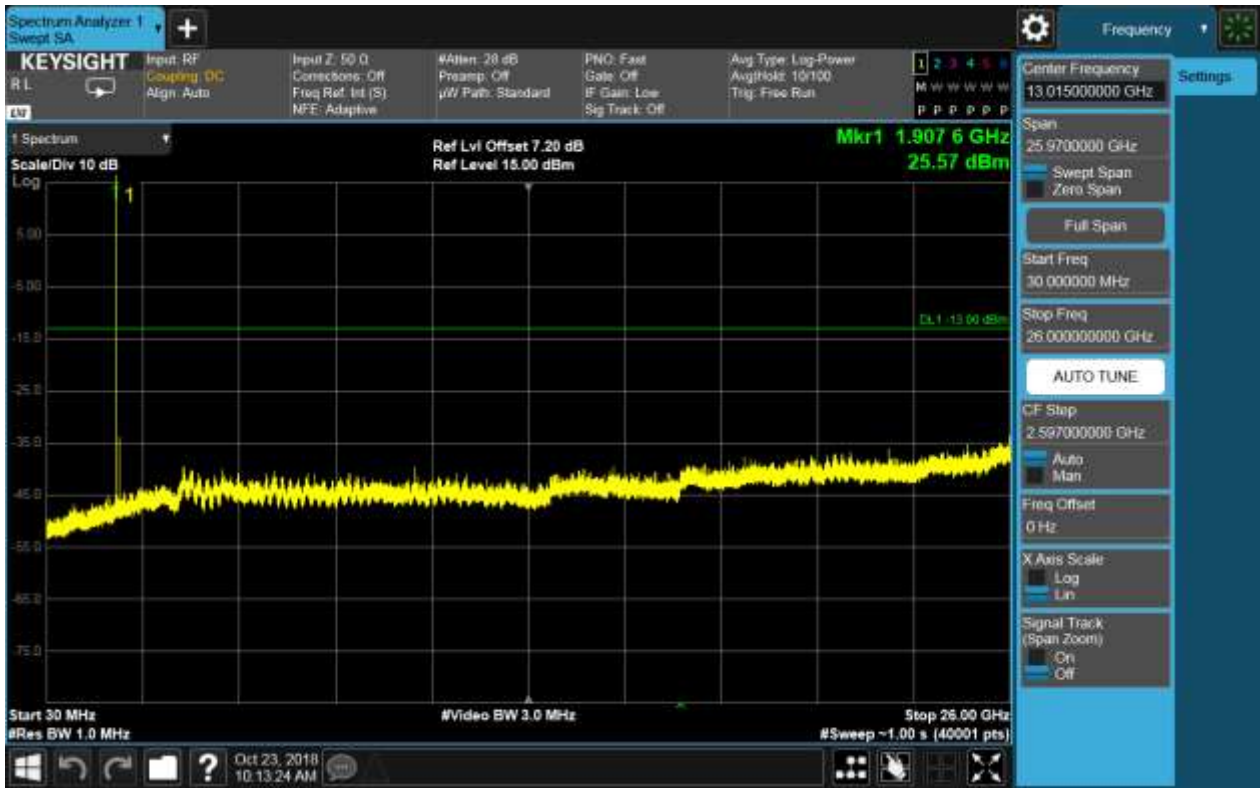


### 6.1.1.1.2.3 Test Channel = HCH

#### 6.1.1.1.2.3.1 Test RB = RB1#0







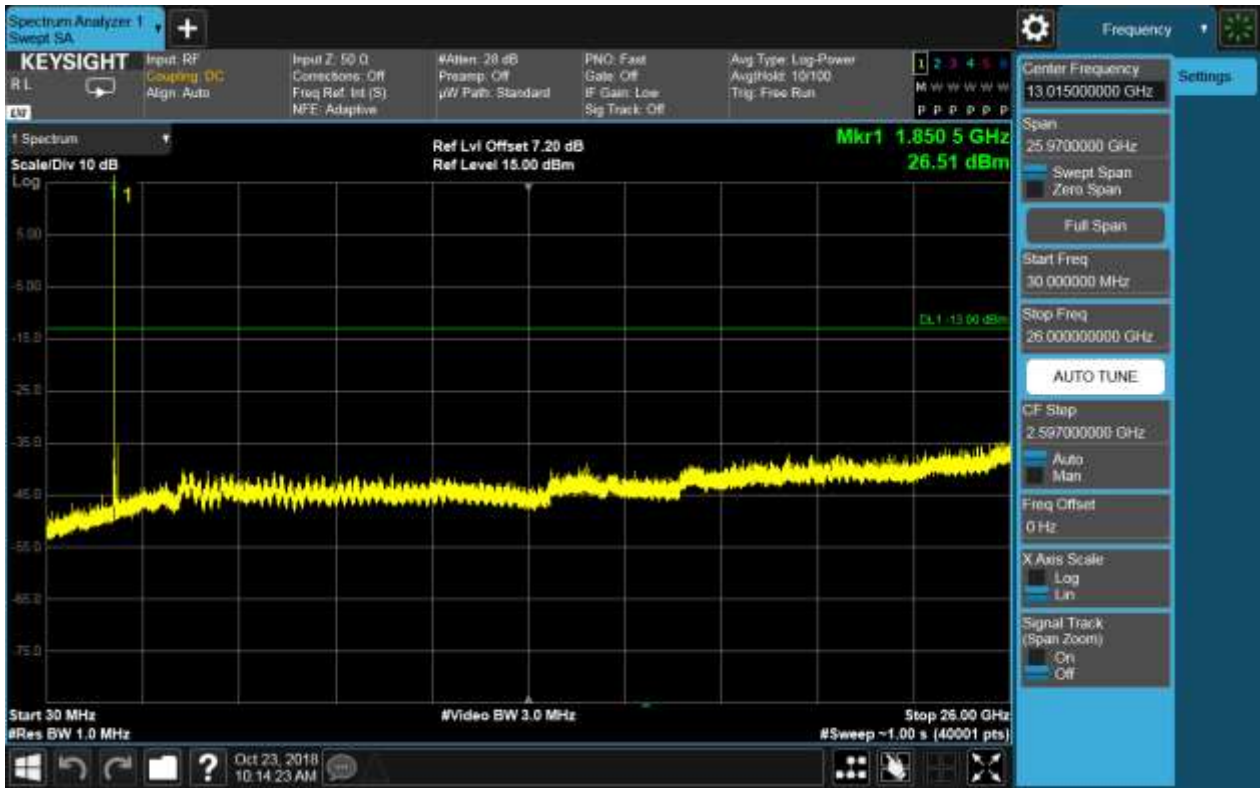
### 6.1.1.1.3 Test Bandwidth = 5

#### 6.1.1.1.3.1 Test Channel = LCH

##### 6.1.1.1.3.1.1 Test RB = RB1#0







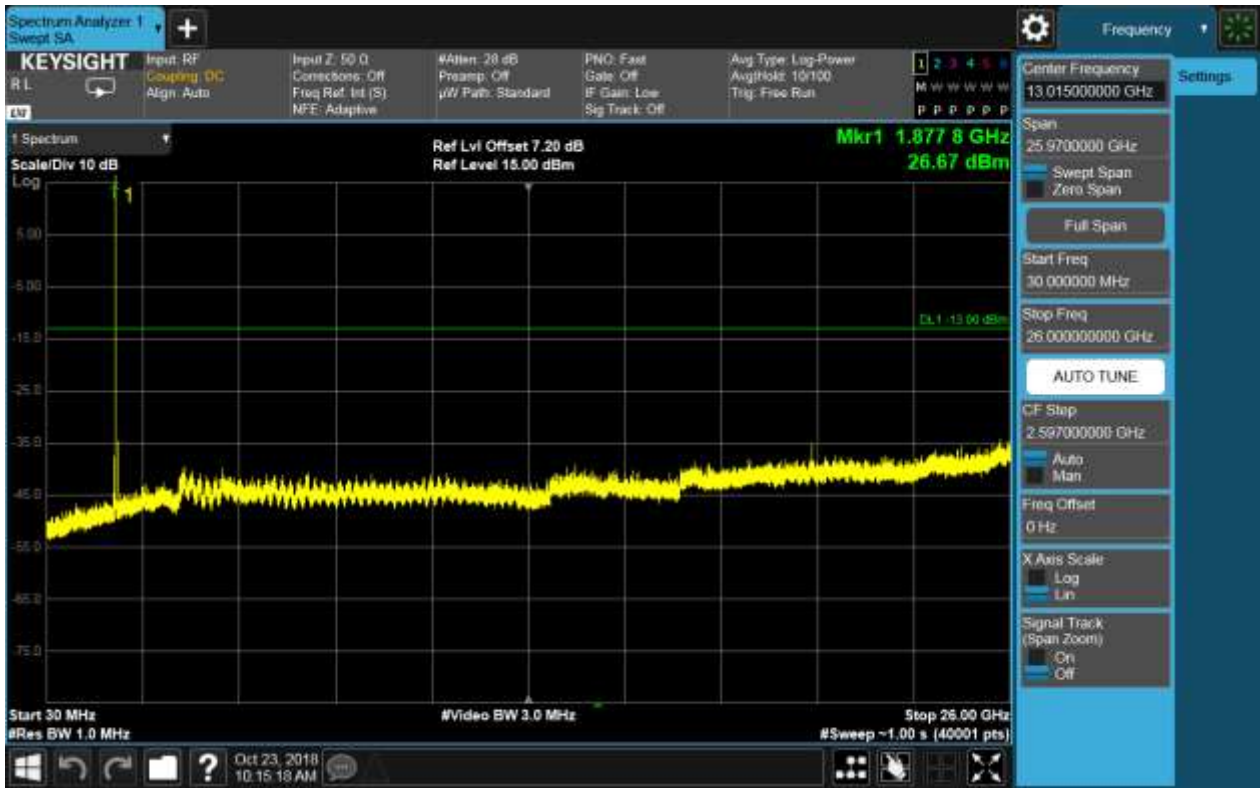
### 6.1.1.1.3.2 Test Channel = MCH

#### 6.1.1.1.3.2.1 Test RB = RB1#0







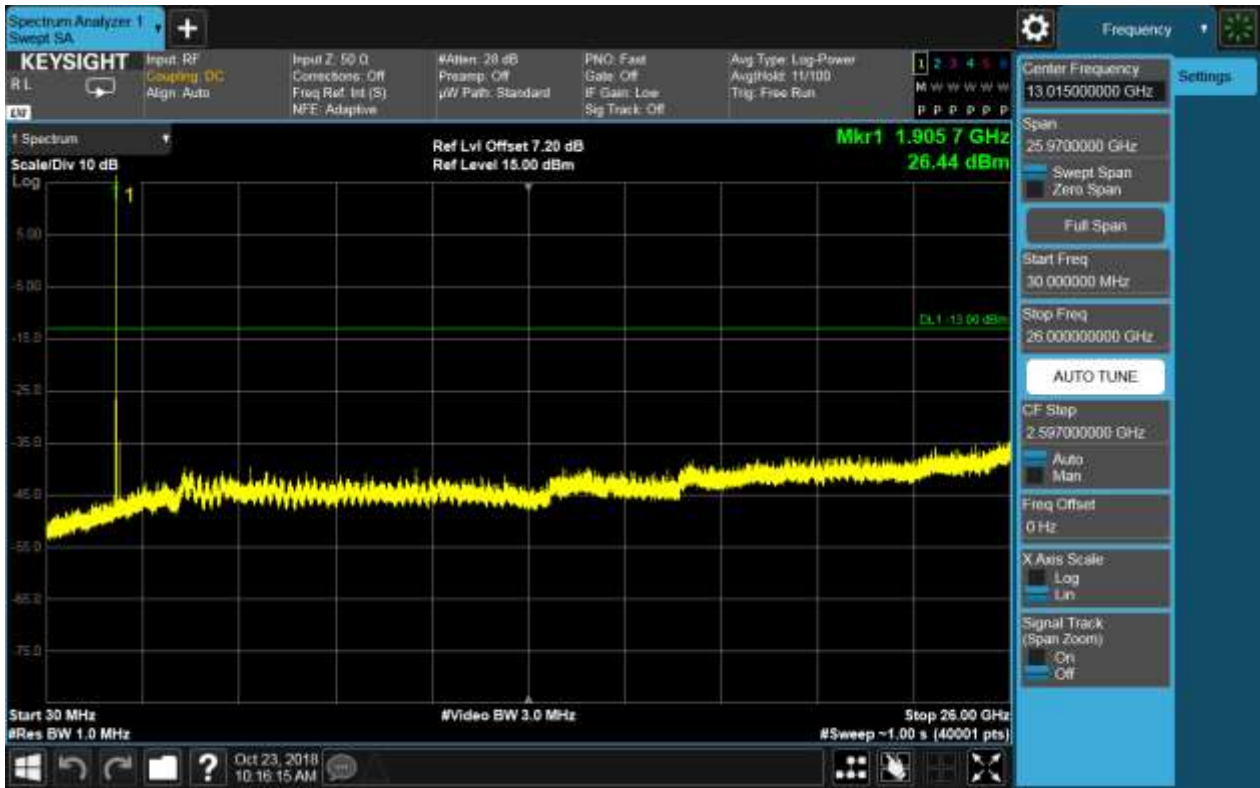


### 6.1.1.1.3.3 Test Channel = HCH

#### 6.1.1.1.3.3.1 Test RB = RB1#0







6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0







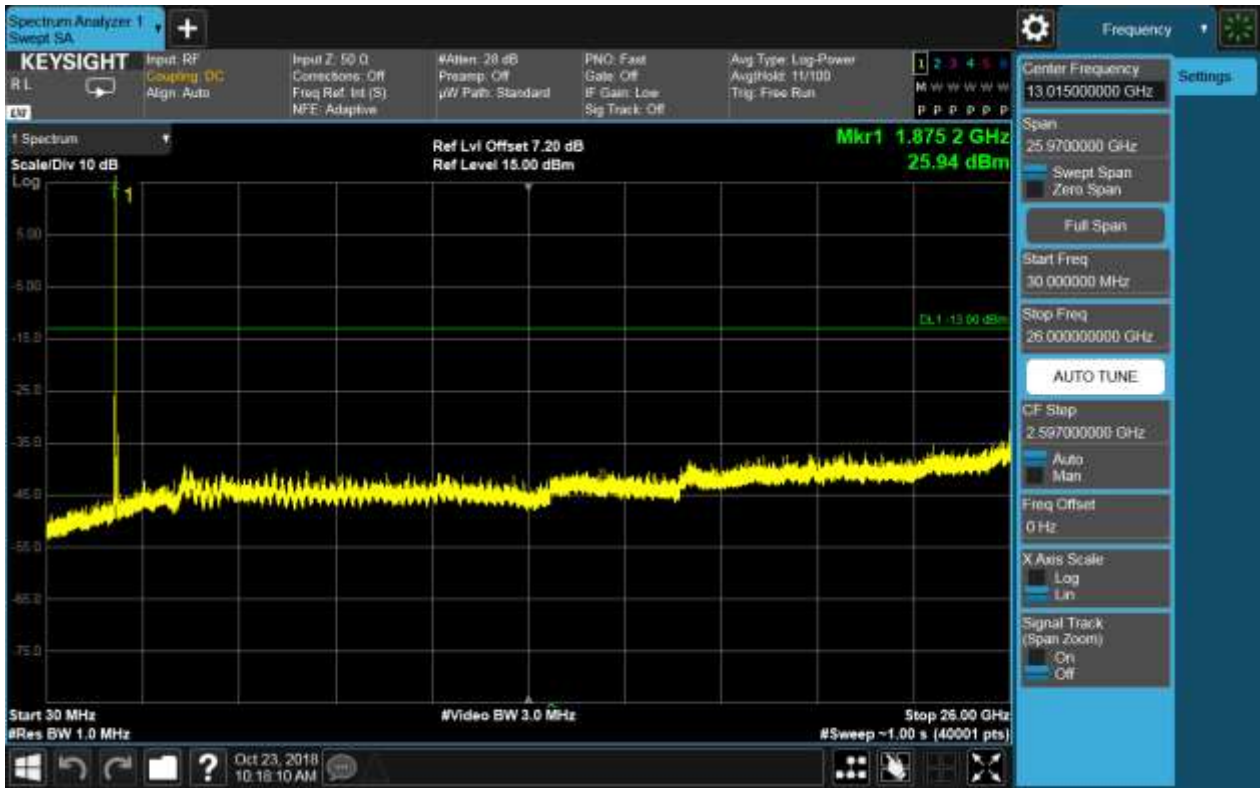


### 6.1.1.1.4.2 Test Channel = MCH

#### 6.1.1.1.4.2.1 Test RB = RB1#0







### 6.1.1.1.4.3 Test Channel = HCH

#### 6.1.1.1.4.3.1 Test RB = RB1#0









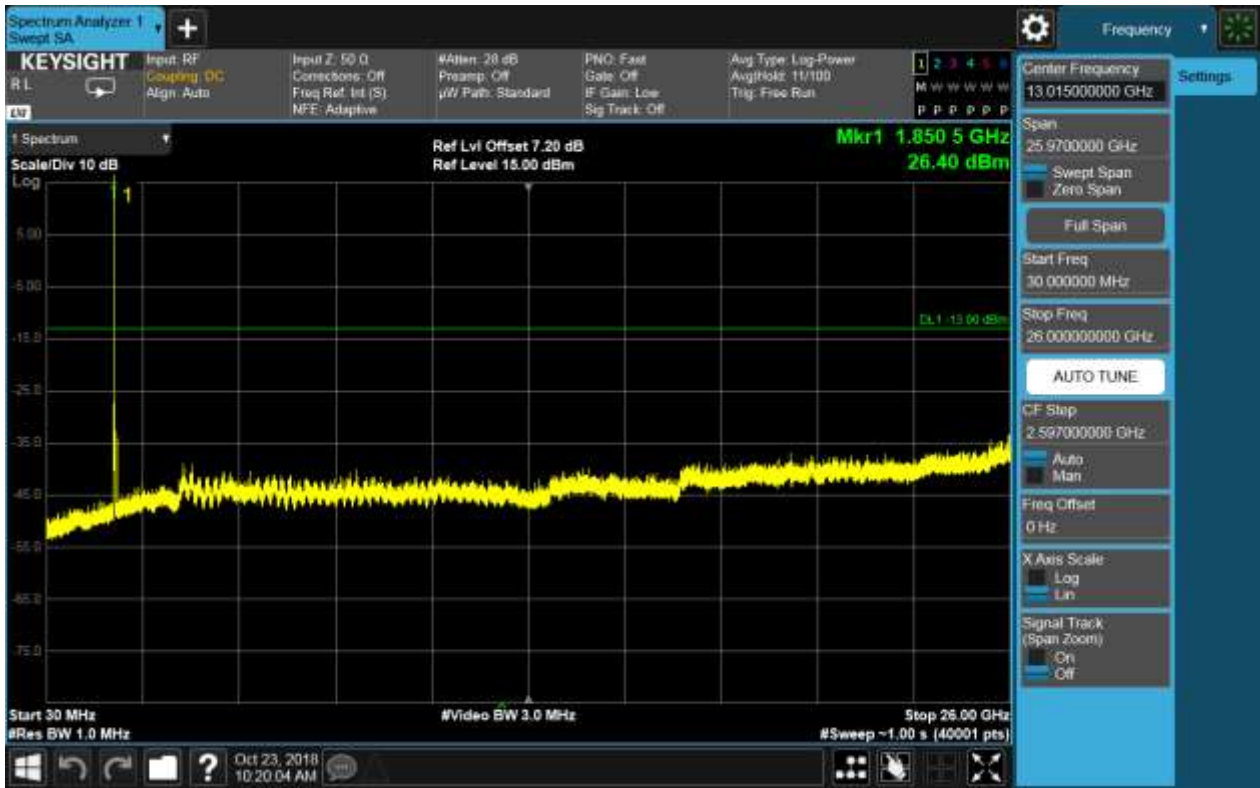
### 6.1.1.1.5 Test Bandwidth = 15

#### 6.1.1.1.5.1 Test Channel = LCH

##### 6.1.1.1.5.1.1 Test RB = RB1#0







### 6.1.1.1.5.2 Test Channel = MCH

#### 6.1.1.1.5.2.1 Test RB = RB1#0







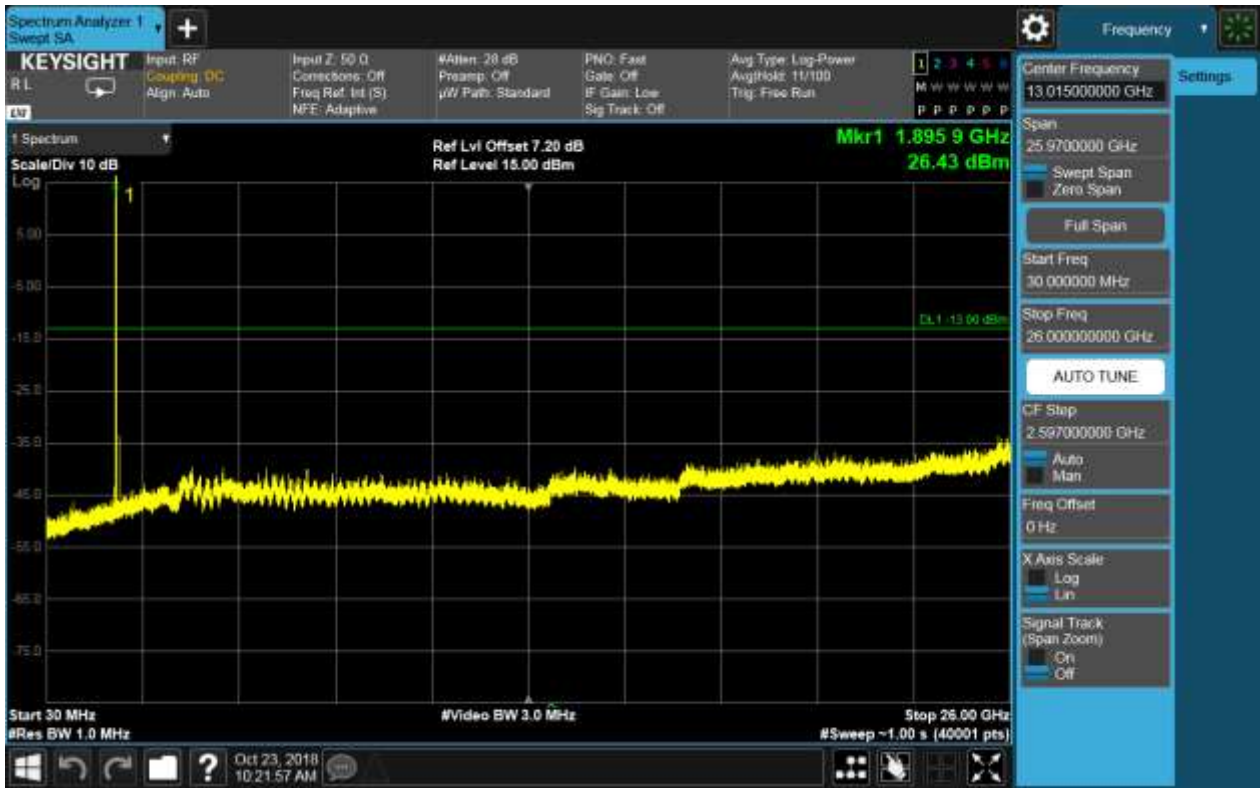
### 6.1.1.1.5.3 Test Channel = HCH

#### 6.1.1.1.5.3.1 Test RB = RB1#0









### 6.1.1.1.6 Test Bandwidth = 20

#### 6.1.1.1.6.1 Test Channel = LCH

##### 6.1.1.1.6.1.1 Test RB = RB1#0







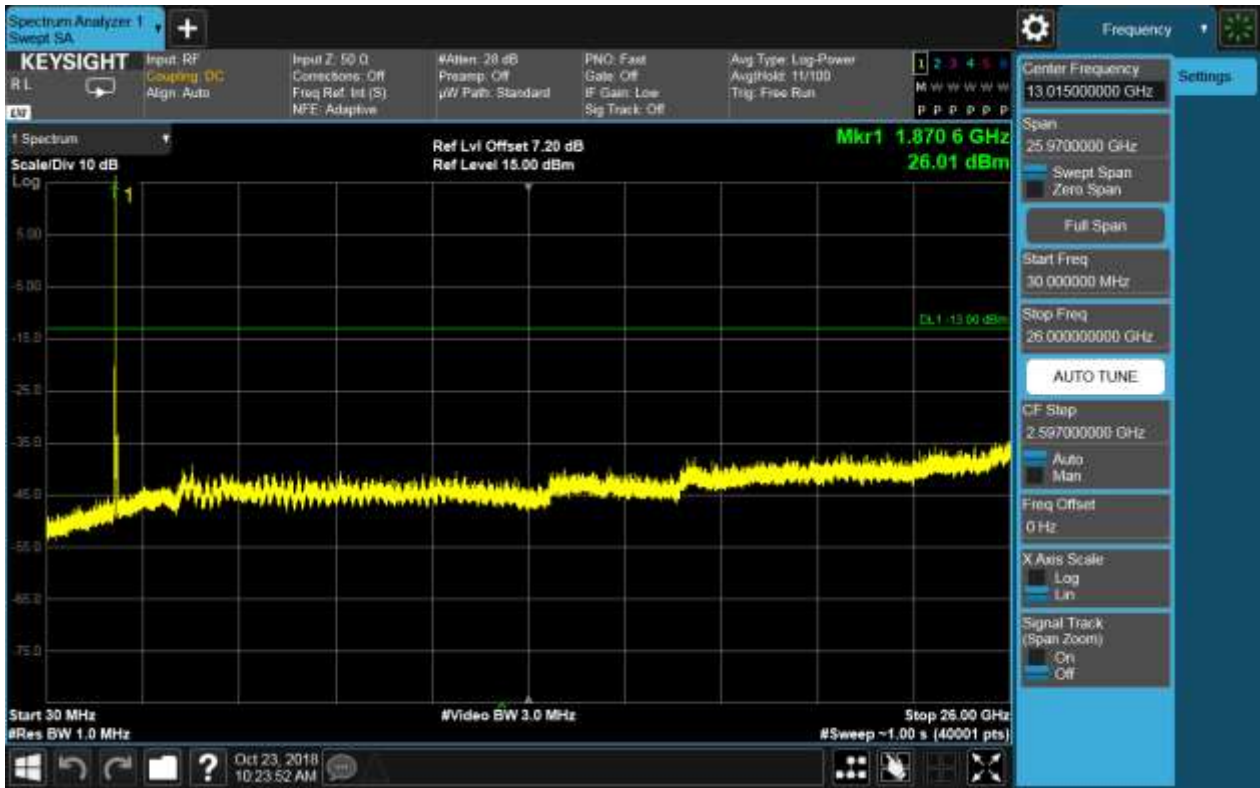
### 6.1.1.1.6.2 Test Channel = MCH

#### 6.1.1.1.6.2.1 Test RB = RB1#0









### 6.1.1.1.6.3 Test Channel = HCH

#### 6.1.1.1.6.3.1 Test RB = RB1#0







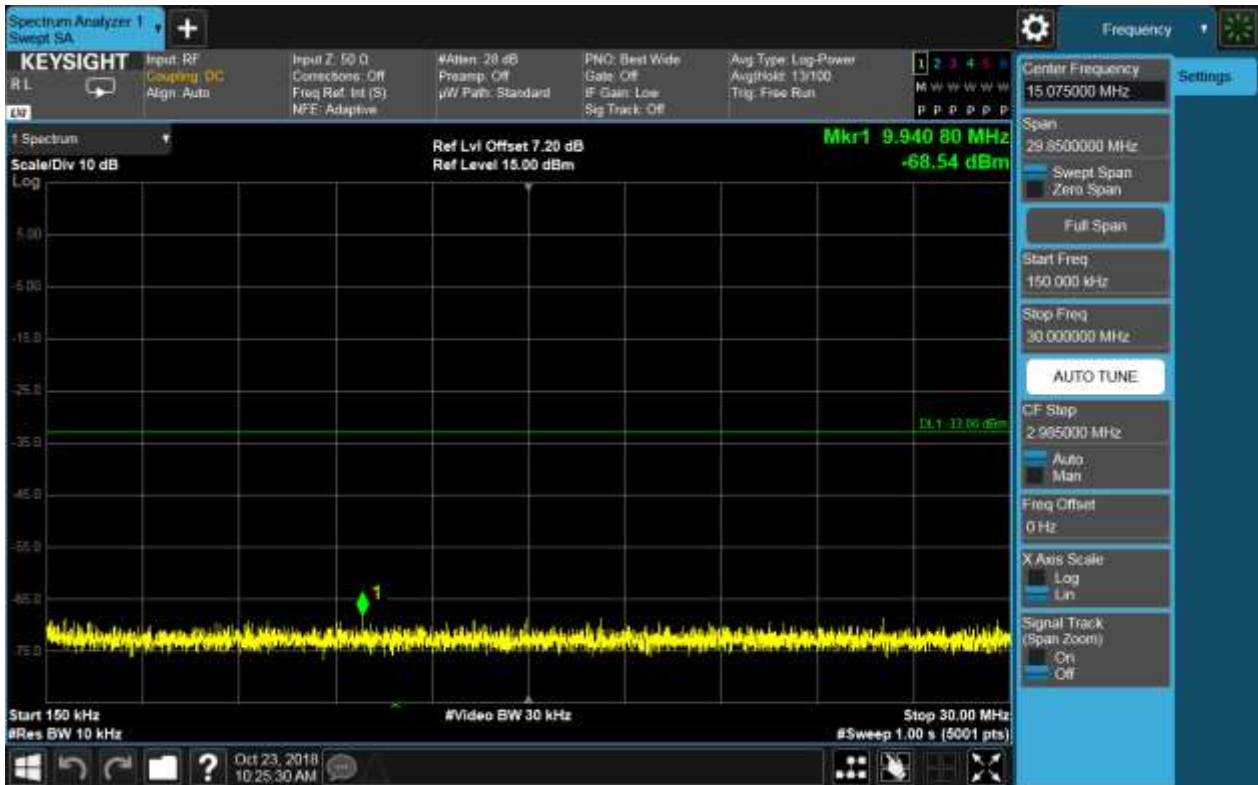
### 6.1.1.2 Test Mode = LTE/TM2

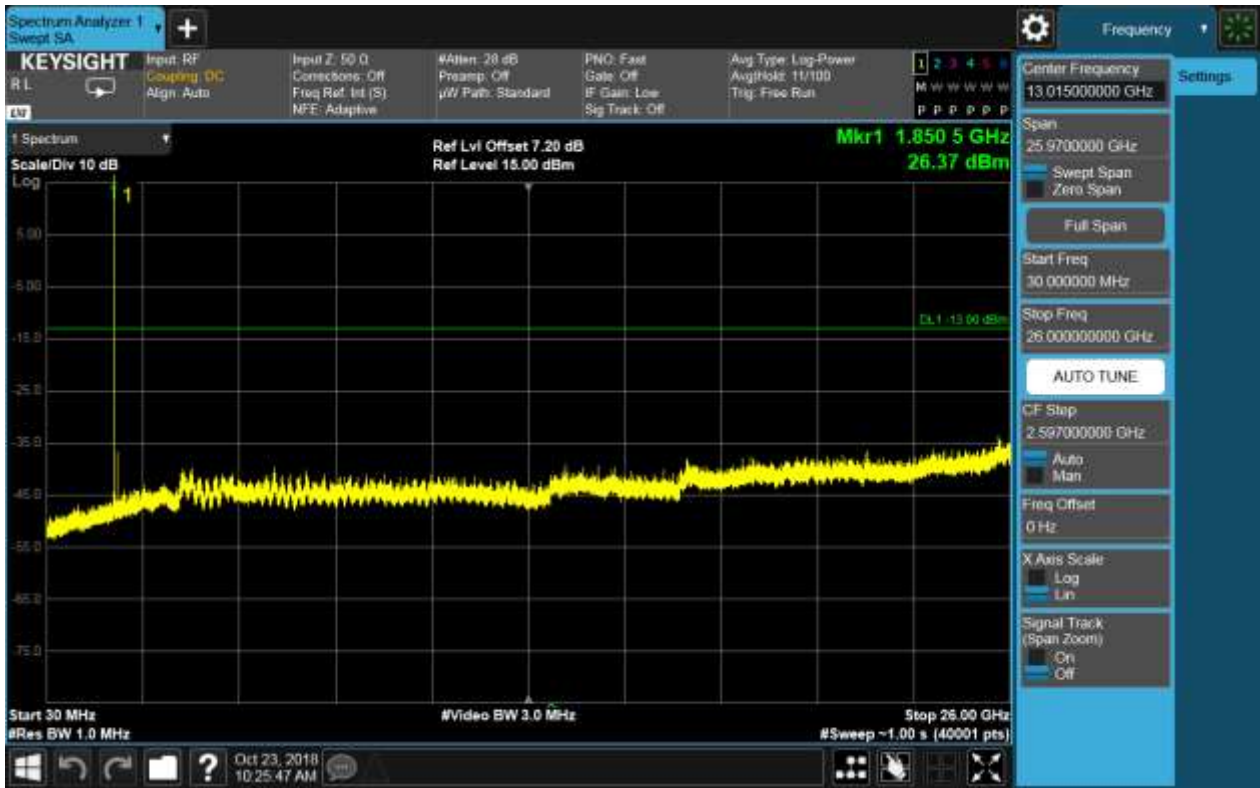
#### 6.1.1.2.1 Test Bandwidth = 1.4

##### 6.1.1.2.1.1 Test Channel = LCH

##### 6.1.1.2.1.1.1 Test RB = RB1#0







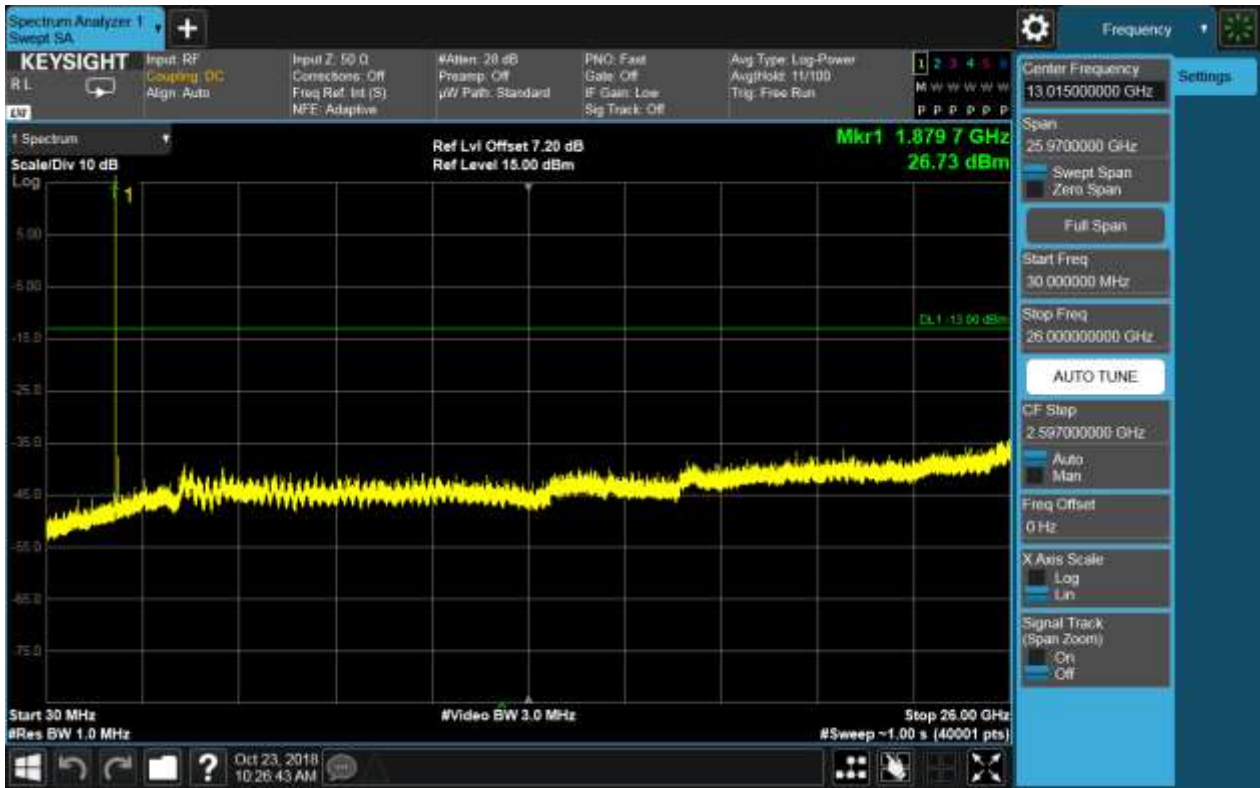


### 6.1.1.2.1.2 Test Channel = MCH

#### 6.1.1.2.1.2.1 Test RB = RB1#0





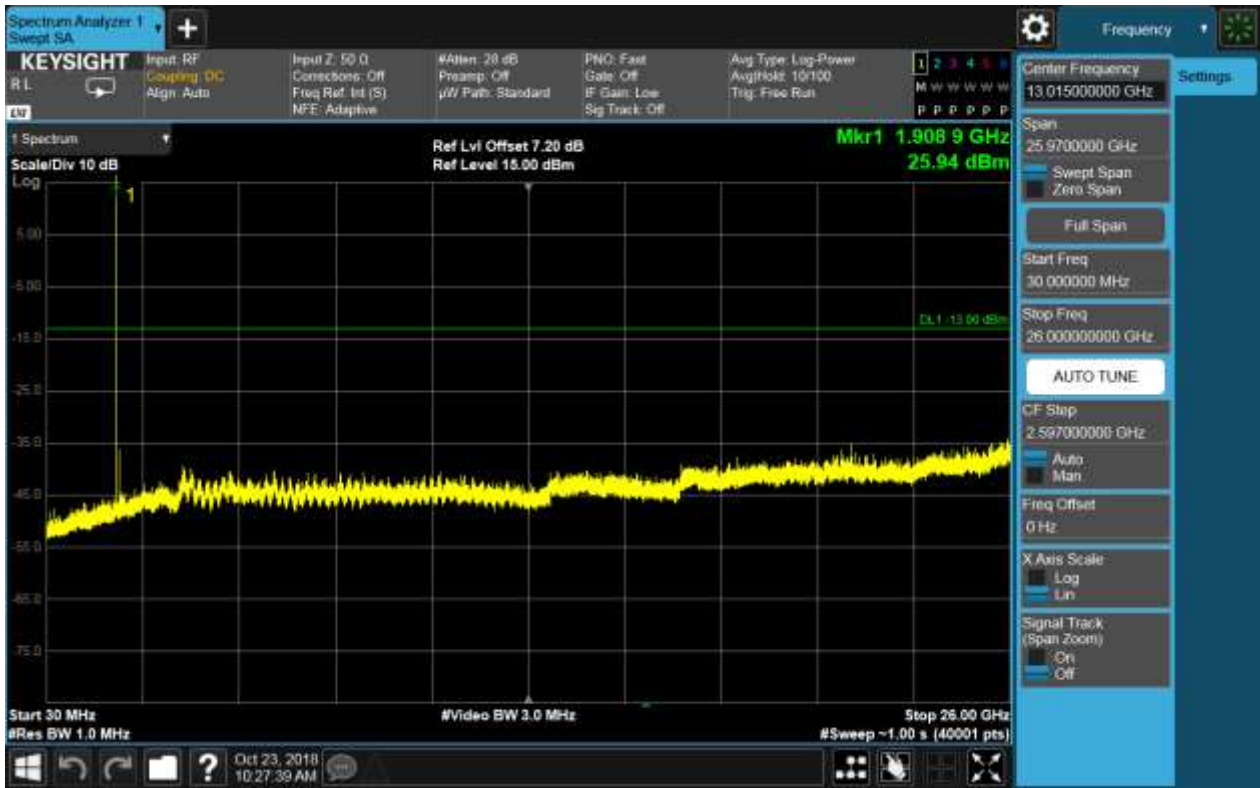


### 6.1.1.2.1.3 Test Channel = HCH

#### 6.1.1.2.1.3.1 Test RB = RB1#0







### 6.1.1.2.2 Test Bandwidth = 3

#### 6.1.1.2.2.1 Test Channel = LCH

##### 6.1.1.2.2.1.1 Test RB = RB1#0









### 6.1.1.2.2.2 Test Channel = MCH

#### 6.1.1.2.2.2.1 Test RB = RB1#0







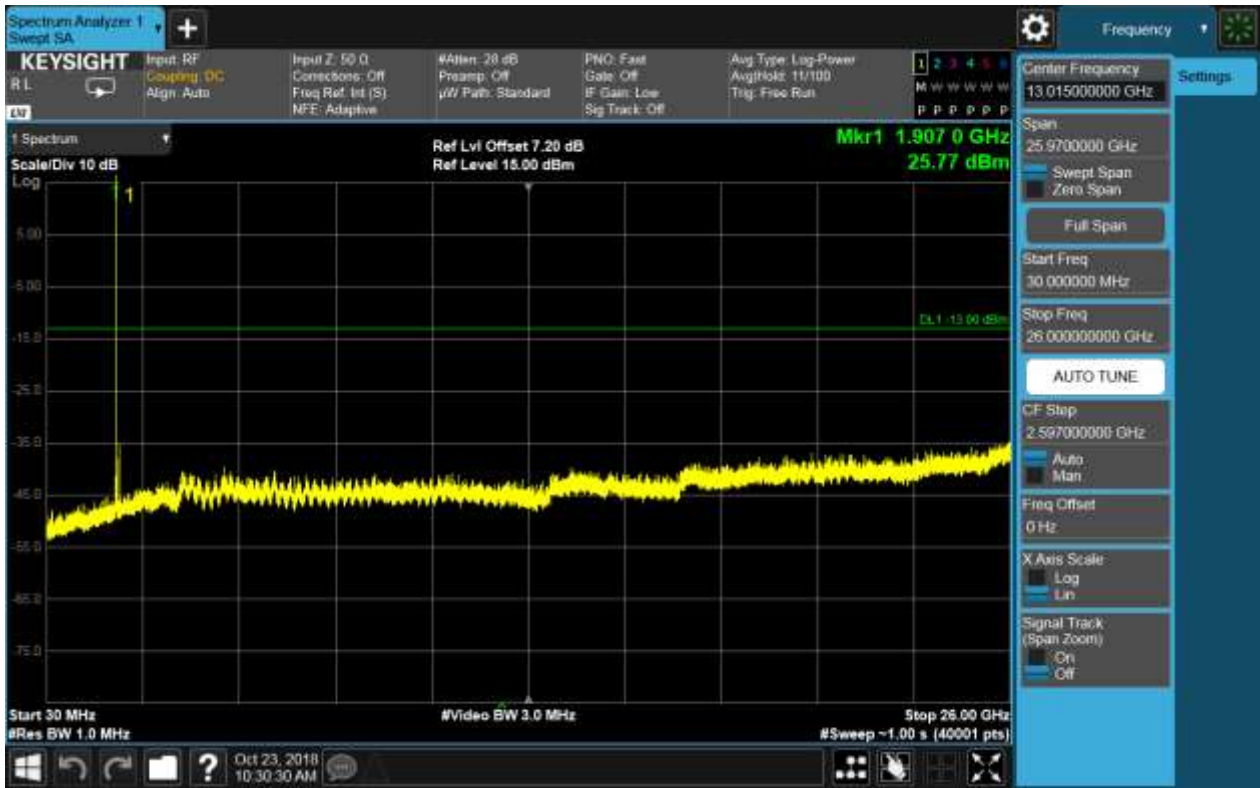
### 6.1.1.2.2.3 Test Channel = HCH

#### 6.1.1.2.2.3.1 Test RB = RB1#0









### 6.1.1.2.3 Test Bandwidth = 5

#### 6.1.1.2.3.1 Test Channel = LCH

##### 6.1.1.2.3.1.1 Test RB = RB1#0





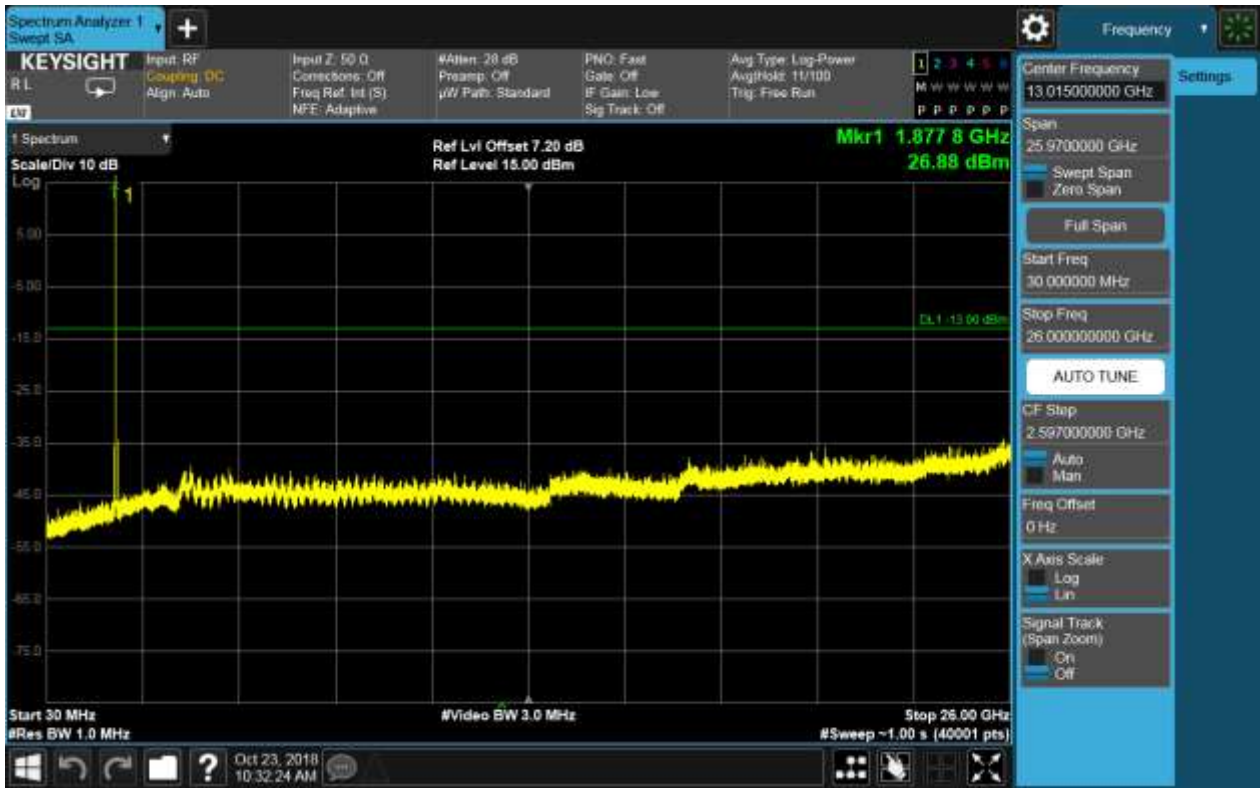


### 6.1.1.2.3.2 Test Channel = MCH

#### 6.1.1.2.3.2.1 Test RB = RB1#0







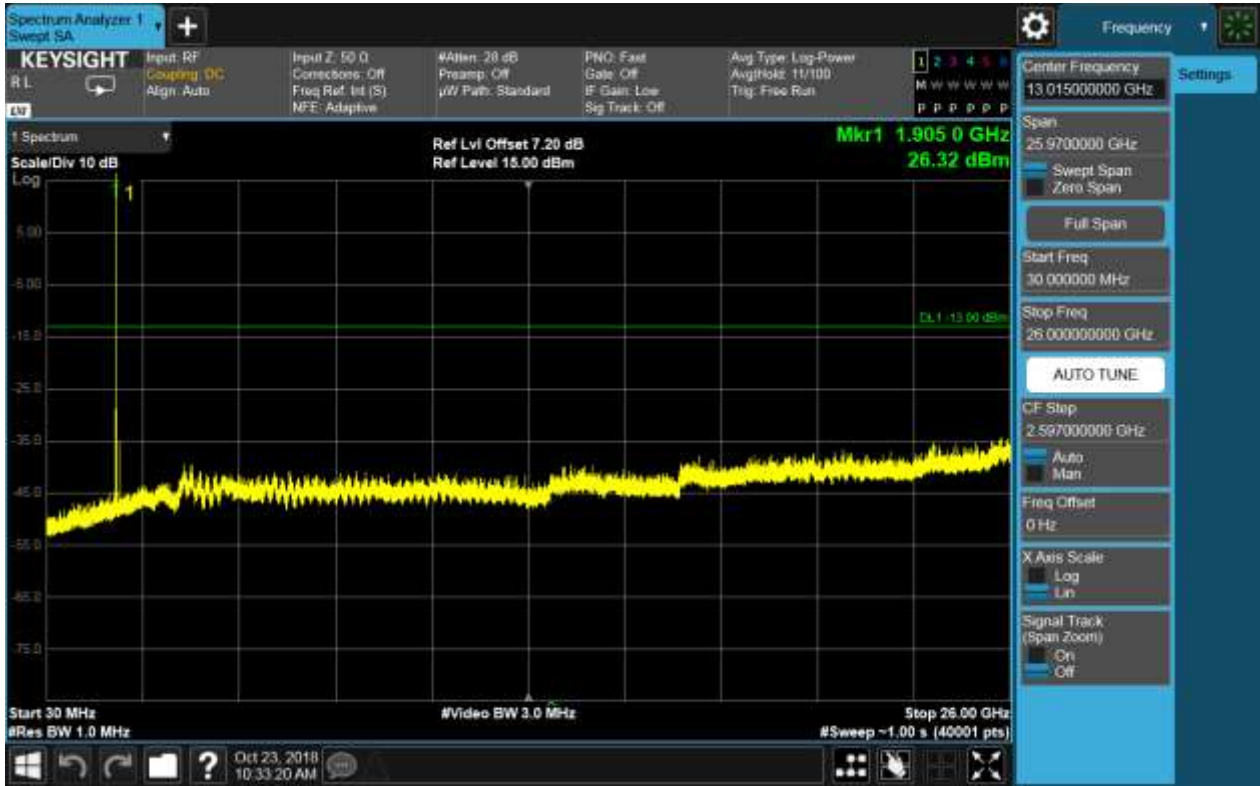


### 6.1.1.2.3.3 Test Channel = HCH

#### 6.1.1.2.3.3.1 Test RB = RB1#0







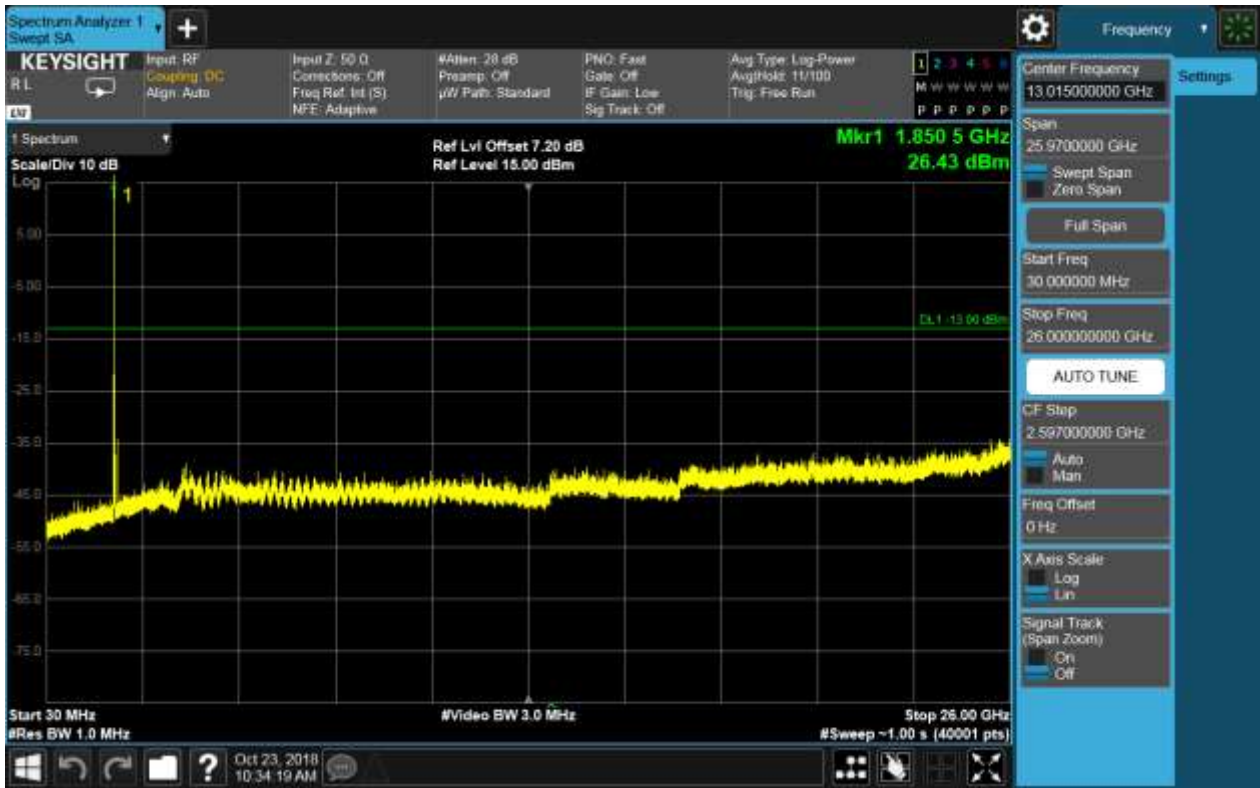
#### 6.1.1.2.4 Test Bandwidth = 10

##### 6.1.1.2.4.1 Test Channel = LCH

##### 6.1.1.2.4.1.1 Test RB = RB1#0







### 6.1.1.2.4.2 Test Channel = MCH

#### 6.1.1.2.4.2.1 Test RB = RB1#0







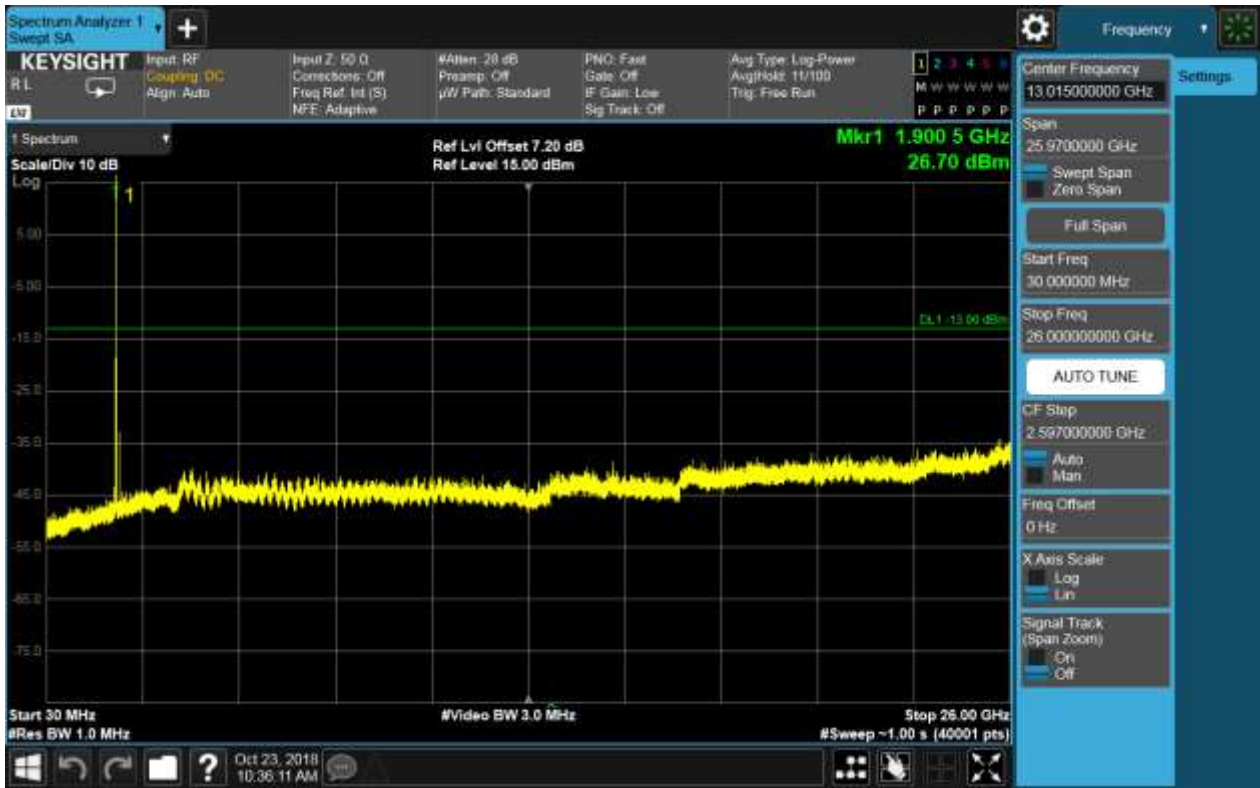


### 6.1.1.2.4.3 Test Channel = HCH

#### 6.1.1.2.4.3.1 Test RB = RB1#0







### 6.1.1.2.5 Test Bandwidth = 15

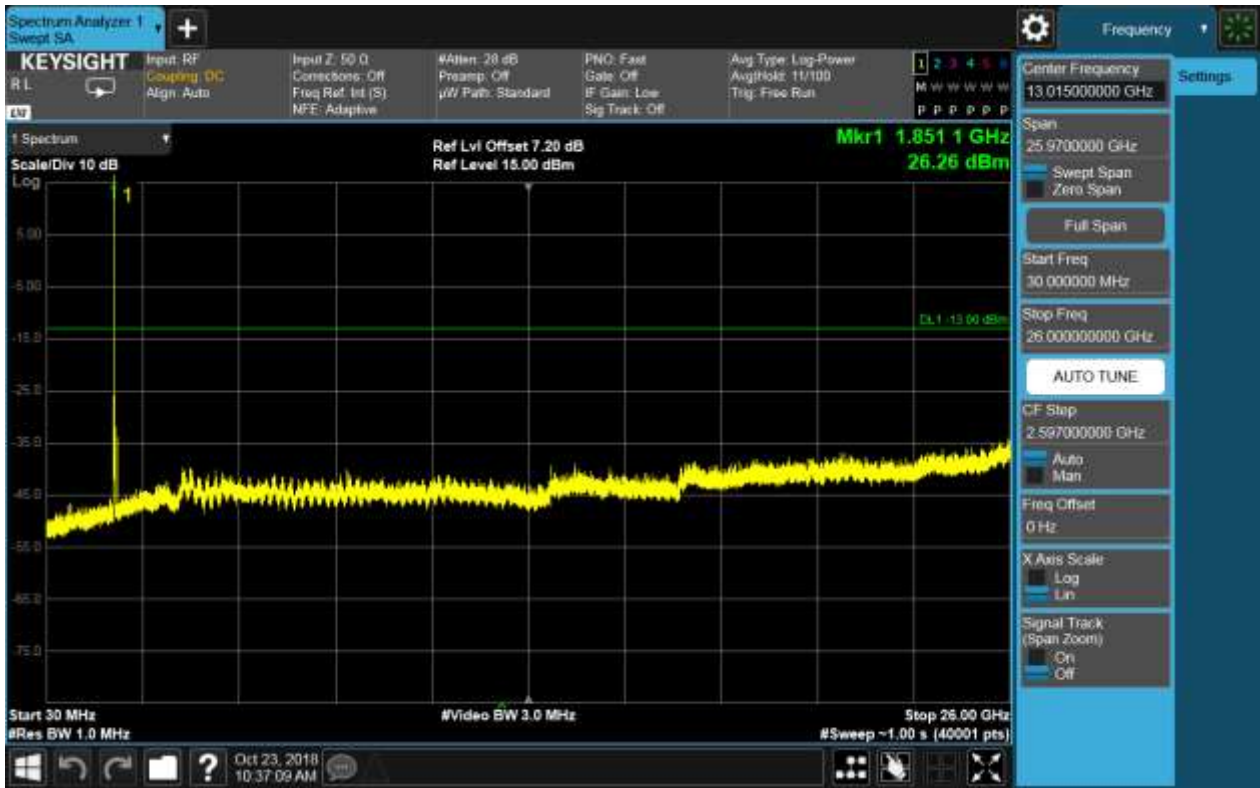
#### 6.1.1.2.5.1 Test Channel = LCH

##### 6.1.1.2.5.1.1 Test RB = RB1#0







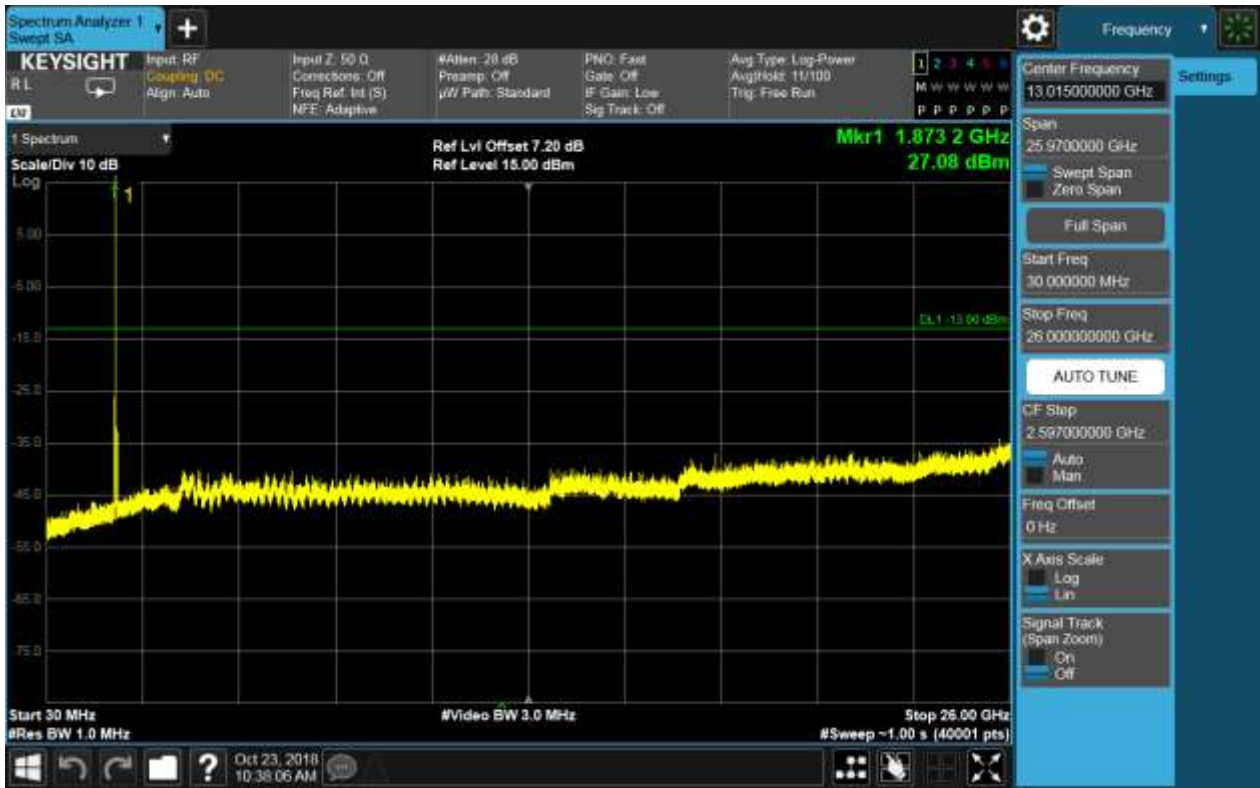


### 6.1.1.2.5.2 Test Channel = MCH

#### 6.1.1.2.5.2.1 Test RB = RB1#0





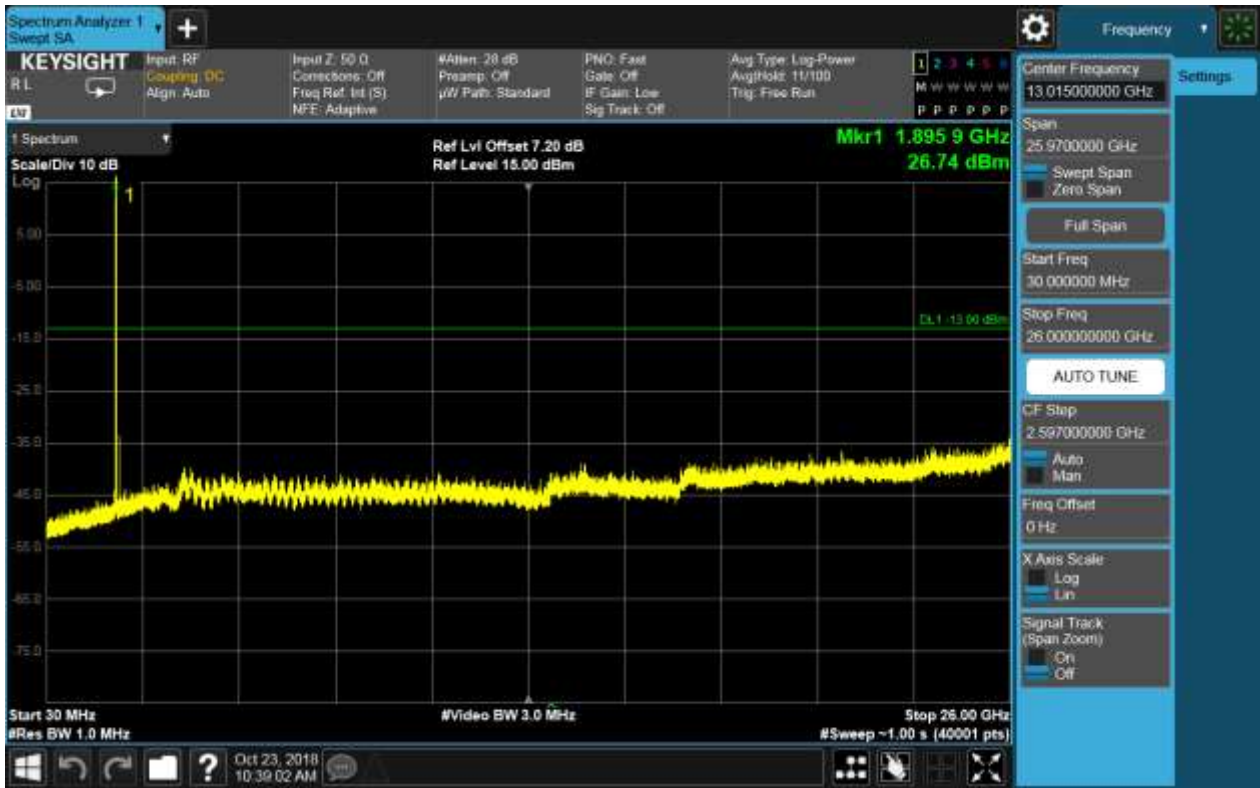


### 6.1.1.2.5.3 Test Channel = HCH

#### 6.1.1.2.5.3.1 Test RB = RB1#0







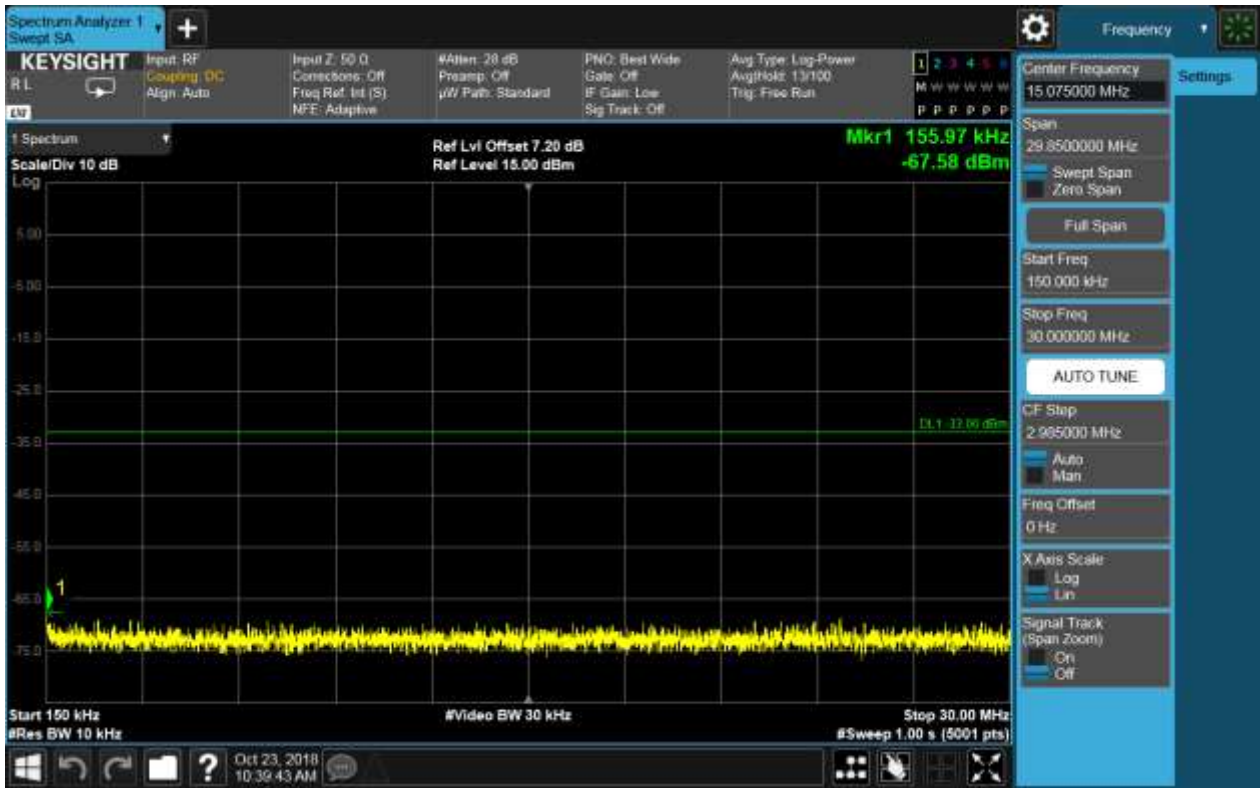


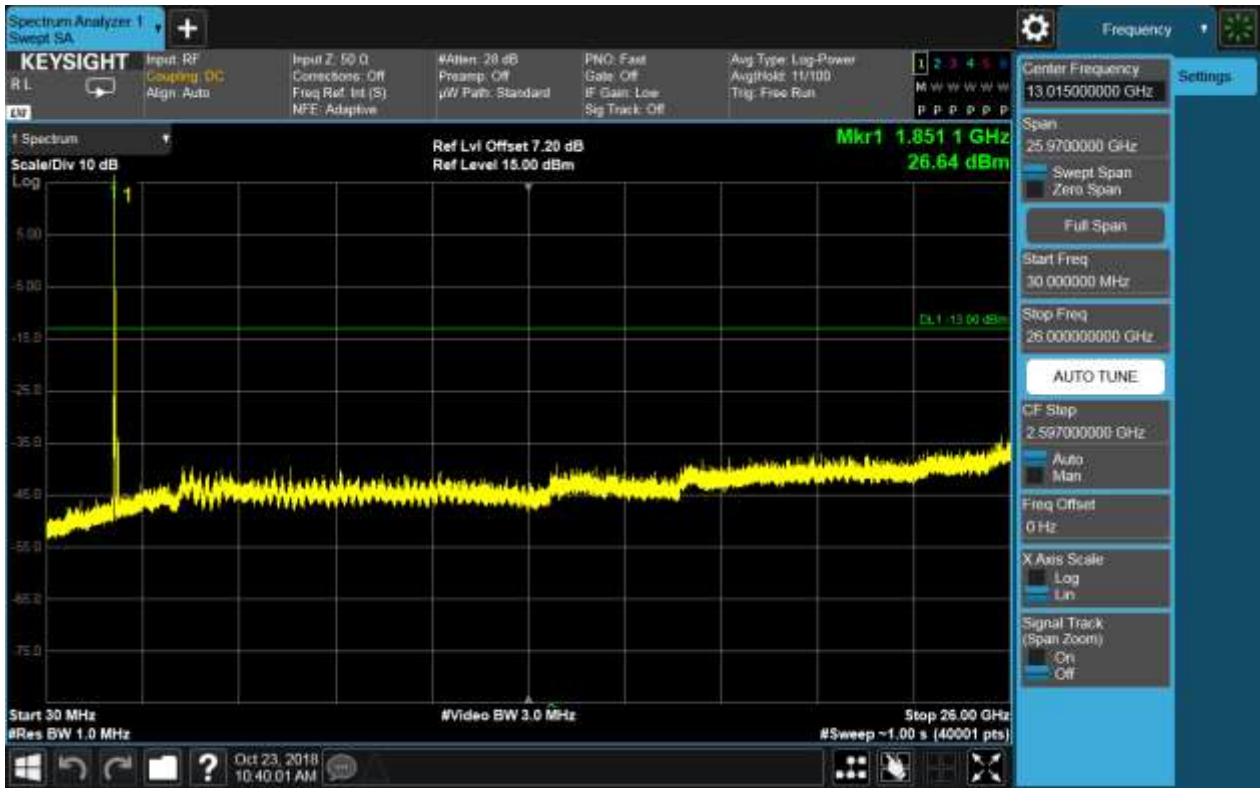
6.1.1.2.6 Test Bandwidth = 20

6.1.1.2.6.1 Test Channel = LCH

6.1.1.2.6.1.1 Test RB = RB1#0



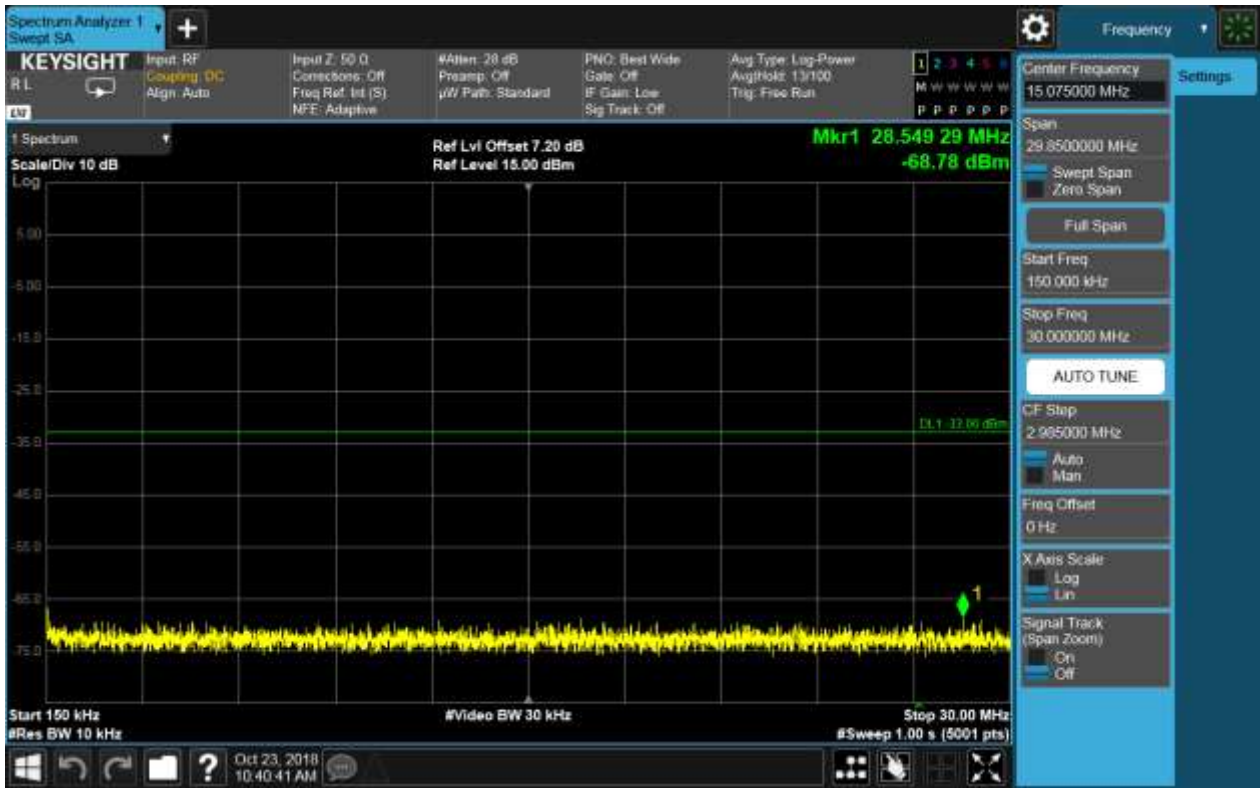


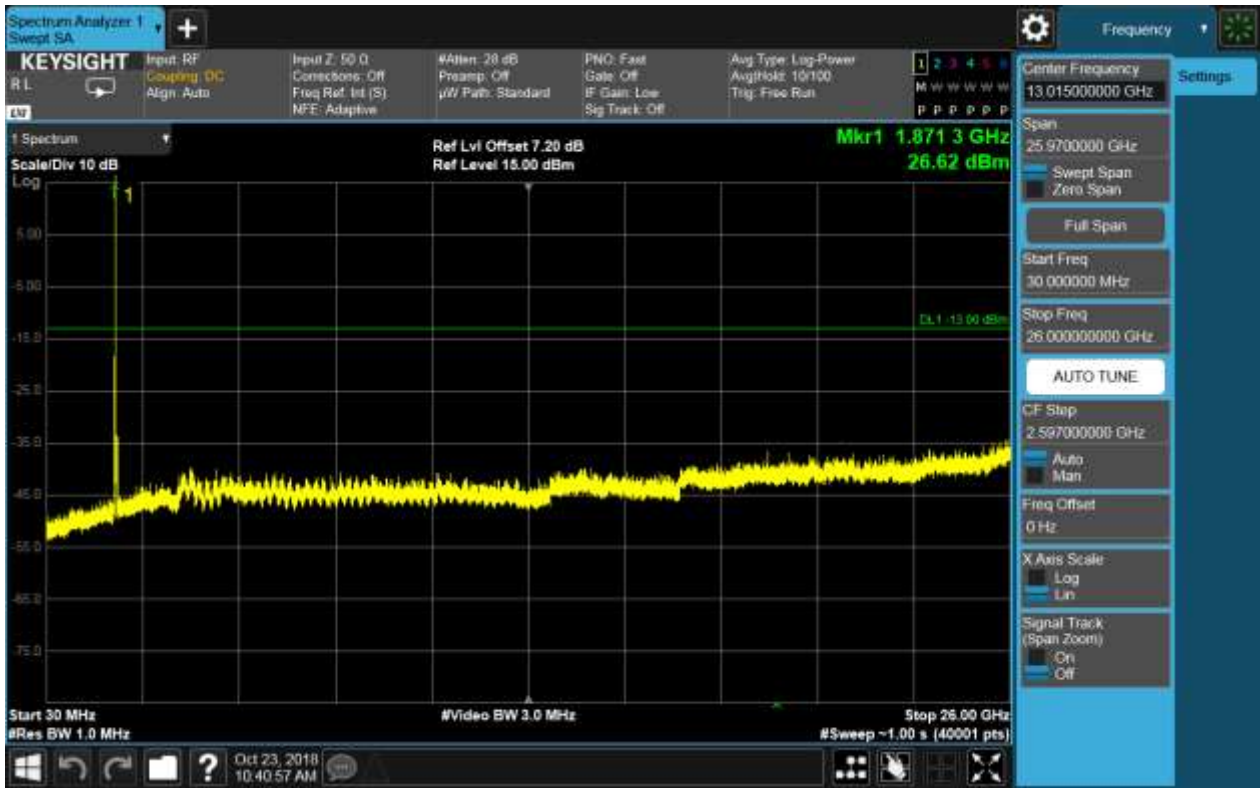


### 6.1.1.2.6.2 Test Channel = MCH

#### 6.1.1.2.6.2.1 Test RB = RB1#0







### 6.1.1.2.6.3 Test Channel = HCH

#### 6.1.1.2.6.3.1 Test RB = RB1#0









## 7Appendix\_G: Frequency Stability

### 7.1 For LTE

#### 7.1.1 Frequency Error vs. Voltage:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
B2	LTE/TM1	1.4	LCH	TN	VL	0.01	0.00001	PASS
					VN	7.85	0.00424	PASS
					VH	13.03	0.00704	PASS
			MCH	TN	VL	15.88	0.00845	PASS
					VN	-7.38	-0.00393	PASS
					VH	-15.26	-0.00812	PASS
			HCH	TN	VL	-18.51	-0.00969	PASS
					VN	6.12	0.00321	PASS
					VH	-6.31	-0.0033	PASS
		3	LCH	TN	VL	-6.59	-0.00356	PASS
					VN	-6.69	-0.00361	PASS
					VH	-6.51	-0.00352	PASS
			MCH	TN	VL	8.43	0.00448	PASS
					VN	0.37	0.0002	PASS
					VH	0.2	0.00011	PASS
			HCH	TN	VL	-0.89	-0.00047	PASS
					VN	-4.66	-0.00244	PASS
					VH	1.13	0.00059	PASS
		5	LCH	TN	VL	-2.68	-0.00145	PASS
					VN	-2.17	-0.00117	PASS
					VH	-5.05	-0.00273	PASS
			MCH	TN	VL	6.78	0.00361	PASS
					VN	-5.58	-0.00297	PASS
					VH	-2.39	-0.00127	PASS
			HCH	TN	VL	1.54	0.00081	PASS
					VN	3.16	0.00166	PASS
					VH	-3.29	-0.00172	PASS
10	LCH	TN	VL	-0.24	-0.00013	PASS		



LTE/TM2	15	MCH	TN	VN	-2.4	-0.00129	PASS
				VH	-2.62	-0.00141	PASS
				VL	1.67	0.00089	PASS
				VN	-4.39	-0.00234	PASS
				VH	-1.72	-0.00091	PASS
				VL	-0.37	-0.00019	PASS
		HCH	TN	VN	2.56	0.00134	PASS
				VH	2.46	0.00129	PASS
				VL	-1.07	-0.00058	PASS
				VN	-0.21	-0.00011	PASS
				VH	-1.09	-0.00059	PASS
				VL	-0.29	-0.00015	PASS
		MCH	TN	VN	-0.1	-0.00005	PASS
				VH	0.3	0.00016	PASS
				VL	-1.93	-0.00101	PASS
				VN	1.52	0.0008	PASS
				VH	4.76	0.0025	PASS
				VL	-1.93	-0.00101	PASS
	HCH	TN	VN	1.52	0.0008	PASS	
			VH	4.76	0.0025	PASS	
			VL	-20	-0.01075	PASS	
			VN	-6.24	-0.00335	PASS	
			VH	13.43	0.00722	PASS	
			VL	-3.69	-0.00196	PASS	
	MCH	TN	VN	-2.85	-0.00152	PASS	
			VH	-1.67	-0.00089	PASS	
			VL	-3.58	-0.00188	PASS	
			VN	-3.86	-0.00203	PASS	
			VH	-3.3	-0.00174	PASS	
			VL	-3.58	-0.00188	PASS	
	HCH	TN	VN	-3.86	-0.00203	PASS	
			VH	-3.3	-0.00174	PASS	
			VL	-2.75	-0.00149	PASS	
			VN	7.88	0.00426	PASS	
			VH	-13.25	-0.00716	PASS	
			VL	1.93	0.00103	PASS	
	MCH	TN	VN	1.62	0.00086	PASS	
			VH	-9.33	-0.00496	PASS	
			VL	-6.47	-0.00339	PASS	
			VN	8.18	0.00428	PASS	
			VH	0.44	0.00023	PASS	
			VL	-6.47	-0.00339	PASS	
HCH	TN	VN	8.18	0.00428	PASS		
		VH	0.44	0.00023	PASS		
		VL	5.28	0.00285	PASS		
		VN	-13.78	-0.00744	PASS		
		VH	-6.42	-0.00347	PASS		
		VL	5.28	0.00285	PASS		
MCH	TN	VN	-13.78	-0.00744	PASS		
		VH	-6.42	-0.00347	PASS		
		VL	-10.03	-0.00534	PASS		
		VN	2.68	0.00143	PASS		
		VH	0.13	0.00007	PASS		
		VL	-10.03	-0.00534	PASS		



			HCH	TN	VL	-3.78	-0.00198	PASS
					VN	-1.02	-0.00053	PASS
					VH	-3.3	-0.00173	PASS
		5	LCH	TN	VL	0.84	0.00045	PASS
					VN	-0.2	-0.00011	PASS
					VH	-2.68	-0.00145	PASS
			MCH	TN	VL	1.86	0.00099	PASS
					VN	-5.09	-0.00271	PASS
					VH	2.35	0.00125	PASS
			HCH	TN	VL	-2.26	-0.00118	PASS
					VN	-3.89	-0.00204	PASS
					VH	3.02	0.00158	PASS
		10	LCH	TN	VL	-0.11	-0.00006	PASS
					VN	0.43	0.00023	PASS
					VH	-0.03	-0.00002	PASS
			MCH	TN	VL	0.9	0.00048	PASS
					VN	-1.1	-0.00059	PASS
					VH	0.8	0.00043	PASS
			HCH	TN	VL	-2.98	-0.00156	PASS
					VN	3.53	0.00185	PASS
					VH	3.15	0.00165	PASS
		15	LCH	TN	VL	4.23	0.00228	PASS
					VN	-5.75	-0.0031	PASS
					VH	0.9	0.00048	PASS
			MCH	TN	VL	0.64	0.00034	PASS
					VN	-2.35	-0.00125	PASS
					VH	-0.73	-0.00039	PASS
			HCH	TN	VL	2.26	0.00119	PASS
					VN	-0.44	-0.00023	PASS
					VH	3.5	0.00184	PASS
20	LCH	TN	VL	-1.43	-0.00077	PASS		
			VN	1.73	0.00093	PASS		
			VH	-0.47	-0.00025	PASS		
	MCH	TN	VL	-2.85	-0.00152	PASS		
			VN	-0.29	-0.00015	PASS		
			VH	0.36	0.00019	PASS		
	HCH	TN	VL	-3.29	-0.00173	PASS		
			VN	-3.46	-0.00182	PASS		
			VH	-2.26	-0.00119	PASS		



## 7.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
B2	LTE/TM1	1.4	LCH	VN	-30	-23.27	-0.01257	PASS
					-20	-3.12	-0.00169	PASS
					-10	-9.53	-0.00515	PASS
					0	-6.65	-0.00359	PASS
					10	3.19	0.00172	PASS
					20	4.51	0.00244	PASS
					30	-14.59	-0.00788	PASS
					40	9.94	0.00537	PASS
			50	-3.26	-0.00176	PASS		
			MCH	VN	-30	-11.79	-0.00627	PASS
					-20	-7.02	-0.00373	PASS
					-10	-19.14	-0.01018	PASS
					0	0.33	0.00018	PASS
					10	9.27	0.00493	PASS
					20	-4.85	-0.00258	PASS
		30			-8.94	-0.00476	PASS	
		HCH	VN	-30	1.99	0.00104	PASS	
				-20	11.89	0.00623	PASS	
				-10	20.66	0.01082	PASS	
				0	18.32	0.0096	PASS	
				10	12.06	0.00632	PASS	
				20	-1.67	-0.00087	PASS	
				30	0.64	0.00034	PASS	
		3	LCH	VN	-30	-9.26	-0.005	PASS
					-20	-6.84	-0.00369	PASS
					-10	-9.53	-0.00515	PASS
					0	-5.44	-0.00294	PASS
10	-8.73				-0.00472	PASS		
20	-9.37				-0.00506	PASS		
30	1.2	0.00065	PASS					



				40	-4.95	-0.00267	PASS	
				50	-2.63	-0.00142	PASS	
			MCH	VN	-30	-2.07	-0.0011	PASS
					-20	3.06	0.00163	PASS
					-10	-8.21	-0.00437	PASS
					0	-1.04	-0.00055	PASS
					10	-1.99	-0.00106	PASS
					20	-9.41	-0.00501	PASS
					30	6.74	0.00359	PASS
					40	1.66	0.00088	PASS
					50	-10.84	-0.00577	PASS
			HCH	VN	-30	-4.13	-0.00216	PASS
					-20	-4.16	-0.00218	PASS
					-10	-0.93	-0.00049	PASS
					0	-3.26	-0.00171	PASS
					10	-5.34	-0.0028	PASS
					20	2.79	0.00146	PASS
					30	-0.72	-0.00038	PASS
					40	-0.92	-0.00048	PASS
					50	5.81	0.00304	PASS
			LCH	VN	-30	2.63	0.00142	PASS
					-20	-5.35	-0.00289	PASS
					-10	-1.69	-0.00091	PASS
					0	-1.97	-0.00106	PASS
					10	-2.53	-0.00137	PASS
					20	1.56	0.00084	PASS
					30	1.85	0.001	PASS
					40	-0.73	-0.00039	PASS
					50	1.3	0.0007	PASS
		5	MCH	VN	-30	0.62	0.00033	PASS
					-20	-4.61	-0.00245	PASS
					-10	7.17	0.00381	PASS
					0	-13.66	-0.00727	PASS
					10	5.99	0.00319	PASS
					20	-0.33	-0.00018	PASS
					30	1.34	0.00071	PASS
					40	3.6	0.00191	PASS
					50	-4.65	-0.00247	PASS
			HCH	VN	-30	4.19	0.0022	PASS





				-20	1.6	0.00084	PASS	
				-10	26.64	0.01397	PASS	
				0	-0.43	-0.00023	PASS	
				10	3.81	0.002	PASS	
				20	2.2	0.00115	PASS	
				30	-0.03	-0.00002	PASS	
				40	-4.38	-0.0023	PASS	
				50	0.5	0.00026	PASS	
		10	LCH	VN	-30	2.46	0.00133	PASS
					-20	-0.06	-0.00003	PASS
					-10	-0.21	-0.00011	PASS
					0	0.1	0.00005	PASS
					10	1.09	0.00059	PASS
					20	-0.33	-0.00018	PASS
					30	0.51	0.00027	PASS
					40	0.57	0.00031	PASS
					50	1.92	0.00104	PASS
		10	MCH	VN	-30	-3	-0.0016	PASS
					-20	-3.16	-0.00168	PASS
					-10	-1.12	-0.0006	PASS
					0	1.63	0.00087	PASS
					10	2.75	0.00146	PASS
					20	-3.22	-0.00171	PASS
					30	-0.06	-0.00003	PASS
					40	-3.76	-0.002	PASS
					50	-6.69	-0.00356	PASS
		10	HCH	VN	-30	0.57	0.0003	PASS
					-20	4.84	0.00254	PASS
					-10	0.6	0.00031	PASS
					0	-1.42	-0.00075	PASS
					10	0.82	0.00043	PASS
					20	1.9	0.001	PASS
					30	1.72	0.0009	PASS
					40	-1.1	-0.00058	PASS
					50	0.46	0.00024	PASS
		15	LCH	VN	-30	2.46	0.00132	PASS
					-20	-1.87	-0.00101	PASS
					-10	1.72	0.00093	PASS
					0	0.1	0.00005	PASS



				10	1.76	0.00095	PASS	
				20	0.46	0.00025	PASS	
				30	0.57	0.00031	PASS	
				40	0.5	0.00027	PASS	
				50	-0.69	-0.00037	PASS	
			MCH	VN	-30	-1.77	-0.00094	PASS
					-20	1.79	0.00095	PASS
					-10	-3.86	-0.00205	PASS
					0	-3.19	-0.0017	PASS
					10	-5.79	-0.00308	PASS
					20	-1.77	-0.00094	PASS
					30	-3.06	-0.00163	PASS
					40	-3.49	-0.00186	PASS
					50	-2.42	-0.00129	PASS
			HCH	VN	-30	-2.73	-0.00143	PASS
					-20	1.93	0.00101	PASS
					-10	2.12	0.00111	PASS
					0	3.43	0.0018	PASS
					10	3.91	0.00206	PASS
					20	0.9	0.00047	PASS
					30	-0.59	-0.00031	PASS
					40	0.36	0.00019	PASS
					50	2.57	0.00135	PASS
		20	LCH	VN	-30	2.03	0.00109	PASS
					-20	-3.4	-0.00183	PASS
					-10	0.57	0.00031	PASS
					0	1.53	0.00082	PASS
					10	3.28	0.00176	PASS
					20	0.17	0.00009	PASS
					30	0.77	0.00041	PASS
					40	-0.44	-0.00024	PASS
					50	2.59	0.00139	PASS
			MCH	VN	-30	-0.89	-0.00047	PASS
					-20	-1.09	-0.00058	PASS
					-10	-1.46	-0.00078	PASS
					0	-1.07	-0.00057	PASS
					10	-2.62	-0.00139	PASS
					20	-3.55	-0.00189	PASS
					30	-3.66	-0.00195	PASS



			HCH	VN	40	0.03	0.00002	PASS		
					50	-1.39	-0.00074	PASS		
					-30	-3.08	-0.00162	PASS		
					-20	-3.62	-0.00191	PASS		
					-10	-2.86	-0.00151	PASS		
					0	0.27	0.00014	PASS		
					10	-3.62	-0.00191	PASS		
					20	-4.16	-0.00219	PASS		
					30	-2.55	-0.00134	PASS		
					40	-3.46	-0.00182	PASS		
					50	-4.51	-0.00237	PASS		
					LTE/TM2	1.4	LCH	VN	-30	23.3
	-20	-12.09	-0.00653	PASS						
	-10	-3.2	-0.00173	PASS						
	0	9.2	0.00497	PASS						
	10	15.96	0.00862	PASS						
	20	3.65	0.00197	PASS						
	30	-24.79	-0.01339	PASS						
	40	2.59	0.0014	PASS						
	50	12.55	0.00678	PASS						
	MCH	VN	-30	-10.06					-0.00535	PASS
			-20	6.18					0.00329	PASS
			-10	1.8					0.00096	PASS
			0	-4.18			-0.00222	PASS		
			10	3.46			0.00184	PASS		
			20	-1.52			-0.00081	PASS		
			30	-5.84			-0.00311	PASS		
			40	-3.99			-0.00212	PASS		
HCH	VN	50	-10.41	-0.00554			PASS			
		-30	16.12	0.00844			PASS			
		-20	-14.86	-0.00778			PASS			
		-10	-9.81	-0.00514			PASS			
		0	-0.24	-0.00013			PASS			
		10	-11.34	-0.00594			PASS			
		20	-2.42	-0.00127			PASS			
		30	-4.99	-0.00261	PASS					
3	LCH	VN	40	-5.21	-0.00273	PASS				
			50	12.46	0.00653	PASS				



					-20	-0.9	-0.00049	PASS
					-10	1.42	0.00077	PASS
					0	-9.54	-0.00515	PASS
					10	-11.13	-0.00601	PASS
					20	-10.76	-0.00581	PASS
					30	-0.83	-0.00045	PASS
					40	-3.53	-0.00191	PASS
					50	1.82	0.00098	PASS
			MCH	VN	-30	-4.75	-0.00253	PASS
			MCH	VN	-20	3.71	0.00197	PASS
			MCH	VN	-10	-6.21	-0.0033	PASS
			MCH	VN	0	-2.49	-0.00132	PASS
			MCH	VN	10	-2.45	-0.0013	PASS
			MCH	VN	20	-3.85	-0.00205	PASS
			MCH	VN	30	0.16	0.00009	PASS
			MCH	VN	40	4.23	0.00225	PASS
			MCH	VN	50	-7.52	-0.004	PASS
			HCH	VN	-30	4.03	0.00211	PASS
			HCH	VN	-20	2.63	0.00138	PASS
			HCH	VN	-10	1.29	0.00068	PASS
			HCH	VN	0	-0.39	-0.0002	PASS
			HCH	VN	10	-3.62	-0.0019	PASS
			HCH	VN	20	1.5	0.00079	PASS
			HCH	VN	30	1.3	0.00068	PASS
			HCH	VN	40	-0.94	-0.00049	PASS
			HCH	VN	50	3.59	0.00188	PASS
		5	LCH	VN	-30	0.16	0.00009	PASS
		5	LCH	VN	-20	-0.47	-0.00025	PASS
		5	LCH	VN	-10	-1.93	-0.00104	PASS
		5	LCH	VN	0	2.79	0.00151	PASS
		5	LCH	VN	10	1.83	0.00099	PASS
		5	LCH	VN	20	-3.35	-0.00181	PASS
		5	LCH	VN	30	0.16	0.00009	PASS
		5	LCH	VN	40	-0.63	-0.00034	PASS
		5	LCH	VN	50	0.16	0.00009	PASS
			MCH	VN	-30	-0.86	-0.00046	PASS
			MCH	VN	-20	-2.95	-0.00157	PASS
			MCH	VN	-10	-4.19	-0.00223	PASS
			MCH	VN	0	3.3	0.00176	PASS



				10	3.48	0.00185	PASS	
				20	-3.13	-0.00166	PASS	
				30	-3.18	-0.00169	PASS	
				40	-11.89	-0.00632	PASS	
				50	0.66	0.00035	PASS	
			HCH	VN	-30	0.62	0.00033	PASS
			HCH	VN	-20	3.3	0.00173	PASS
			HCH	VN	-10	-4.92	-0.00258	PASS
			HCH	VN	0	2.29	0.0012	PASS
			HCH	VN	10	11.66	0.00611	PASS
			HCH	VN	20	-1.32	-0.00069	PASS
			HCH	VN	30	-1.62	-0.00085	PASS
			HCH	VN	40	1.16	0.00061	PASS
			HCH	VN	50	4.66	0.00244	PASS
			LCH	VN	-30	-0.21	-0.00011	PASS
			LCH	VN	-20	0.51	0.00027	PASS
			LCH	VN	-10	-1.95	-0.00105	PASS
			LCH	VN	0	-0.3	-0.00016	PASS
			LCH	VN	10	0.5	0.00027	PASS
			LCH	VN	20	0.67	0.00036	PASS
			LCH	VN	30	-0.67	-0.00036	PASS
			LCH	VN	40	3.29	0.00177	PASS
			LCH	VN	50	0.96	0.00052	PASS
			MCH	VN	-30	-3.76	-0.002	PASS
			MCH	VN	-20	-2.03	-0.00108	PASS
			MCH	VN	-10	0.43	0.00023	PASS
			MCH	VN	0	-1.44	-0.00077	PASS
			MCH	VN	10	-2.07	-0.0011	PASS
			MCH	VN	20	-1.79	-0.00095	PASS
			MCH	VN	30	2.36	0.00126	PASS
			MCH	VN	40	0.29	0.00015	PASS
			MCH	VN	50	-2.92	-0.00155	PASS
			HCH	VN	-30	1.8	0.00094	PASS
			HCH	VN	-20	2.13	0.00112	PASS
			HCH	VN	-10	4.41	0.00231	PASS
			HCH	VN	0	-3.25	-0.00171	PASS
			HCH	VN	10	3.86	0.00203	PASS
			HCH	VN	20	2.32	0.00122	PASS
			HCH	VN	30	0.66	0.00035	PASS



				40	2.62	0.00138	PASS			
				50	2.62	0.00138	PASS			
		15	LCH	VN	-30	0.36	0.00019	PASS		
					-20	2.55	0.00137	PASS		
					-10	1	0.00054	PASS		
					0	0.6	0.00032	PASS		
					10	1.89	0.00102	PASS		
					20	0.97	0.00052	PASS		
					30	-0.29	-0.00016	PASS		
					40	2.55	0.00137	PASS		
					50	-0.23	-0.00012	PASS		
					MCH	VN	-30	0.56	0.0003	PASS
							-20	-1.24	-0.00066	PASS
		-10	-0.63	-0.00034			PASS			
		0	-3.55	-0.00189			PASS			
		10	-2.59	-0.00138			PASS			
		20	-1.12	-0.0006			PASS			
		30	-4.22	-0.00224			PASS			
		40	-3.5	-0.00186			PASS			
		HCH	VN	50	-0.16	-0.00009	PASS			
				-30	0.4	0.00021	PASS			
				-20	0.89	0.00047	PASS			
				-10	-2.56	-0.00135	PASS			
				0	1.19	0.00063	PASS			
				10	1.2	0.00063	PASS			
				20	-0.76	-0.0004	PASS			
				30	0.96	0.0005	PASS			
		20	LCH	VN	40	1.12	0.00059	PASS		
					50	1.99	0.00105	PASS		
					-30	1.79	0.00096	PASS		
					-20	0.96	0.00052	PASS		
					-10	-4.32	-0.00232	PASS		
					0	1.53	0.00082	PASS		
					10	-2.43	-0.00131	PASS		
					20	-1.19	-0.00064	PASS		
					30	-0.89	-0.00048	PASS		
					40	1.65	0.00089	PASS		
		50	1.13	0.00061	PASS					
		MCH	VN	-30	-0.76	-0.0004	PASS			



					-20	-1.16	-0.00062	PASS
					-10	-0.27	-0.00014	PASS
					0	-1.49	-0.00079	PASS
					10	-2.65	-0.00141	PASS
					20	-1.17	-0.00062	PASS
					30	-2.25	-0.0012	PASS
					40	-3.33	-0.00177	PASS
					50	-4.32	-0.0023	PASS
			HCH	VN	-30	-2.55	-0.00134	PASS
			HCH	VN	-20	-3.79	-0.00199	PASS
			HCH	VN	-10	-5.31	-0.00279	PASS
			HCH	VN	0	-2	-0.00105	PASS
			HCH	VN	10	-1.3	-0.00068	PASS
			HCH	VN	20	-0.77	-0.00041	PASS
			HCH	VN	30	-1.42	-0.00075	PASS
			HCH	VN	40	-2.32	-0.00122	PASS
			HCH	VN	50	-1.9	-0.001	PASS

END