



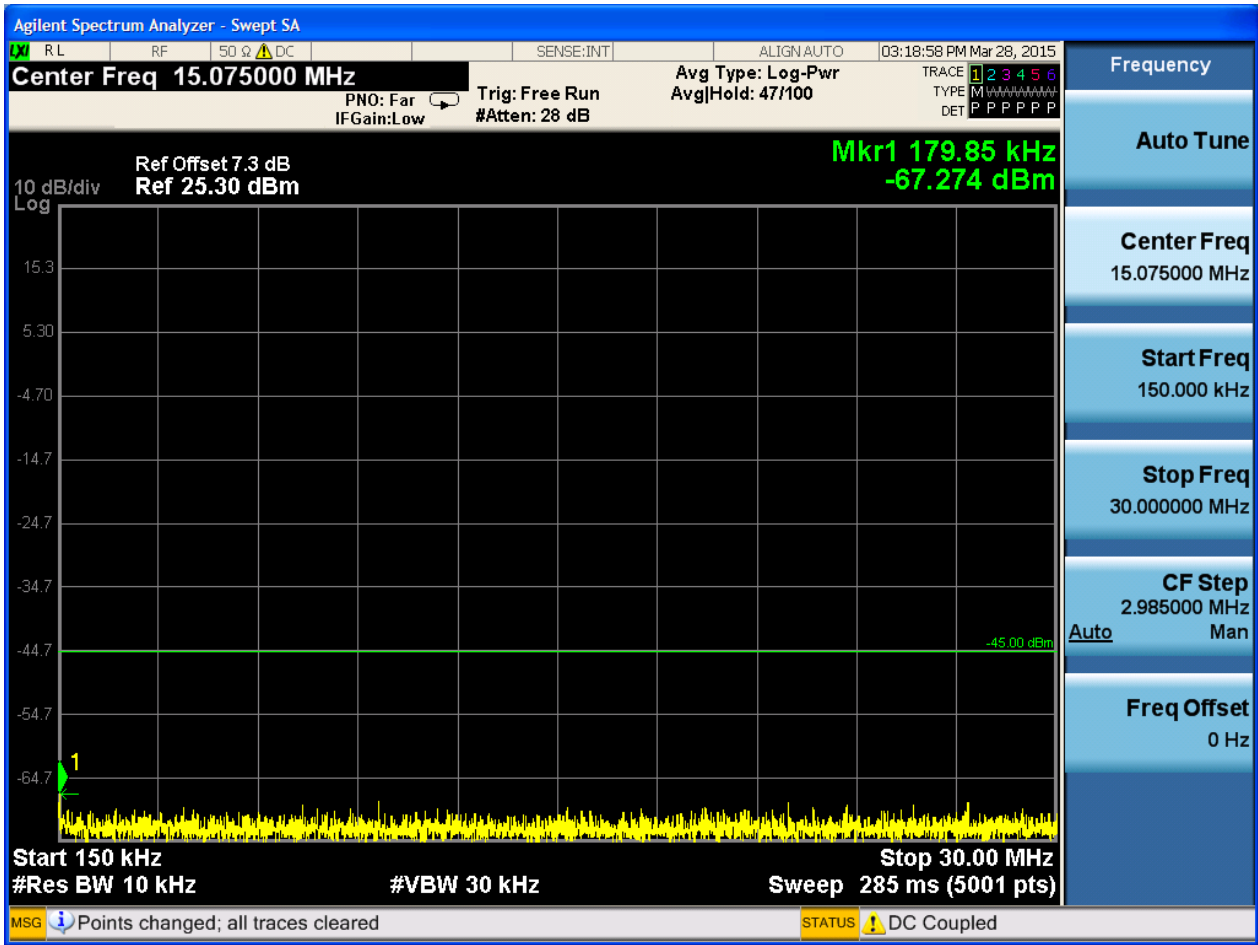
6.3.3.2 Test Mode = LTE/TM2

6.3.3.2.1 Test Bandwidth = 5

6.3.3.2.1.1 Test Channel = LCH

6.3.3.2.1.1.1 Test RB = RB1#0







6.3.3.2.1.2 Test Channel = MCH

6.3.3.2.1.2.1 Test RB = RB1#0

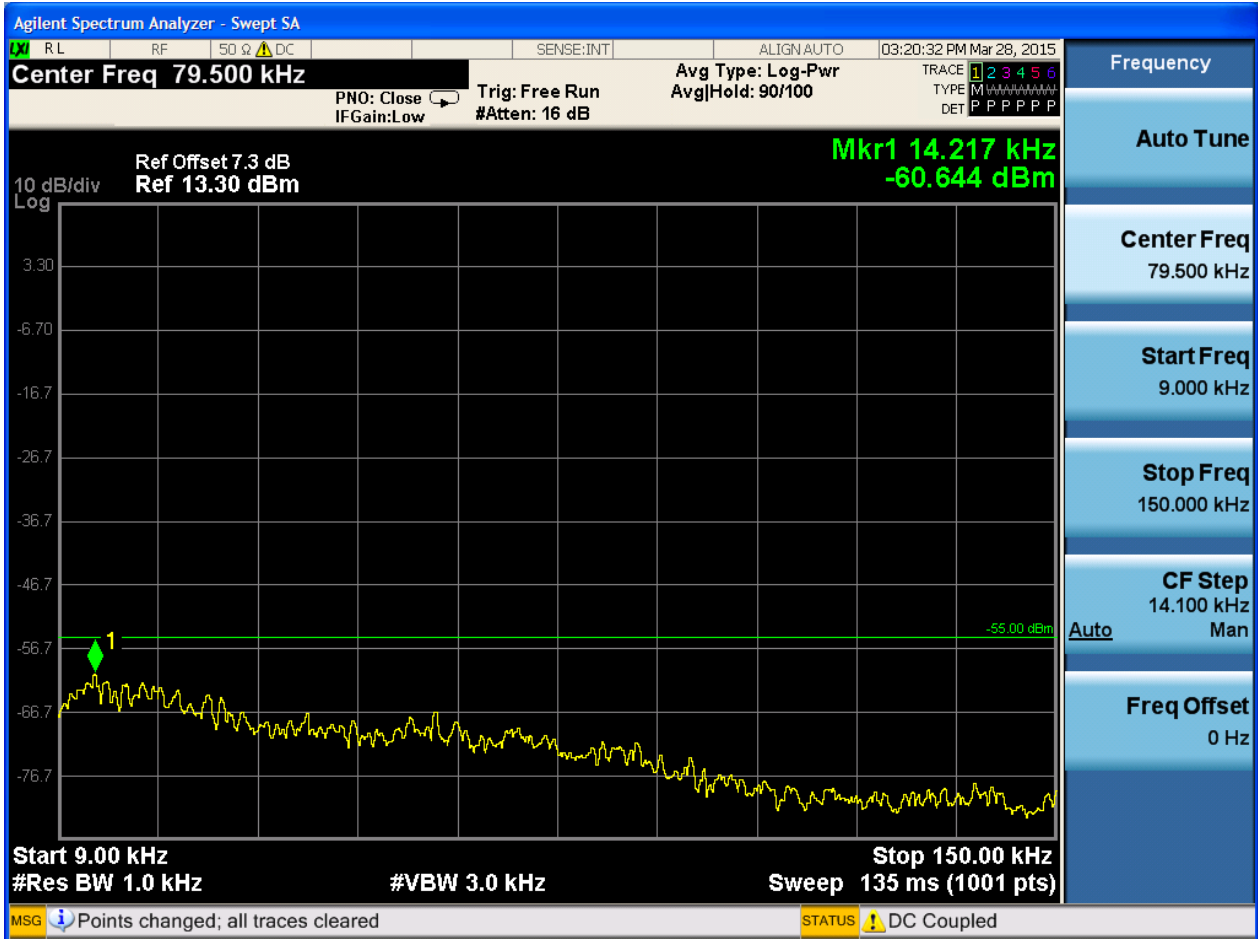


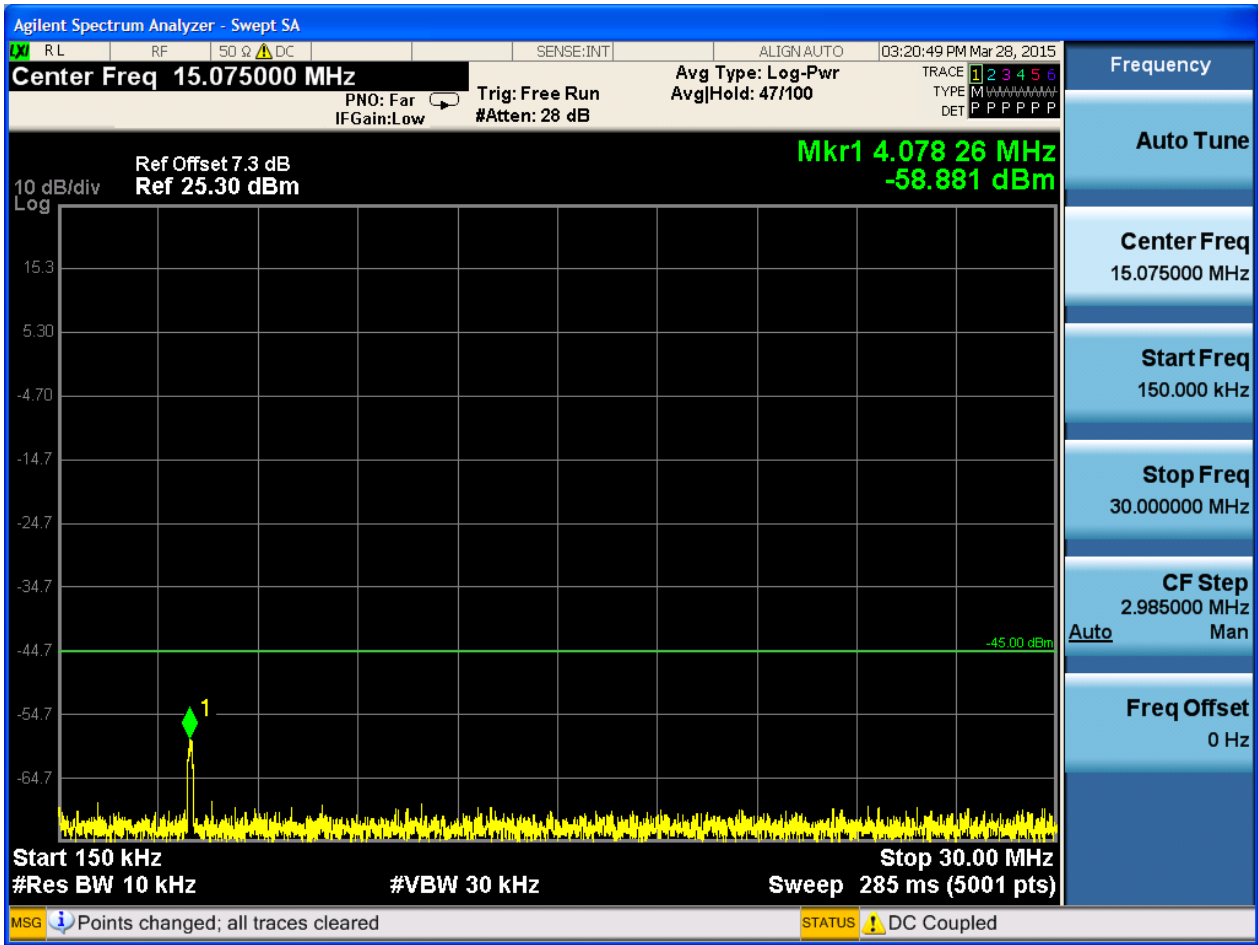




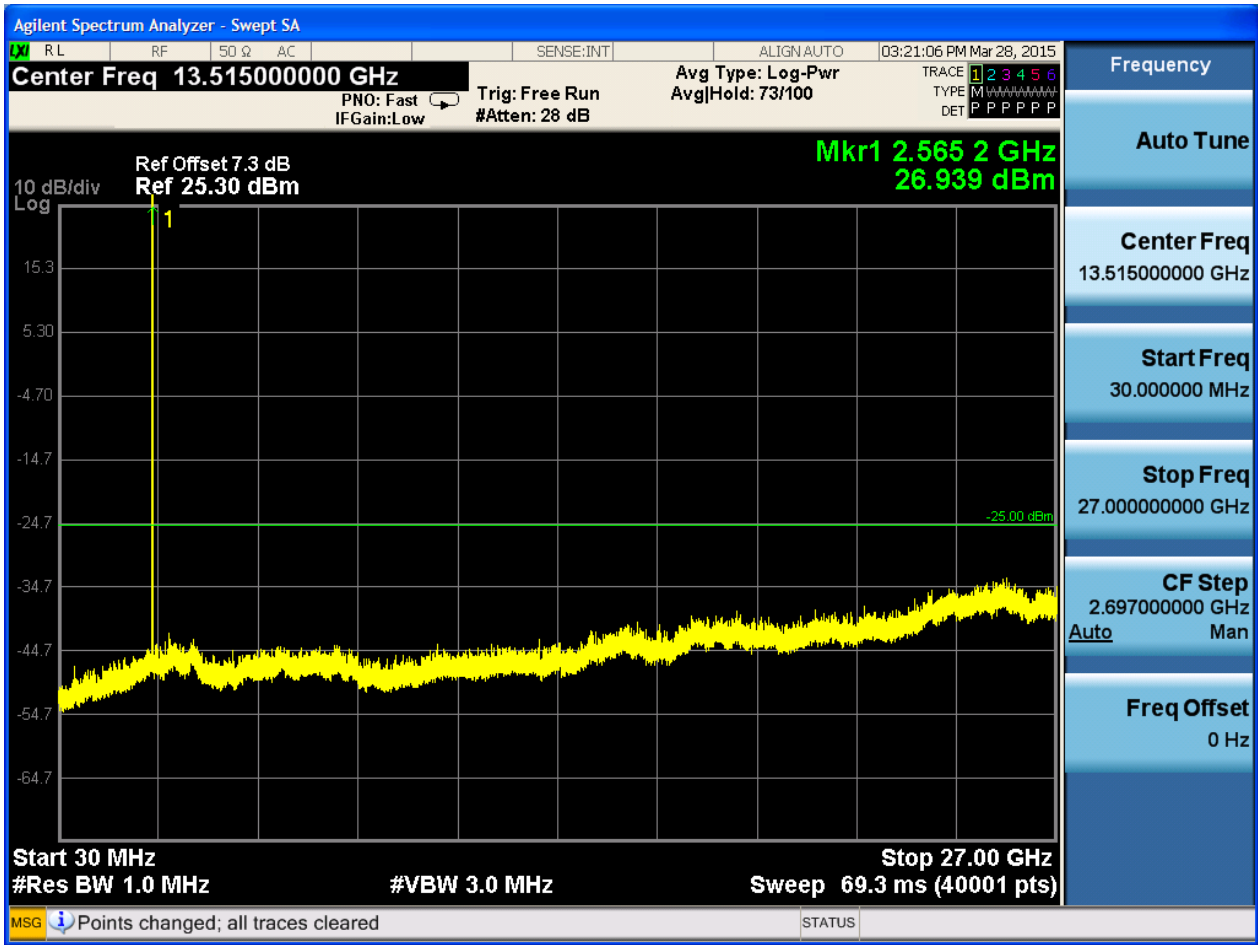
6.3.3.2.1.3 Test Channel = HCH

6.3.3.2.1.3.1 Test RB = RB1#0









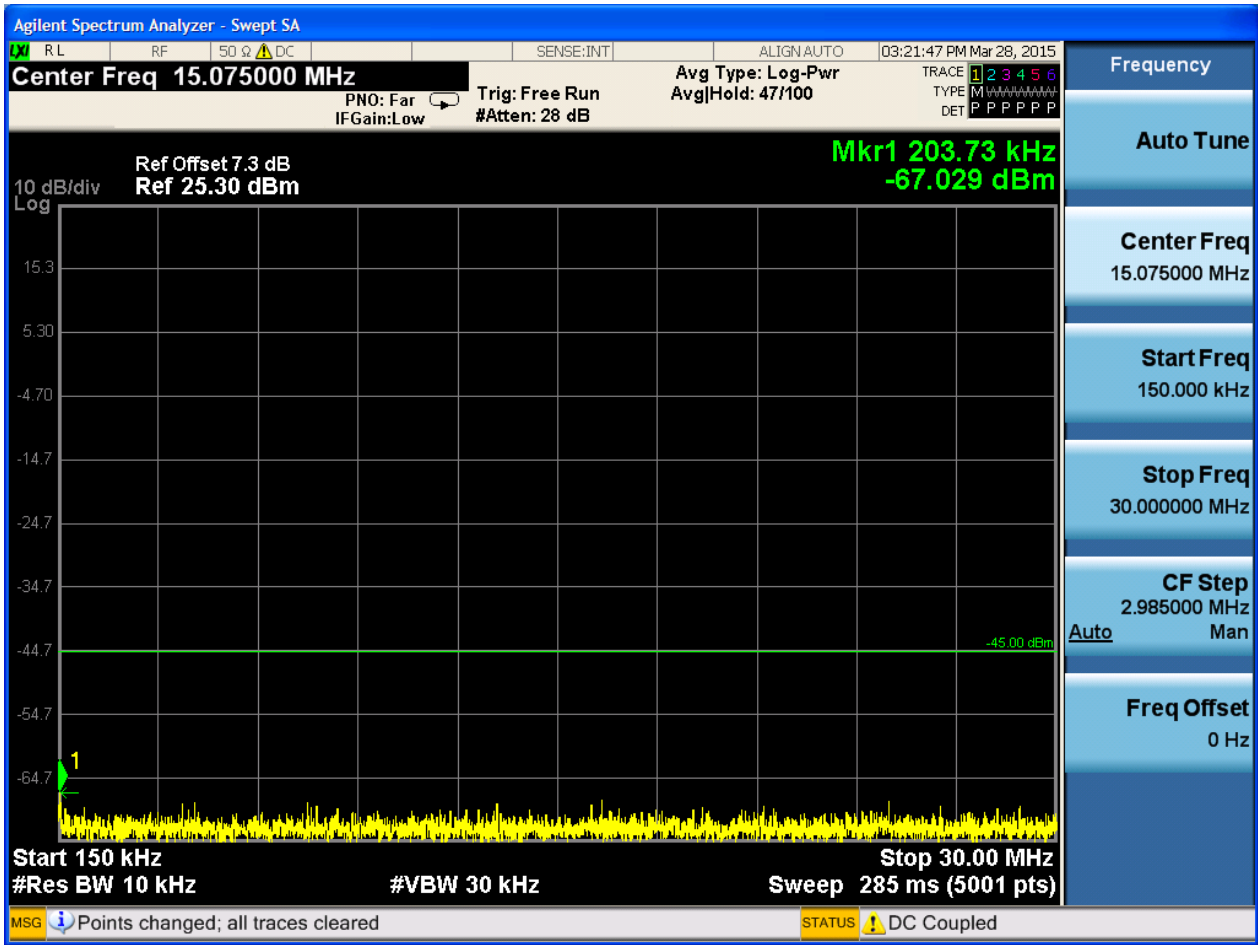


6.3.3.2.2 Test Bandwidth = 10

6.3.3.2.2.1 Test Channel = LCH

6.3.3.2.2.1.1 Test RB = RB1#0



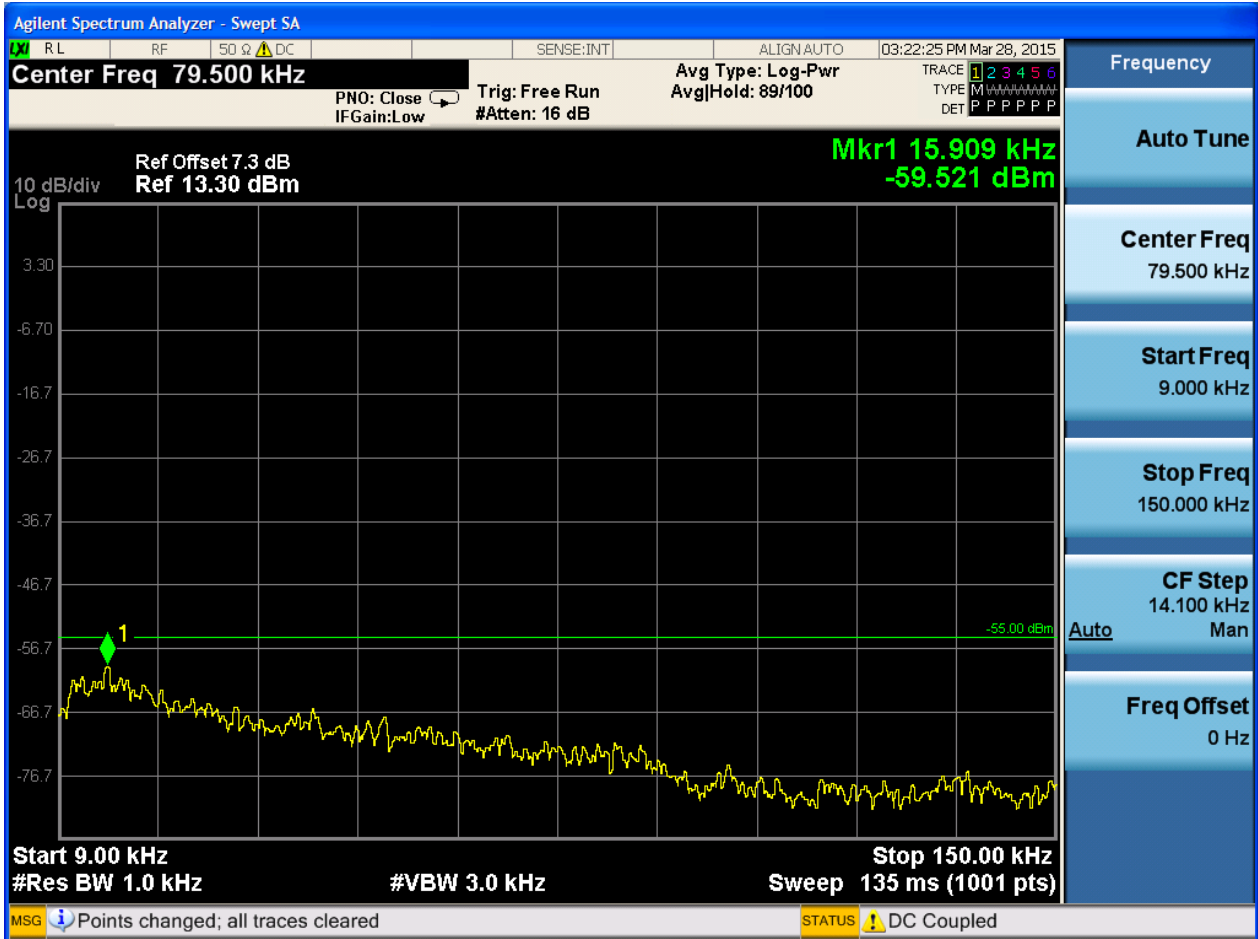




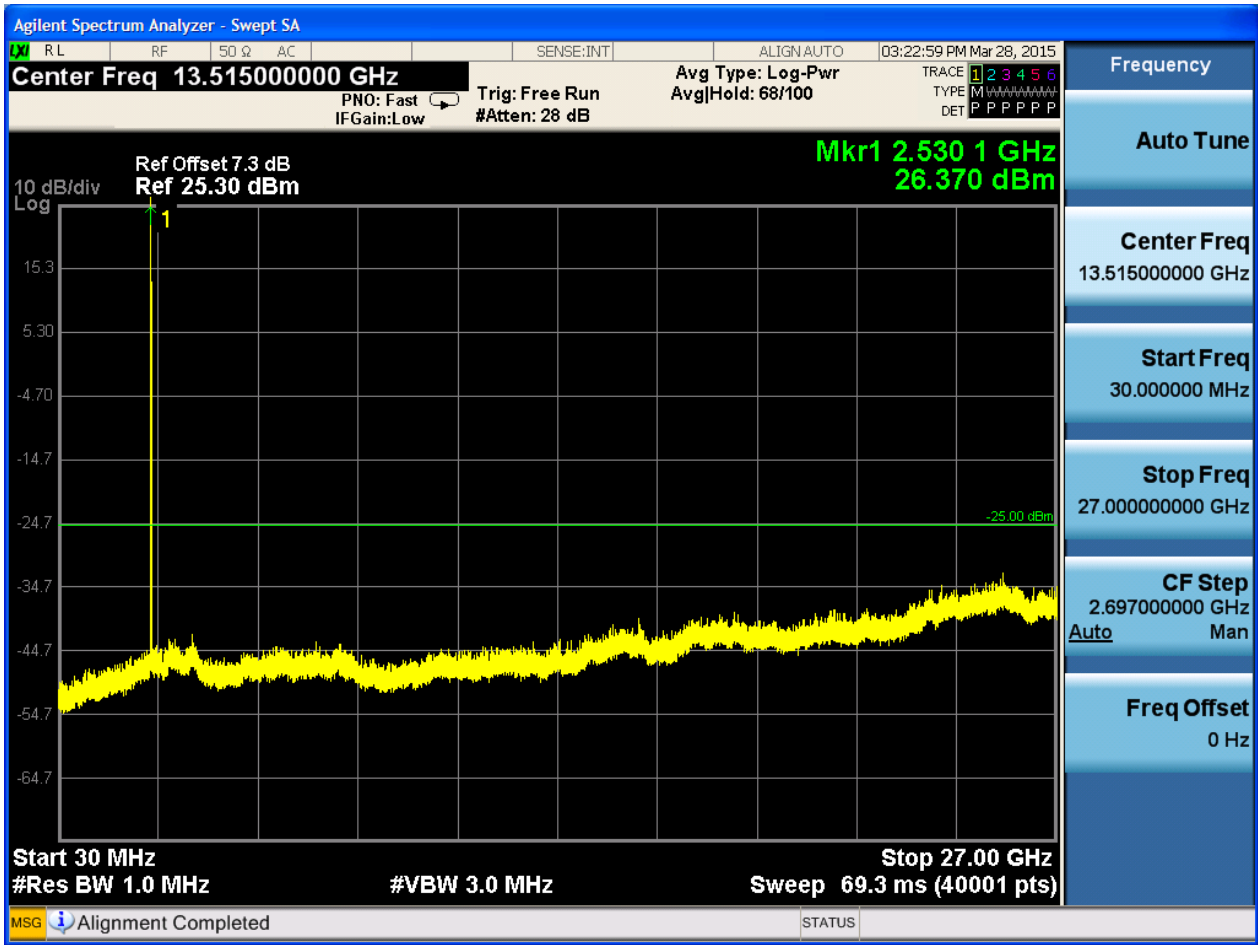


6.3.3.2.2 Test Channel = MCH

6.3.3.2.2.1 Test RB = RB1#0









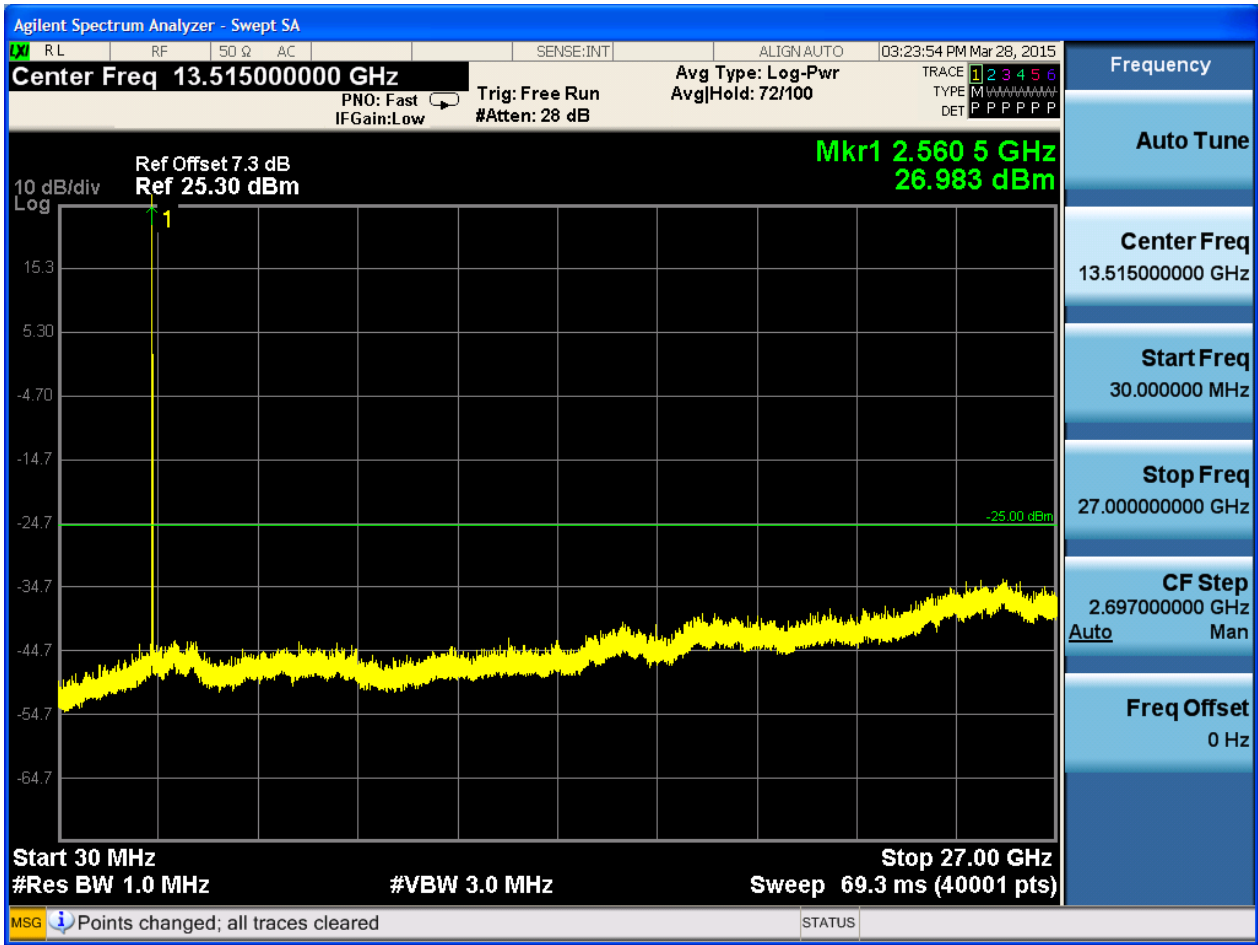
6.3.3.2.2.3 Test Channel = HCH

6.3.3.2.2.3.1 Test RB = RB1#0











6.3.3.2.3 Test Bandwidth = 15

6.3.3.2.3.1 Test Channel = LCH

6.3.3.2.3.1.1 Test RB = RB1#0





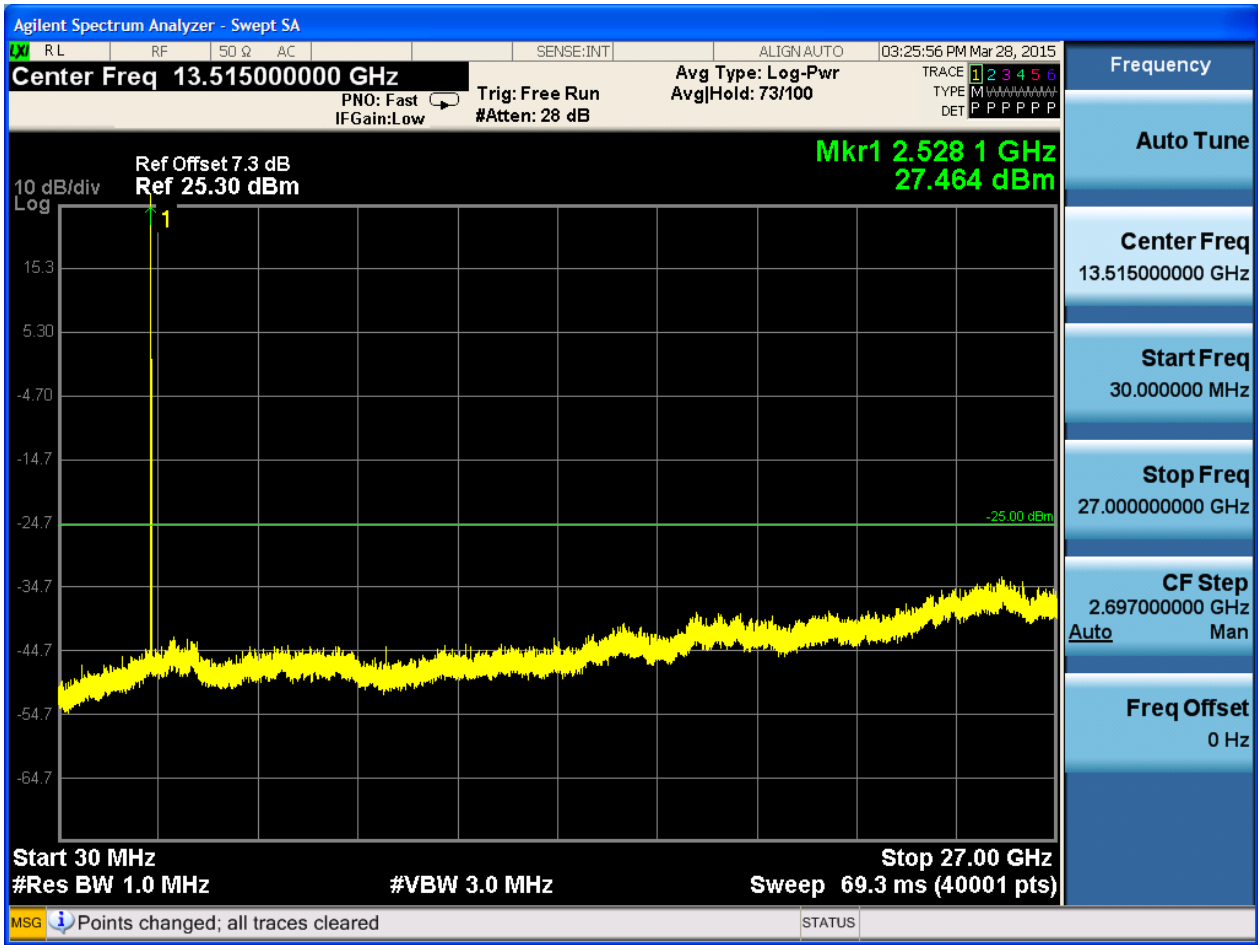


6.3.3.2.3.2 Test Channel = MCH

6.3.3.2.3.2.1 Test RB = RB1#0



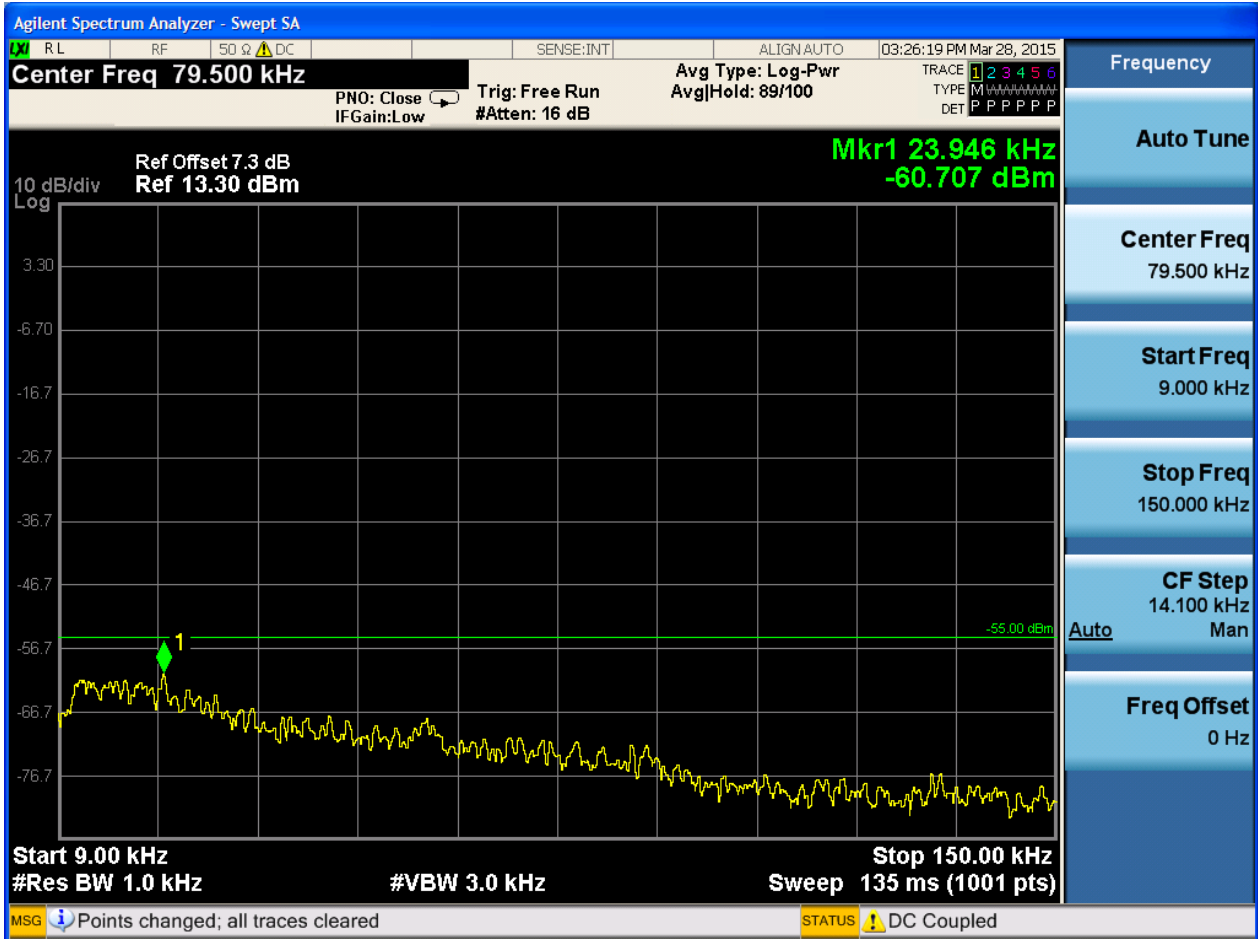




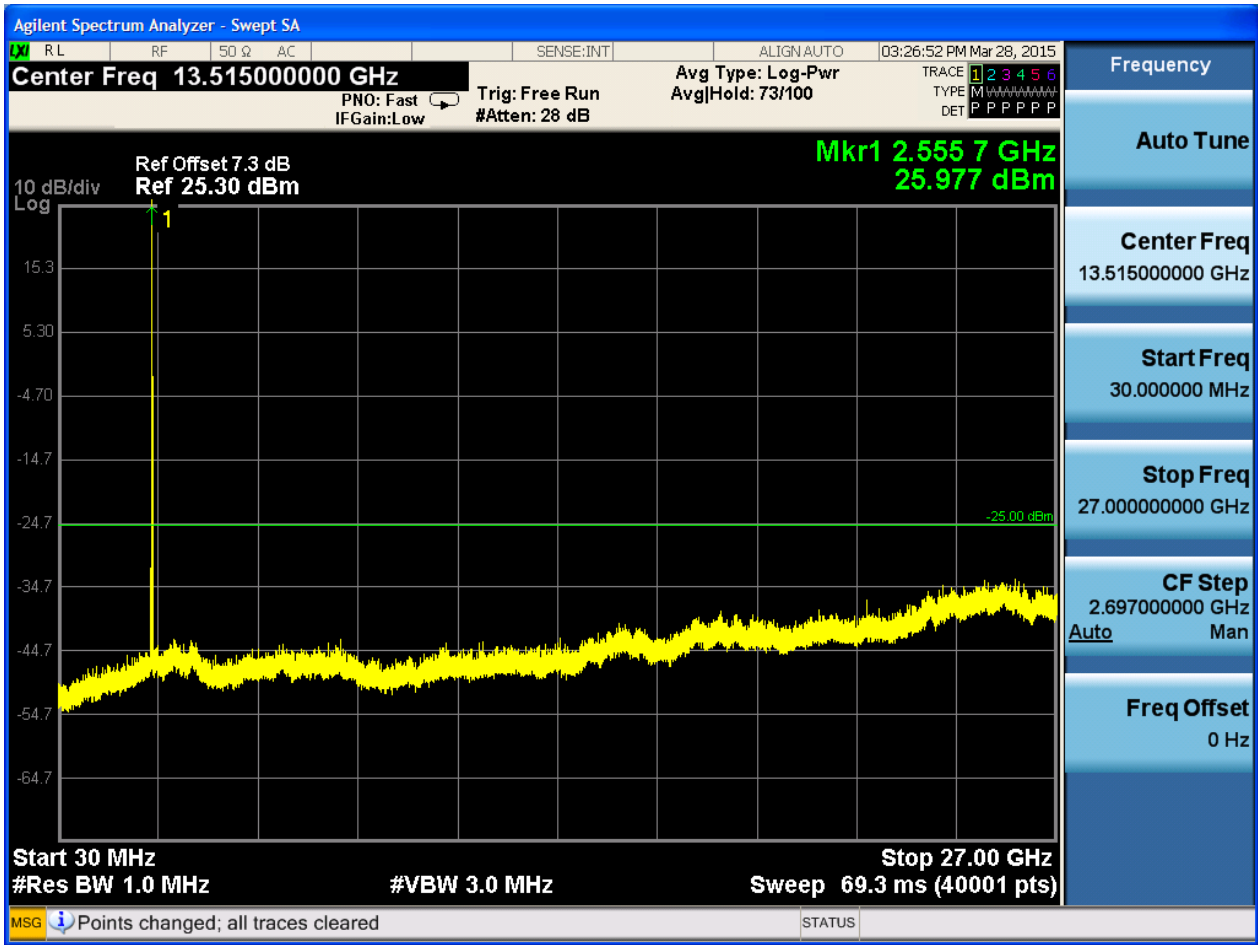


6.3.3.2.3.3 Test Channel = HCH

6.3.3.2.3.3.1 Test RB = RB1#0









6.3.3.2.4 Test Bandwidth = 20

6.3.3.2.4.1 Test Channel = LCH

6.3.3.2.4.1.1 Test RB = RB1#0









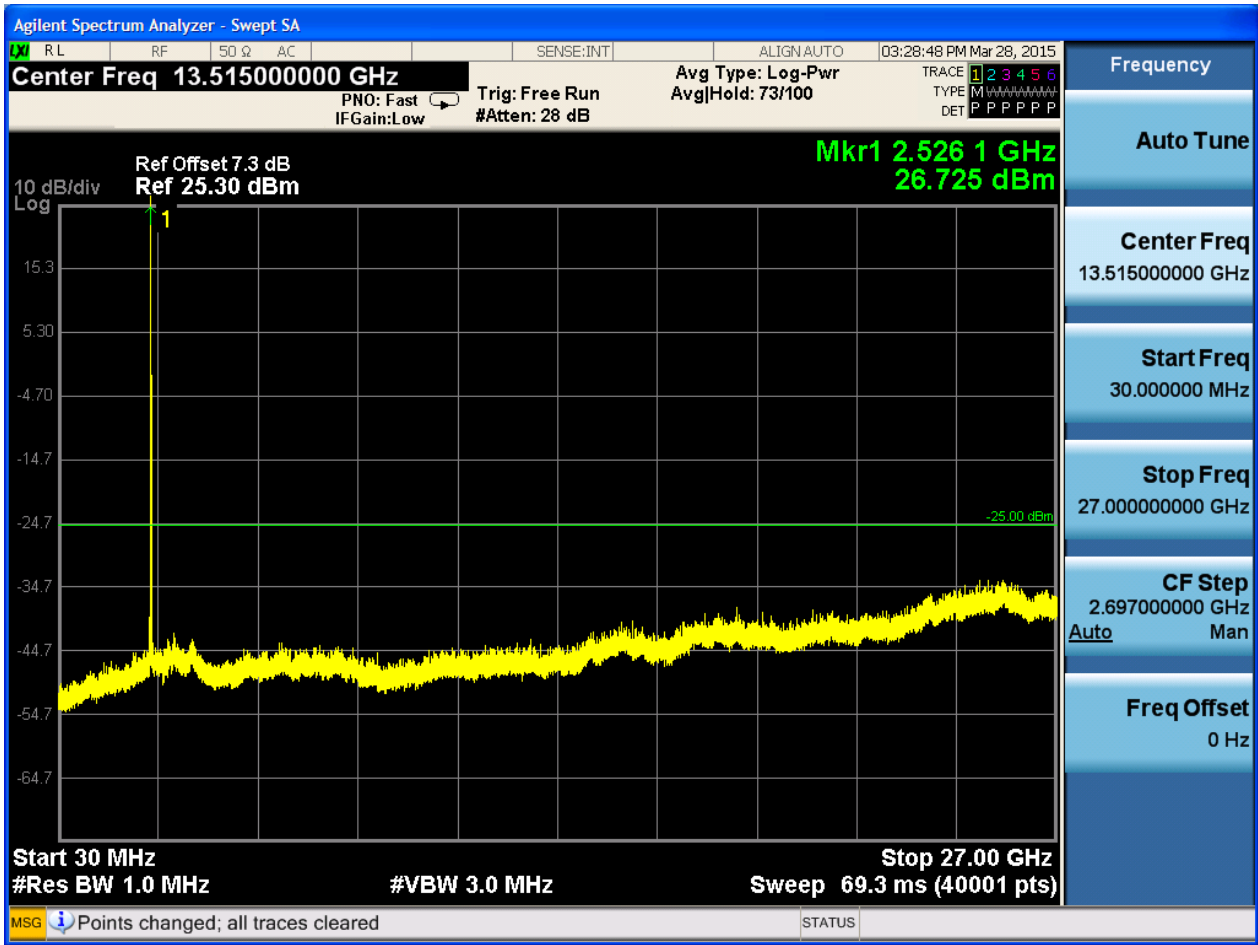
6.3.3.2.4.2 Test Channel = MCH

6.3.3.2.4.2.1 Test RB = RB1#0



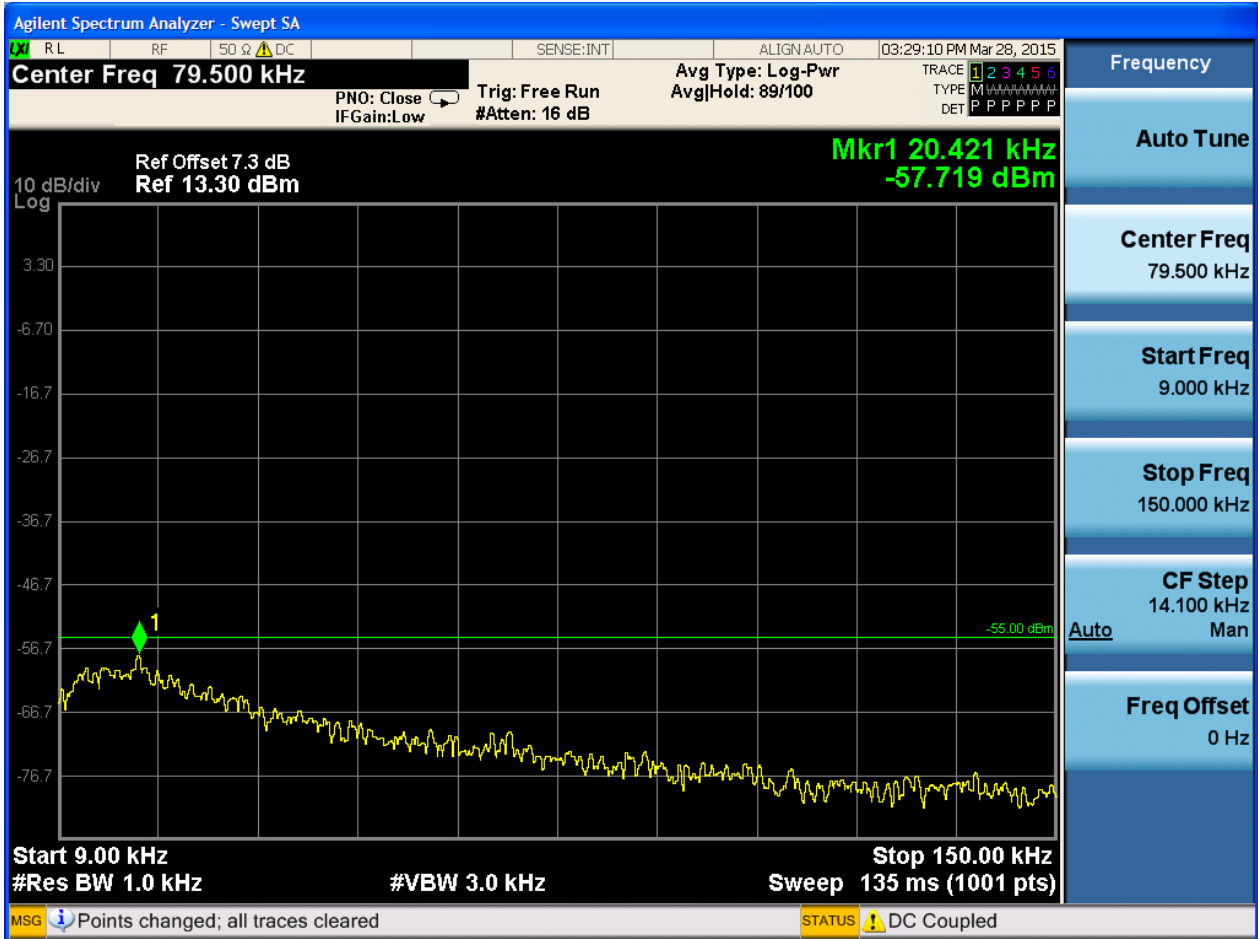


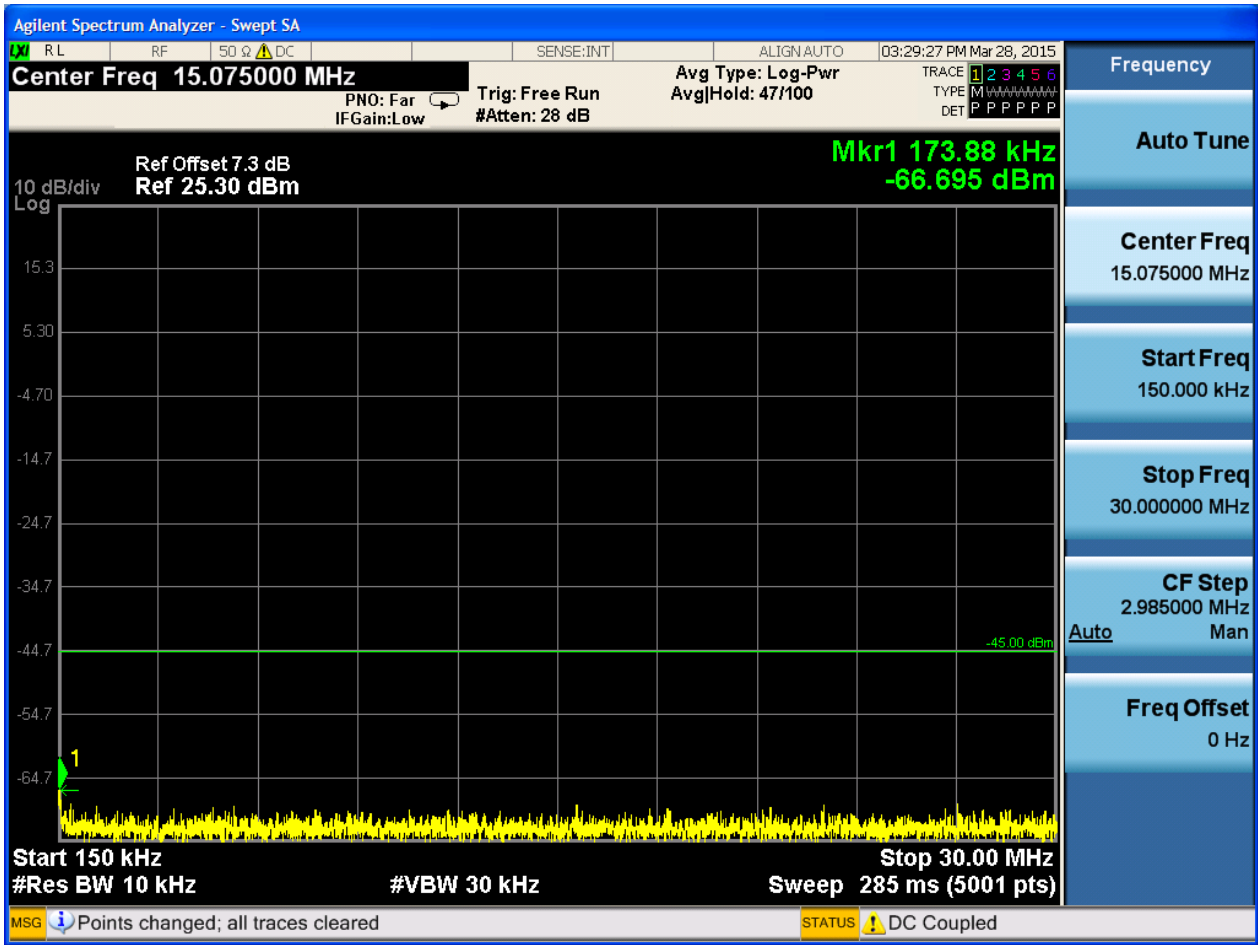


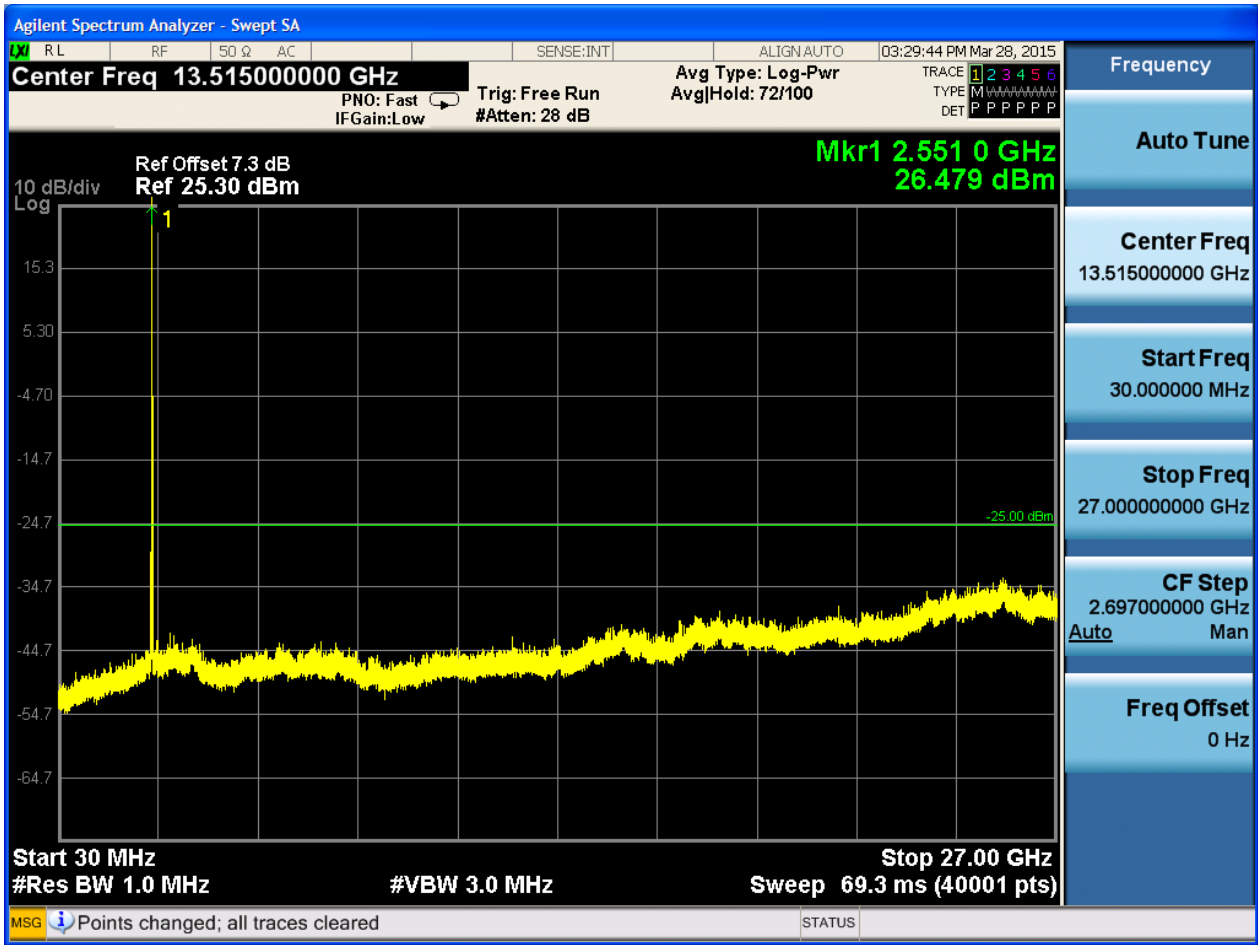


6.3.3.2.4.3 Test Channel = HCH

6.3.3.2.4.3.1 Test RB = RB1#0







## 7Appendix\_G: Field Strength of Spurious Radiation

Note: No peak found in the Test Range of “9 kHz to 30MHz”

9kHz~150kHz, VBW = 200Hz, VBW = 600 Hz, Detector: PK

150kHz~30MHz, VBW = 9kHz, VBW = 30k Hz, Detector: PK

30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Detector: PK

Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

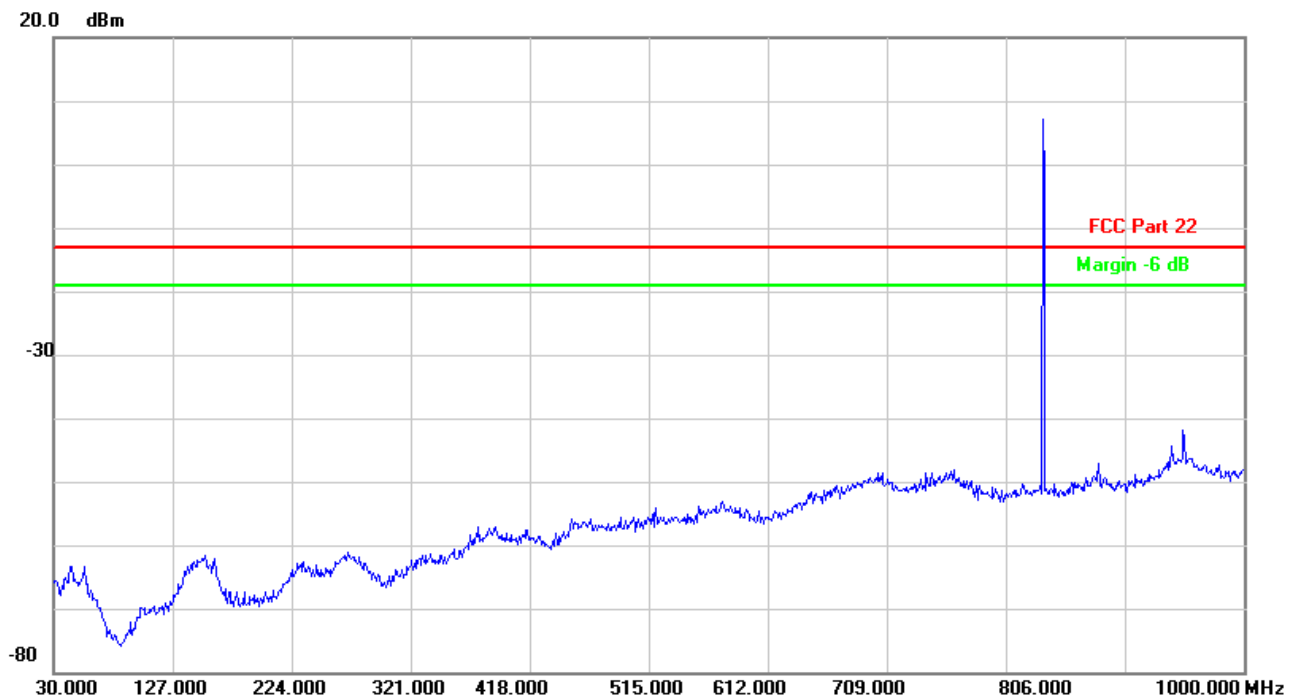
We tested all modes, but the data presented below is the worst case.

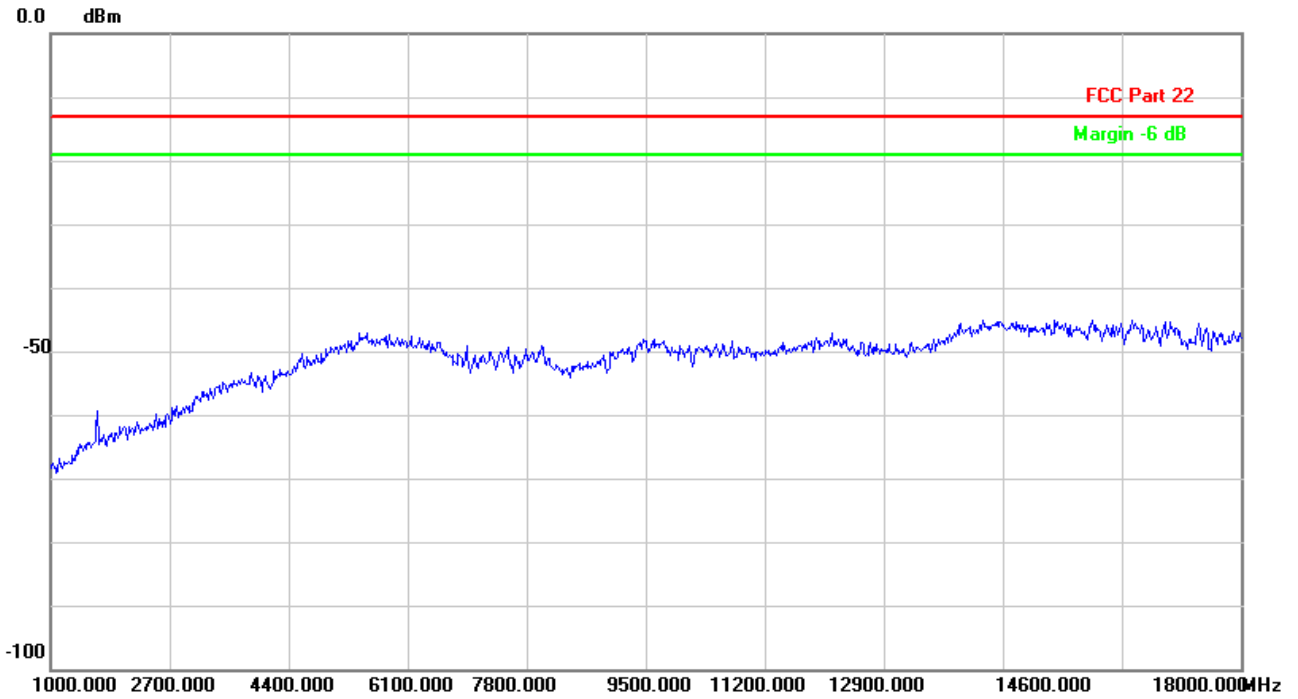
### Part I - Test Plots

#### 7.1 For GSM

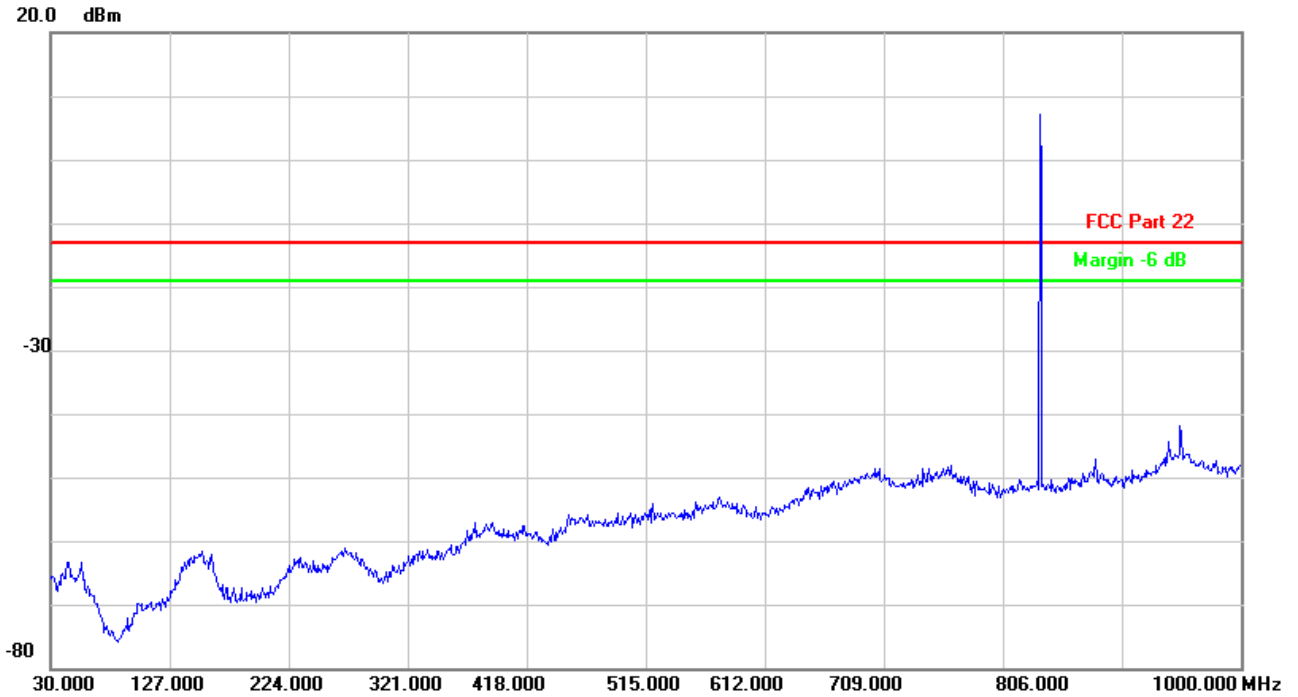
##### 7.1.1 Test Band = GSM850

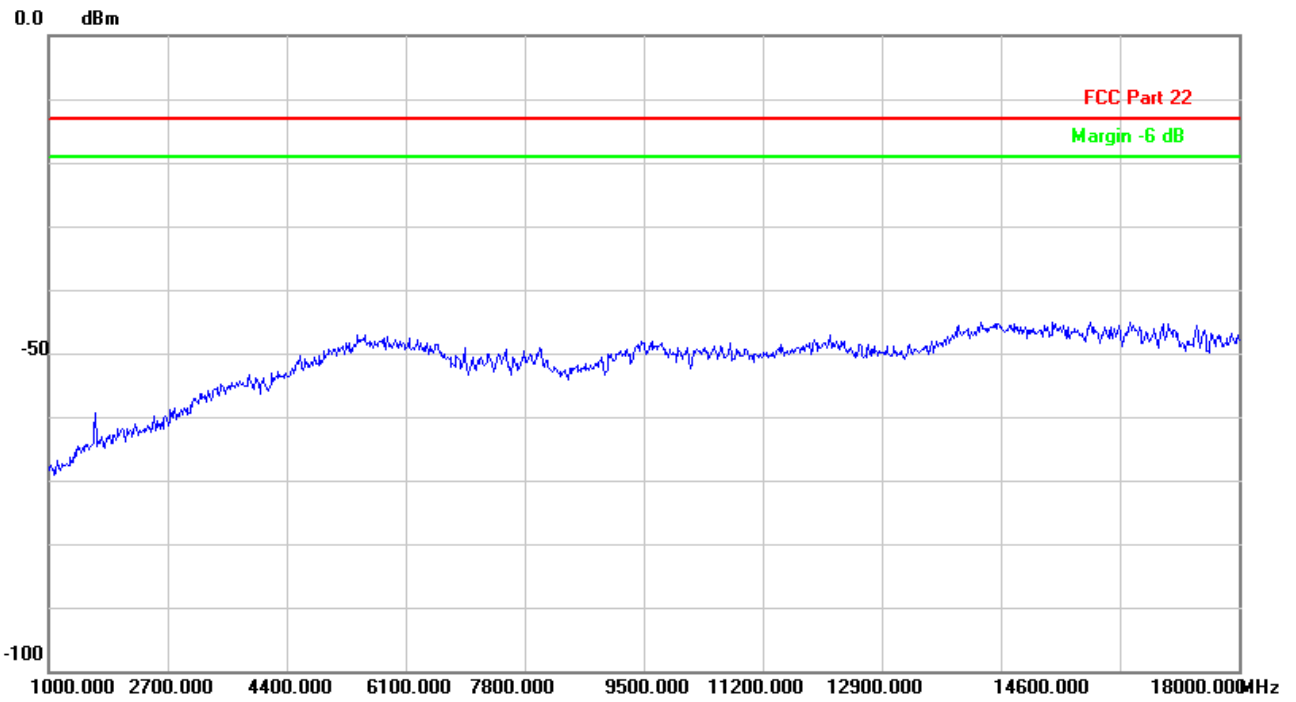
##### 7.1.1.1 Test Mode = GSM/TM1





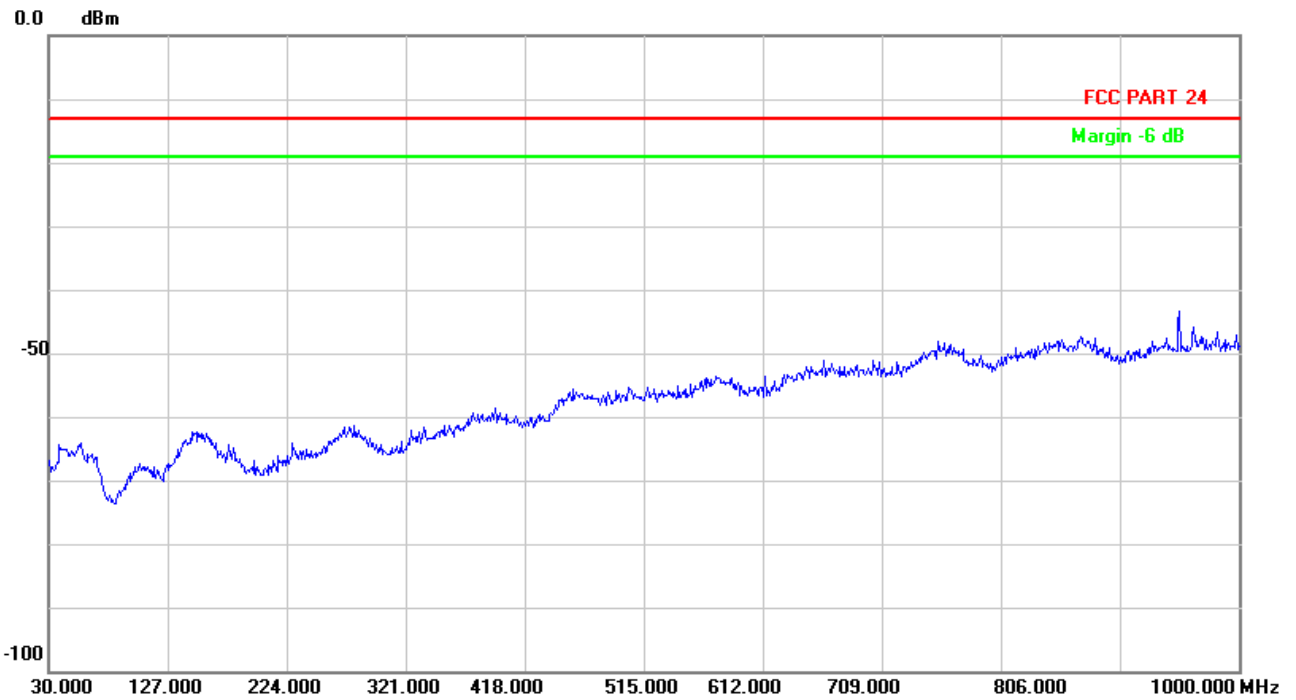
### 7.1.1.2 Test Mode = GSM/TM2

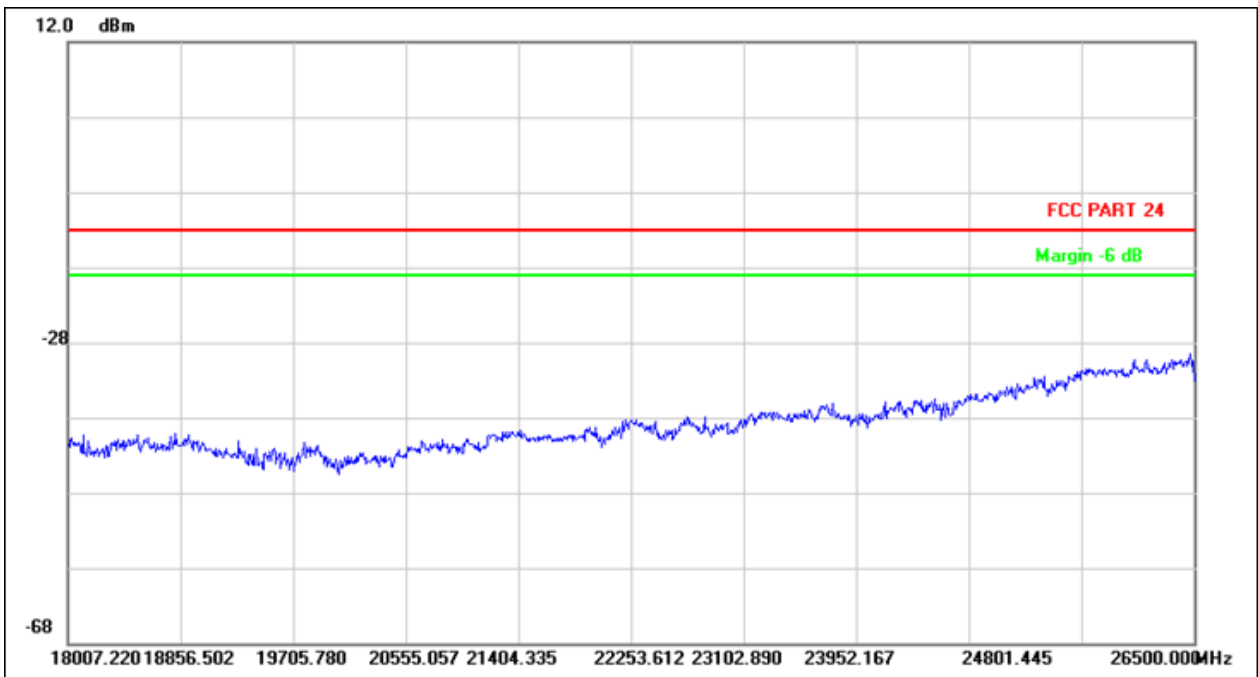
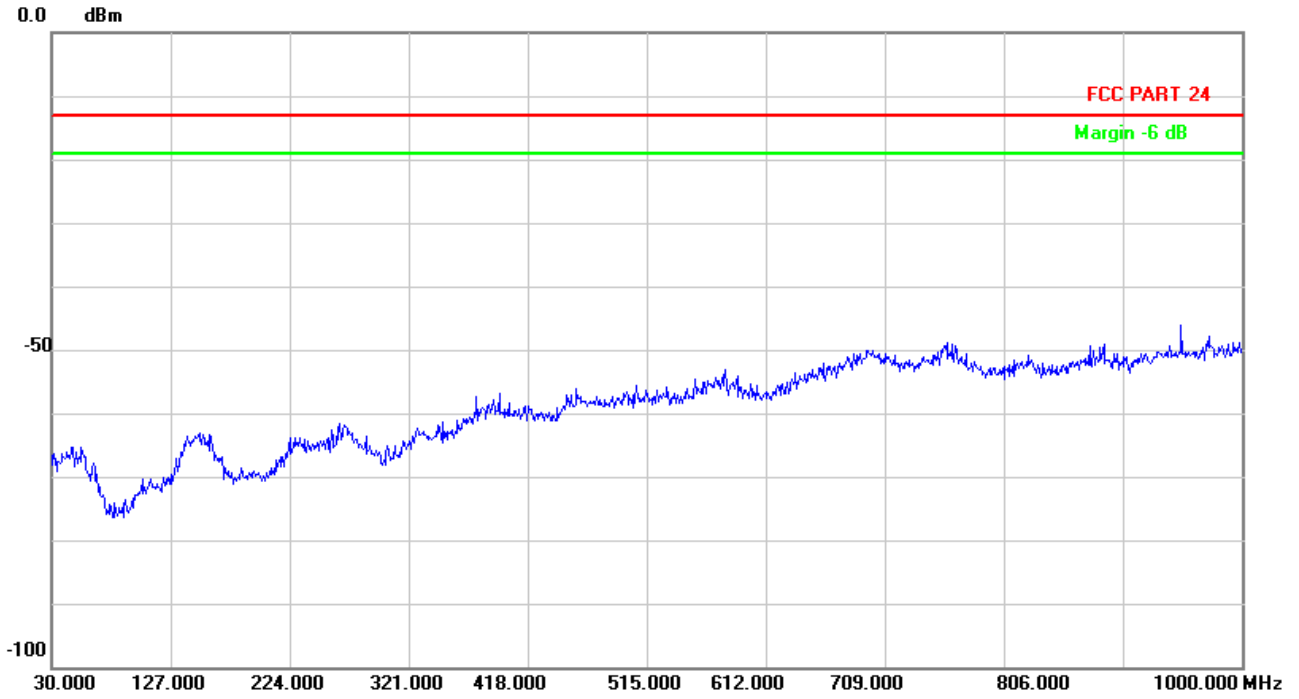




### 7.1.2 Test Band = GSM1900

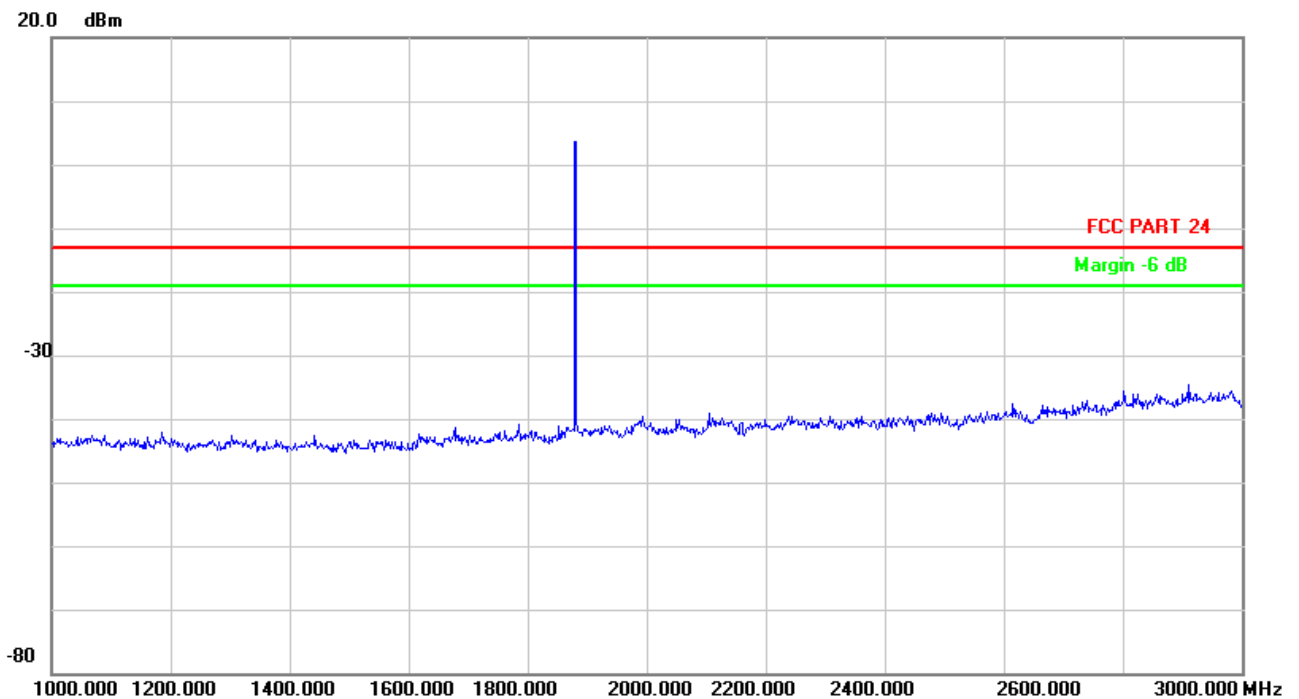
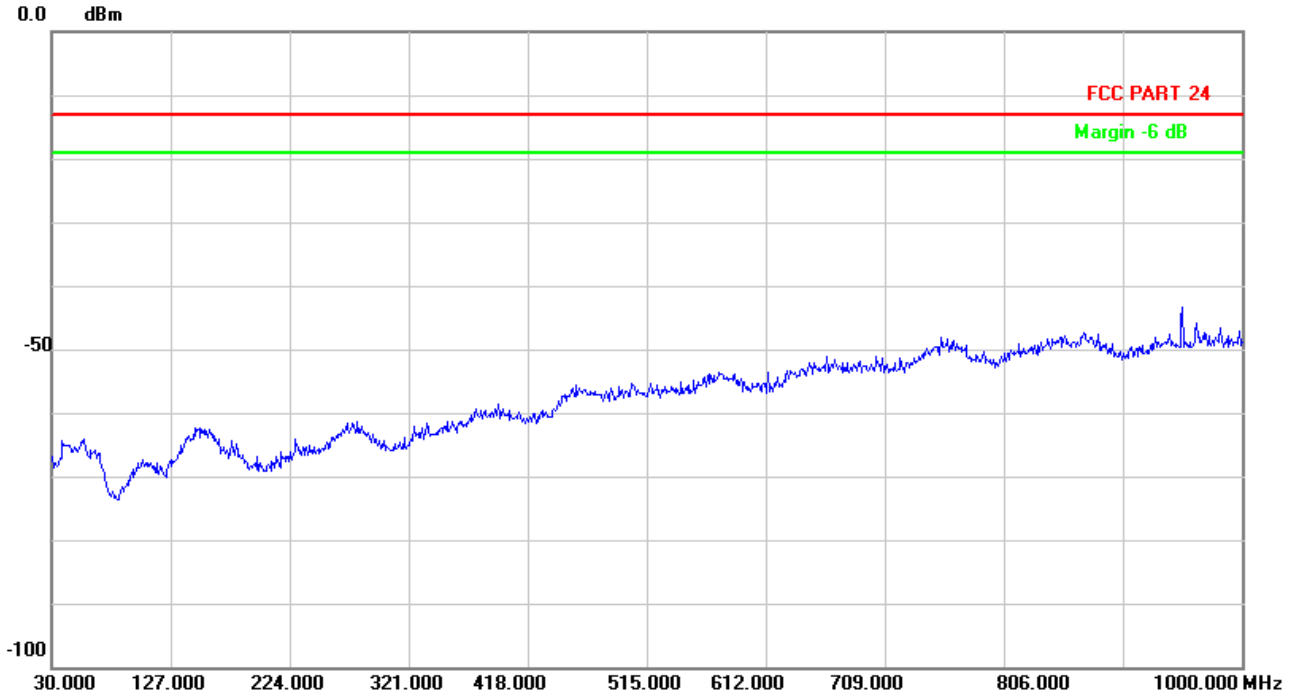
#### 7.1.2.1 Test Mode = GSM/TM1

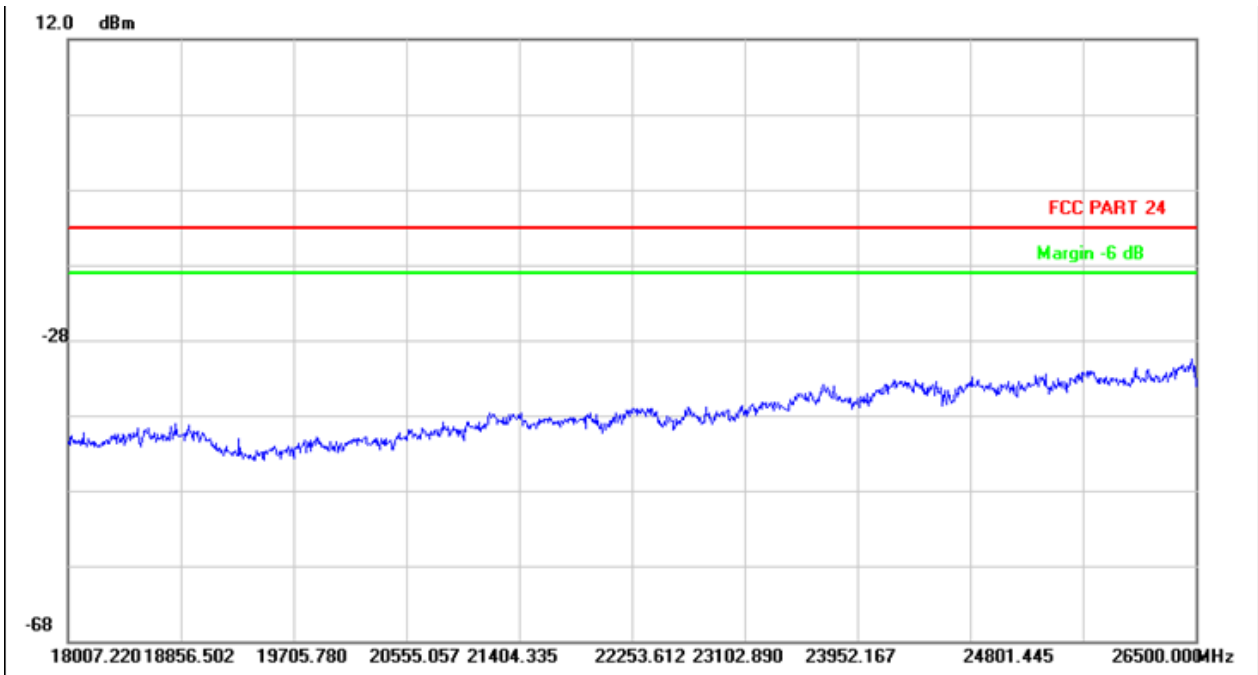






## 7.1.2.2 Test Mode = GSM/TM2

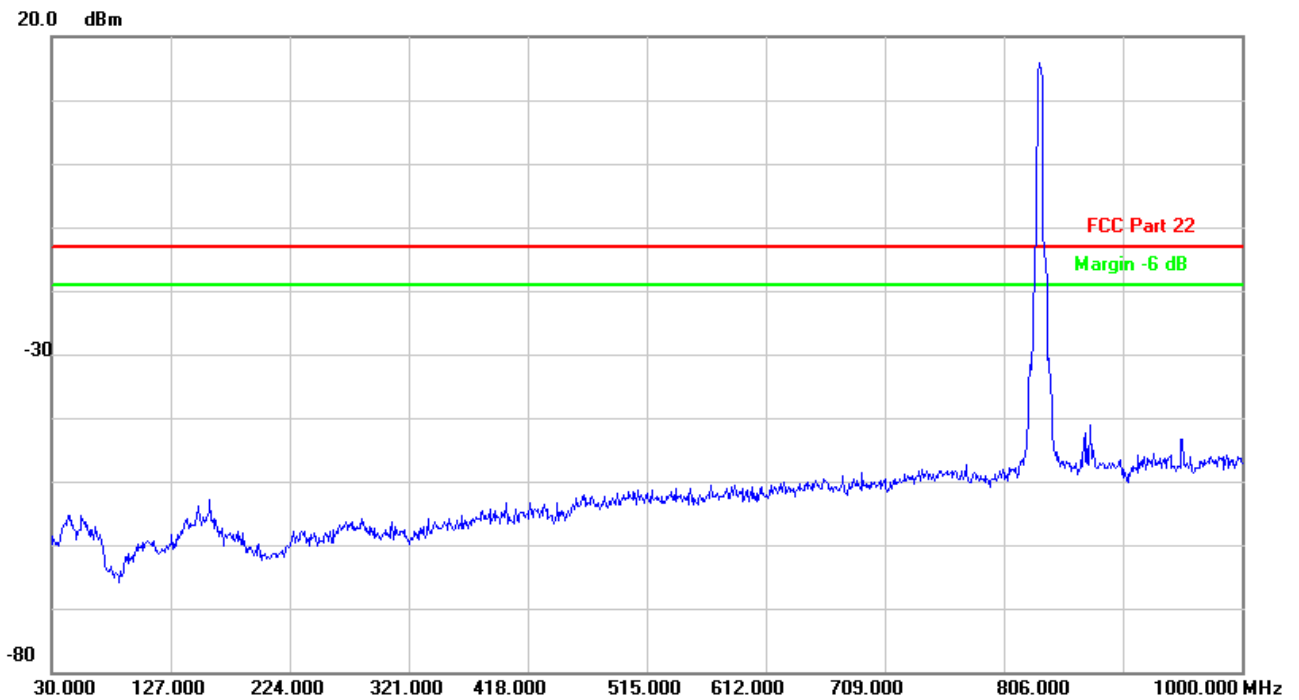


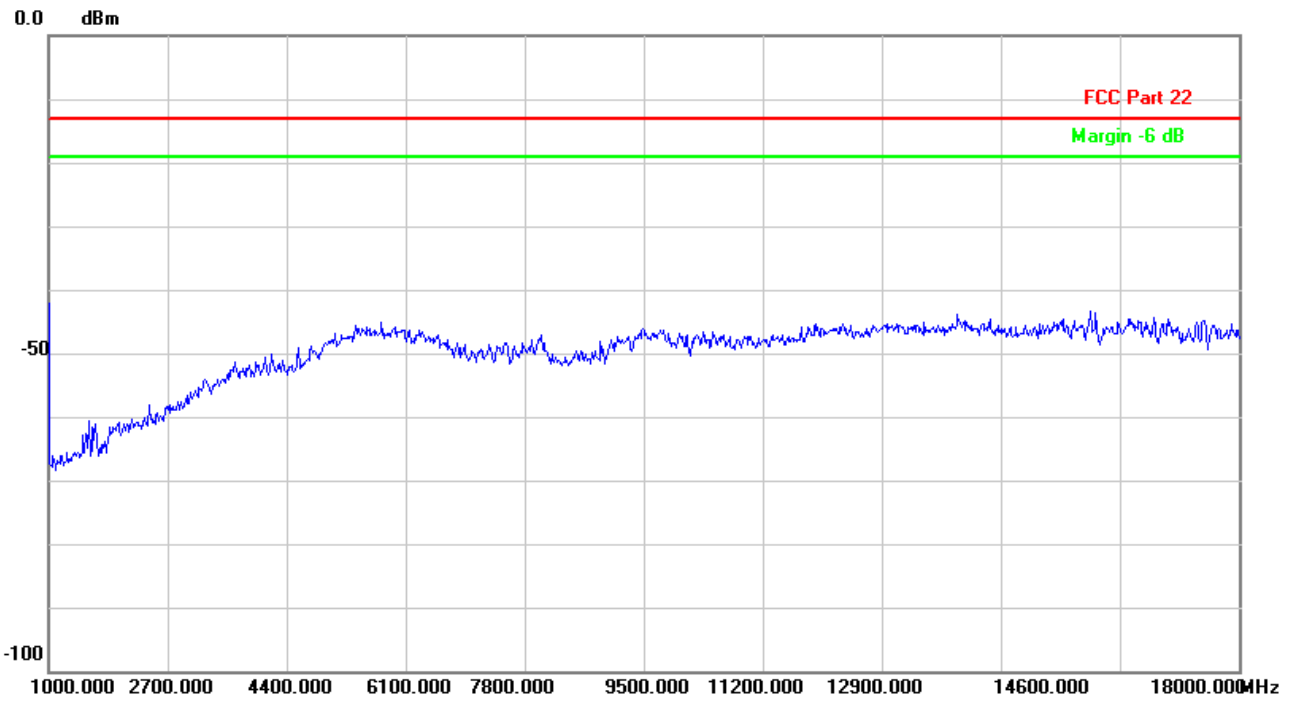


## 7.2 For UMTS

### 7.2.1 Test Band = WCDMA850

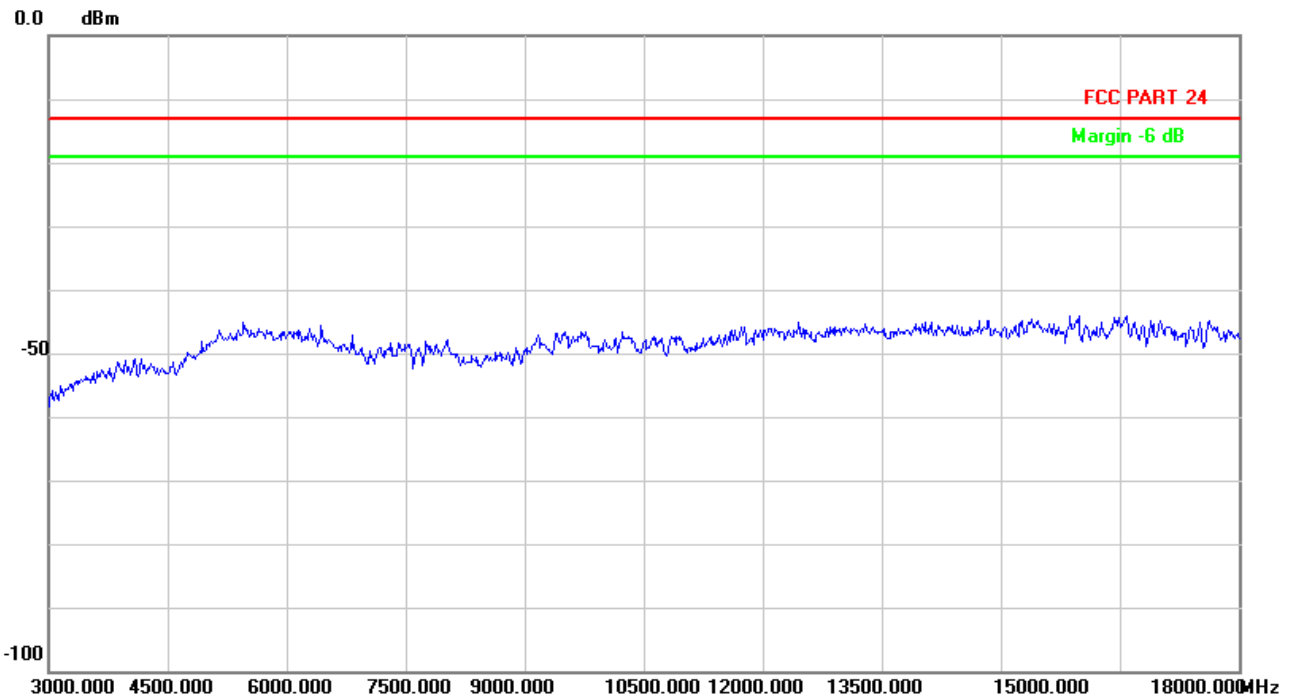
#### 7.2.1.1 Test Mode = UMTS/TM1

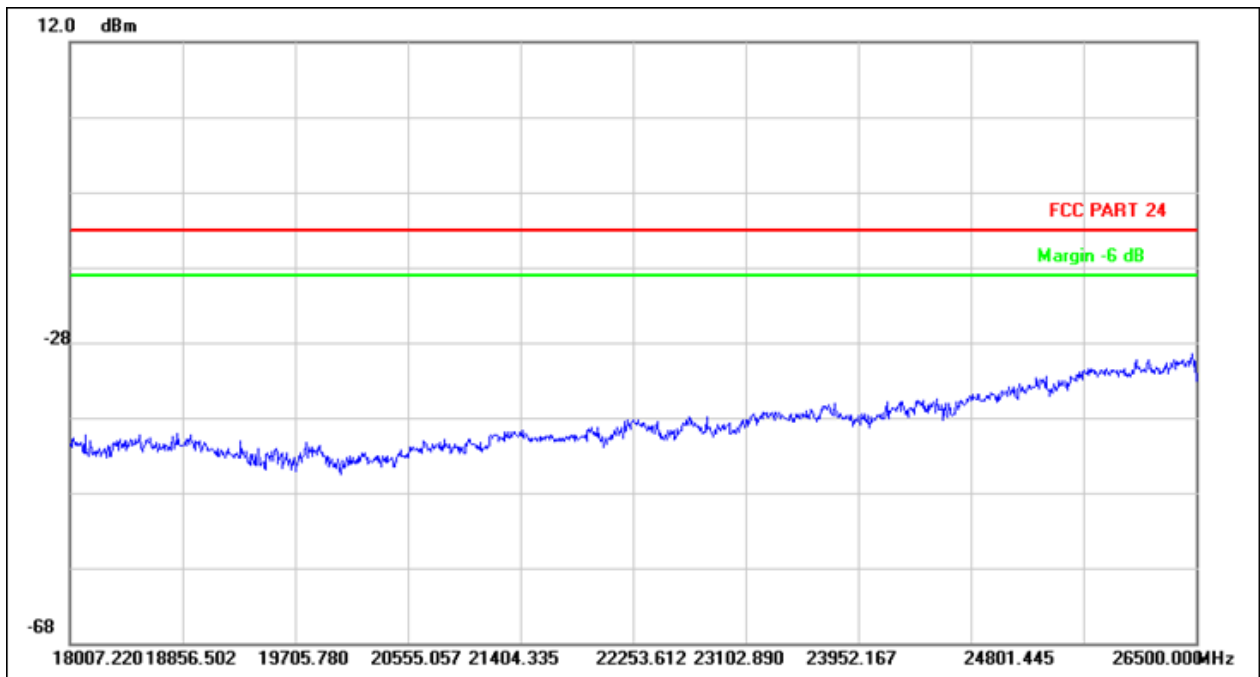
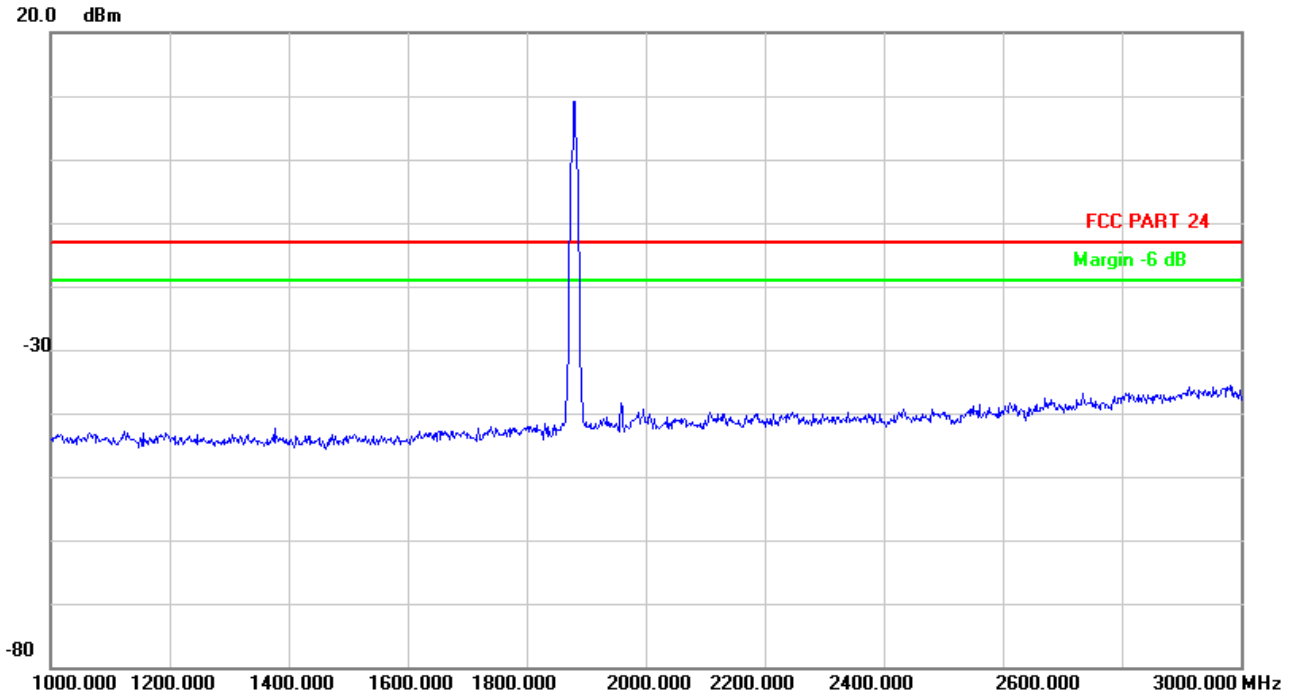




### 7.2.2 Test Band = WCDMA1900

#### 7.2.2.1 Test Mode = UMTS/TM1

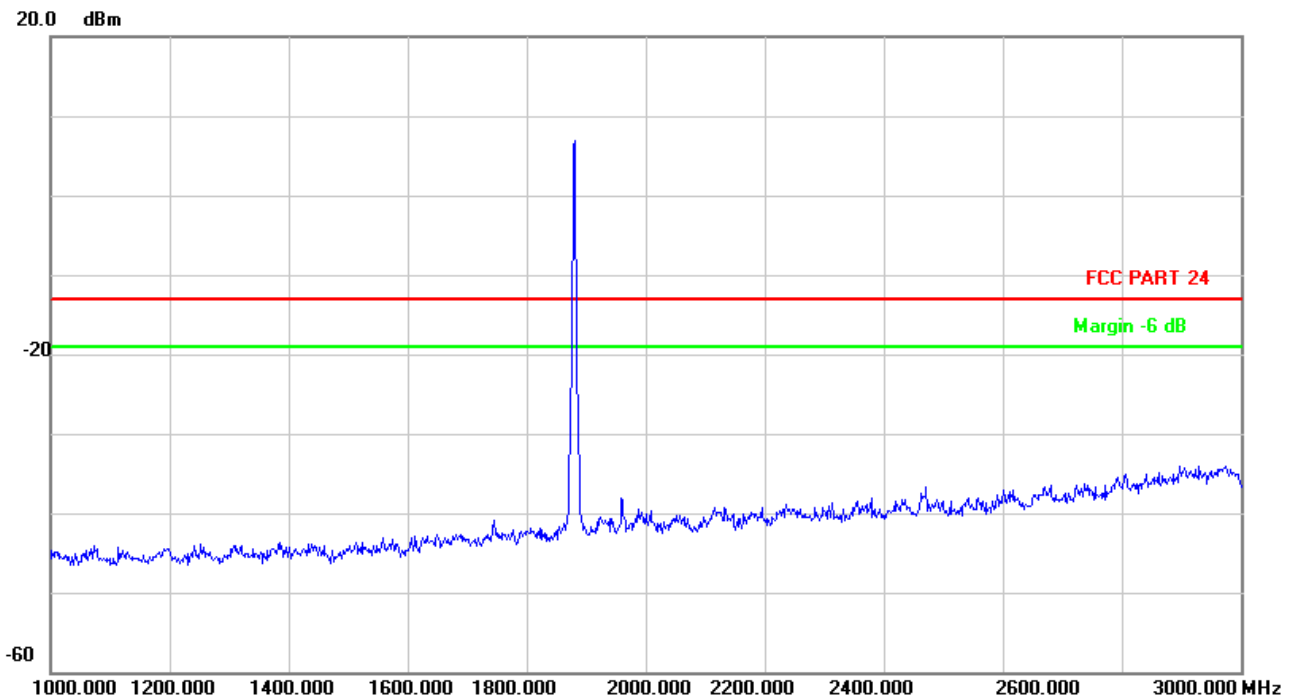
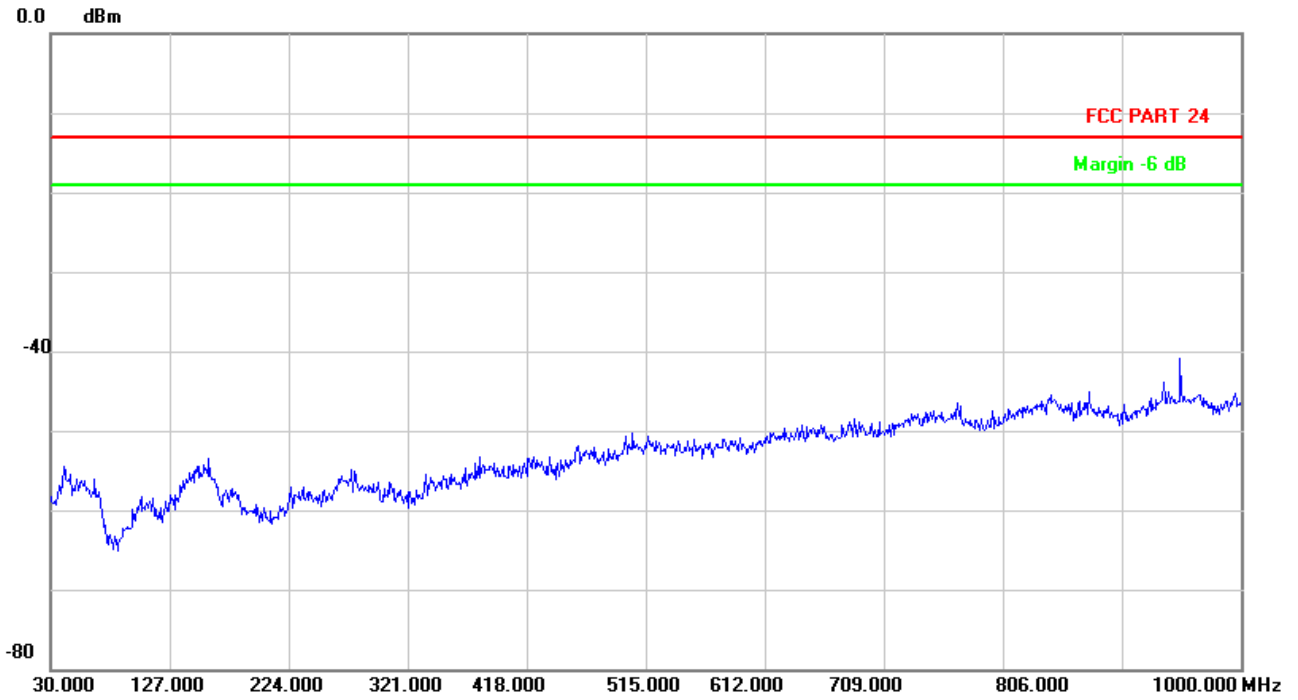


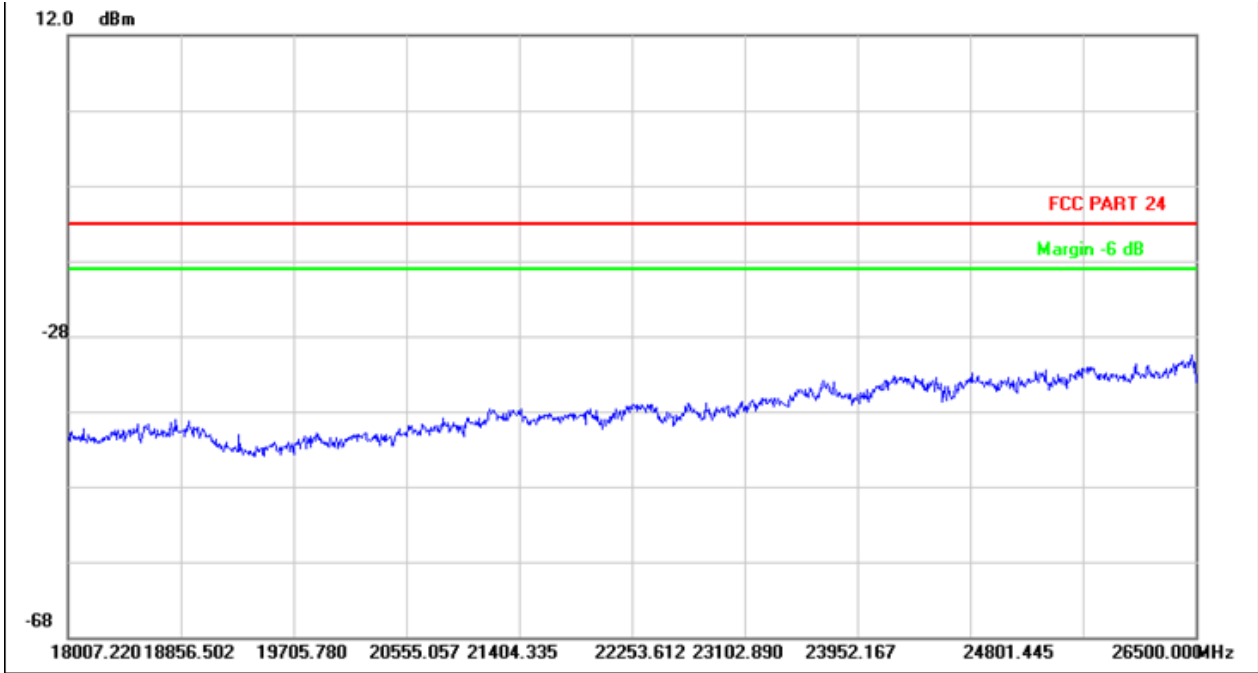


### 7.3 For LTE

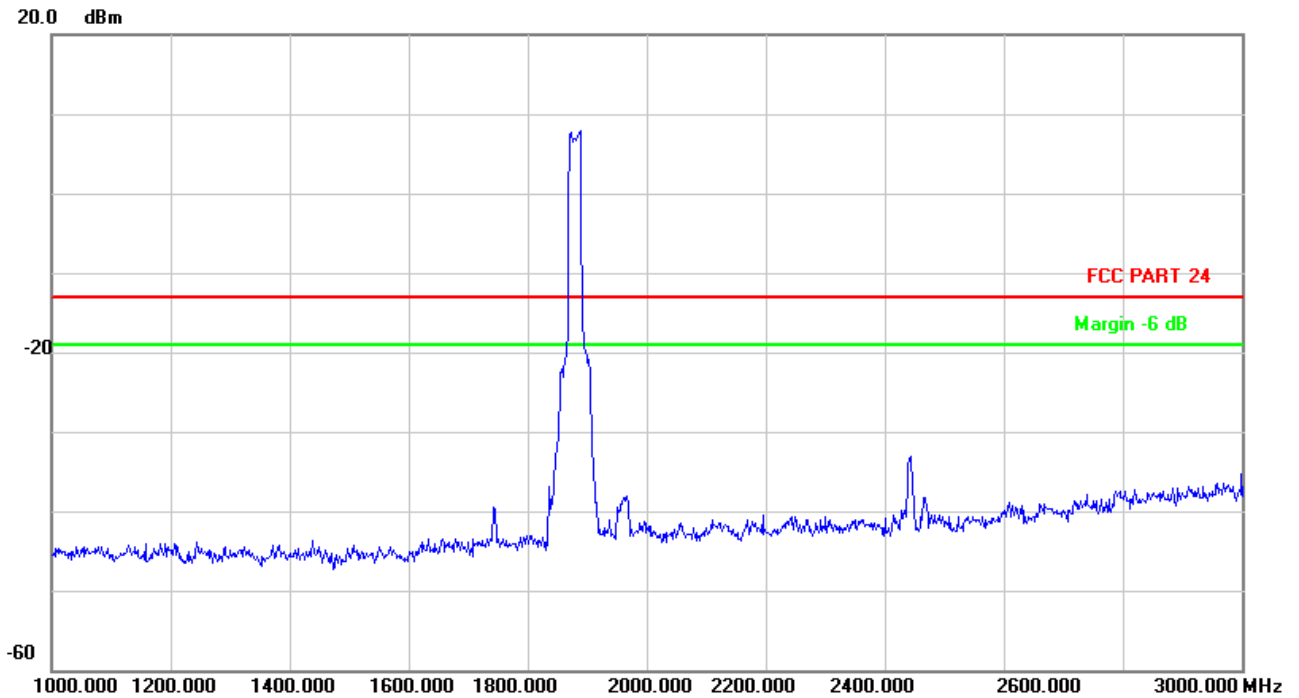
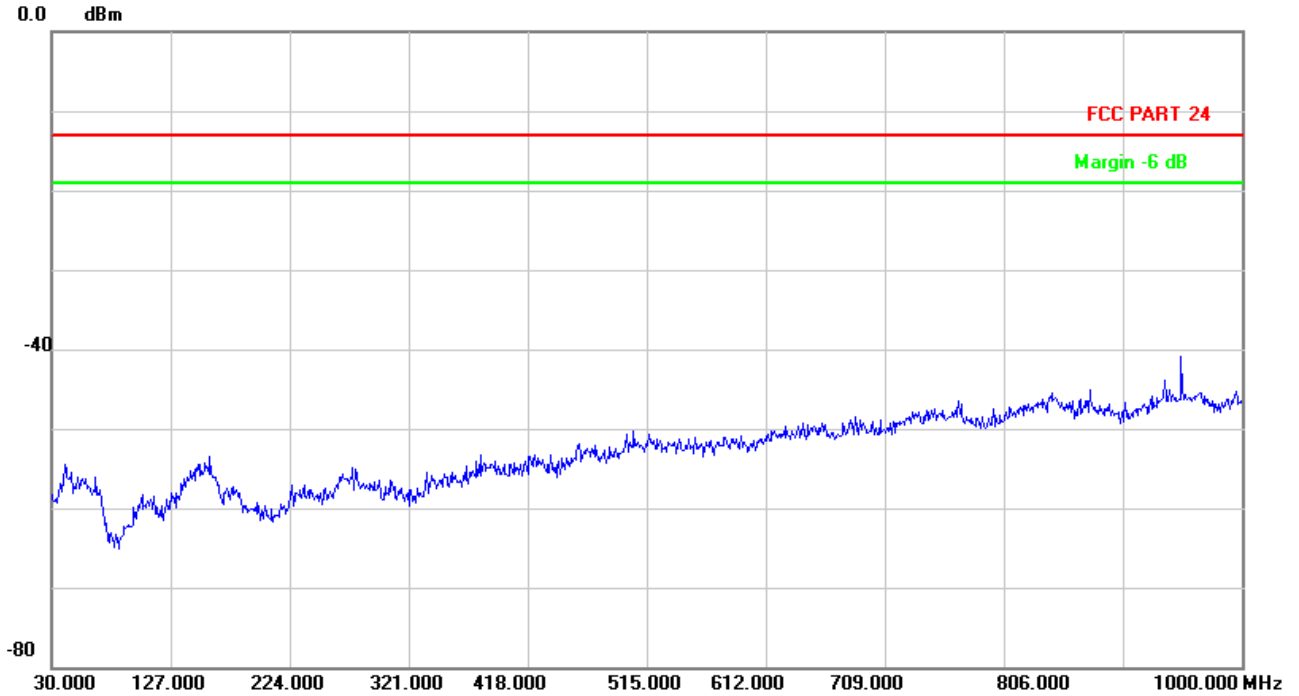
#### 7.3.1 Test Band = BAND2

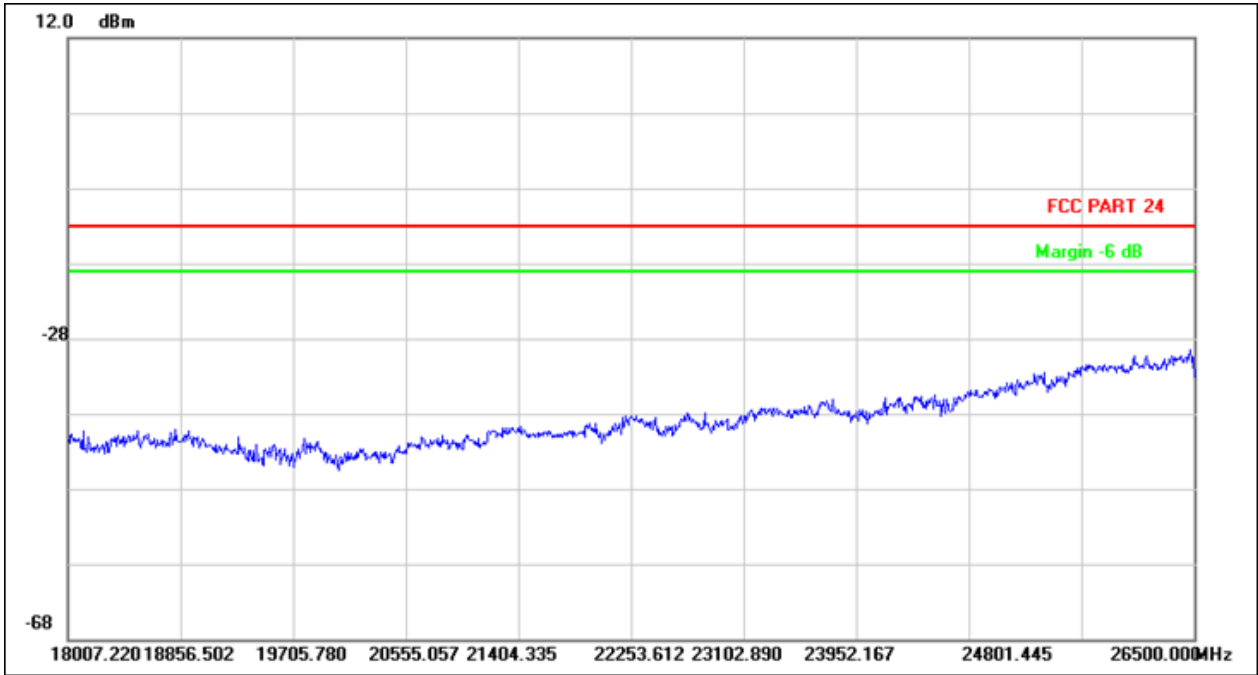
##### 7.3.1.1 Test Bandwidth = 5





### 7.3.1.2 Test Bandwidth = 20

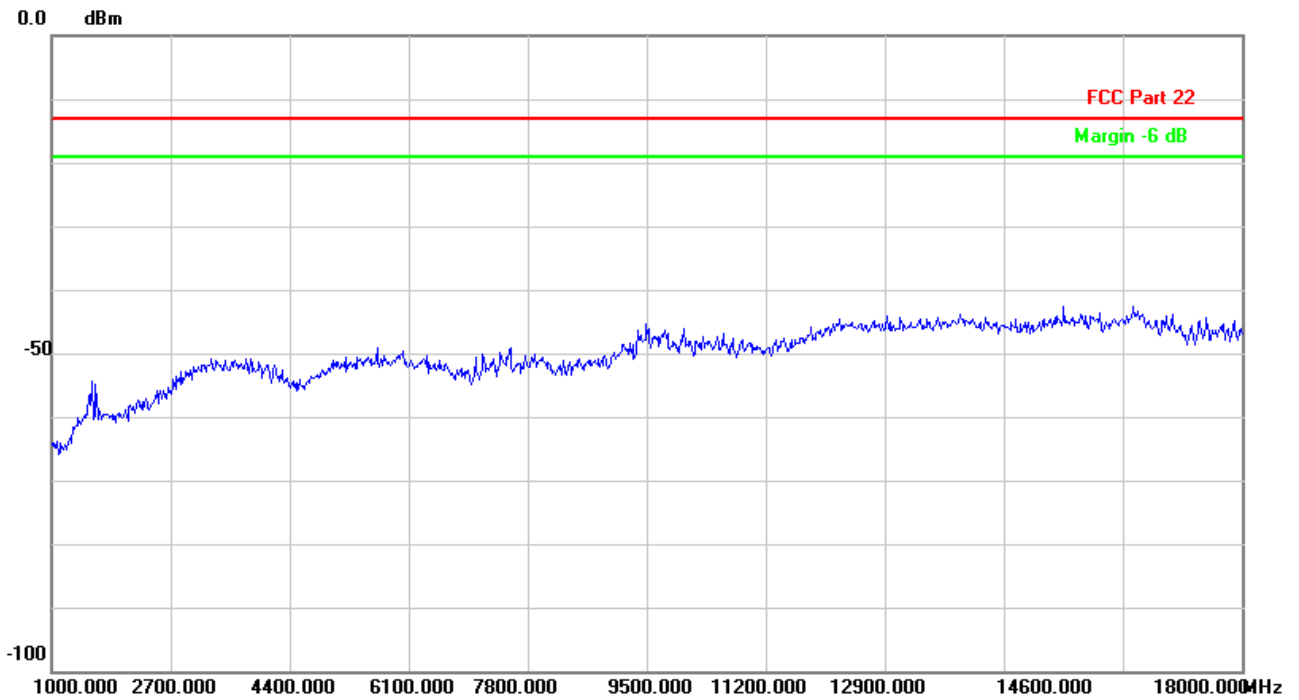
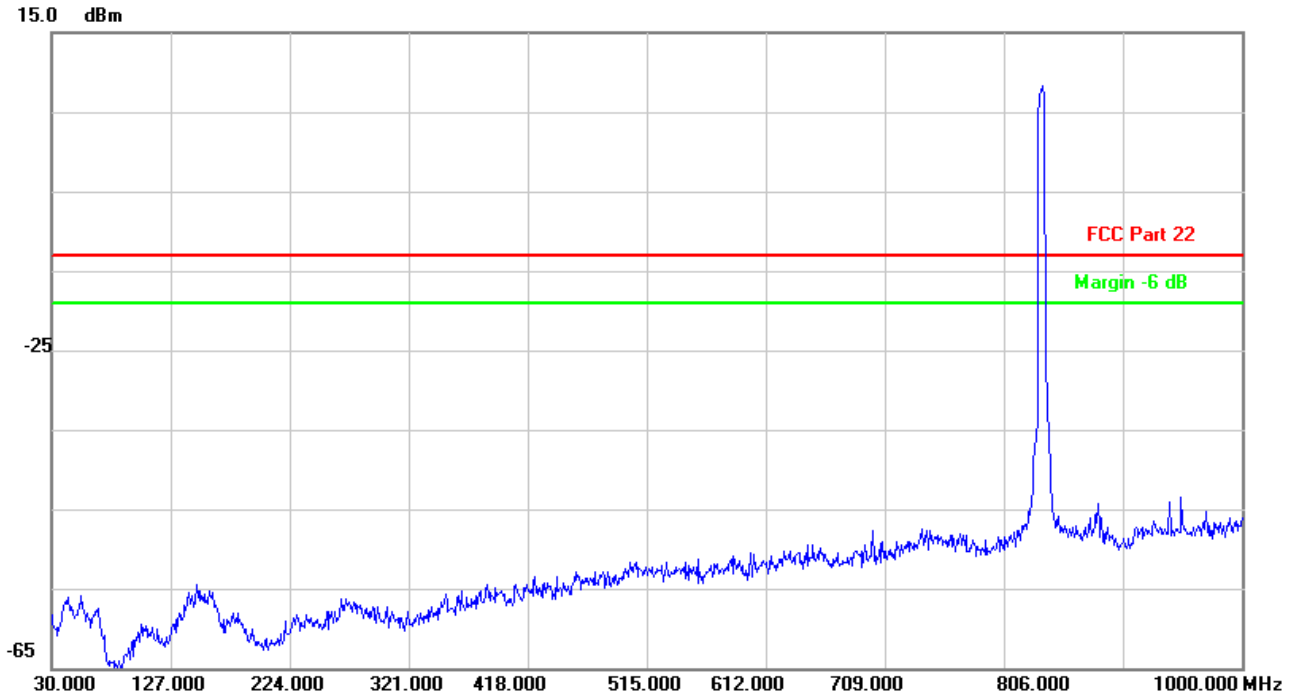




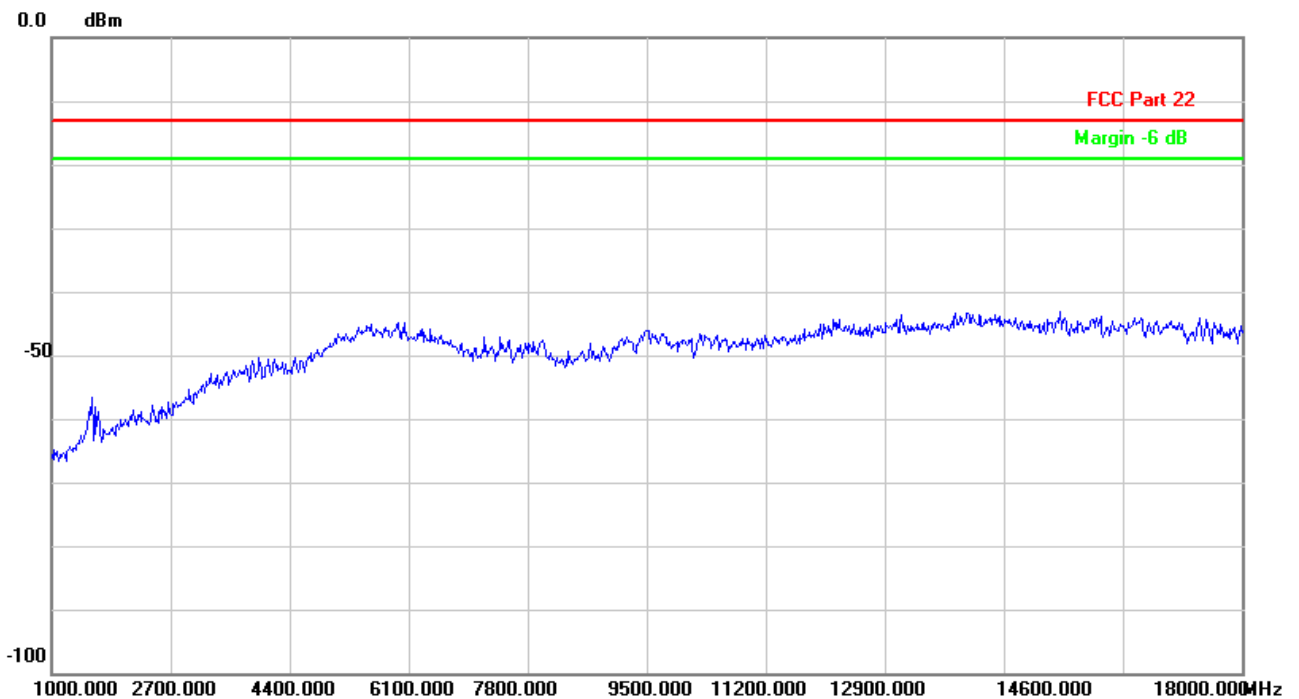
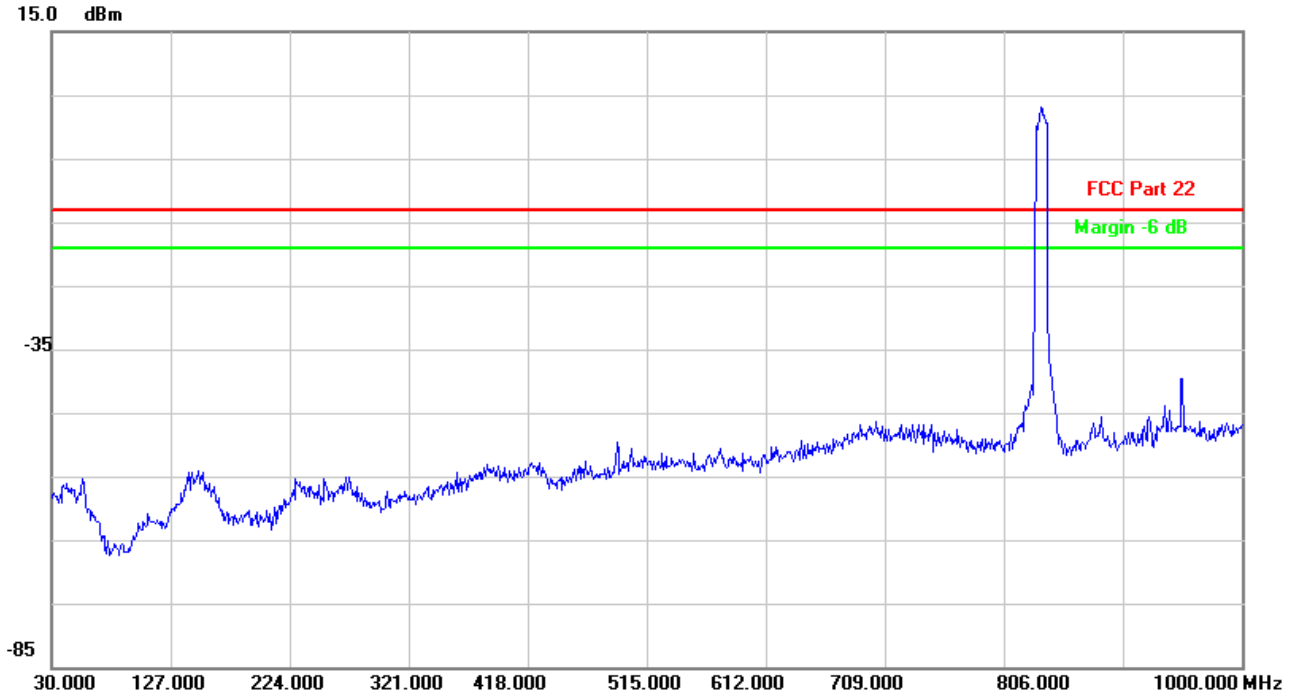


### 7.3.2 Test Band = BAND5

#### 7.3.2.1 Test Bandwidth = 5

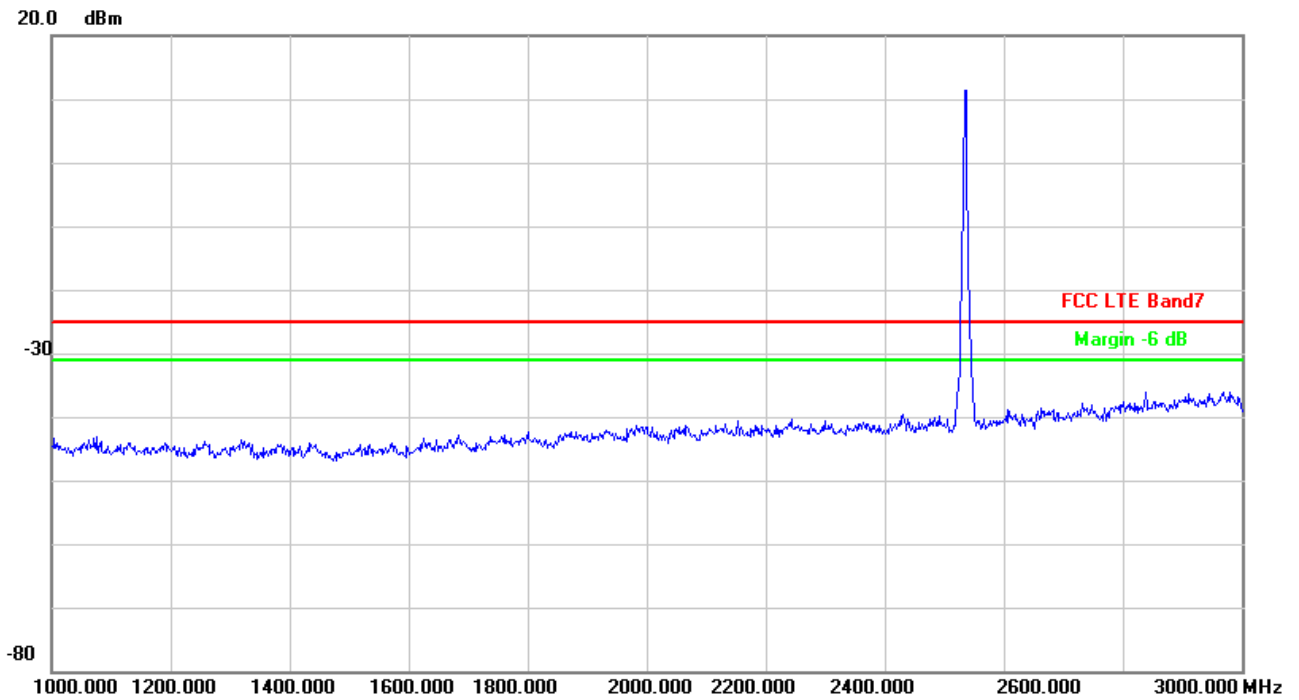
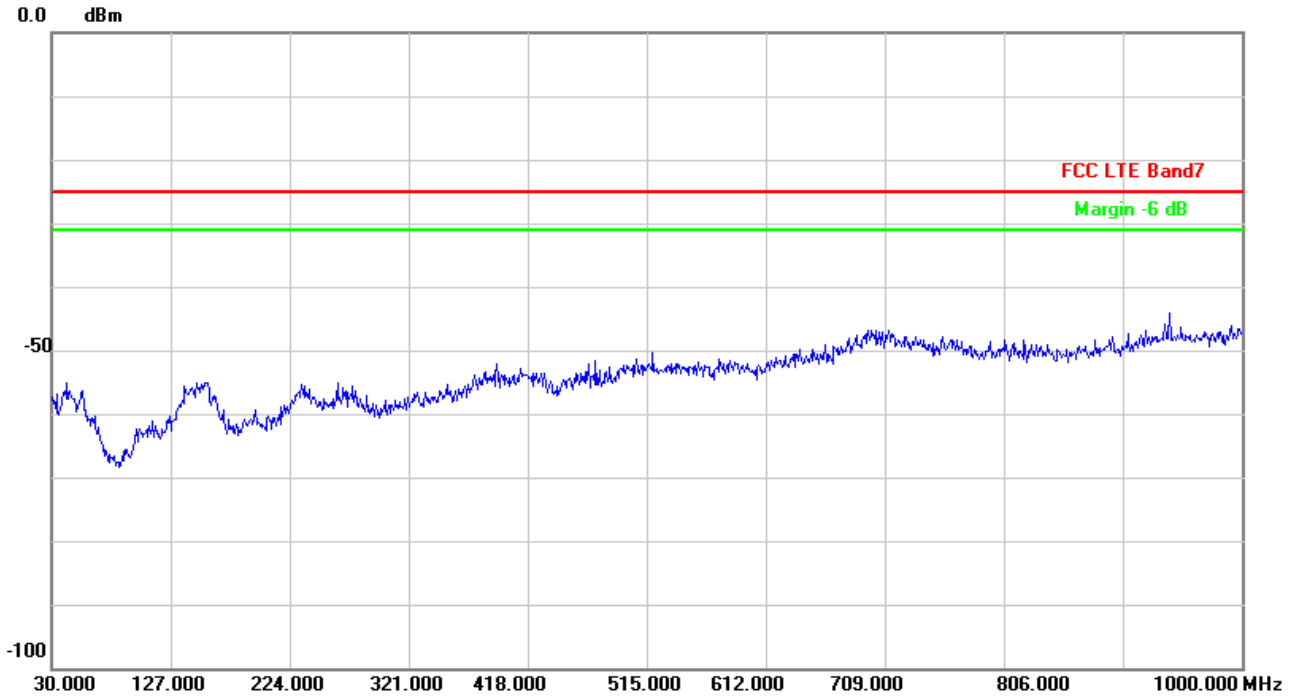


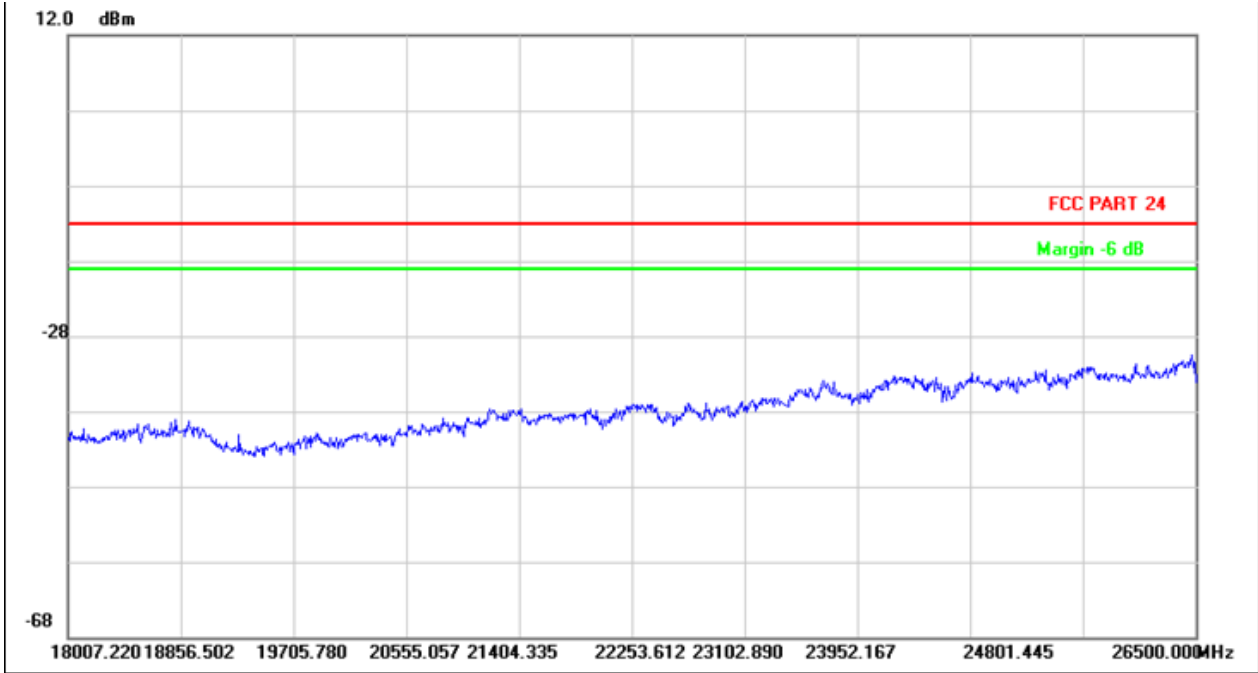
### 7.3.2.2 Test Bandwidth = 10



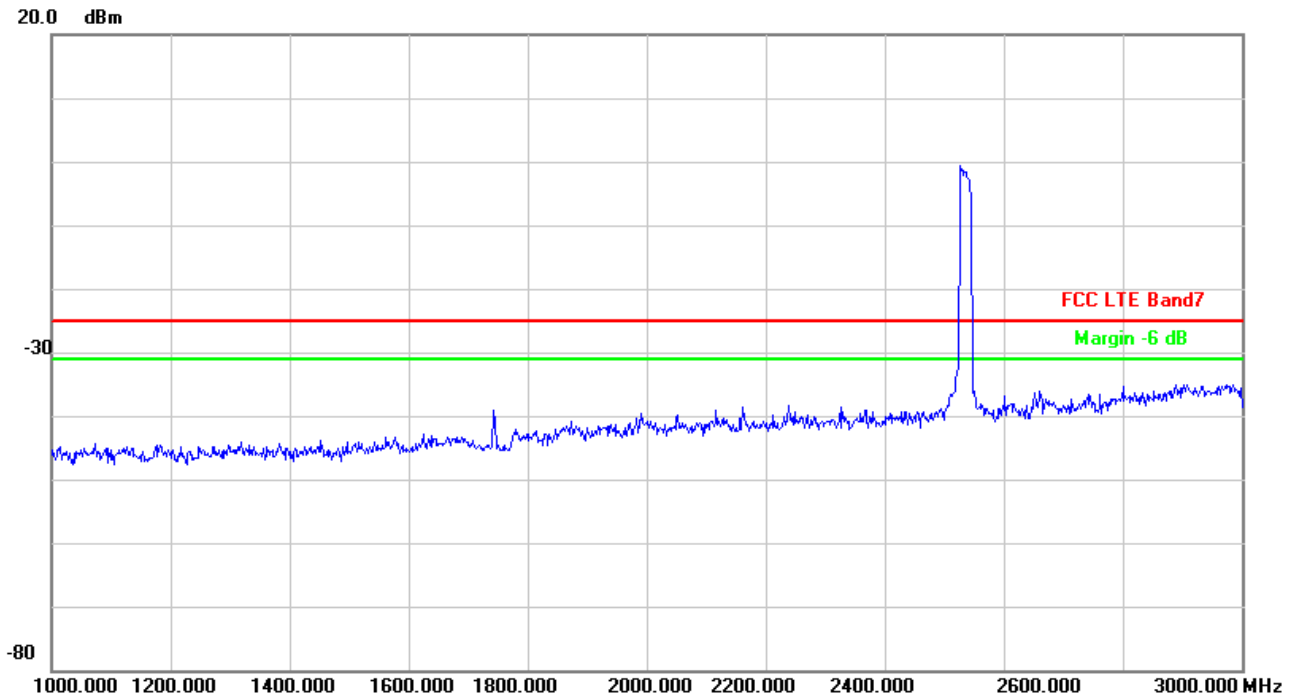
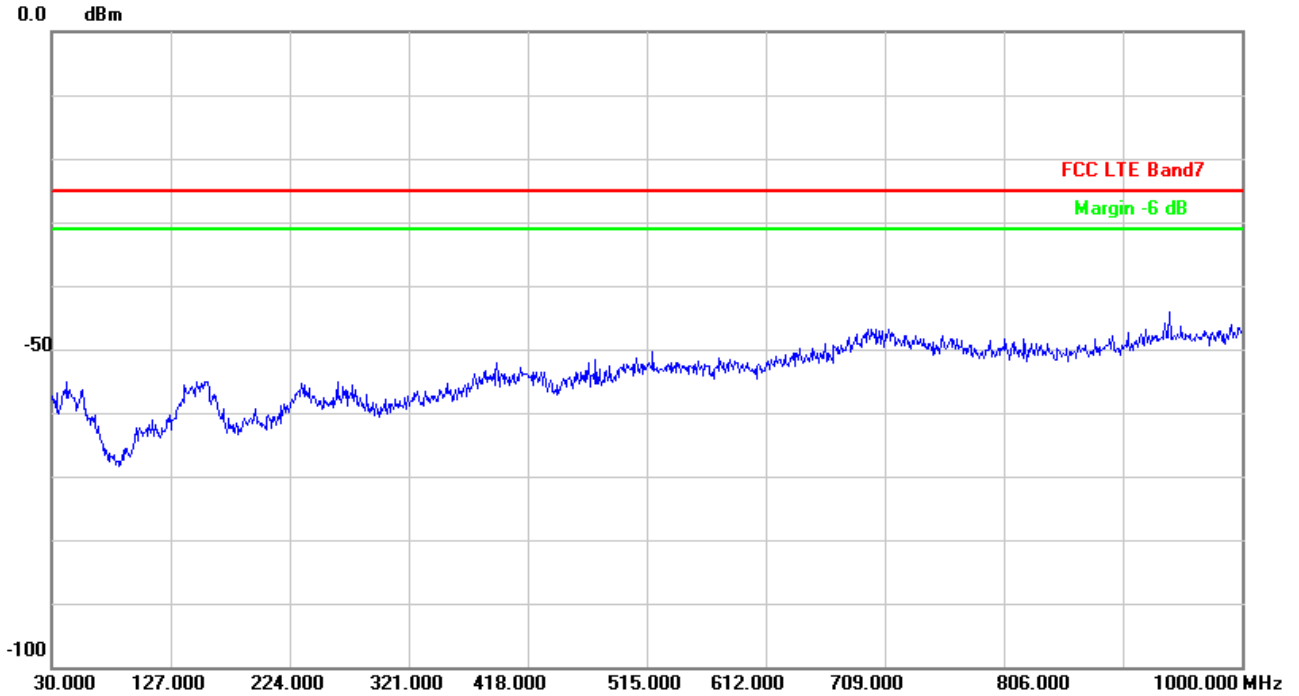
### 7.3.3 Test Band = BAND7

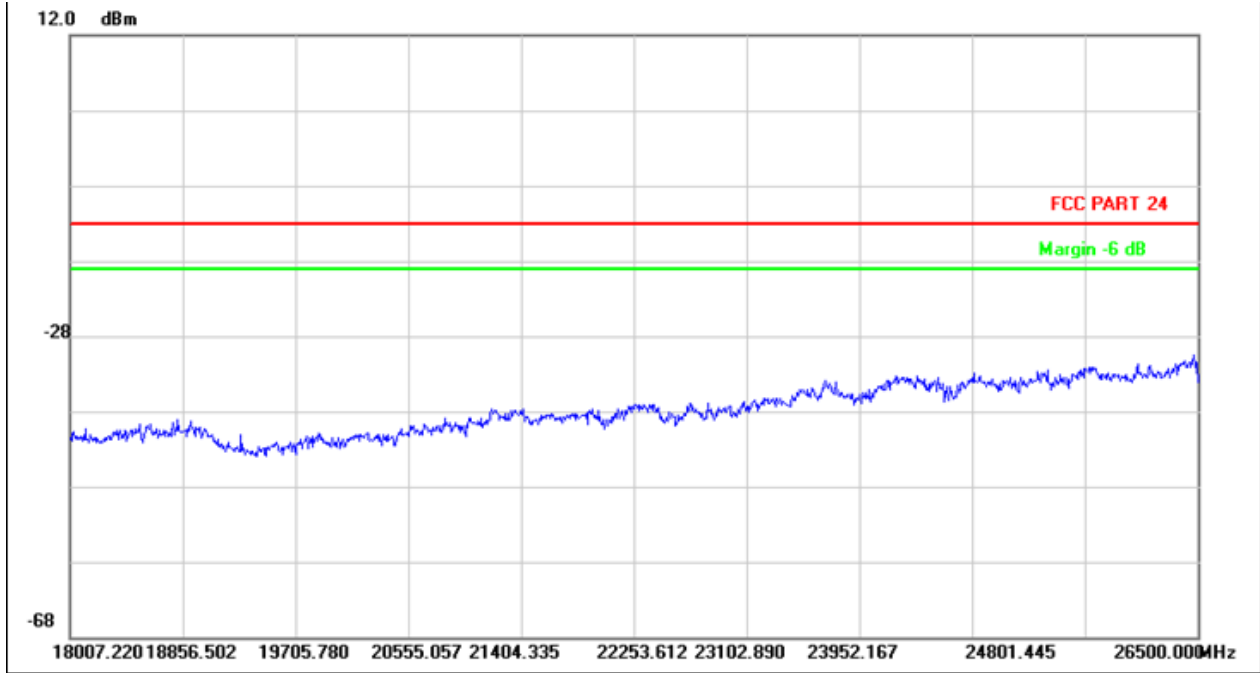
#### 7.3.3.1 Test Bandwidth = 5





## 7.3.3.2 Test Bandwidth = 20





## 8Appendix\_H: Frequency Stability

### 8.1 For GSM&WCDMA

#### 8.1.1Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	TN	VL	-14.92	-0.0181	PASS
				VN	-13.11	-0.01591	PASS
				VH	-14.01	-0.017	PASS
		MCH	TN	VL	-12.98	-0.01552	PASS
				VN	-9.94	-0.01188	PASS
				VH	-11.43	-0.01366	PASS
		HCH	TN	VL	-14.72	-0.01734	PASS
				VN	-12.91	-0.01521	PASS
				VH	-16.98	-0.02	PASS
	GSM/TM2	LCH	TN	VL	-13.72	-0.01665	PASS
				VN	-13.98	-0.01696	PASS
				VH	-13.46	-0.01633	PASS
		MCH	TN	VL	-15.76	-0.01884	PASS
				VN	-14.14	-0.0169	PASS
				VH	-16.34	-0.01953	PASS
		HCH	TN	VL	-18.27	-0.02152	PASS
				VN	-12.56	-0.0148	PASS
				VH	-19.69	-0.0232	PASS
GSM1900	GSM/TM1	LCH	TN	VL	3.29	0.00178	PASS
				VN	6.2	0.00335	PASS
				VH	5.36	0.0029	PASS
		MCH	TN	VL	23.05	0.01226	PASS
				VN	16.92	0.009	PASS
				VH	18.21	0.00969	PASS
		HCH	TN	VL	20.66	0.01082	PASS
				VN	12.01	0.00629	PASS
				VH	18.47	0.00967	PASS
	GSM/TM2	LCH	TN	VL	-11.49	-0.00621	PASS
				VN	-14.72	-0.00796	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				VH	-10.2	-0.00551	PASS
		MCH	TN	VL	-2.78	-0.00148	PASS
				VN	-0.19	-0.0001	PASS
				VH	-5.62	-0.00299	PASS
		HCH	TN	VL	-8.49	-0.00445	PASS
				VN	-6.75	-0.00353	PASS
				VH	-3.71	-0.00194	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
WCDMA850	UMTS/TM1	LCH	TN	VL	2.46	0.00298	PASS
				VN	2.55	0.00309	PASS
				VH	1.22	0.00148	PASS
		MCH	TN	VL	0.97	0.00116	PASS
				VN	-0.93	-0.00111	PASS
				VH	-0.85	-0.00102	PASS
		HCH	TN	VL	0.85	0.001	PASS
				VN	0.40	0.00047	PASS
				VH	0.08	0.00009	PASS
WCDMA1900	UMTS/TM1	LCH	TN	VL	-2.49	-0.00134	PASS
				VN	-3.13	-0.00169	PASS
				VH	-2.40	-0.0013	PASS
		MCH	TN	VL	-7.89	-0.0042	PASS
				VN	-2.88	-0.00153	PASS
				VH	-4.14	-0.0022	PASS
		HCH	TN	VL	-8.36	-0.00438	PASS
				VN	-9.74	-0.00511	PASS
				VH	-12.92	-0.00677	PASS
				VN	-2.61	-0.00149	PASS
				VH	-4.21	-0.0024	PASS



8.1.2 Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
GSM850	GSM/TM1	LCH	VN	-30	-17.69	-0.02146	PASS
				-20	-10.98	-0.01332	PASS
				-10	-15.82	-0.01919	PASS
				0	-14.33	-0.01739	PASS
				10	-14.21	-0.01724	PASS
				20	-10.46	-0.01269	PASS
				30	-13.75	-0.01668	PASS
				40	-14.33	-0.01739	PASS
				50	-17.82	-0.02162	PASS
		MCH	VN	-30	-13.95	-0.01667	PASS
				-20	-7.94	-0.00949	PASS
				-10	-10.98	-0.01312	PASS
				0	-11.36	-0.01358	PASS
				10	-13.69	-0.01636	PASS
				20	-7.49	-0.00895	PASS
				30	-9.3	-0.01112	PASS
				40	-9.56	-0.01143	PASS
				50	-12.27	-0.01467	PASS
		HCH	VN	-30	-12.2	-0.01437	PASS
				-20	-12.85	-0.01514	PASS
				-10	-12.66	-0.01492	PASS
				0	-11.95	-0.01408	PASS
				10	-12.07	-0.01422	PASS
				20	-12.4	-0.01461	PASS
	30			-11.11	-0.01309	PASS	
	40			-11.82	-0.01393	PASS	
	50			-11.82	-0.01393	PASS	
	GSM/TM2	LCH	VN	-30	-15.56	-0.01888	PASS
				-20	-15.95	-0.01935	PASS
				-10	-12.37	-0.01501	PASS
				0	-12.14	-0.01473	PASS
				10	-16.3	-0.01978	PASS
				20	-17.63	-0.02139	PASS
				30	-14.98	-0.01818	PASS
				40	-15.76	-0.01912	PASS
				50	-15.11	-0.01833	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	VN	-30	-16.79	-0.02007	PASS
				-20	-15.53	-0.01856	PASS
				-10	-15.5	-0.01853	PASS
				0	-15.34	-0.01834	PASS
				10	-15.08	-0.01803	PASS
				20	-14.88	-0.01779	PASS
				30	-13.79	-0.01648	PASS
				40	-11.17	-0.01335	PASS
				50	-18.6	-0.02223	PASS
		HCH	VN	-30	-13.01	-0.01533	PASS
				-20	-16.08	-0.01894	PASS
				-10	-16.18	-0.01906	PASS
				0	-14.27	-0.01681	PASS
				10	-12.37	-0.01457	PASS
				20	-15.53	-0.0183	PASS
				30	-14.24	-0.01678	PASS
				40	-13.88	-0.01635	PASS
				50	-16.34	-0.01925	PASS
WCDMA850	UMTS/TM1	LCH	VN	-30	-9.26	-0.01121	PASS
				-20	1.19	0.00144	PASS
				-10	-0.69	-0.00083	PASS
				0	0.5	0.00061	PASS
				10	0.89	0.00108	PASS
				20	0.85	0.00103	PASS
				30	-2.17	-0.00263	PASS
				40	-3.05	-0.00369	PASS
				50	-6.74	-0.00816	PASS
		MCH	VN	-30	6.47	0.00774	PASS
				-20	-6.16	-0.00736	PASS
				-10	-6.06	-0.00725	PASS
				0	3.3	0.00395	PASS
				10	-0.09	-0.00011	PASS
				20	4.91	0.00587	PASS
				30	1.56	0.00187	PASS
				40	-2.33	-0.00279	PASS
				50	-2.84	-0.0034	PASS
		HCH	VN	-30	6.65	0.00785	PASS
				-20	7.4	0.00874	PASS
				-10	4.04	0.00477	PASS
				0	0.29	0.00034	PASS



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				10	-1.63	-0.00193	PASS
				20	-4.14	-0.00489	PASS
				30	-1.17	-0.00138	PASS
				40	-0.61	-0.00072	PASS
				50	-2.5	-0.00295	PASS
GSM1900	GSM/TM1	LCH	VN	-30	13.82	0.00747	PASS
				-20	8.01	0.00433	PASS
				-10	8.85	0.00478	PASS
				0	7.75	0.00419	PASS
				10	10.98	0.00593	PASS
				20	10.2	0.00551	PASS
				30	5.81	0.00314	PASS
				40	9.04	0.00489	PASS
				50	9.04	0.00489	PASS
		MCH	VN	-30	18.66	0.00993	PASS
				-20	18.14	0.00965	PASS
				-10	18.73	0.00996	PASS
				0	18.21	0.00969	PASS
				10	22.28	0.01185	PASS
				20	22.47	0.01195	PASS
				30	19.18	0.0102	PASS
				40	23.44	0.01247	PASS
				50	20.66	0.01099	PASS
	HCH	VN	-30	14.85	0.00778	PASS	
			-20	19.63	0.01028	PASS	
			-10	20.21	0.01058	PASS	
			0	20.73	0.01085	PASS	
			10	18.21	0.00954	PASS	
			20	13.69	0.00717	PASS	
			30	13.3	0.00696	PASS	
			40	18.53	0.0097	PASS	
			50	18.98	0.00994	PASS	
	GSM/TM2	LCH	VN	-30	-20.7	-0.01119	PASS
				-20	-10.94	-0.00591	PASS
				-10	-14.14	-0.00764	PASS
				0	-13.24	-0.00716	PASS
				10	-13.5	-0.0073	PASS
20				-13.59	-0.00735	PASS	
30				-13.27	-0.00717	PASS	
40				-14.17	-0.00766	PASS	



Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		MCH	VN	50	-15.82	-0.00855	PASS
				-30	-6.42	-0.00341	PASS
				-20	0.1	0.00005	PASS
				-10	-5.78	-0.00307	PASS
				0	-6.81	-0.00362	PASS
				10	-5.17	-0.00275	PASS
				20	-3.68	-0.00196	PASS
				30	-3.81	-0.00203	PASS
				40	-10.72	-0.0057	PASS
				50	-2.52	-0.00134	PASS
		HCH	VN	-30	-4.26	-0.00223	PASS
				-20	-2.65	-0.00139	PASS
				-10	-4.91	-0.00257	PASS
				0	-2.81	-0.00147	PASS
				10	-13.08	-0.00685	PASS
				20	-5.29	-0.00277	PASS
				30	-5.42	-0.00284	PASS
				40	-3.29	-0.00172	PASS
				50	-2.62	-0.00137	PASS
				WCDMA1900	UMTS/TM1	LCH	VN
-20	-3.51	-0.00189	PASS				
-10	1.62	0.00087	PASS				
0	1.69	0.00091	PASS				
10	4.67	0.00252	PASS				
20	-4.56	-0.00246	PASS				
30	3.72	0.00201	PASS				
40	-3.66	-0.00198	PASS				
50	-0.98	-0.00053	PASS				
MCH	VN	-30	3.02			0.00161	PASS
		-20	4.52			0.0024	PASS
		-10	-3.45			-0.00184	PASS
		0	-1.07			-0.00057	PASS
		10	-0.03			-0.00002	PASS
		20	7.4			0.00394	PASS
		30	-4.82			-0.00256	PASS
		40	-3.91			-0.00208	PASS
		50	6.62			0.00352	PASS
HCH	VN	-30	5.72			0.003	PASS
		-20	-0.66			-0.00035	PASS
		-10	-5.25			-0.00275	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				0	-5.63	-0.00295	PASS
				10	-1.07	-0.00056	PASS
				20	-4.52	-0.00237	PASS
				30	-2.26	-0.00118	PASS
				40	-4.35	-0.00228	PASS
				50	-1.72	-0.0009	PASS

8.2 For LTE

8.2.1 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
BAND2	LTE/TM1	5	LCH	TN	VL	-0.77	-0.00042	PASS
					VN	-0.01	-0.00001	PASS
					VH	5.91	0.00319	PASS
			MCH	TN	VL	-3.6	-0.00191	PASS
					VN	6.24	0.00332	PASS
					VH	-1.06	-0.00056	PASS
			HCH	TN	VL	0.23	0.00012	PASS
					VN	-0.64	-0.00034	PASS
					VH	-0.76	-0.0004	PASS
		10	LCH	TN	VL	5.16	0.00278	PASS
					VN	0.77	0.00042	PASS
					VH	1.36	0.00073	PASS
			MCH	TN	VL	0.44	0.00023	PASS
					VN	0.76	0.0004	PASS
					VH	-0.29	-0.00015	PASS
			HCH	TN	VL	1.27	0.00067	PASS
					VN	-0.76	-0.0004	PASS
					VH	9.26	0.00486	PASS
		15	LCH	TN	VL	-2.8	-0.00151	PASS
					VN	-1.17	-0.00063	PASS
					VH	-1.66	-0.00089	PASS
			MCH	TN	VL	1.02	0.00054	PASS
					VN	-1.36	-0.00072	PASS
					VH	-1.13	-0.0006	PASS
			HCH	TN	VL	-2.12	-0.00111	PASS
					VN	-1.5	-0.00079	PASS
					VH	-4.82	-0.00253	PASS
		20	LCH	TN	VL	3.46	0.00186	PASS
					VN	0.26	0.00014	PASS
					VH	-0.57	-0.00031	PASS
			MCH	TN	VL	-4.21	-0.00224	PASS
					VN	-3.19	-0.0017	PASS
					VH	0.51	0.00027	PASS
			HCH	TN	VL	-0.39	-0.00021	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2				VN	-2.03	-0.00107	PASS
					VH	-0.24	-0.00013	PASS
		5	LCH	TN	VL	-2.13	-0.00115	PASS
					VN	2.03	0.0011	PASS
					VH	-2.89	-0.00156	PASS
			MCH	TN	VL	-1.37	-0.00073	PASS
					VN	0.93	0.00049	PASS
					VH	-2.39	-0.00127	PASS
			HCH	TN	VL	-2.37	-0.00124	PASS
					VN	-3.38	-0.00177	PASS
					VH	-2.06	-0.00108	PASS
		10	LCH	TN	VL	-0.31	-0.00017	PASS
					VN	-6.28	-0.00339	PASS
					VH	4.71	0.00254	PASS
			MCH	TN	VL	1.14	0.00061	PASS
					VN	-7.37	-0.00392	PASS
					VH	-4.43	-0.00236	PASS
			HCH	TN	VL	-3.46	-0.00182	PASS
					VN	-2.5	-0.00131	PASS
					VH	1.17	0.00061	PASS
		15	LCH	TN	VL	-3.13	-0.00169	PASS
					VN	5.08	0.00273	PASS
					VH	-2.8	-0.00151	PASS
			MCH	TN	VL	24.33	0.01294	PASS
					VN	40.23	0.0214	PASS
					VH	159.06	0.08461	PASS
			HCH	TN	VL	2.4	0.00126	PASS
					VN	-4.15	-0.00218	PASS
					VH	1.85	0.00097	PASS
		20	LCH	TN	VL	0.34	0.00018	PASS
					VN	-0.27	-0.00015	PASS
					VH	-4.23	-0.00227	PASS
			MCH	TN	VL	-4.69	-0.00249	PASS
					VN	-95.92	-0.05102	PASS
					VH	-7.38	-0.00393	PASS
			HCH	TN	VL	0.73	0.00038	PASS
					VN	-4.39	-0.00231	PASS
					VH	-2.46	-0.00129	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND5	LTE/TM1	5	LCH	TN	VL	-0.4	-0.00048	PASS
					VN	0.54	0.00065	PASS
					VH	-3	-0.00363	PASS
			MCH	TN	VL	0.46	0.00055	PASS
					VN	6.47	0.00773	PASS
					VH	1.36	0.00163	PASS
		HCH	TN	VL	2.42	0.00286	PASS	
				VN	1.06	0.00125	PASS	
				VH	-2.32	-0.00274	PASS	
		10	LCH	TN	VL	-8.17	-0.00986	PASS
					VN	-4.22	-0.00509	PASS
					VH	3.59	0.00433	PASS
			MCH	TN	VL	8.33	0.00996	PASS
					VN	3.23	0.00386	PASS
					VH	0.83	0.00099	PASS
	HCH	TN	VL	-21.49	-0.02546	PASS		
			VN	-5.06	-0.006	PASS		
			VH	-14.38	-0.01704	PASS		
	LTE/TM2	5	LCH	TN	VL	0.97	0.00117	PASS
					VN	0.54	0.00065	PASS
					VH	1.77	0.00214	PASS
			MCH	TN	VL	2.47	0.00295	PASS
					VN	9.67	0.01156	PASS
					VH	5.66	0.00677	PASS
		HCH	TN	VL	7.38	0.00872	PASS	
				VN	7.32	0.00865	PASS	
				VH	8.96	0.01058	PASS	
10		LCH	TN	VL	13.96	0.01684	PASS	
				VN	-2.07	-0.0025	PASS	
				VH	-10.69	-0.0129	PASS	
	MCH	TN	VL	1.56	0.00186	PASS		
			VN	-8.38	-0.01002	PASS		
			VH	-4.69	-0.00561	PASS		
HCH	TN	VL	-15.46	-0.01832	PASS			
		VN	-18.11	-0.02146	PASS			
		VH	-23.12	-0.02739	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
BAND7	LTE/TM1	5	LCH	TN	VL	0.24	0.0001	PASS	
					VN	-2.19	-0.00088	PASS	
					VH	8.47	0.00338	PASS	
			MCH	TN	VL	-14.43	-0.00569	PASS	
					VN	1.03	0.00041	PASS	
					VH	-6.62	-0.00261	PASS	
			HCH	TN	VL	-0.73	-0.00028	PASS	
					VN	-1.36	-0.00053	PASS	
					VH	0.97	0.00038	PASS	
		10	LCH	TN	VL	-9.31	-0.00372	PASS	
					VN	1.24	0.0005	PASS	
					VH	-3.42	-0.00137	PASS	
			MCH	TN	VL	-2.9	-0.00114	PASS	
					VN	4.46	0.00176	PASS	
					VH	-2.39	-0.00094	PASS	
			HCH	TN	VL	-0.69	-0.00027	PASS	
					VN	8.23	0.00321	PASS	
					VH	-1.14	-0.00044	PASS	
		15	LCH	TN	VL	-1.57	-0.00063	PASS	
					VN	-2.37	-0.00095	PASS	
					VH	1.24	0.00049	PASS	
			MCH	TN	VL	6.88	0.00271	PASS	
					VN	0.27	0.00011	PASS	
					VH	3.13	0.00123	PASS	
			HCH	TN	VL	7.5	0.00293	PASS	
					VN	6.44	0.00251	PASS	
					VH	-0.13	-0.00005	PASS	
		20	LCH	TN	VL	1.69	0.00067	PASS	
					VN	3.26	0.0013	PASS	
					VH	3.92	0.00156	PASS	
			MCH	TN	VL	-0.34	-0.00013	PASS	
					VN	0.07	0.00003	PASS	
					VH	-4.51	-0.00178	PASS	
			HCH	TN	VL	3.06	0.0012	PASS	
					VN	-7.5	-0.00293	PASS	
					VH	-7.84	-0.00306	PASS	
		LTE/TM2	5	LCH	TN	VL	2.19	0.00088	PASS
						VN	-13.1	-0.00523	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			MCH	TN	VH	5.31	0.00212	PASS
					VL	-8.5	-0.00335	PASS
					VN	-9.88	-0.0039	PASS
			HCH	TN	VH	-0.33	-0.00013	PASS
					VL	0.06	0.00002	PASS
					VN	-7.55	-0.00294	PASS
				TN	VH	-1.76	-0.00069	PASS
					VL	-5.01	-0.002	PASS
					VN	-0.14	-0.00006	PASS
		10	MCH	TN	VH	3.12	0.00125	PASS
					VL	0.56	0.00022	PASS
					VN	-6.24	-0.00246	PASS
			HCH	TN	VH	5.29	0.00209	PASS
					VL	-2.62	-0.00102	PASS
					VN	-6.55	-0.00255	PASS
				TN	VH	-11.22	-0.00437	PASS
					VL	-8.34	-0.00333	PASS
					VN	-0.46	-0.00018	PASS
		15	MCH	TN	VH	-2.25	-0.0009	PASS
					VL	-0.44	-0.00017	PASS
					VN	6.22	0.00245	PASS
			HCH	TN	VH	-0.34	-0.00013	PASS
					VL	-9.9	-0.00386	PASS
					VN	2.49	0.00097	PASS
				TN	VH	6.41	0.0025	PASS
					VL	-0.26	-0.0001	PASS
					VN	1.32	0.00053	PASS
		20	MCH	TN	VH	3.92	0.00156	PASS
					VL	0.11	0.00004	PASS
					VN	3.3	0.0013	PASS
			HCH	TN	VH	2.76	0.00109	PASS
					VL	7.62	0.00298	PASS
					VN	0.03	0.00001	PASS
				TN	VH	3.81	0.00149	PASS

## 8.3.2 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
BAND2	LTETM1	5	LCH	VN	-30	1.16	0.00063	PASS
					-20	2.37	0.00128	PASS
					-10	4.55	0.00246	PASS
					0	-0.4	-0.00022	PASS
					10	3.26	0.00176	PASS
					20	0.46	0.00025	PASS
					30	0.27	0.00015	PASS
					40	0.41	0.00022	PASS
			50	1.7	0.00092	PASS		
			MCH	VN	-30	0.04	0.00002	PASS
					-20	-0.24	-0.00013	PASS
					-10	-0.14	-0.00007	PASS
					0	-24.23	-0.01289	PASS
					10	-2.09	-0.00111	PASS
		20			-20.3	-0.0108	PASS	
		30			-24.99	-0.01329	PASS	
		40			-2.73	-0.00145	PASS	
		50	1.22	0.00065	PASS			
		HCH	VN	-30	-16.95	-0.00889	PASS	
				-20	1.56	0.00082	PASS	
				-10	-0.1	-0.00005	PASS	
				0	-0.7	-0.00037	PASS	
				10	-29.48	-0.01545	PASS	
				20	-1.75	-0.00092	PASS	
				30	-0.64	-0.00034	PASS	
				40	0.36	0.00019	PASS	
		50	-2.42	-0.00127	PASS			
		10	LCH	VN	-30	4.66	0.00251	PASS
-20	0.93				0.0005	PASS		
-10	-0.14				-0.00008	PASS		
0	-2.19				-0.00118	PASS		
10	-0.2				-0.00011	PASS		
20	-28.91				-0.01558	PASS		
30	-0.92				-0.0005	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	0.36	0.00019	PASS	
					50	1.89	0.00102	PASS	
			MCH	VN	-30	3.62	0.00193	PASS	
					-20	-15.31	-0.00814	PASS	
					-10	-27.49	-0.01462	PASS	
					0	0.44	0.00023	PASS	
					10	-1.62	-0.00086	PASS	
					20	1.76	0.00094	PASS	
					30	-1	-0.00053	PASS	
					40	-0.64	-0.00034	PASS	
					50	-19.6	-0.01043	PASS	
					HCH	VN	-30	-1.85	-0.00097
			-20	5.09			0.00267	PASS	
			-10	-28.15			-0.01478	PASS	
			0	-12.7			-0.00667	PASS	
			10	-28.32			-0.01487	PASS	
			20	5.78			0.00303	PASS	
			30	1.42			0.00075	PASS	
		40	-0.86	-0.00045			PASS		
		15		LCH	VN	-30	1.42	0.00076	PASS
						-20	0.6	0.00032	PASS
						-10	-0.37	-0.0002	PASS
						0	1.07	0.00058	PASS
						10	0.56	0.0003	PASS
						20	0.36	0.00019	PASS
						30	-18.84	-0.01014	PASS
						40	-16.94	-0.00912	PASS
						50	-15.81	-0.00851	PASS
				MCH	VN	-30	8.28	0.0044	PASS
						-20	-4.63	-0.00246	PASS
						-10	-99.95	-0.05316	PASS
						0	-0.09	-0.00005	PASS
						10	2.9	0.00154	PASS
20	-2.85					-0.00152	PASS		
HCH	VN	30	-1.19	-0.00063	PASS				
		40	-1.13	-0.0006	PASS				
		50	-0.16	-0.00009	PASS				
			HCH	VN	-30	-14.86	-0.00781	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	-0.26	-0.00014	PASS
					-10	-0.62	-0.00033	PASS
					0	-0.82	-0.00043	PASS
					10	-0.67	-0.00035	PASS
					20	-0.23	-0.00012	PASS
					30	-15.45	-0.00812	PASS
					40	-1.54	-0.00081	PASS
					50	-14.12	-0.00742	PASS
		20	LCH	VN	-30	5.99	0.00322	PASS
					-20	-5.78	-0.00311	PASS
					-10	3.95	0.00212	PASS
					0	1.43	0.00077	PASS
					10	-0.56	-0.0003	PASS
					20	0.6	0.00032	PASS
					30	-7.74	-0.00416	PASS
					40	-15.19	-0.00817	PASS
					50	-17.7	-0.00952	PASS
					MCH	VN	-30	0.07
			-20	0.76			0.0004	PASS
			-10	-0.09			-0.00005	PASS
			0	-0.5			-0.00027	PASS
			10	0.83			0.00044	PASS
			20	-1.04			-0.00055	PASS
			30	-2.29			-0.00122	PASS
			40	-0.17			-0.00009	PASS
			50	-0.44			-0.00023	PASS
			HCH	VN			-30	0.6
					-20	-2	-0.00105	PASS
	-10	-1.03			-0.00054	PASS		
	0	-0.26			-0.00014	PASS		
	10	0.51			0.00027	PASS		
	20	-0.23			-0.00012	PASS		
	30	-0.26			-0.00014	PASS		
40	0.37	0.00019			PASS			
50	-0.19	-0.0001			PASS			
LTE/TM2	5	LCH	VN	-30	1.96	0.00106	PASS	
				-20	1.7	0.00092	PASS	
				-10	4.18	0.00226	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					0	1.69	0.00091	PASS			
					10	2.78	0.0015	PASS			
					20	3.29	0.00178	PASS			
					30	-29.91	-0.01615	PASS			
					40	0.79	0.00043	PASS			
					50	0.53	0.00029	PASS			
			MCH	VN	-30	-0.86	-0.00046	PASS			
					-20	-22.47	-0.01195	PASS			
					-10	-1.2	-0.00064	PASS			
					0	-27.97	-0.01488	PASS			
					10	-1.46	-0.00078	PASS			
					20	0.87	0.00046	PASS			
			HCH	VN	30	1.8	0.00096	PASS			
					40	-7.84	-0.00417	PASS			
					50	-30.18	-0.01605	PASS			
					-30	0.84	0.00044	PASS			
					-20	-18.9	-0.00991	PASS			
					-10	-29.35	-0.01539	PASS			
		10	LCH	VN	0	0.73	0.00038	PASS			
					10	-26.19	-0.01373	PASS			
					20	-30.56	-0.01602	PASS			
					30	-24.79	-0.013	PASS			
					40	0.24	0.00013	PASS			
					50	-0.41	-0.00021	PASS			
			MCH	VN	-30	1.77	0.00095	PASS			
					-20	-0.44	-0.00024	PASS			
					-10	0.44	0.00024	PASS			
					0	-1.17	-0.00063	PASS			
					10	-0.33	-0.00018	PASS			
					20	1.8	0.00097	PASS			
								30	-1.63	-0.00088	PASS
								40	1.76	0.00095	PASS
								50	-0.74	-0.0004	PASS
								-30	-2.96	-0.00157	PASS
								-20	-2.23	-0.00119	PASS
								-10	-20.14	-0.01071	PASS
					0	0.92	0.00049	PASS			
					10	-4.48	-0.00238	PASS			
					20	-1.66	-0.00088	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-3.05	-0.00162	PASS		
					40	-0.34	-0.00018	PASS		
					50	-3.76	-0.002	PASS		
			HCH	VN	-30	-1.02	-0.00054	PASS		
					-20	-20.08	-0.01054	PASS		
					-10	-9.73	-0.00511	PASS		
					0	-17.25	-0.00906	PASS		
					10	-26.36	-0.01384	PASS		
					20	-3.33	-0.00175	PASS		
					30	1.22	0.00064	PASS		
					40	0.49	0.00026	PASS		
					50	3.28	0.00172	PASS		
					LCH	VN	-30	1.17	0.00063	PASS
							-20	-16.29	-0.00877	PASS
							-10	-16.84	-0.00907	PASS
		0	-0.79	-0.00043			PASS			
		10	-1.59	-0.00086			PASS			
		20	0.4	0.00022			PASS			
		30	-13.99	-0.00753			PASS			
		40	0.74	0.0004			PASS			
		50	-0.69	-0.00037			PASS			
		MCH	VN	-30	0.51	0.00027	PASS			
				-20	0.17	0.00009	PASS			
				-10	-4.32	-0.0023	PASS			
				0	-0.26	-0.00014	PASS			
				10	-0.84	-0.00045	PASS			
				20	-1.87	-0.00099	PASS			
				30	0.1	0.00005	PASS			
				40	-7.18	-0.00382	PASS			
				50	-3.16	-0.00168	PASS			
		HCH	VN	-30	-0.43	-0.00023	PASS			
				-20	-0.2	-0.00011	PASS			
				-10	1.24	0.00065	PASS			
				0	1.53	0.0008	PASS			
				10	0.37	0.00019	PASS			
				20	1.67	0.00088	PASS			
				30	-0.36	-0.00019	PASS			
				40	-0.76	-0.0004	PASS			
				50	-0.72	-0.00038	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		20	LCH	VN	-30	0.31	0.00017	PASS
					-20	0.63	0.00034	PASS
					-10	-0.23	-0.00012	PASS
					0	1.62	0.00087	PASS
					10	-12.25	-0.00659	PASS
					20	-29.37	-0.01579	PASS
					30	-118.9	-0.06392	PASS
					40	-1.19	-0.00064	PASS
					50	16.57	0.00891	PASS
			MCH	VN	-30	-0.27	-0.00014	PASS
					-20	-1.17	-0.00062	PASS
					-10	-1.19	-0.00063	PASS
					0	2.25	0.0012	PASS
					10	0.57	0.0003	PASS
					20	-0.23	-0.00012	PASS
					30	1.13	0.0006	PASS
					40	1.36	0.00072	PASS
					50	-0.14	-0.00007	PASS
			HCH	VN	-30	-0.53	-0.00028	PASS
					-20	0.96	0.00051	PASS
					-10	0.93	0.00049	PASS
					0	0.04	0.00002	PASS
					10	-0.33	-0.00017	PASS
					20	-1.49	-0.00078	PASS
					30	-1.76	-0.00093	PASS
					40	0.92	0.00048	PASS
					50	0.73	0.00038	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		5	LCH	VN	-30	4.81	0.00582	PASS
					-20	1.54	0.00186	PASS
					-10	1.23	0.00149	PASS
					0	-1.66	-0.00201	PASS
					10	-0.49	-0.00059	PASS
					20	3.95	0.00478	PASS
					30	-0.69	-0.00083	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
					40	-352.86	-0.42693	PASS	
					50	-0.14	-0.00017	PASS	
			MCH	VN	-30	3.26	0.0039	PASS	
					-20	4.75	0.00568	PASS	
					-10	-0.14	-0.00017	PASS	
					0	6.31	0.00754	PASS	
					10	7.42	0.00887	PASS	
					20	0.84	0.001	PASS	
					30	1.34	0.0016	PASS	
					40	4.29	0.00513	PASS	
					50	-3.22	-0.00385	PASS	
					HCH	VN	-30	0.77	0.00091
			-20	1.9			0.00224	PASS	
			-10	3.79			0.00448	PASS	
			0	4.41			0.00521	PASS	
			10	-2.15			-0.00254	PASS	
			20	0.21			0.00025	PASS	
			30	-0.99			-0.00117	PASS	
			40	-2.76			-0.00326	PASS	
			10		LCH	VN	-30	-1.34	-0.00162
		-20					2.37	0.00286	PASS
		-10					1.67	0.00201	PASS
		0					-10.93	-0.01318	PASS
		10					-24.2	-0.02919	PASS
		20					-6.88	-0.0083	PASS
		30					11.69	0.0141	PASS
		40					4.06	0.0049	PASS
		50			-4.26	-0.00514	PASS		
		MCH			VN	-30	-123	-0.14704	PASS
			-20	-73.81		-0.08824	PASS		
			-10	30.91		0.03695	PASS		
			0	-82.01		-0.09804	PASS		
			10	-31.81		-0.03803	PASS		
			20	95.39		0.11403	PASS		
			30	-9.6		-0.01148	PASS		
			40	-134.51		-0.1608	PASS		
		HCH	VN	-30	0.59	0.0007	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					-20	-2.36	-0.0028	PASS		
					-10	-2.15	-0.00255	PASS		
					0	-1.3	-0.00154	PASS		
					10	-0.29	-0.00034	PASS		
					20	-0.72	-0.00085	PASS		
					30	-0.92	-0.00109	PASS		
					40	-0.54	-0.00064	PASS		
					50	-1.2	-0.00142	PASS		
	LTE/TM2	5	LCH	VN	-30	8.73	0.01056	PASS		
					-20	14.25	0.01724	PASS		
					-10	0.73	0.00088	PASS		
					0	0.46	0.00056	PASS		
					10	-0.63	-0.00076	PASS		
					20	-0.07	-0.00008	PASS		
					30	-0.8	-0.00097	PASS		
					40	-3.12	-0.00377	PASS		
					50	0.92	0.00111	PASS		
					MCH	VN	-30	-2.89	-0.00345	PASS
							-20	-2.02	-0.00241	PASS
							-10	-1.33	-0.00159	PASS
							0	-2.56	-0.00306	PASS
							10	2.52	0.00301	PASS
							20	-2.62	-0.00313	PASS
							30	-2.22	-0.00265	PASS
			40	1.22			0.00146	PASS		
			HCH	VN	-30	0.74	0.00087	PASS		
					-20	-3.55	-0.00419	PASS		
					-10	0.57	0.00067	PASS		
					0	-2.06	-0.00243	PASS		
					10	2.33	0.00275	PASS		
					20	-0.72	-0.00085	PASS		
					30	1.47	0.00174	PASS		
40	-2.45	-0.00289			PASS					
50	-2.19	-0.00259	PASS							
10	LCH	VN	-30	-1.76	-0.00212	PASS				
			-20	-5.72	-0.0069	PASS				
			-10	0.63	0.00076	PASS				
			0	-1.72	-0.00207	PASS				



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	6.08	0.00733	PASS
					20	-1.89	-0.00228	PASS
					30	1.8	0.00217	PASS
					40	1.66	0.002	PASS
					50	-0.36	-0.00043	PASS
			MCH	VN	-30	-3.06	-0.00366	PASS
					-20	4.72	0.00564	PASS
					-10	4.39	0.00525	PASS
					0	2.9	0.00343	PASS
					10	3.81	0.0045	PASS
					20	-4.92	-0.00581	PASS
					30	-3.98	-0.0048	PASS
					40	0.94	0.00113	PASS
			HCH	VN	50	-3.45	-0.00416	PASS
					-30	3.91	0.00467	PASS
					-20	-4.68	-0.00559	PASS
					-10	7.77	0.00929	PASS
					0	-1.34	-0.00159	PASS
					10	-1.24	-0.00147	PASS
					20	-0.9	-0.00107	PASS
					30	0.29	0.00034	PASS
40	0.11	0.00013	PASS					
50	-1.79	-0.00217	PASS					

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
BAND7	LTE/TM1	5	LCH	VN	-30	0.36	0.00014	PASS
					-20	-0.62	-0.00025	PASS
					-10	1.73	0.00069	PASS
					0	-1.9	-0.00076	PASS
					10	-1.73	-0.00069	PASS
					20	-0.53	-0.00021	PASS
					30	-4.02	-0.00161	PASS
					40	0.89	0.00036	PASS
					50	-0.19	-0.00008	PASS
			MCH	VN	-30	0.33	0.00013	PASS
					-20	-2.53	-0.001	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-10	1.26	0.0005	PASS
					0	0.94	0.00037	PASS
					10	2.66	0.00105	PASS
					20	-0.43	-0.00017	PASS
					30	0.79	0.00031	PASS
					40	-0.09	-0.00004	PASS
					50	2.16	0.00085	PASS
			HCH	VN	-30	1.33	0.00052	PASS
					-20	2.57	0.001	PASS
					-10	-1.37	-0.00053	PASS
					0	0.82	0.00032	PASS
					10	-2.2	-0.00086	PASS
					20	-2.37	-0.00092	PASS
					30	1.26	0.00049	PASS
		10	LCH	VN	-30	-0.5	-0.0002	PASS
					-20	-2.22	-0.00089	PASS
					-10	-1.23	-0.00049	PASS
					0	-1.06	-0.00042	PASS
					10	-0.23	-0.00009	PASS
					20	0.46	0.00018	PASS
					30	0.76	0.0003	PASS
					40	0.54	0.00022	PASS
			MCH	VN	-30	-2.8	-0.0011	PASS
					-20	-0.2	-0.00008	PASS
					-10	-0.26	-0.0001	PASS
					0	2.07	0.00082	PASS
					10	-2.17	-0.00086	PASS
					20	-1.33	-0.00052	PASS
					30	-0.83	-0.00033	PASS
					40	0.94	0.00037	PASS
		HCH	VN	-30	-0.43	-0.00017	PASS	
				-20	2.32	0.0009	PASS	
				-10	-0.51	-0.0002	PASS	
				0	-0.06	-0.00002	PASS	
				10	-1.65	-0.00064	PASS	
				50	-5.21	-0.00206	PASS	



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					20	-0.24	-0.00009	PASS		
					30	2.12	0.00083	PASS		
					40	-0.87	-0.00034	PASS		
					50	0.3	0.00012	PASS		
		15	LCH	VN	-30	1.17	0.00047	PASS		
					-20	-1.75	-0.0007	PASS		
					-10	0.16	0.00006	PASS		
					0	1.97	0.00079	PASS		
					10	1.22	0.00049	PASS		
					20	0.13	0.00005	PASS		
					30	-1.76	-0.0007	PASS		
					40	1.23	0.00049	PASS		
					50	0.64	0.00026	PASS		
					MCH	VN	-30	-0.54	-0.00021	PASS
							-20	-1.57	-0.00062	PASS
							-10	2.02	0.0008	PASS
			0	2.6			0.00103	PASS		
			10	0.3			0.00012	PASS		
			20	0.64			0.00025	PASS		
			HCH	VN	30	0.41	0.00016	PASS		
					40	0.72	0.00028	PASS		
					50	-0.31	-0.00012	PASS		
					-30	1.85	0.00072	PASS		
					-20	0.51	0.0002	PASS		
					-10	-1.87	-0.00073	PASS		
			20	LCH	VN	0	-1.57	-0.00061	PASS	
						10	1.37	0.00053	PASS	
						20	0.54	0.00021	PASS	
		30				1.22	0.00048	PASS		
		40				-0.73	-0.00028	PASS		
		50				-0.1	-0.00004	PASS		
		-30				-0.51	-0.0002	PASS		
-20	-0.56	-0.00022				PASS				
-10	-0.94	-0.00037	PASS							
0	-0.92	-0.00037	PASS							
10	1.34	0.00053	PASS							
20	0.23	0.00009	PASS							
30	-1.37	-0.00055	PASS							
40	-0.64	-0.00025	PASS							