

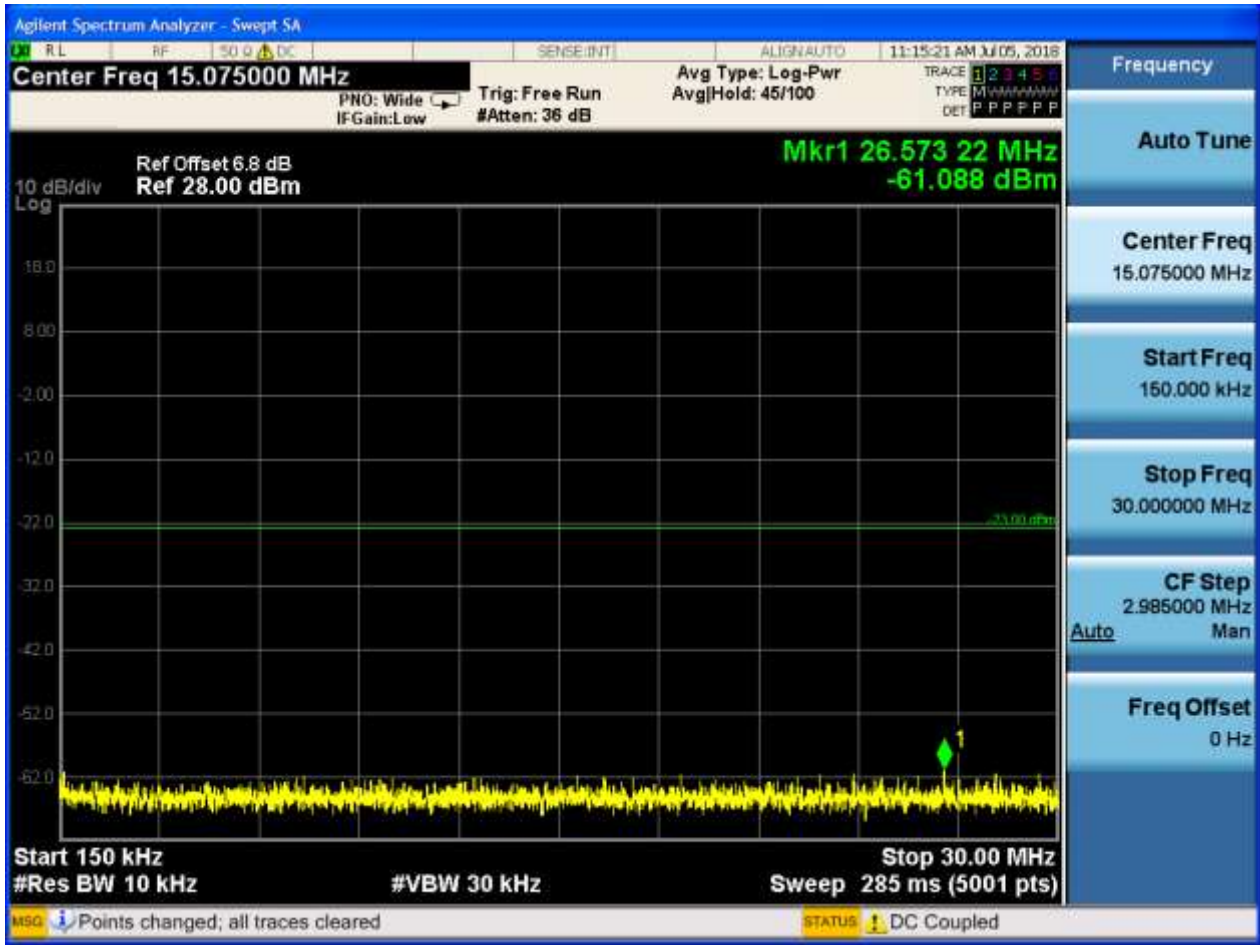




6.1.1.1.1.2 Test Channel = MCH

6.1.1.1.1.2.1 Test RB = RB1#0



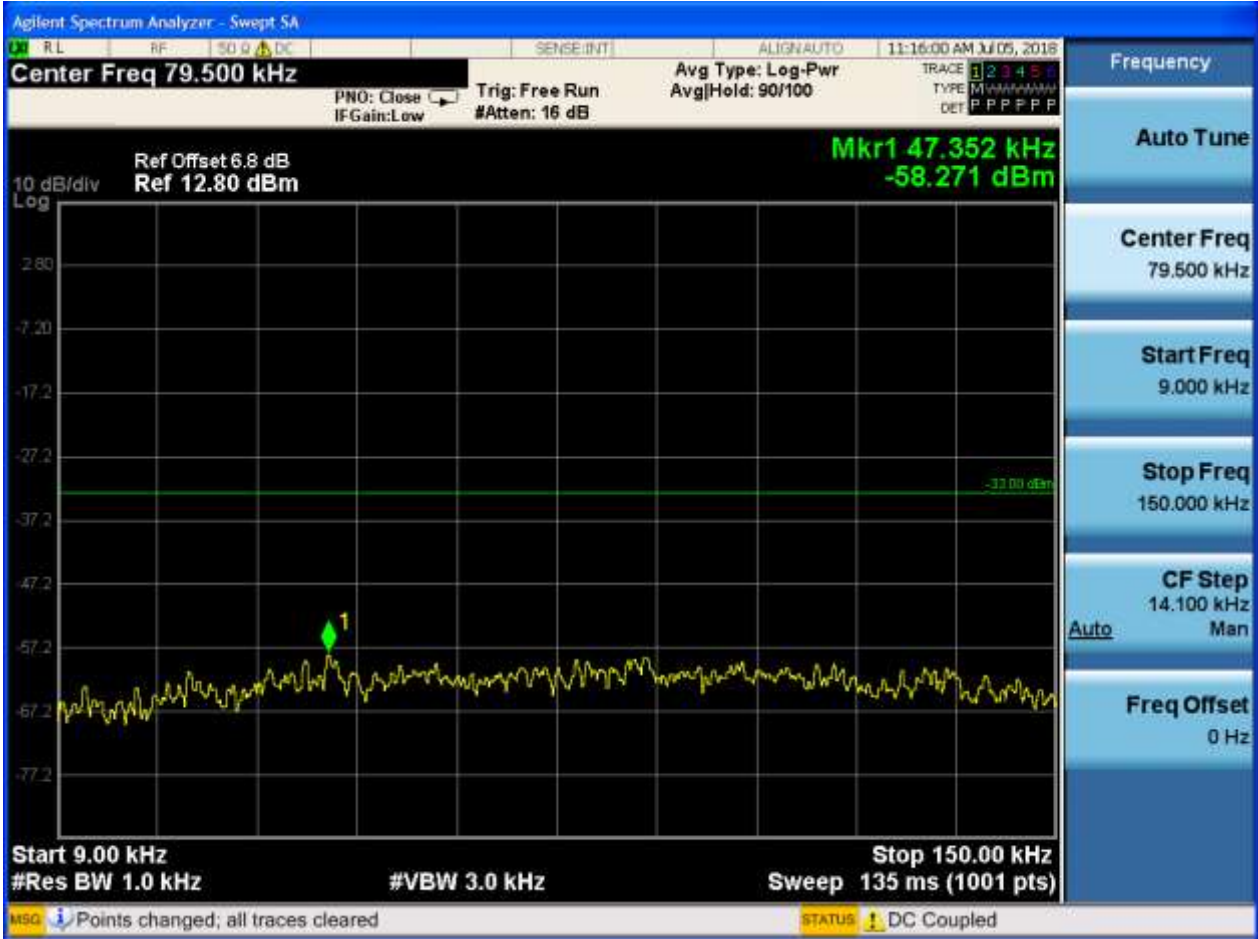


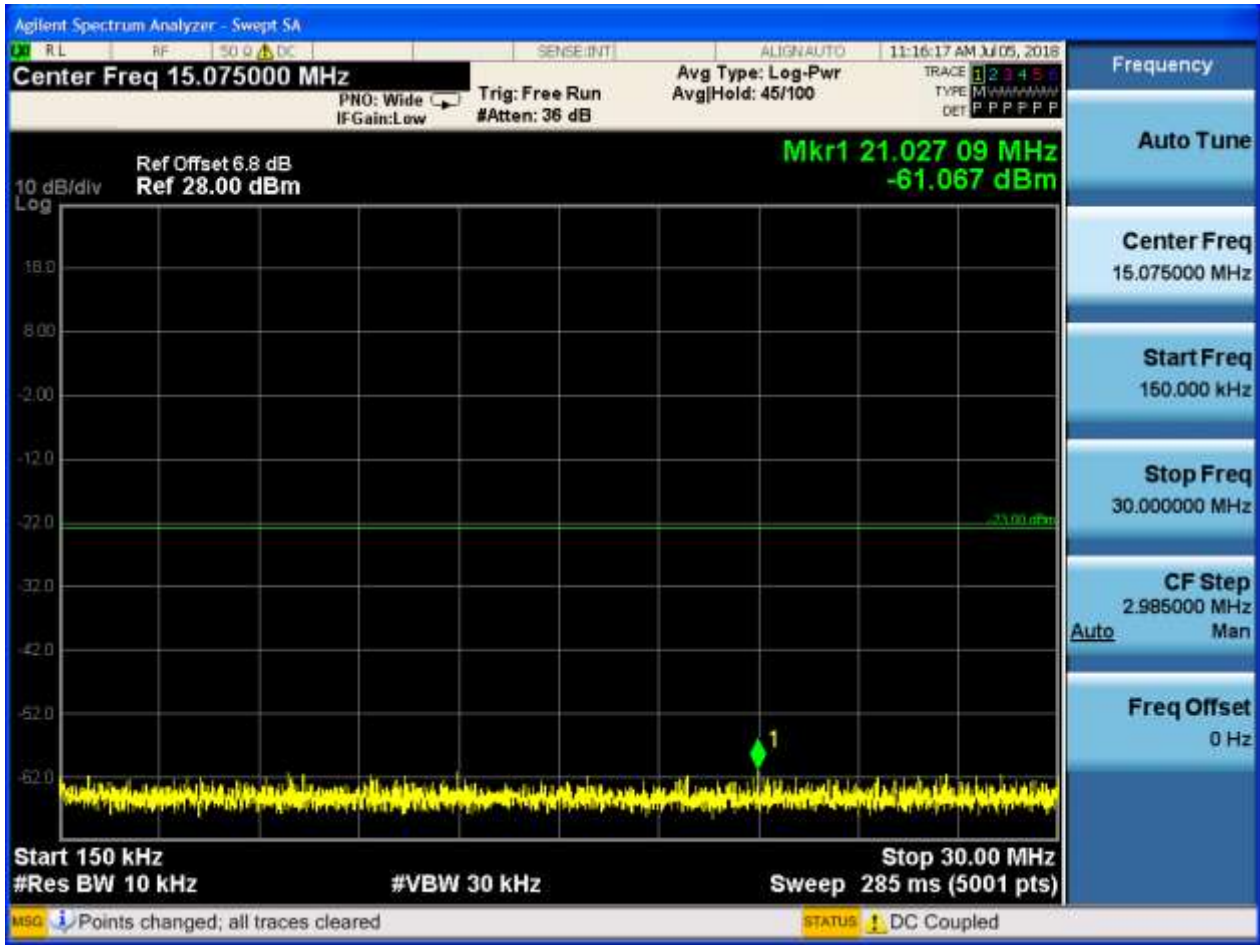


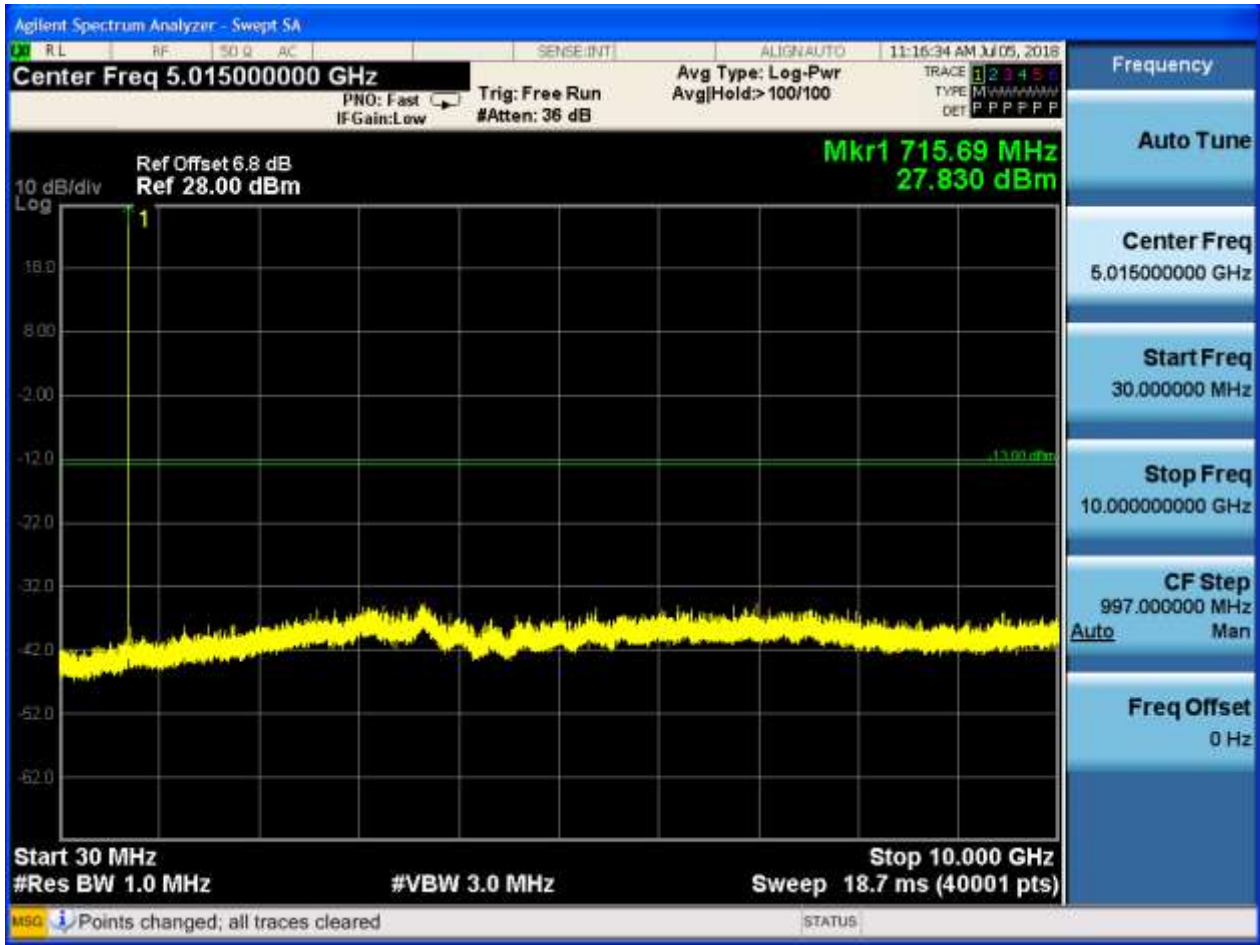


6.1.1.1.1.3 Test Channel = HCH

6.1.1.1.1.3.1 Test RB = RB1#0



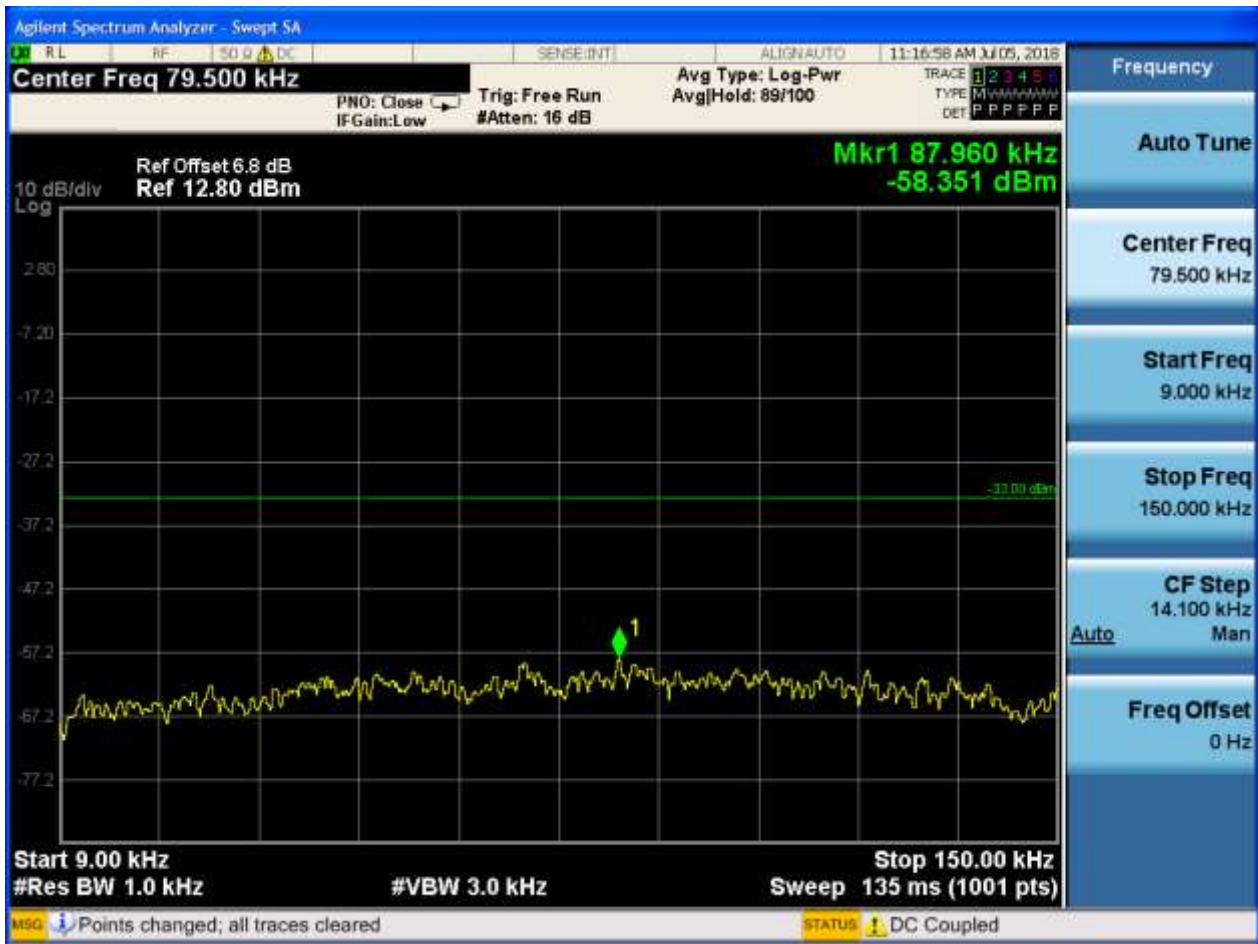


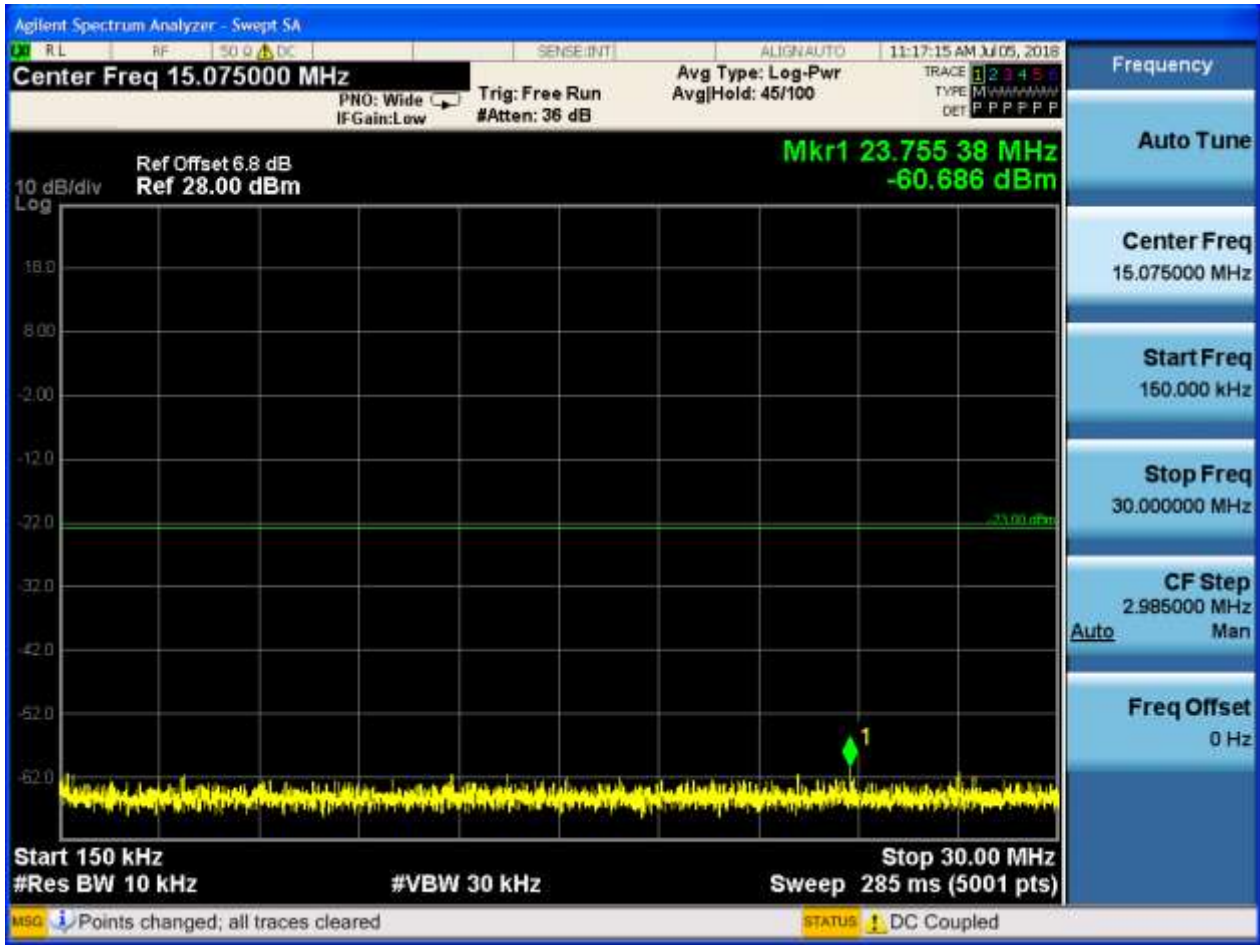


6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



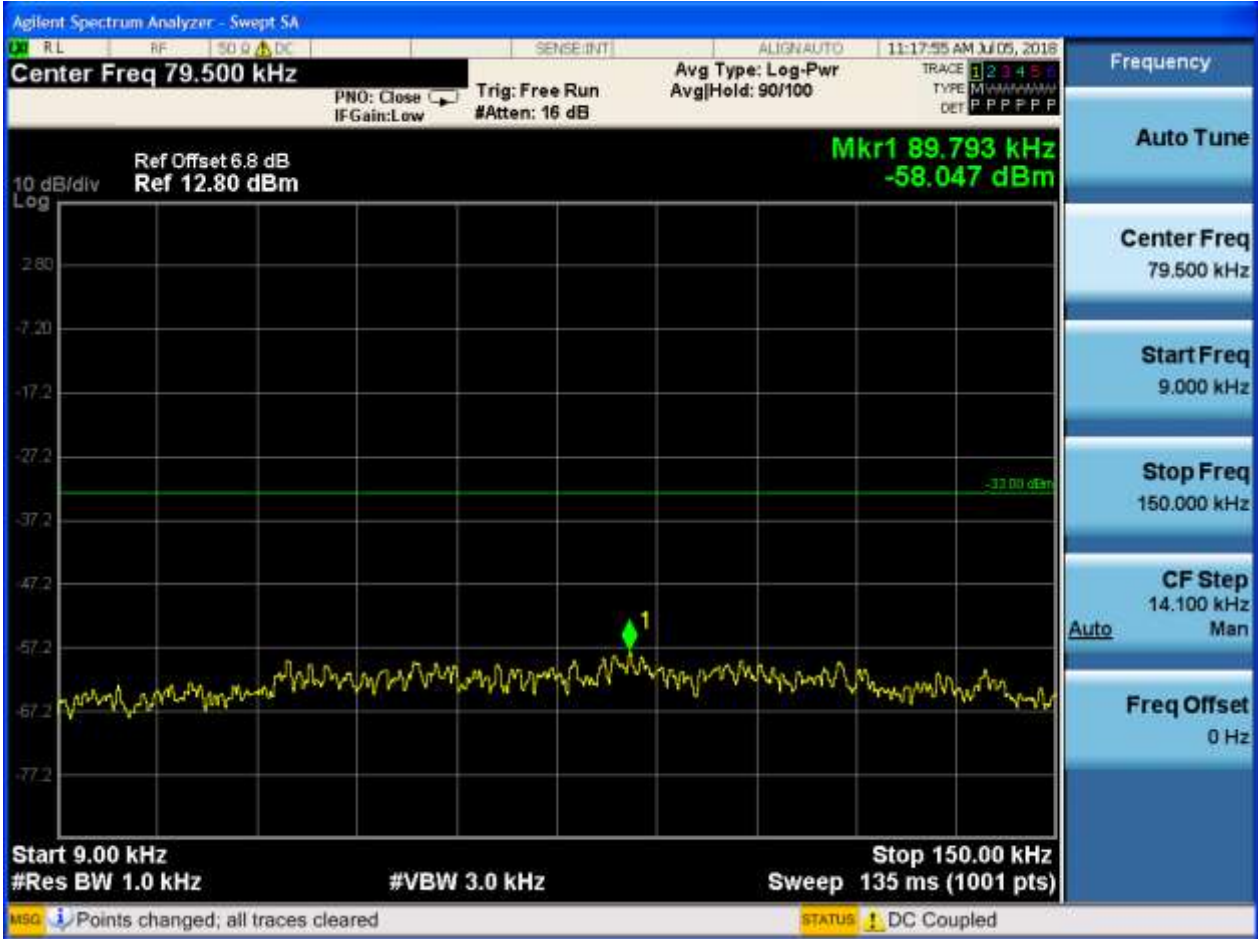


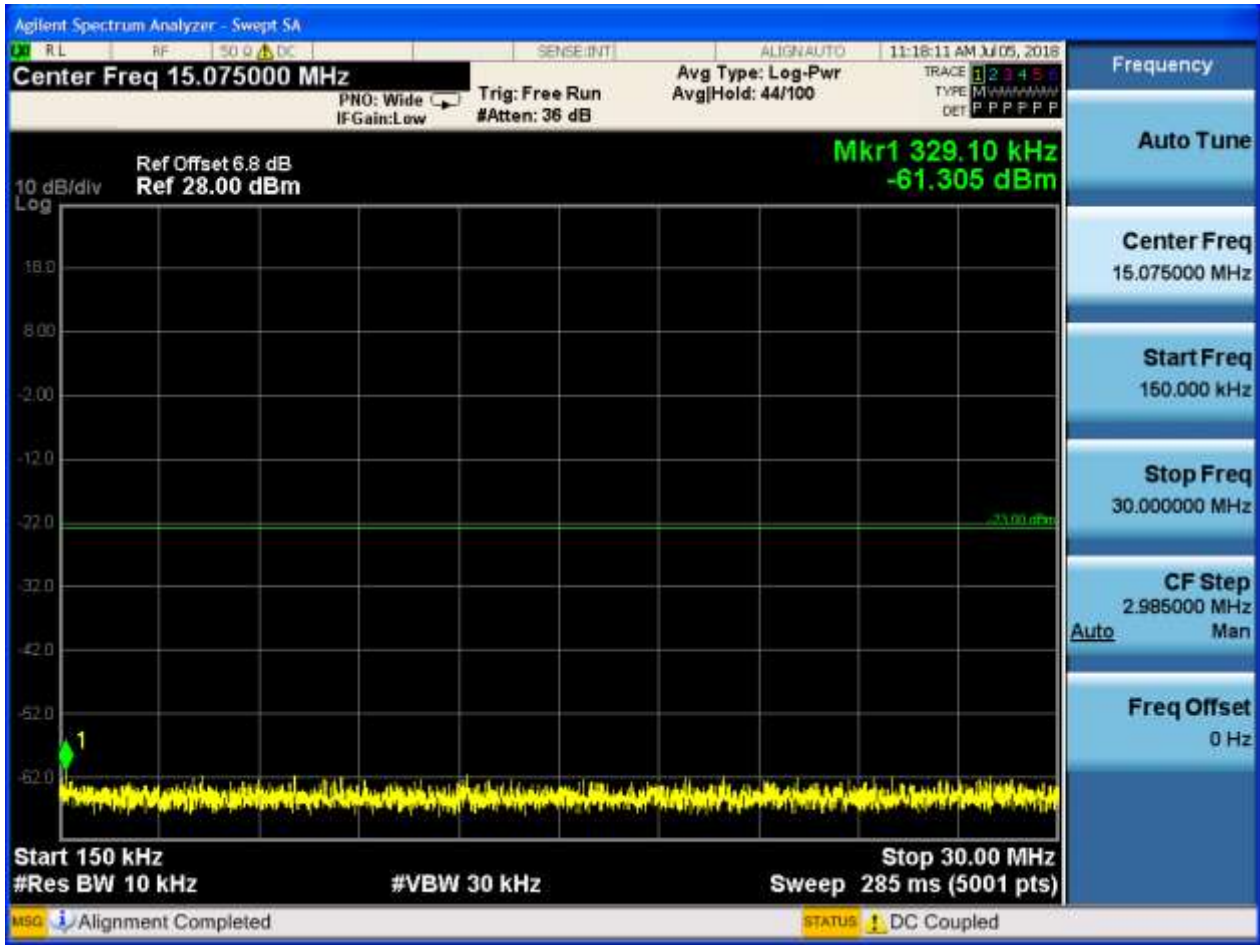


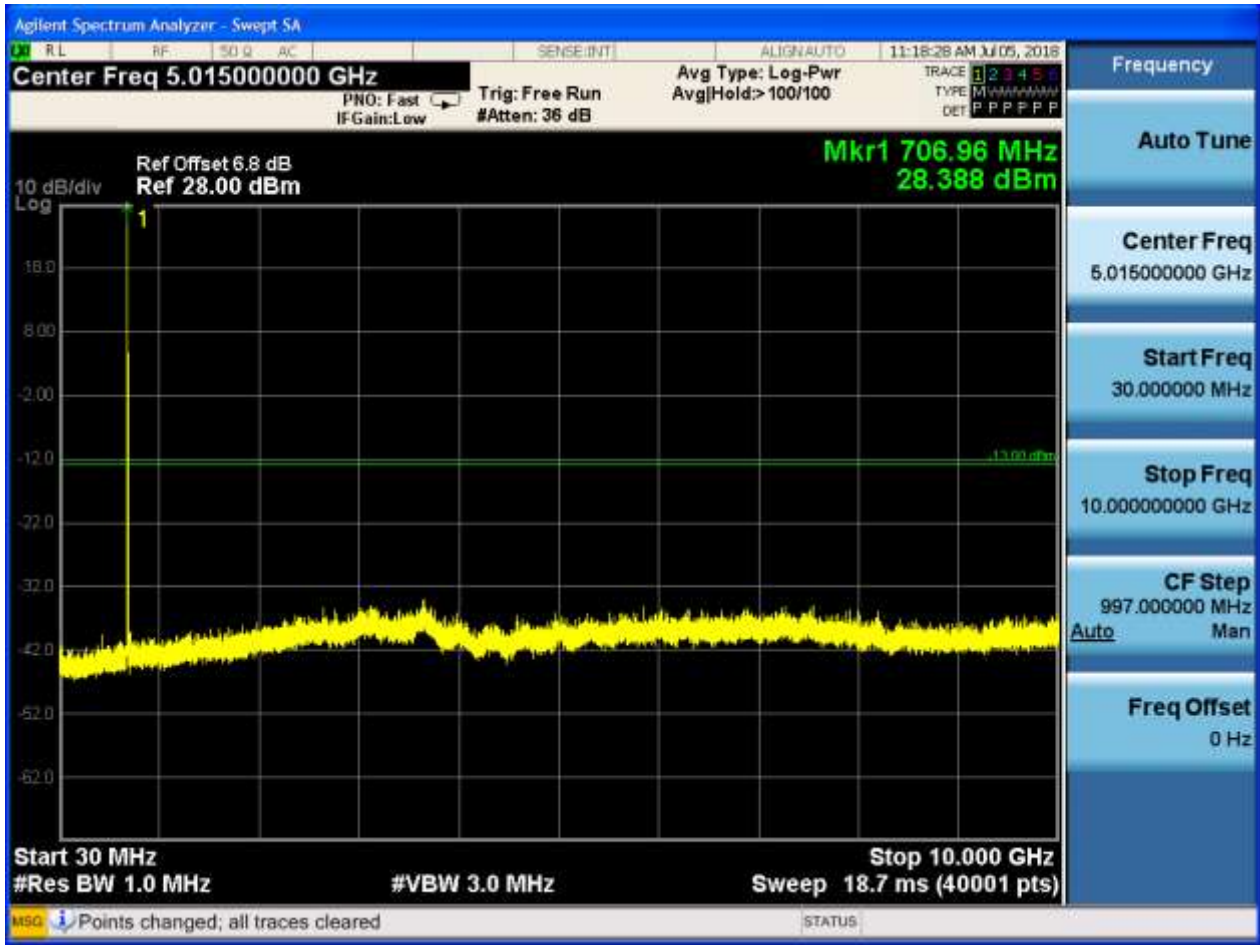


6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0





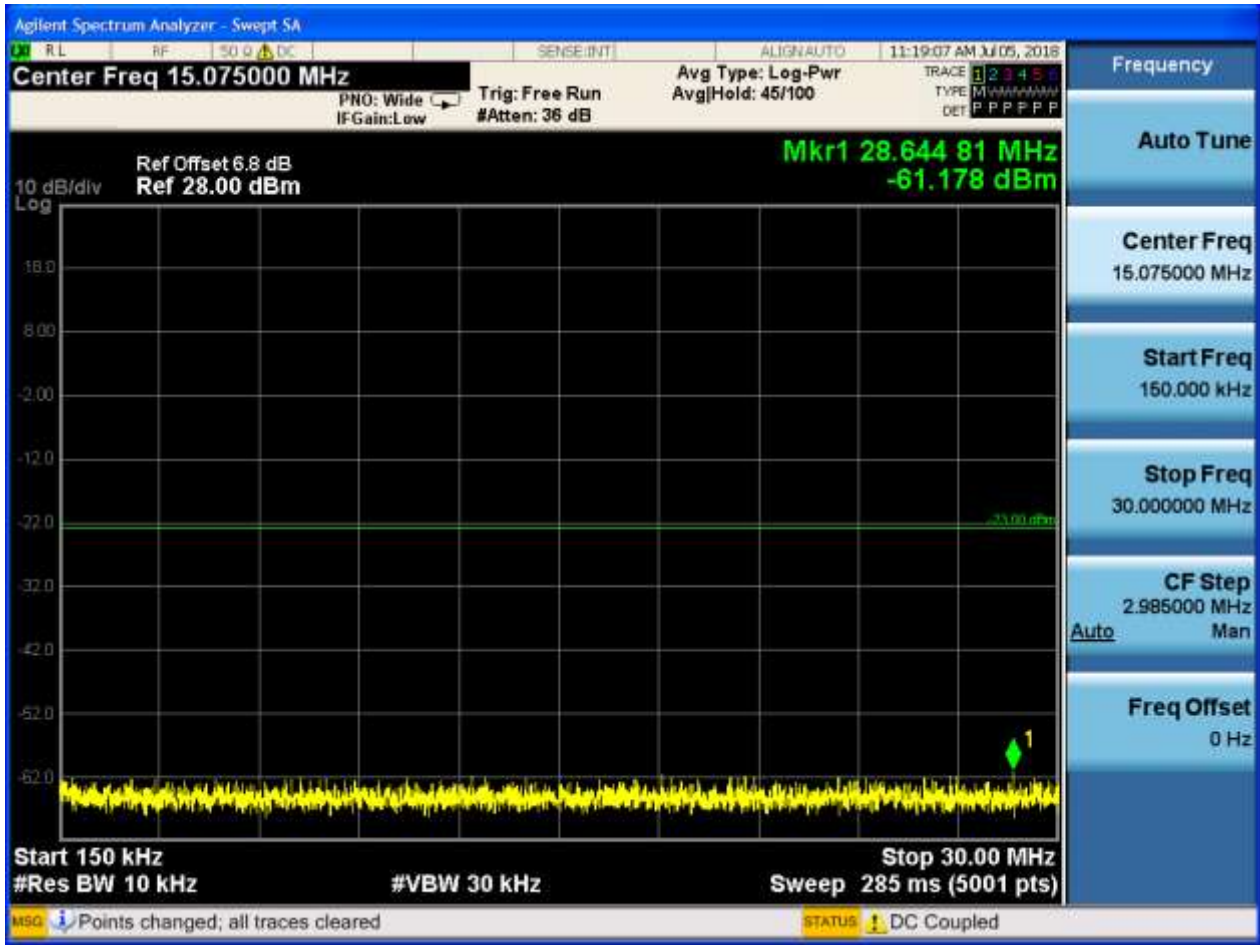




6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







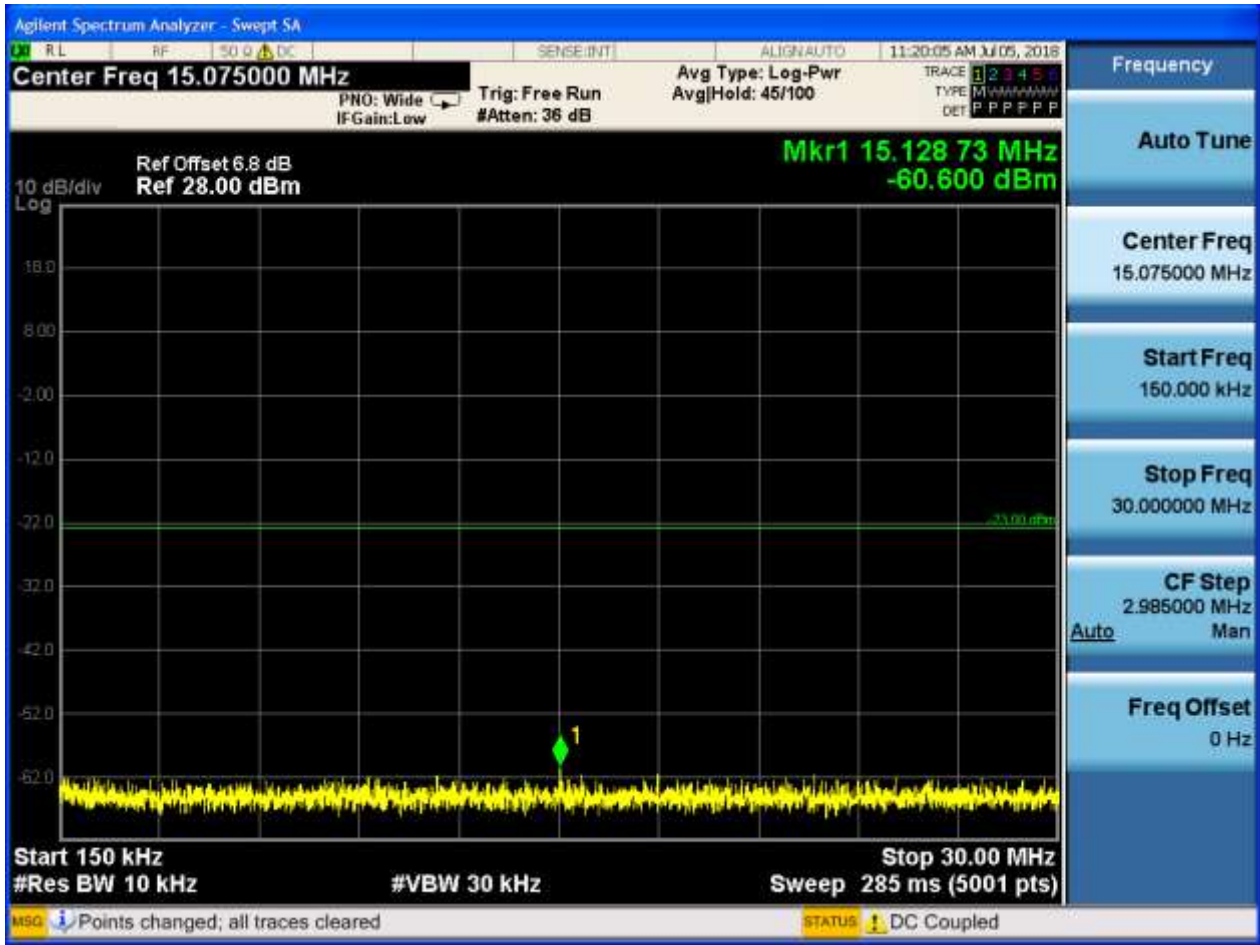


6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



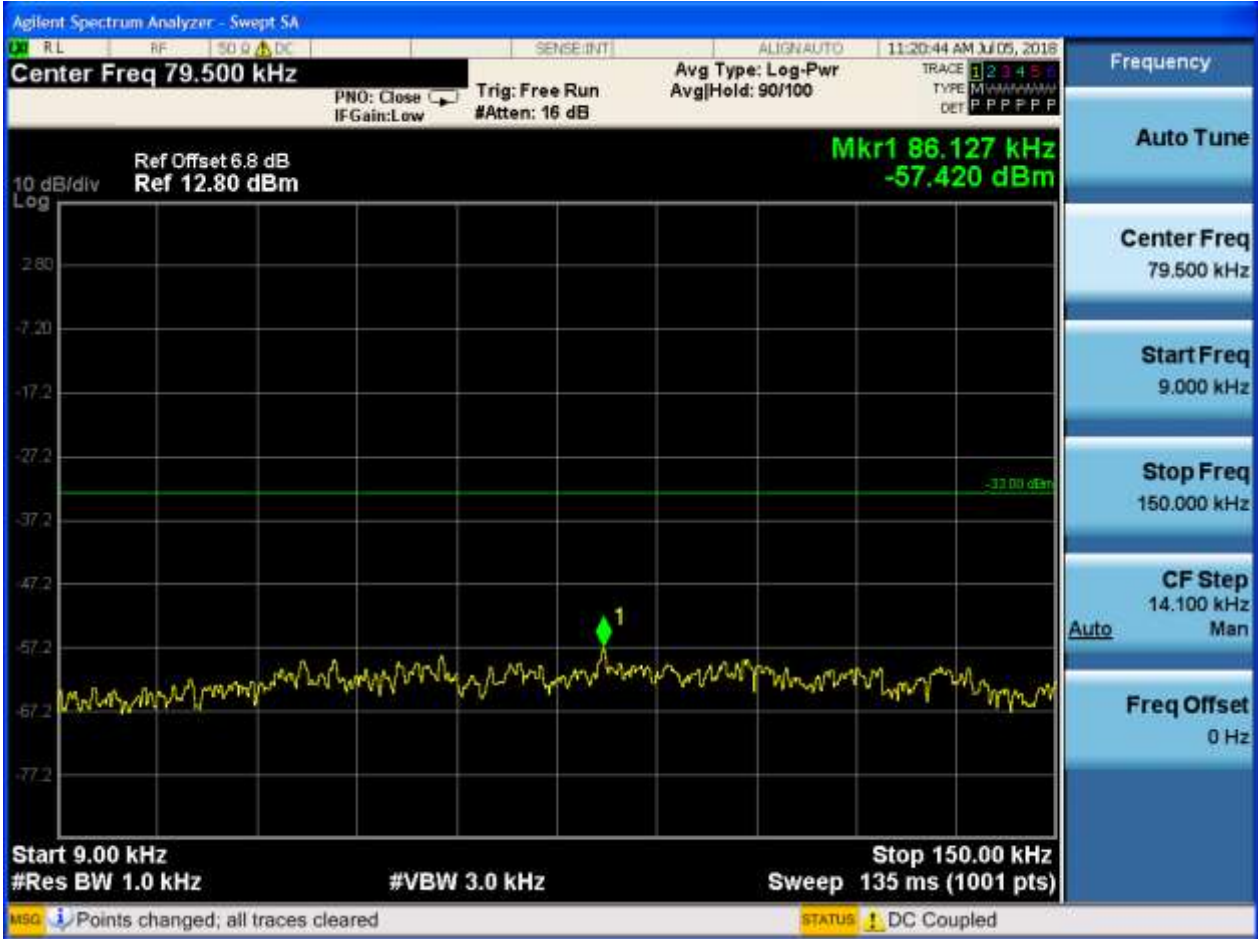




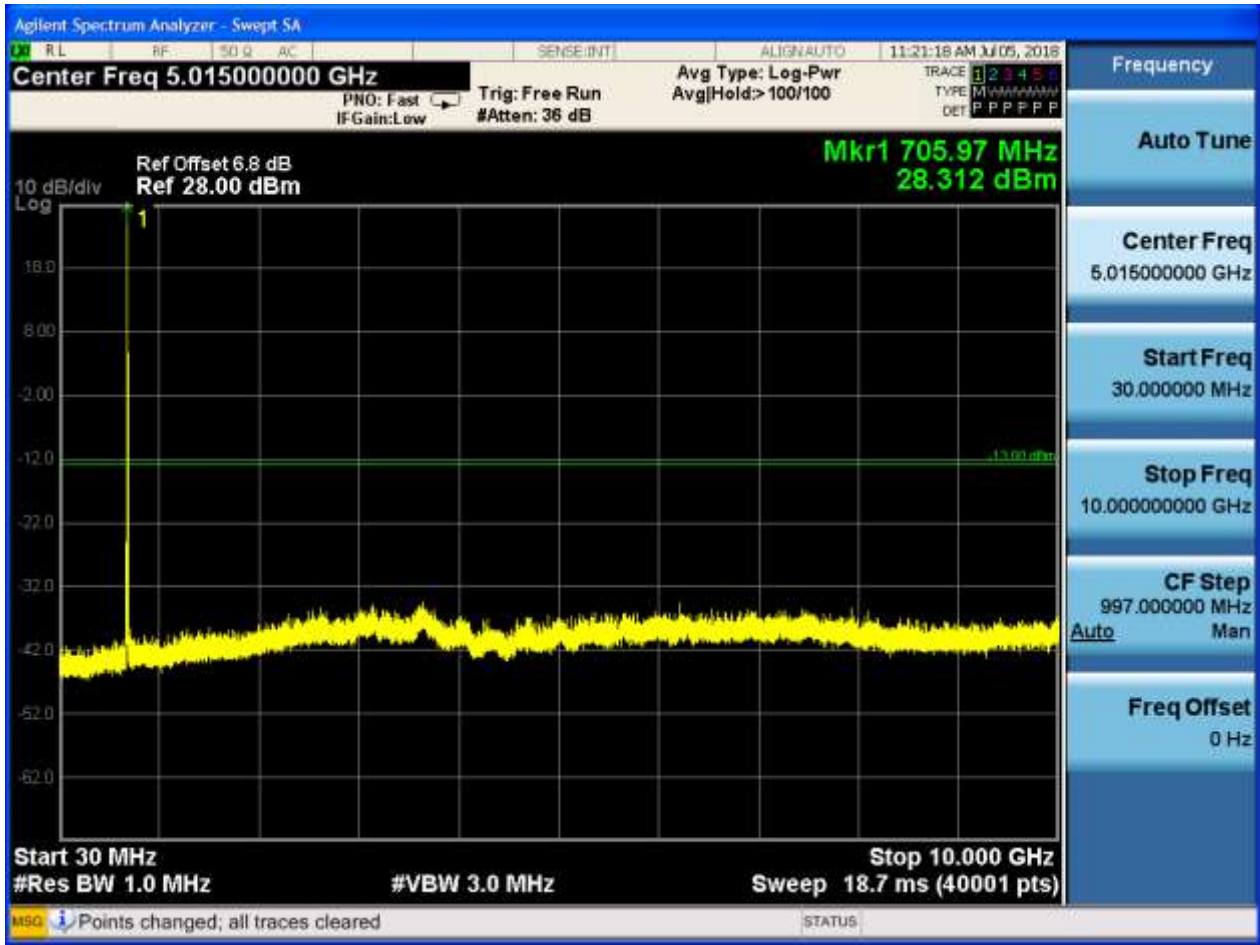


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





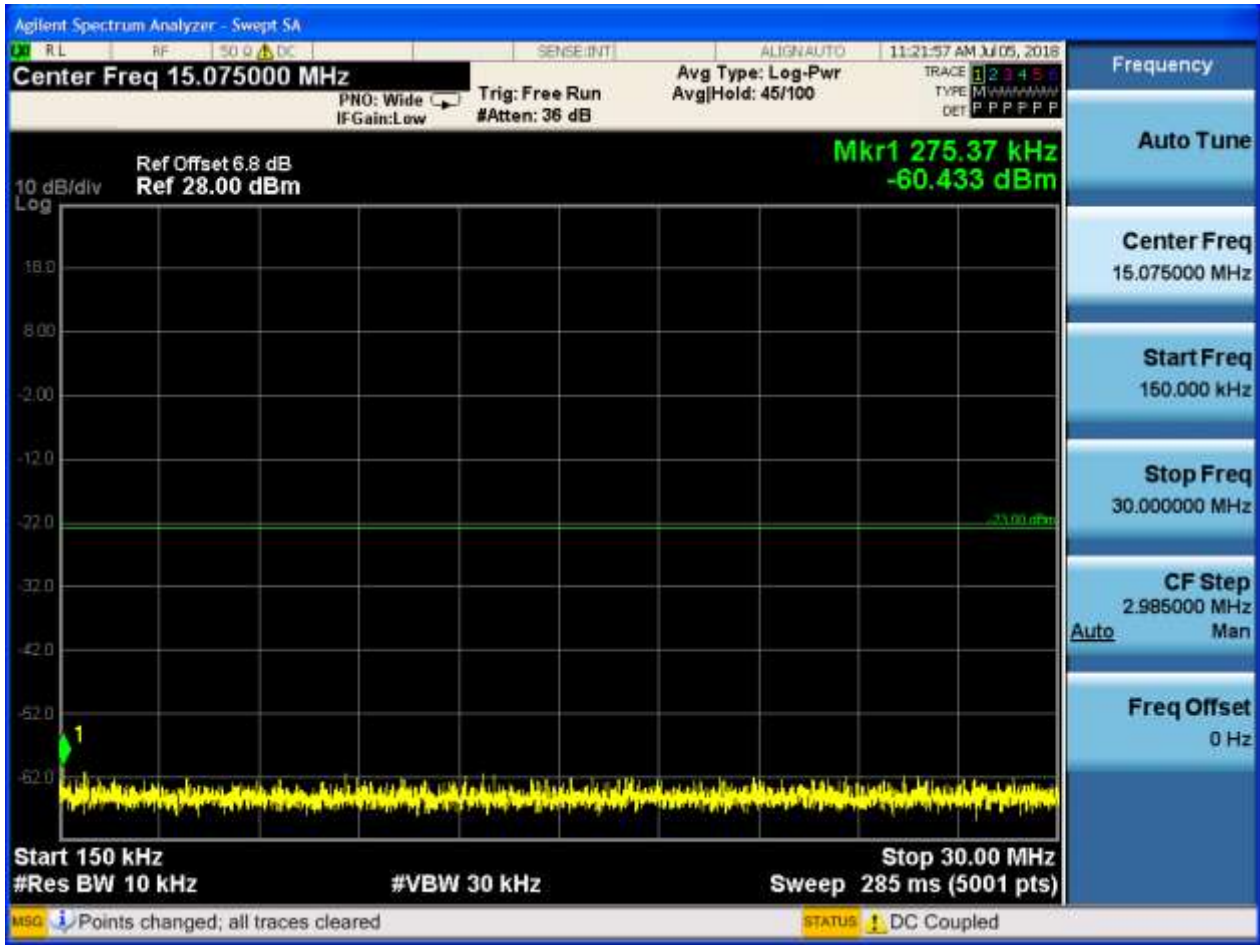


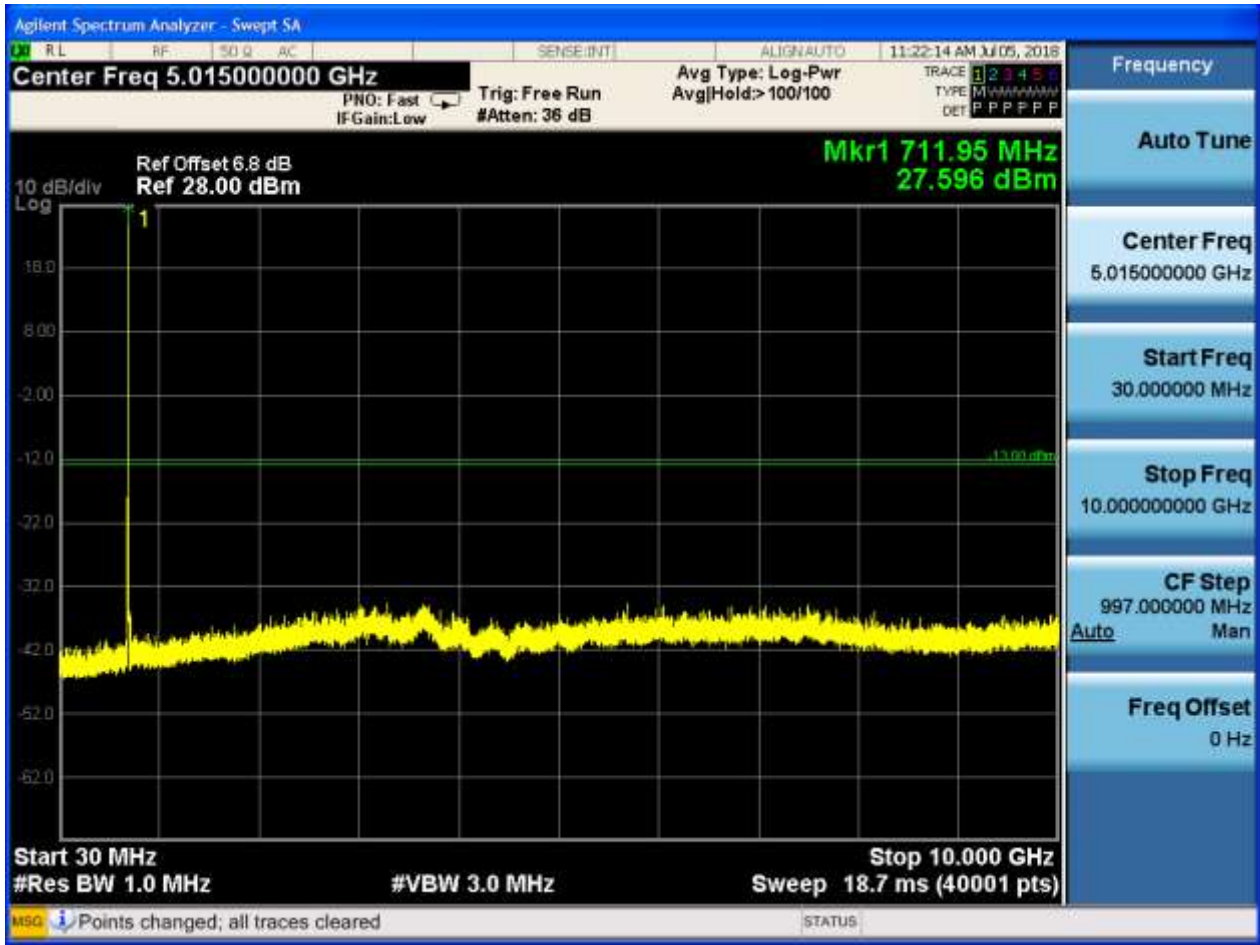


6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







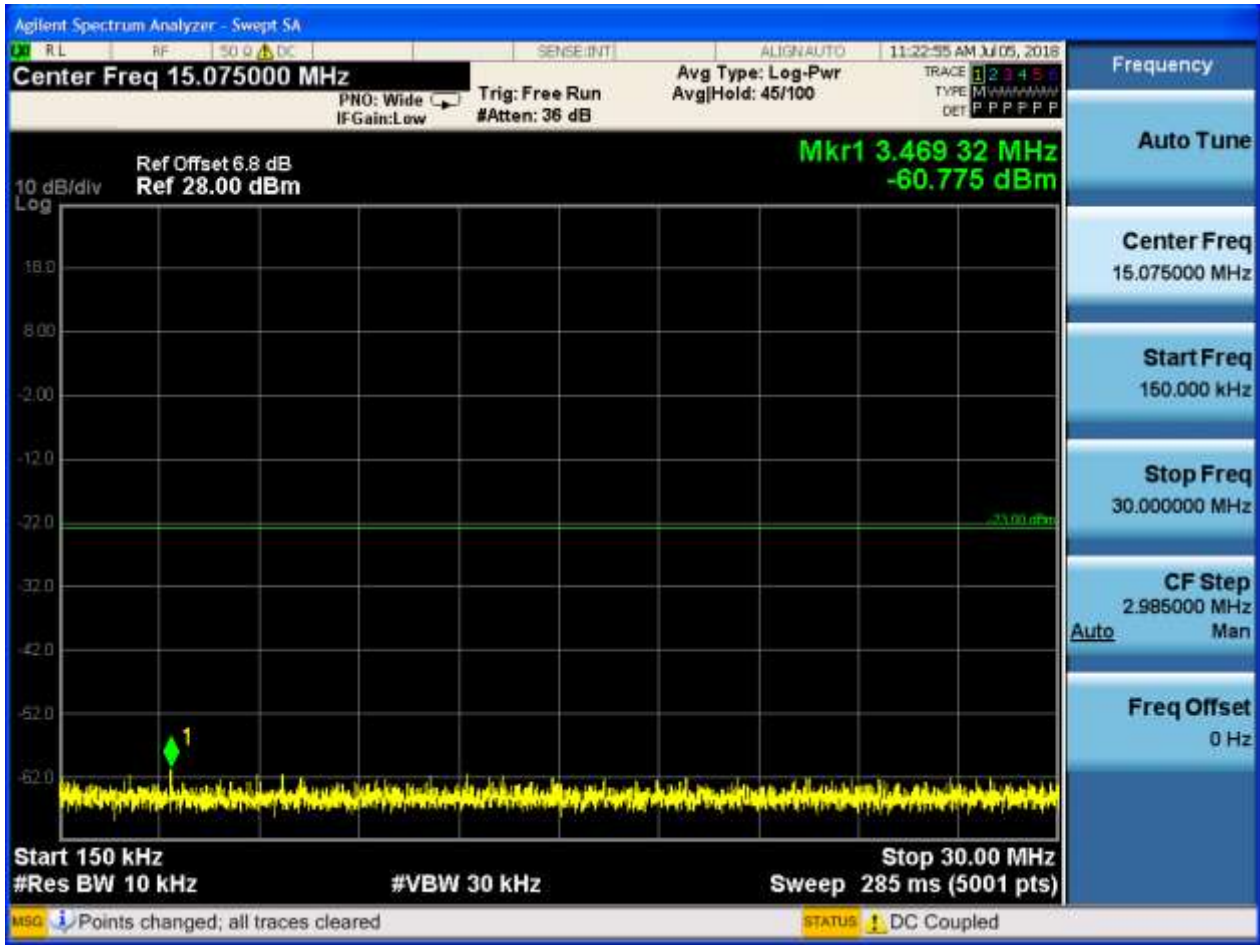


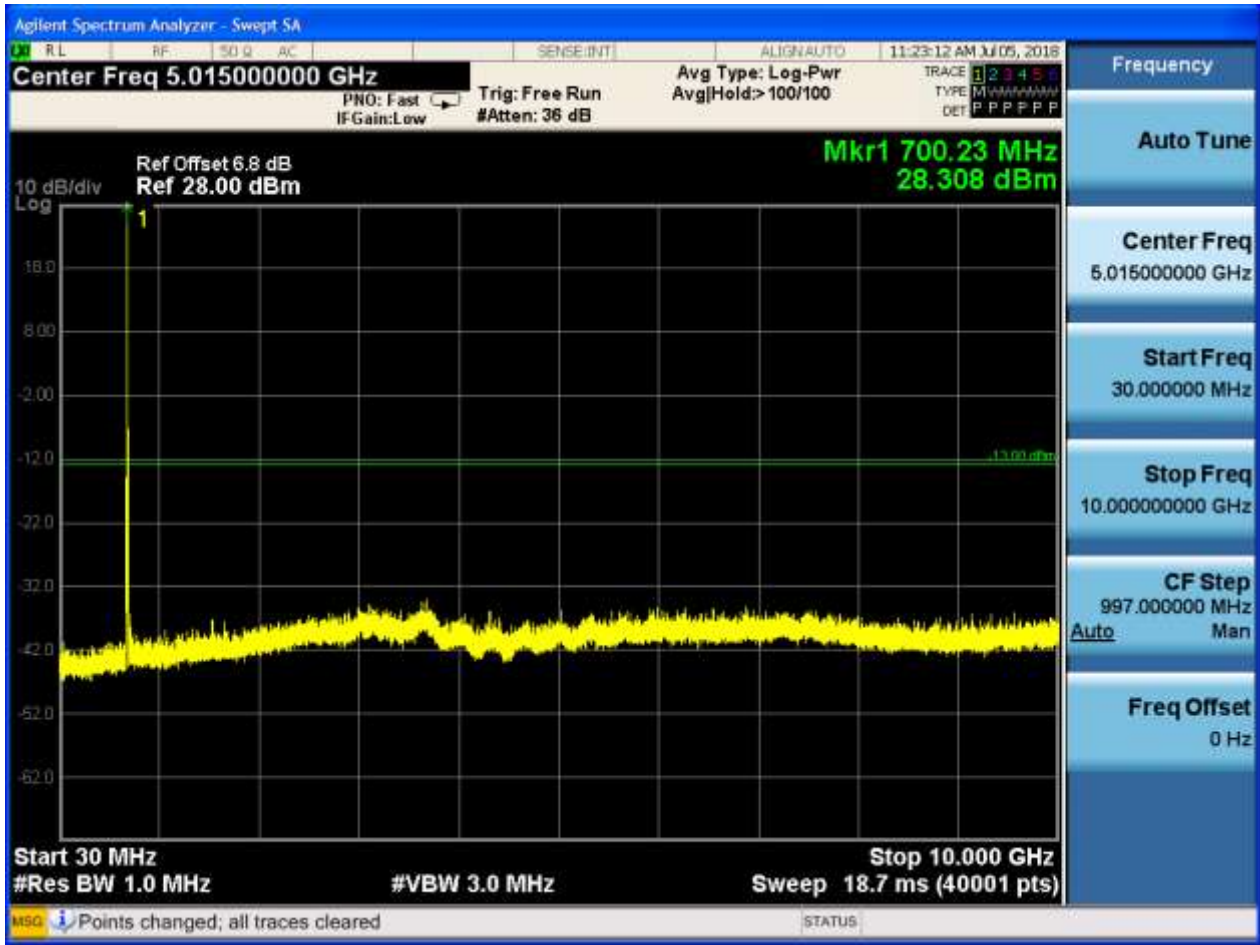
6.1.1.1.4 Test Bandwidth = 10

6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0



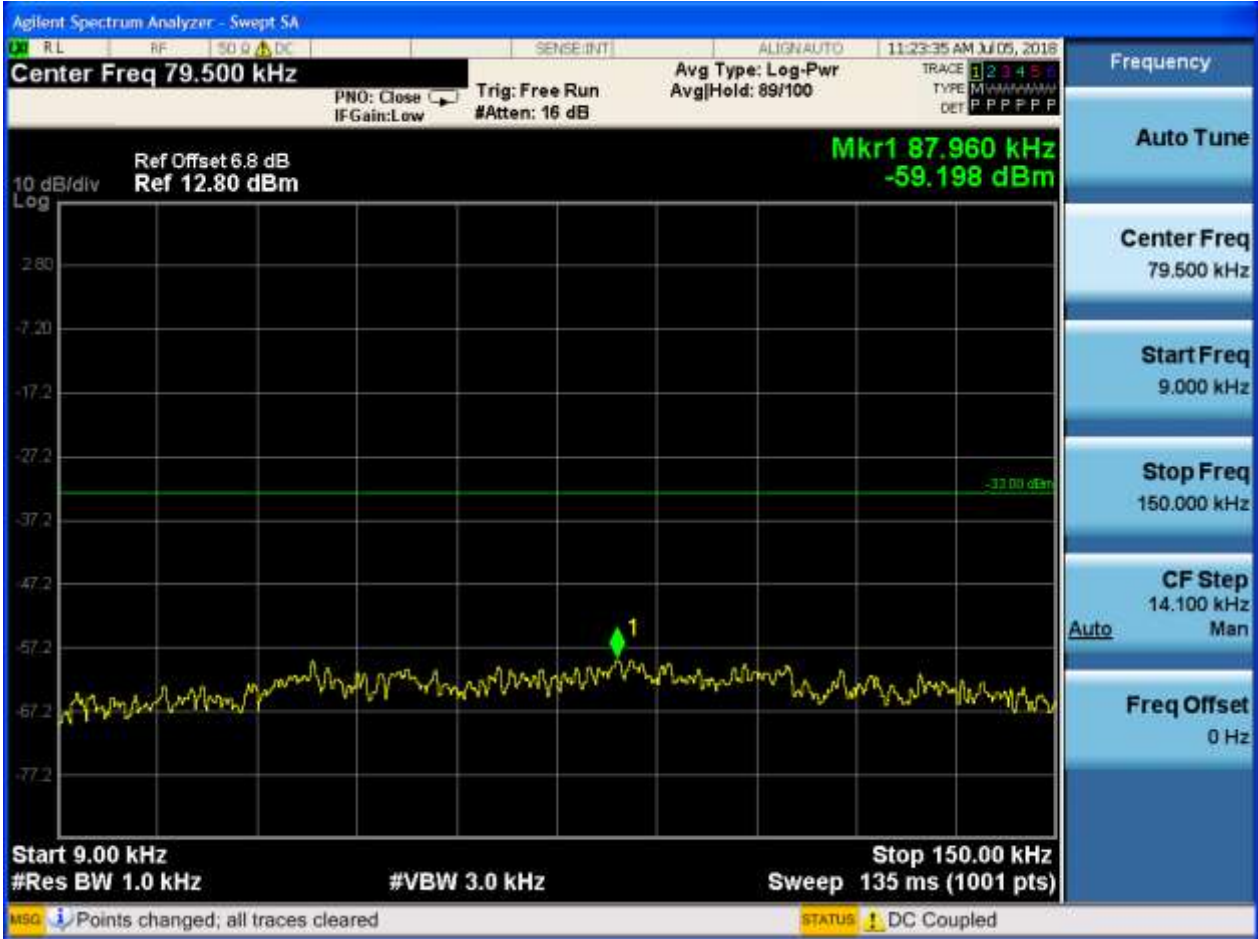


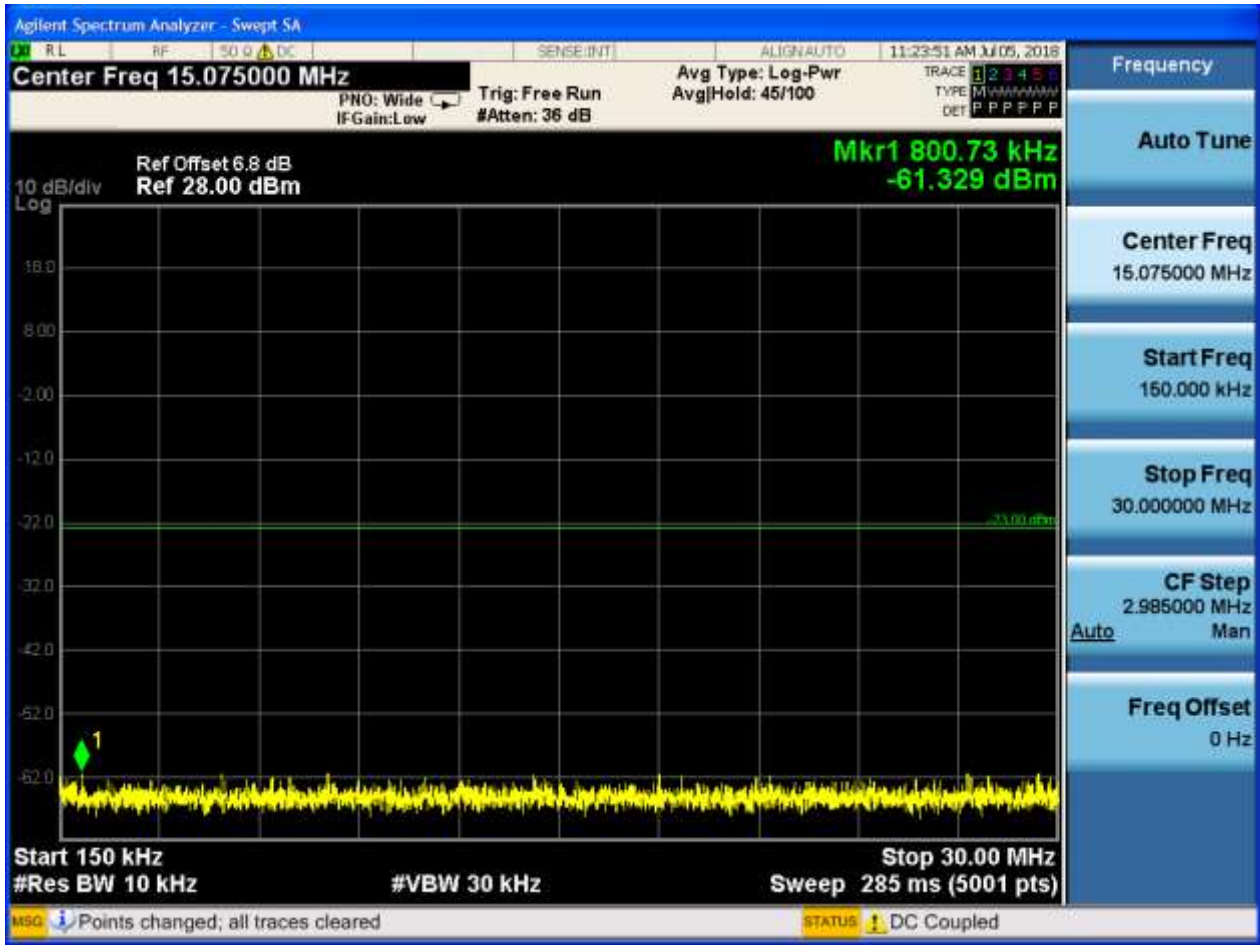




6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



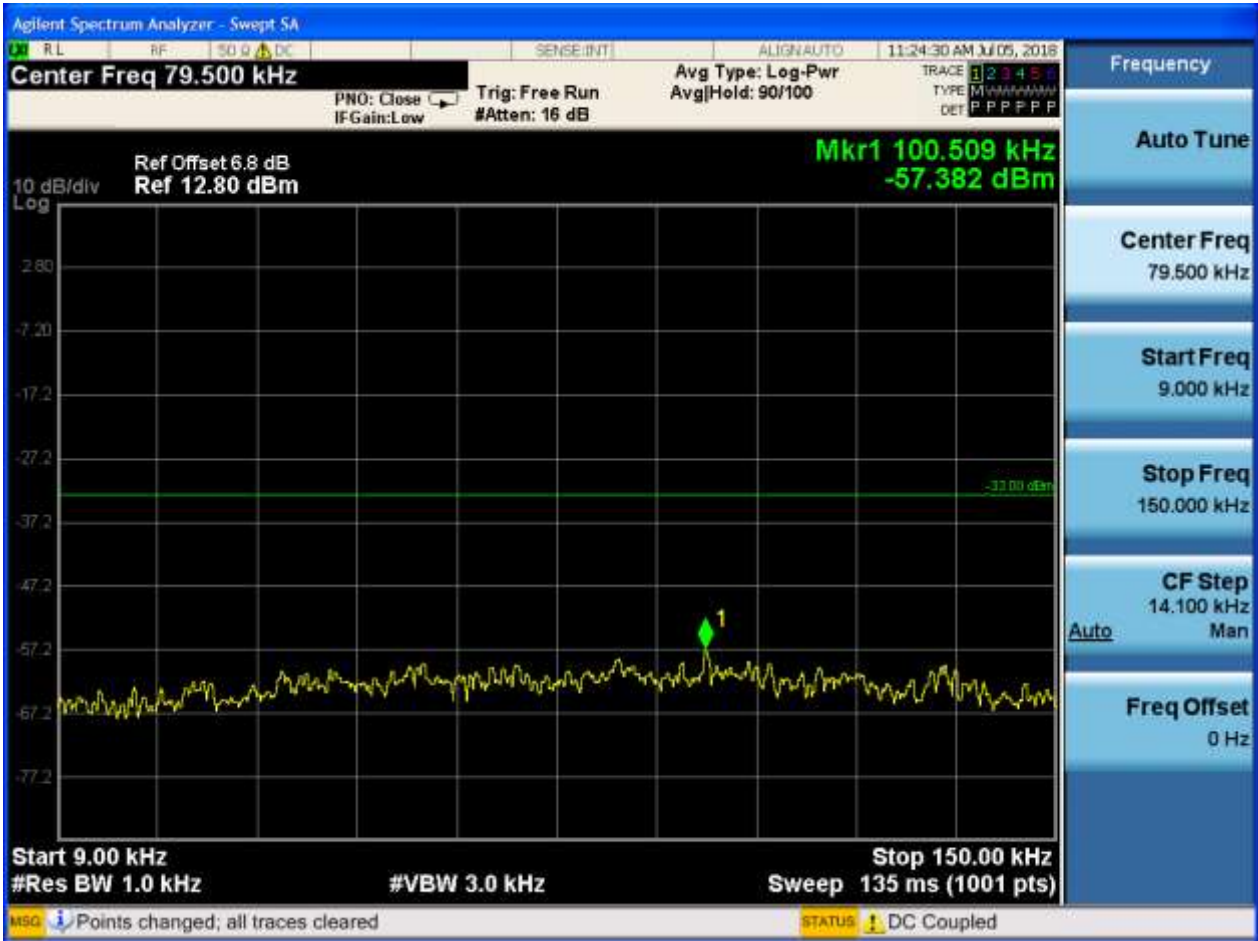


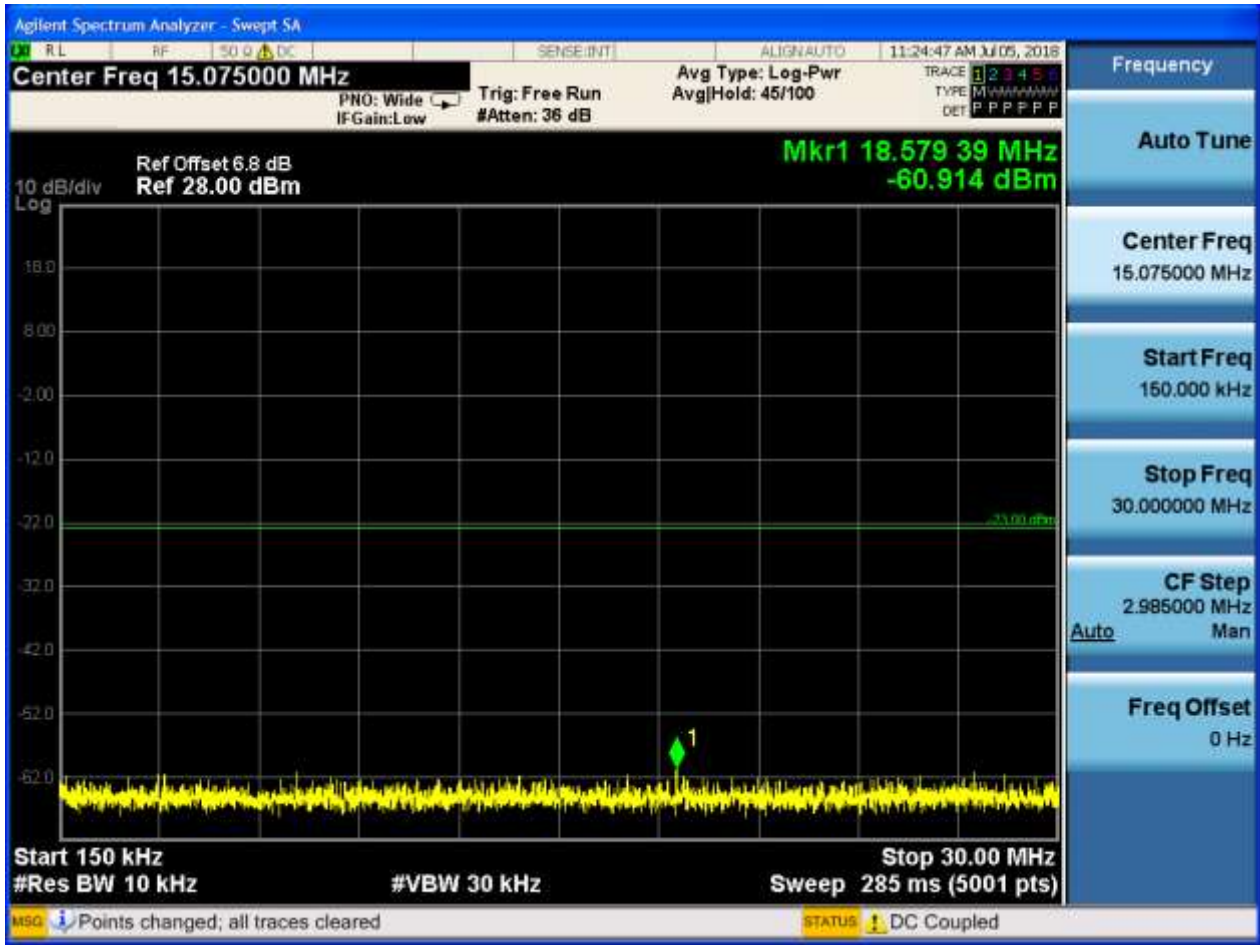


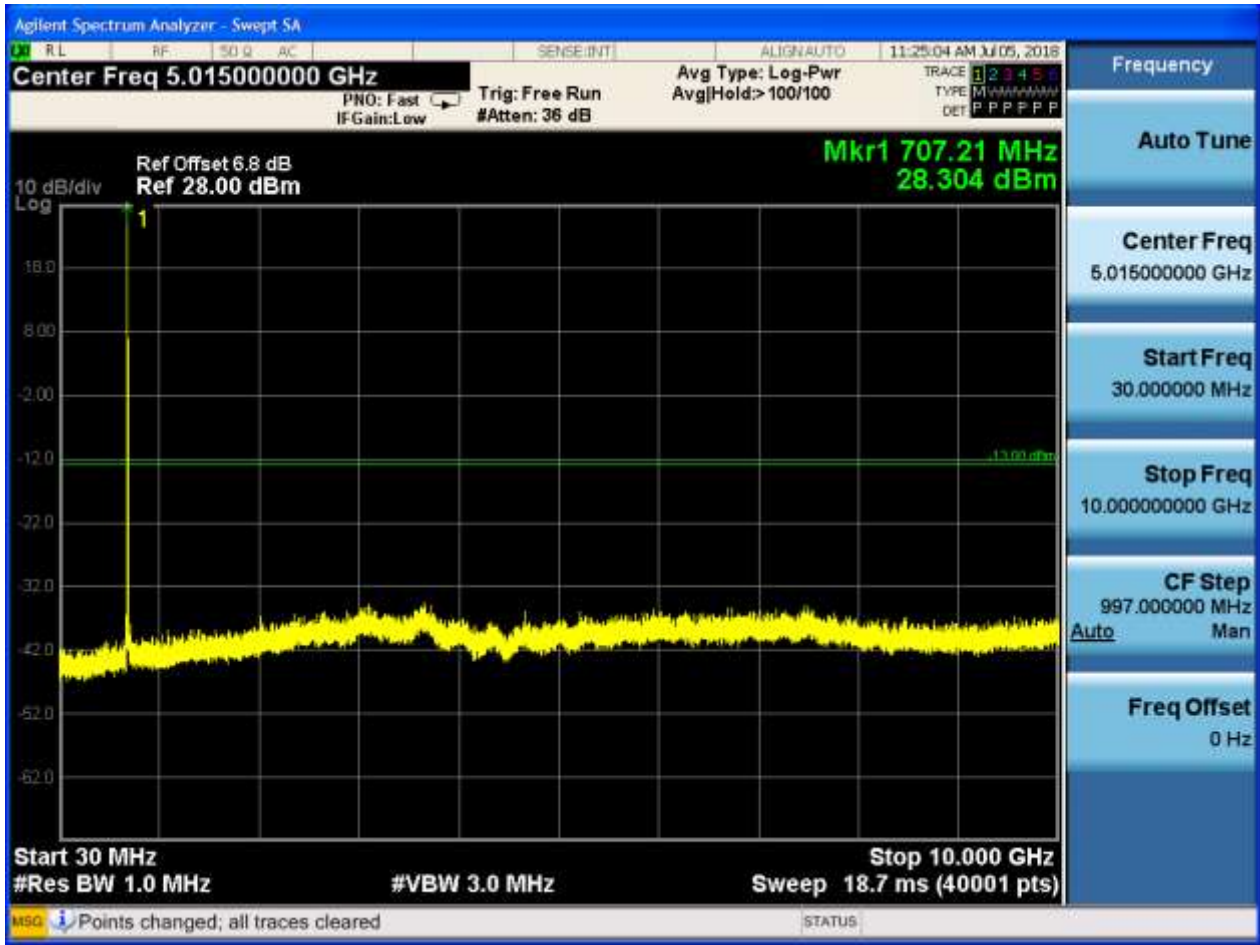


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









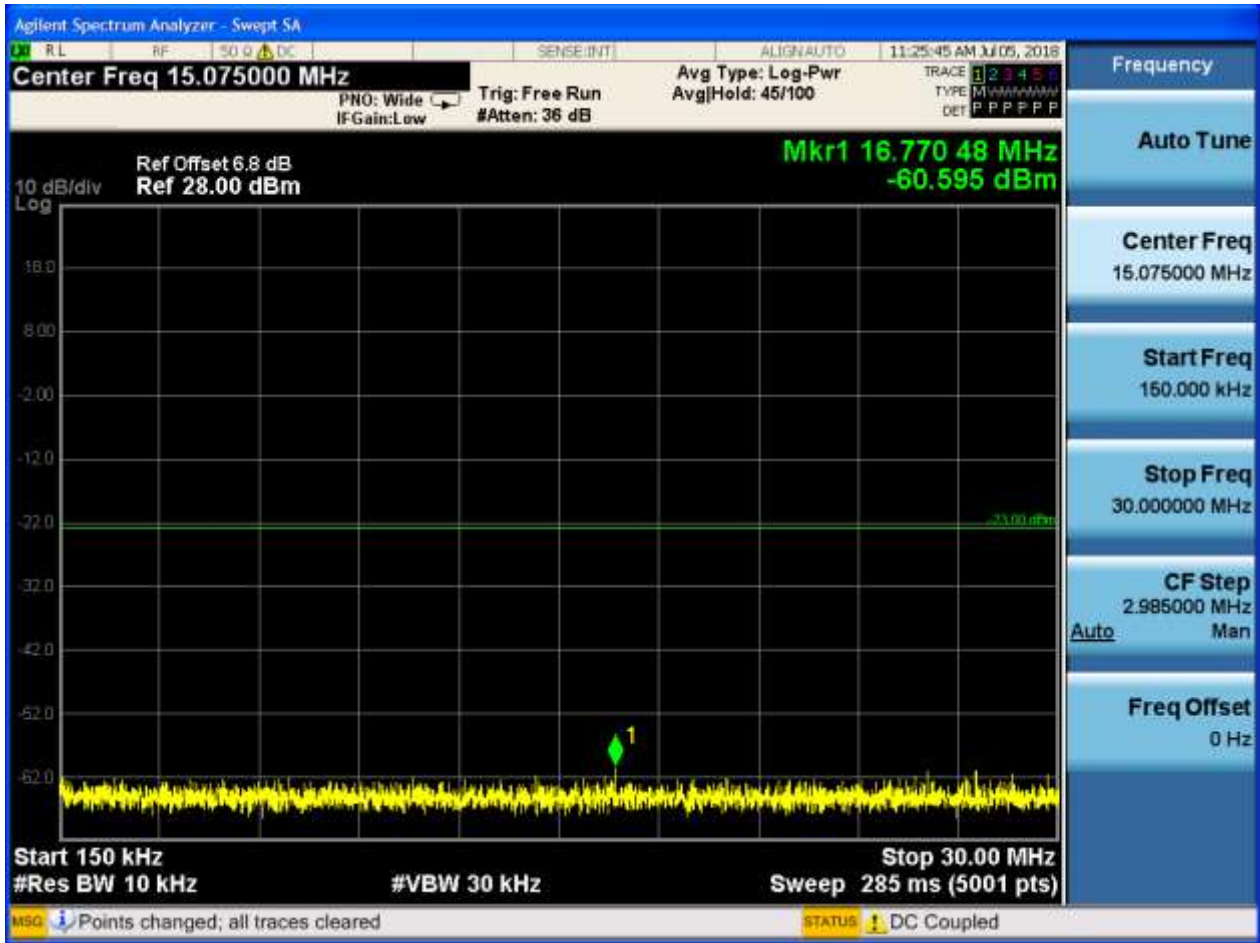
6.1.1.2 Test Mode = LTE/TM2

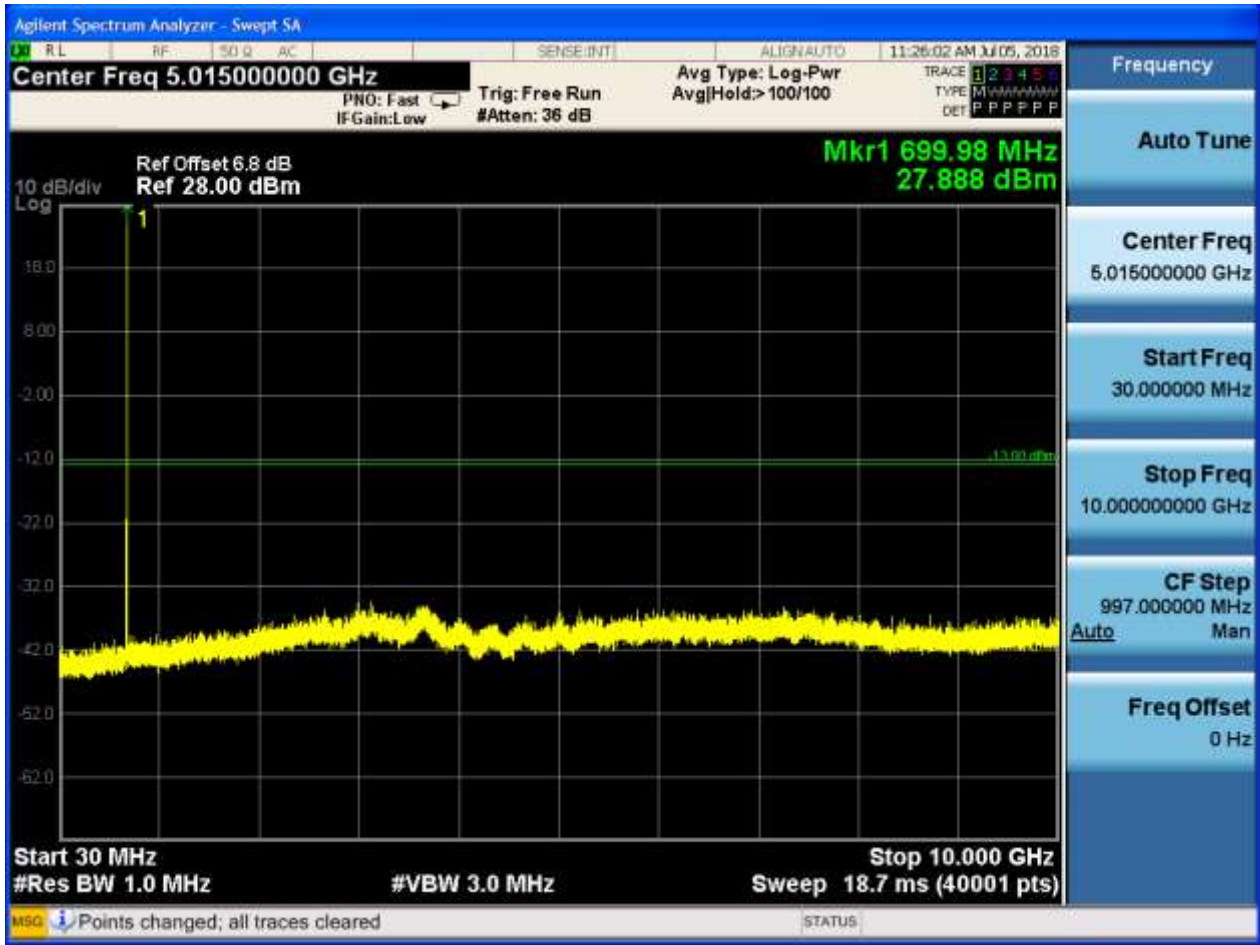
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





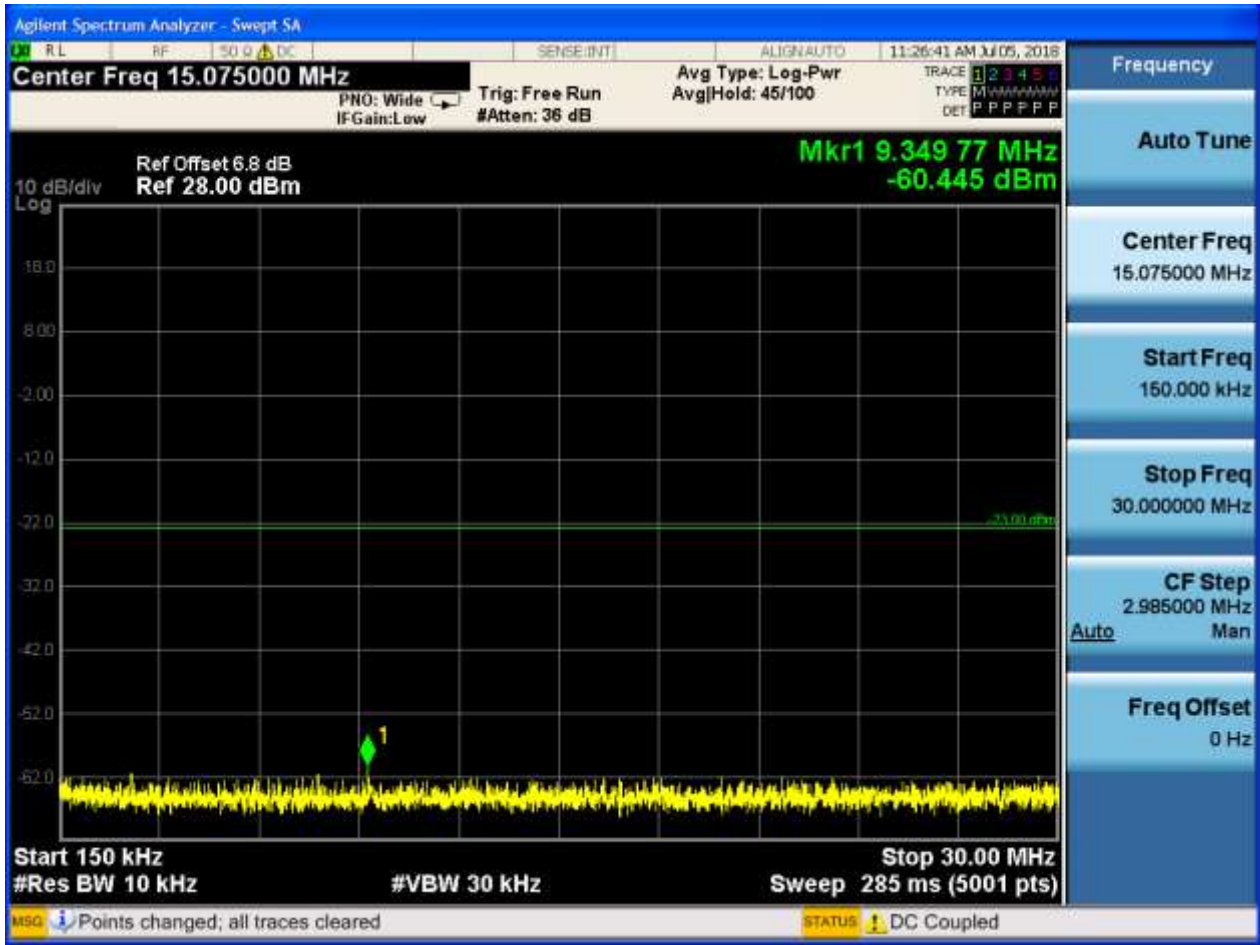


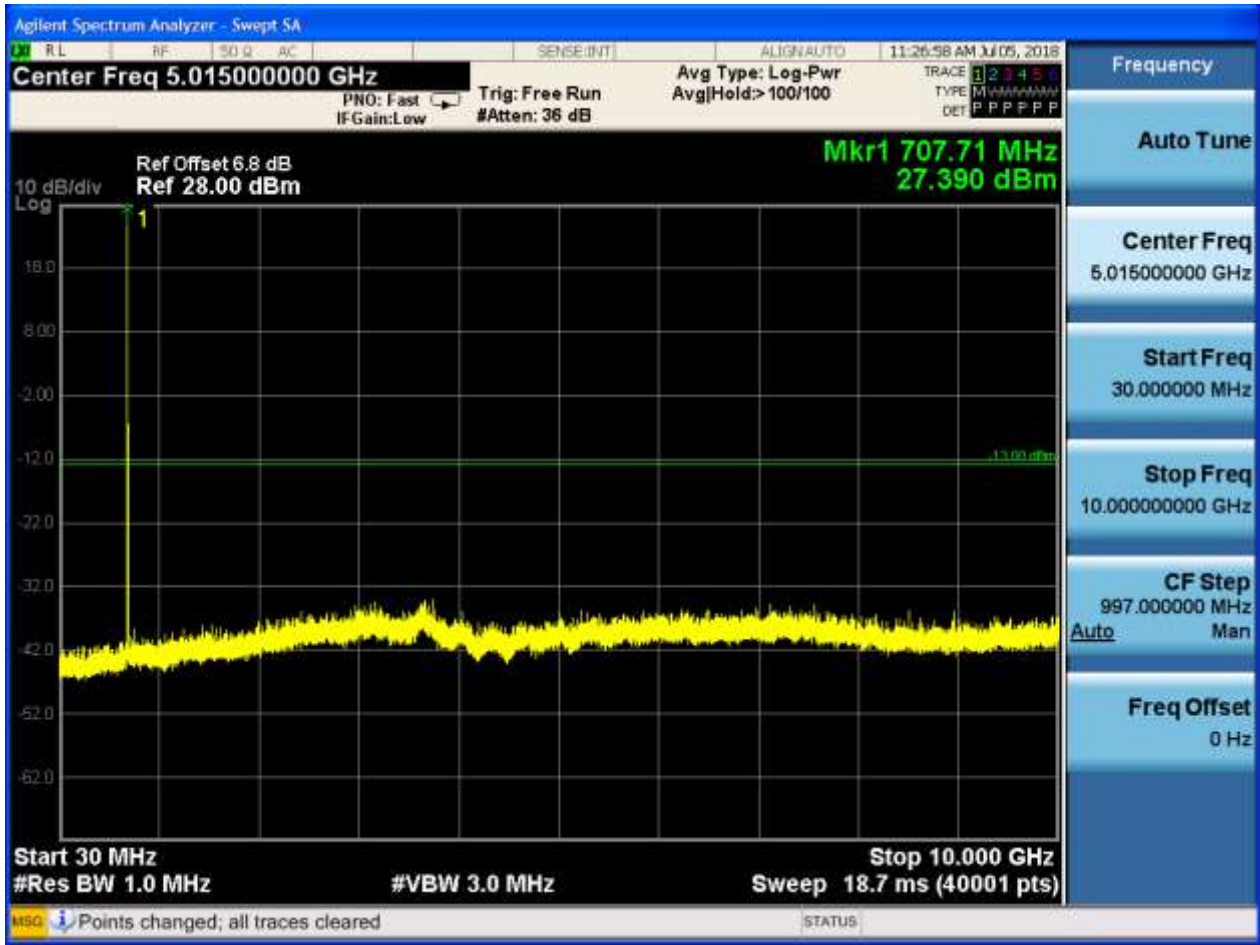


6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0



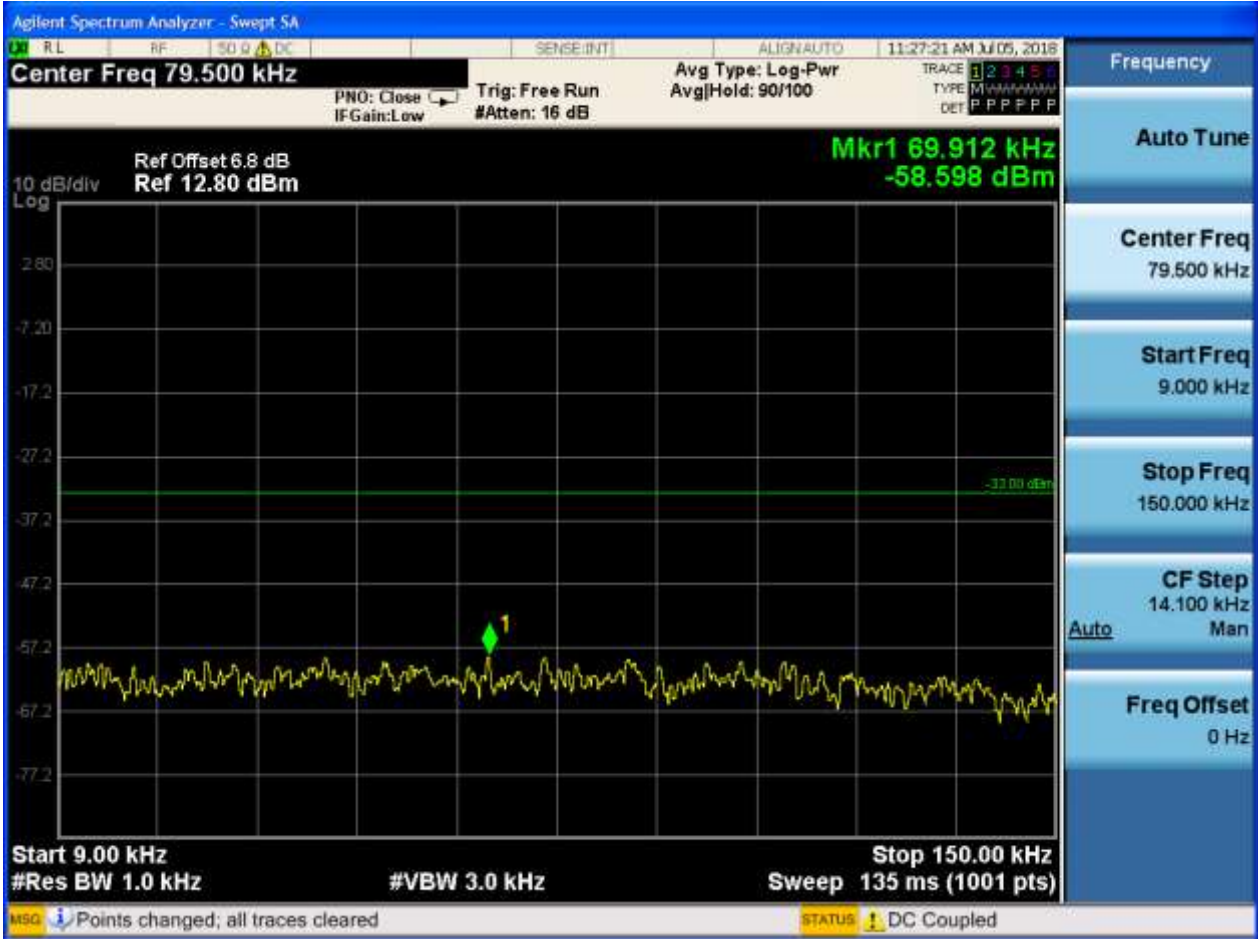


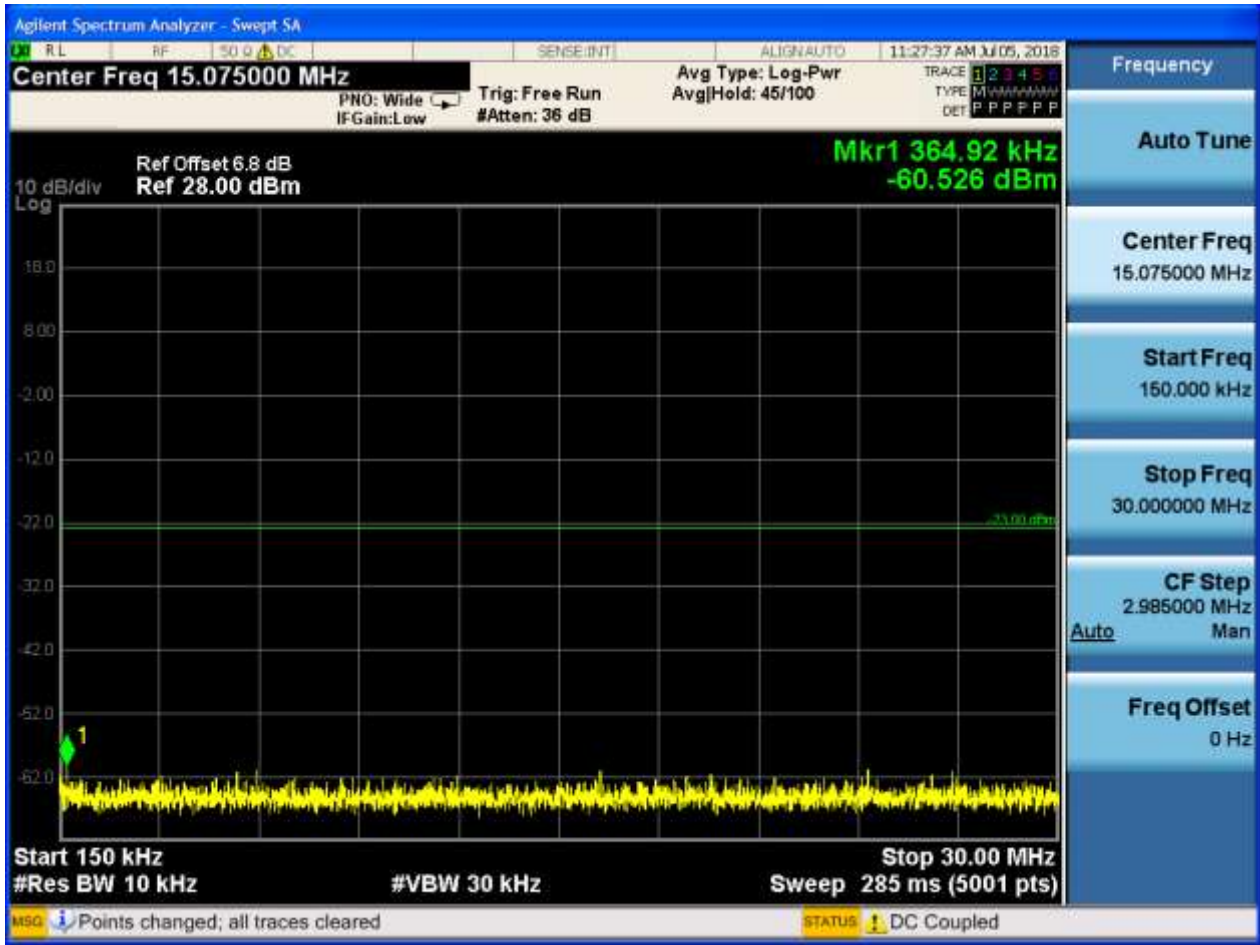




6.1.1.2.1.3 Test Channel = HCH

6.1.1.2.1.3.1 Test RB = RB1#0







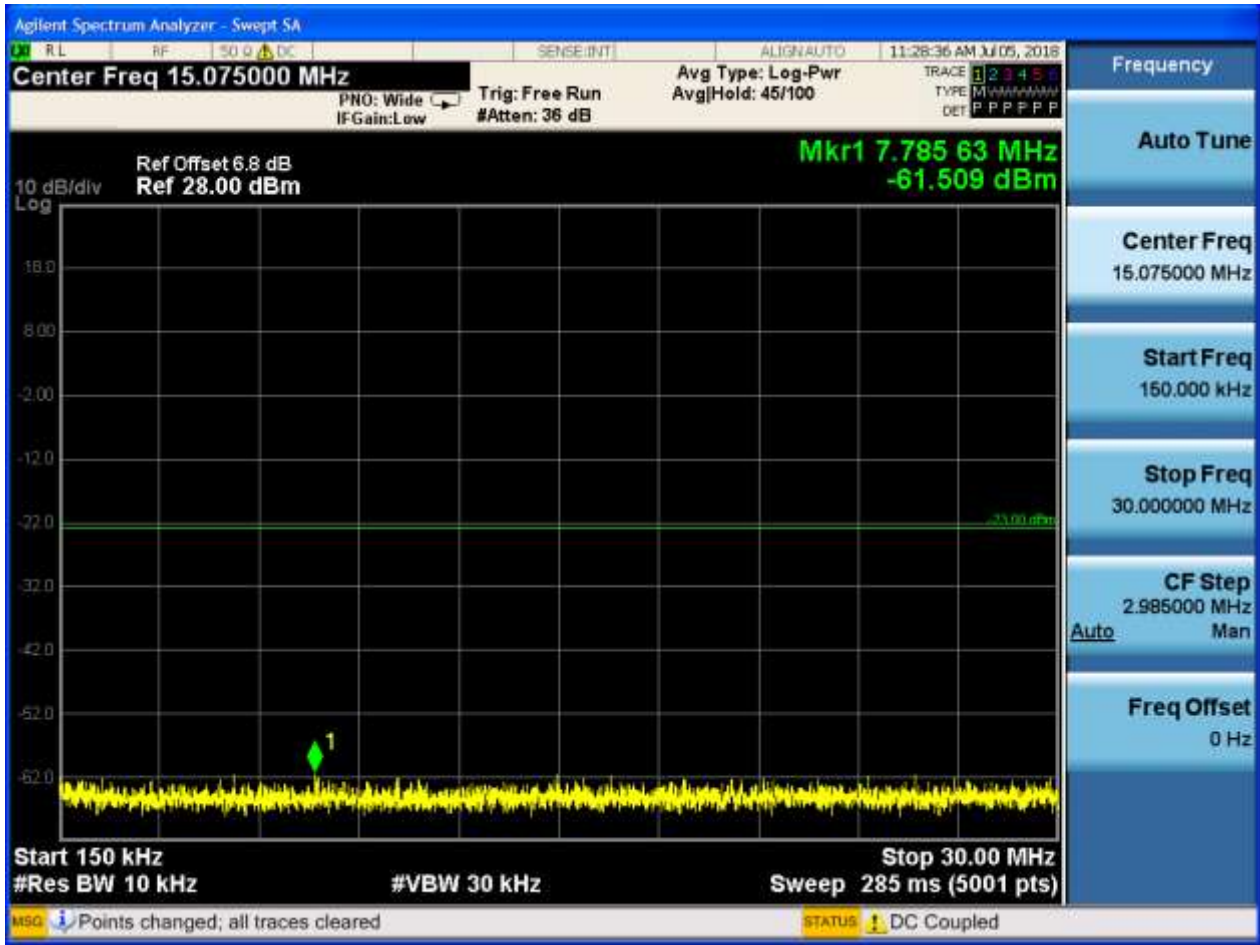


6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0



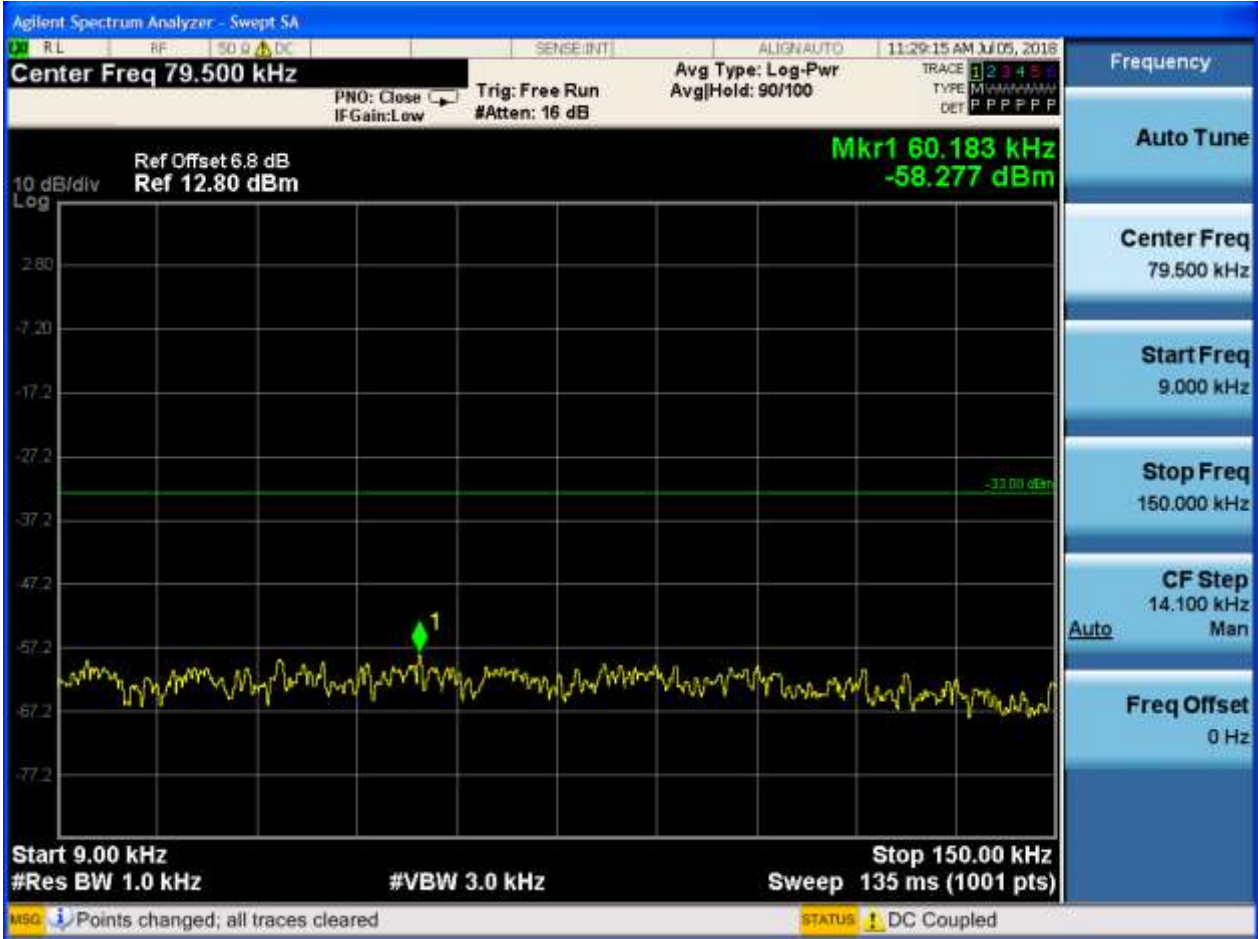


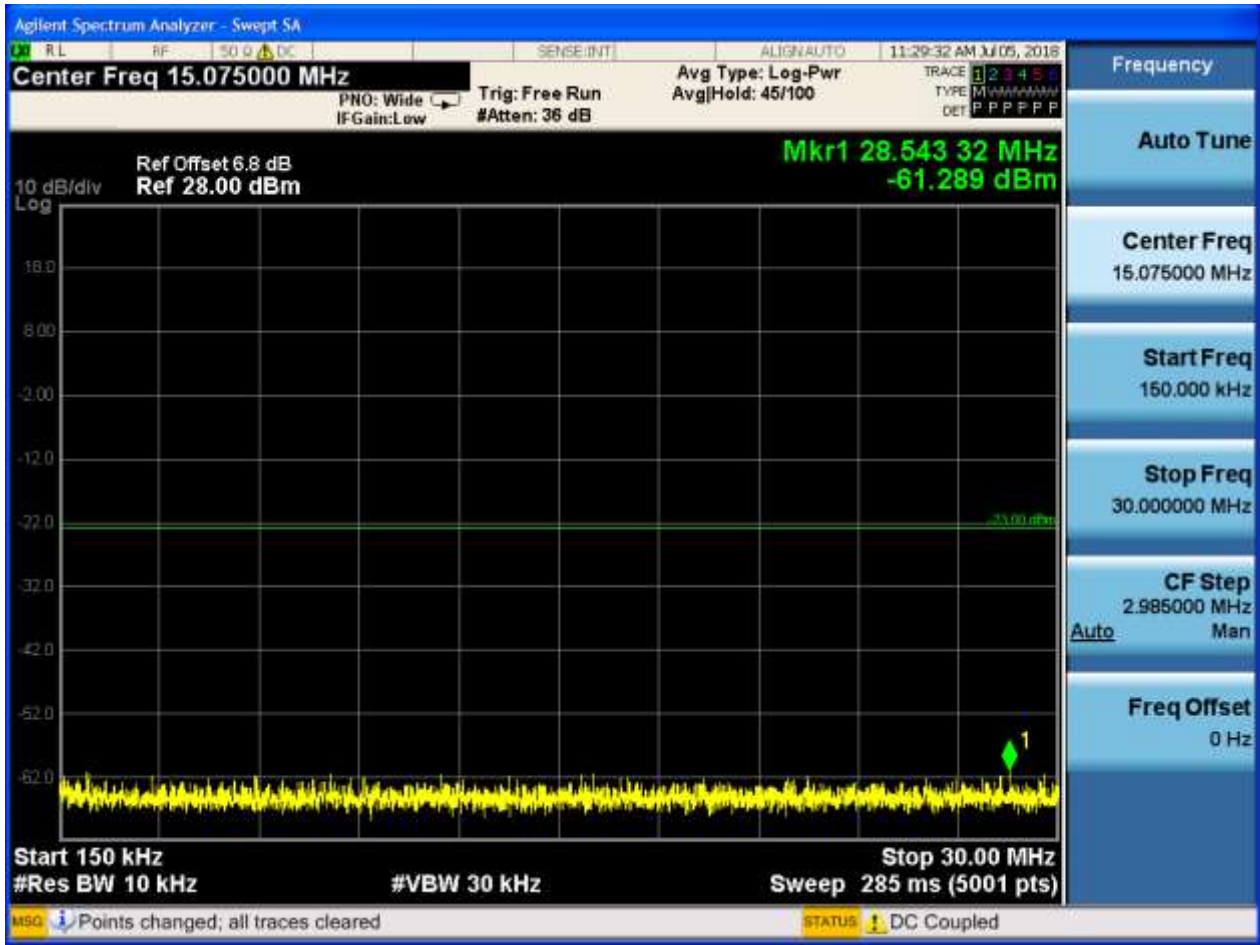


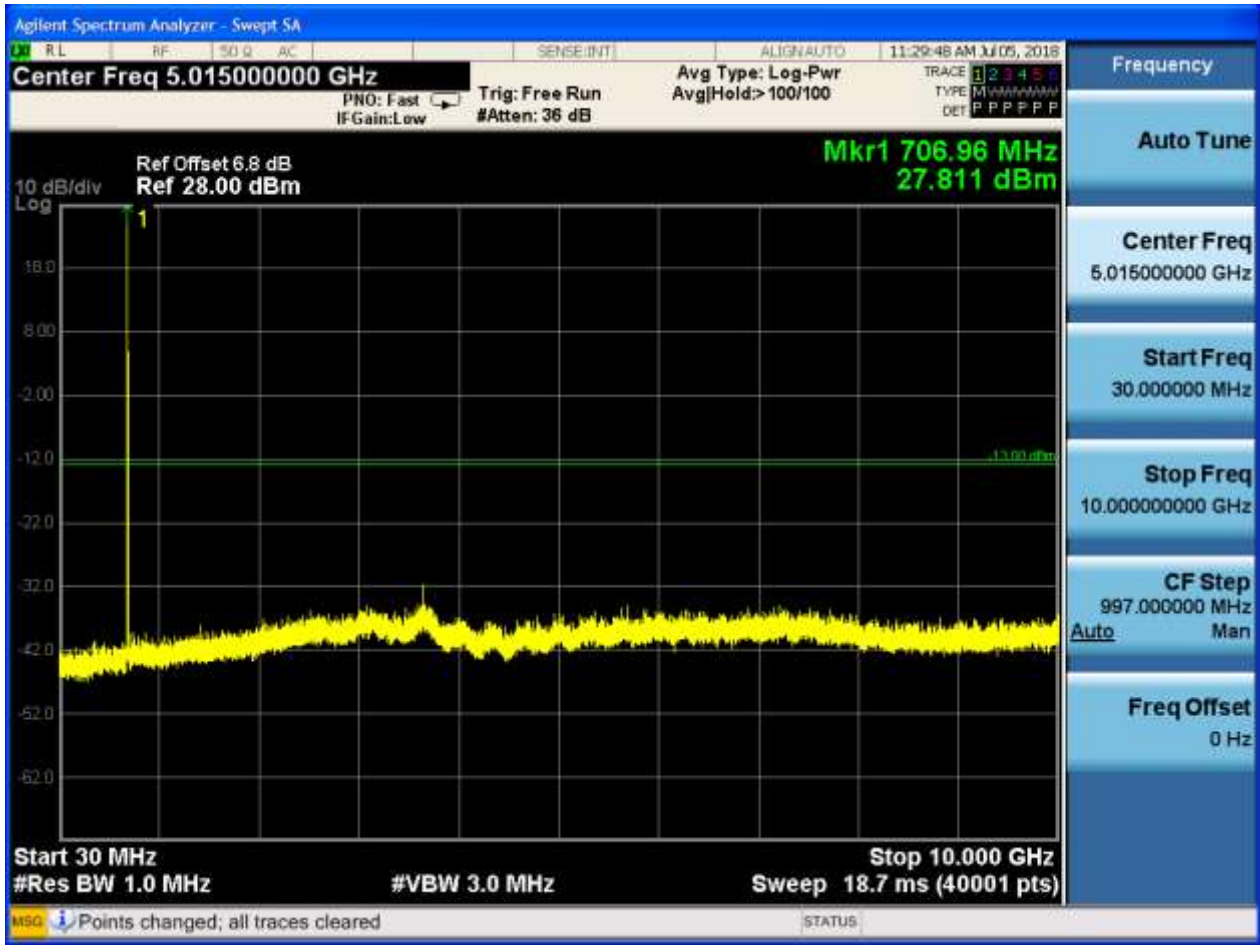


6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0

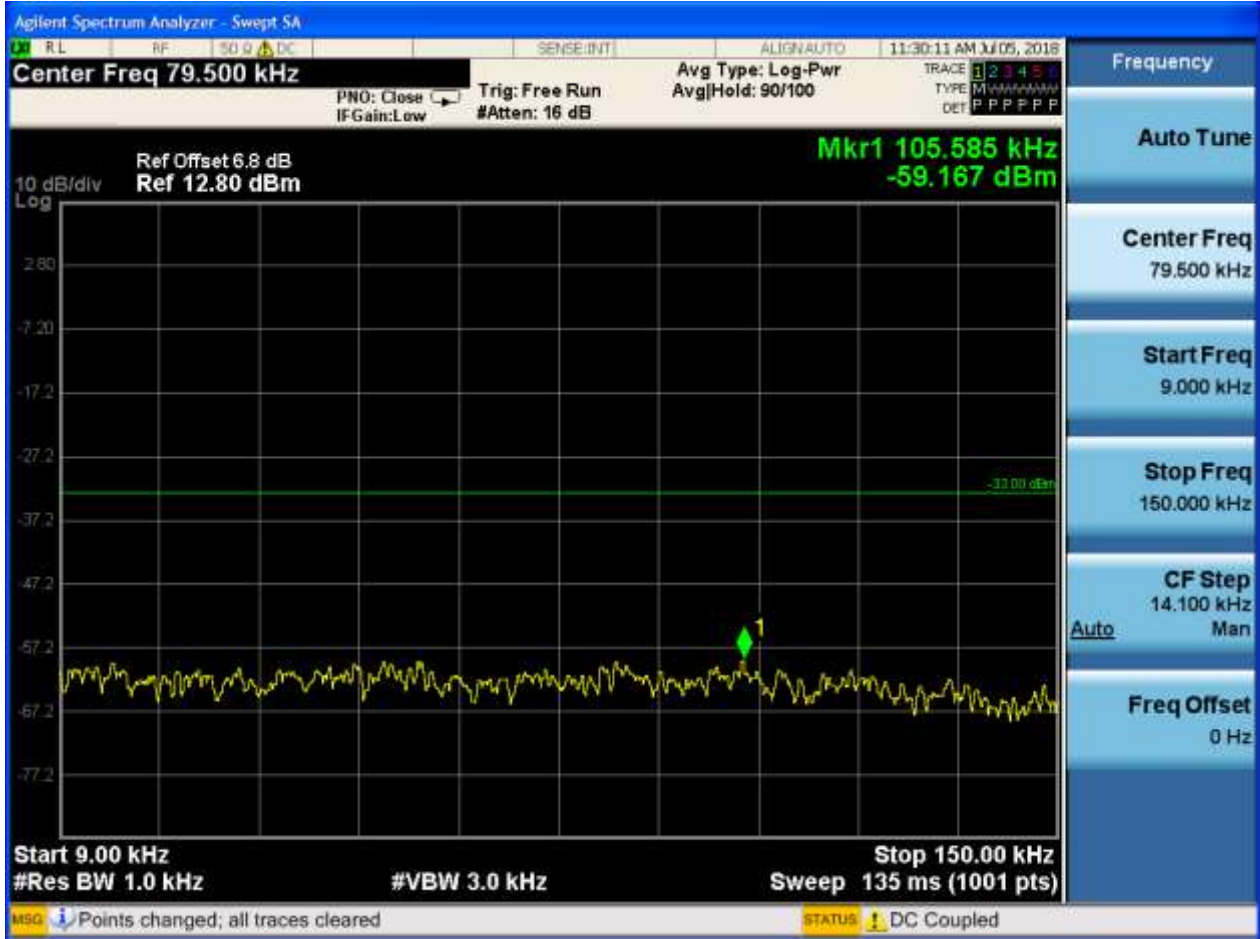


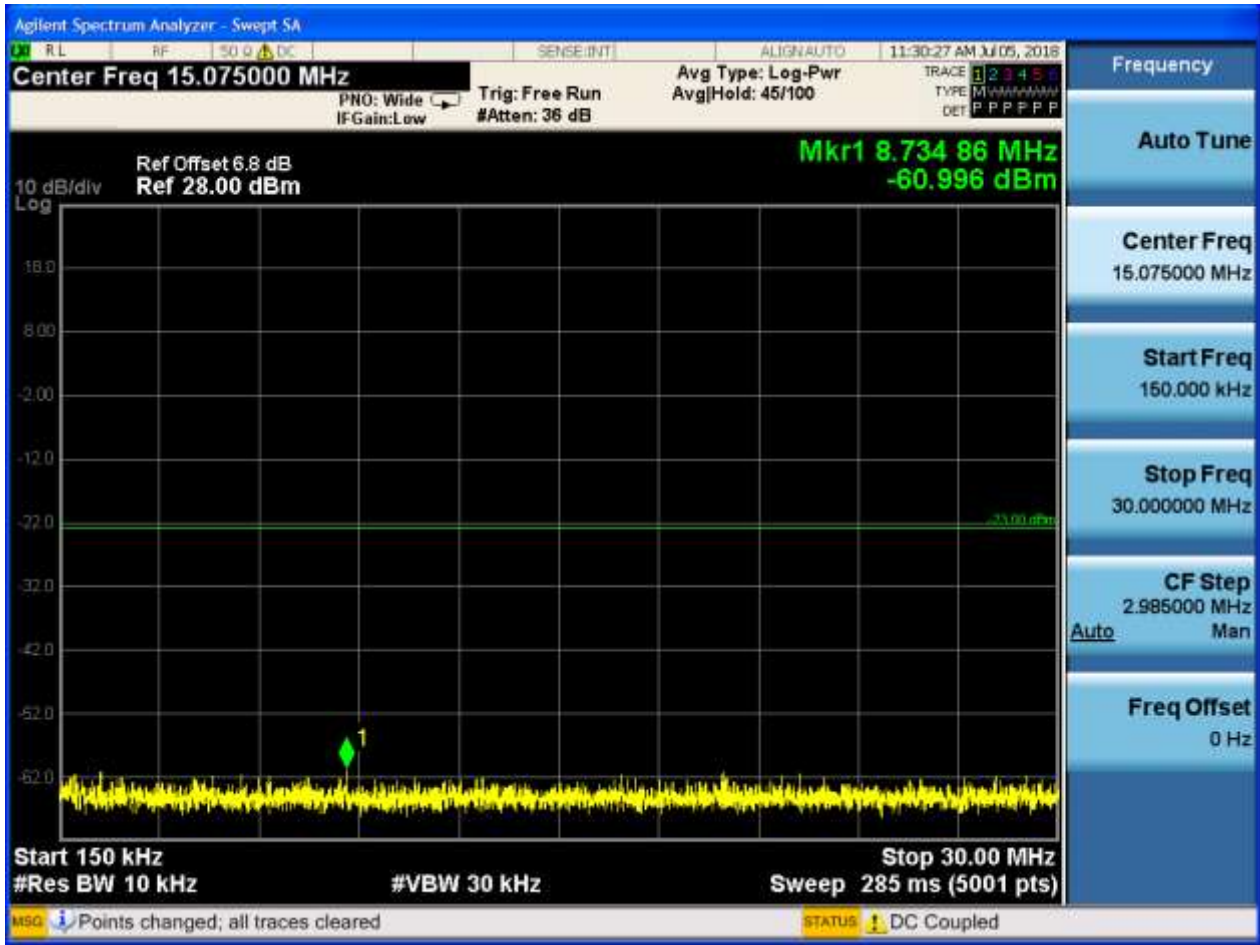


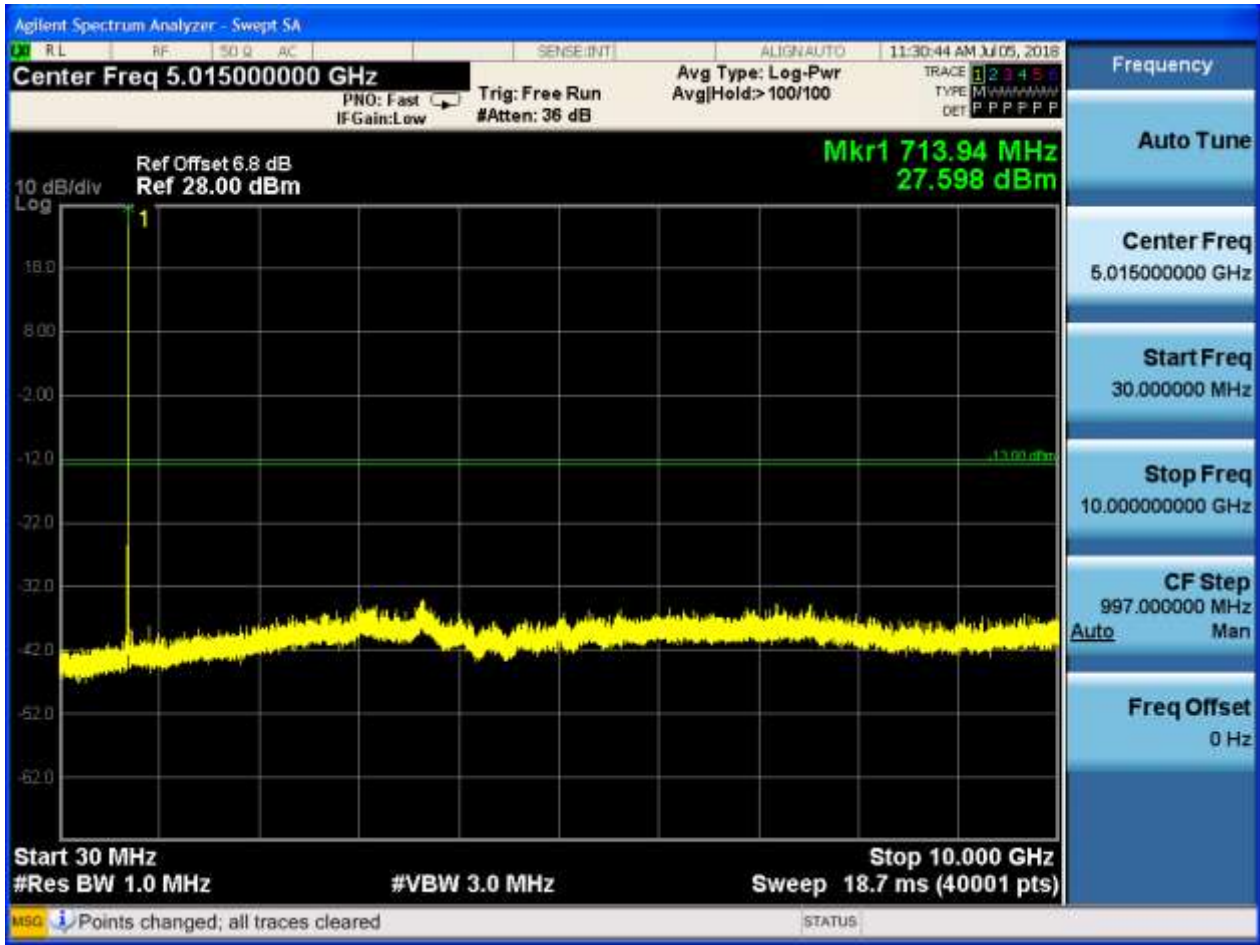


6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







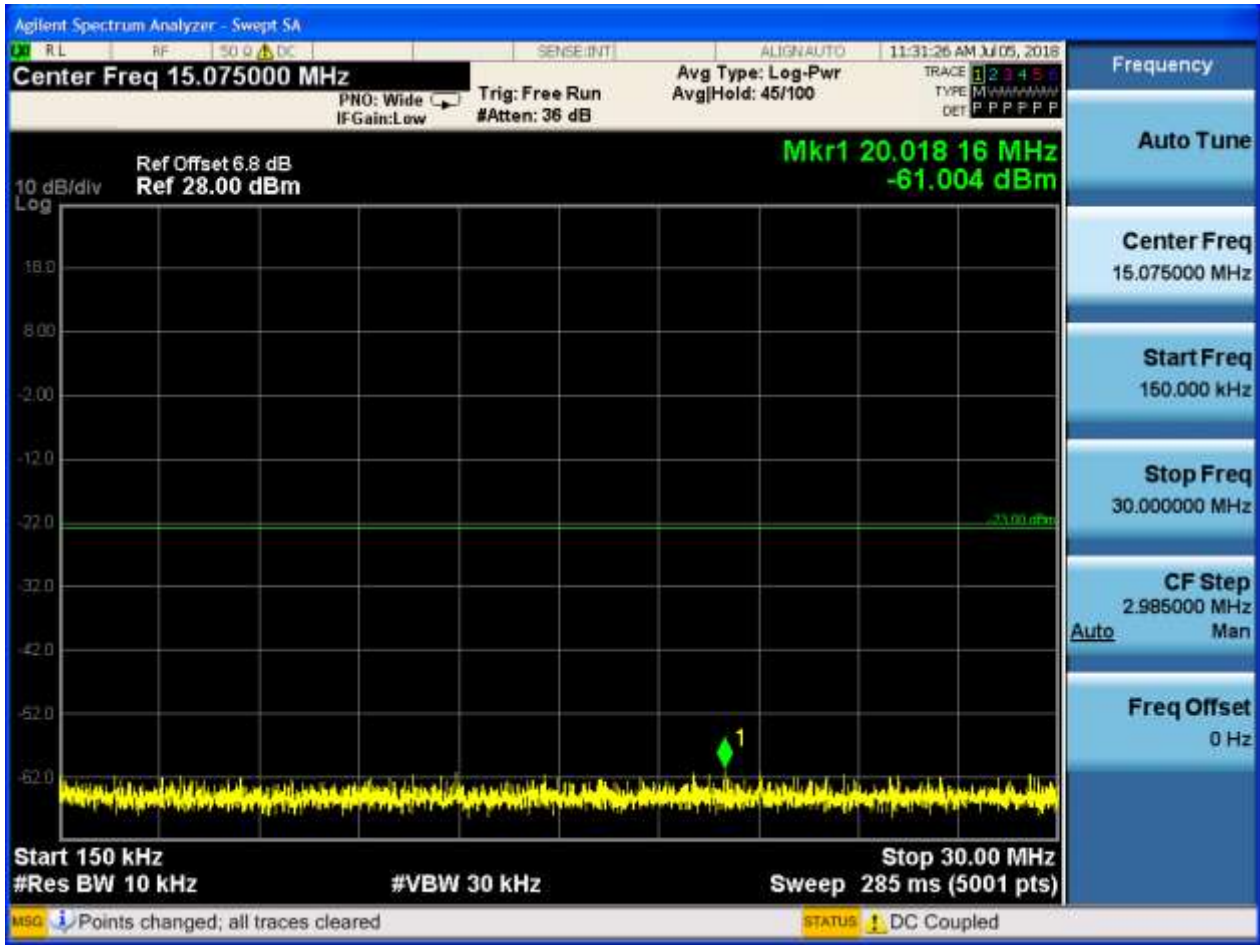


6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0



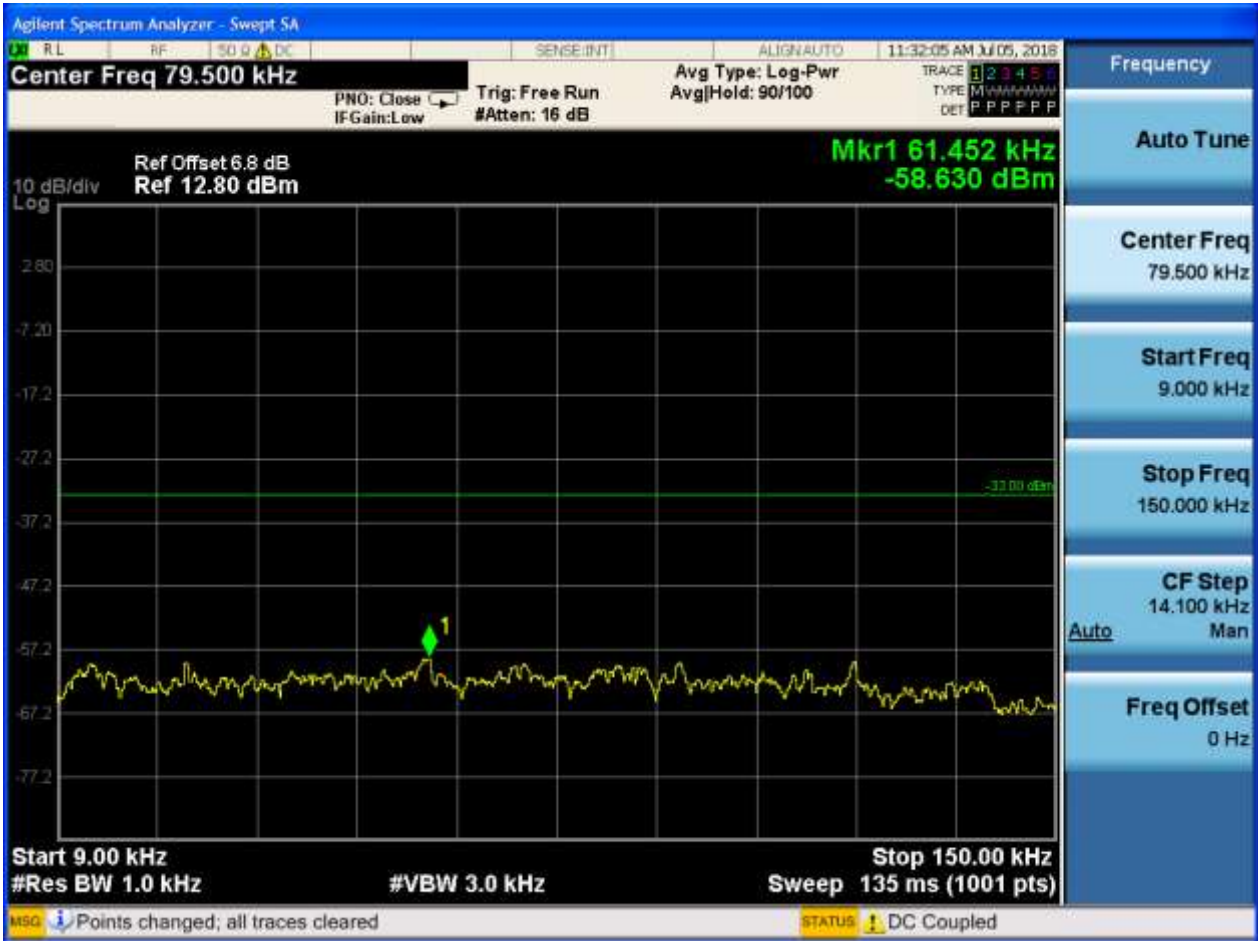


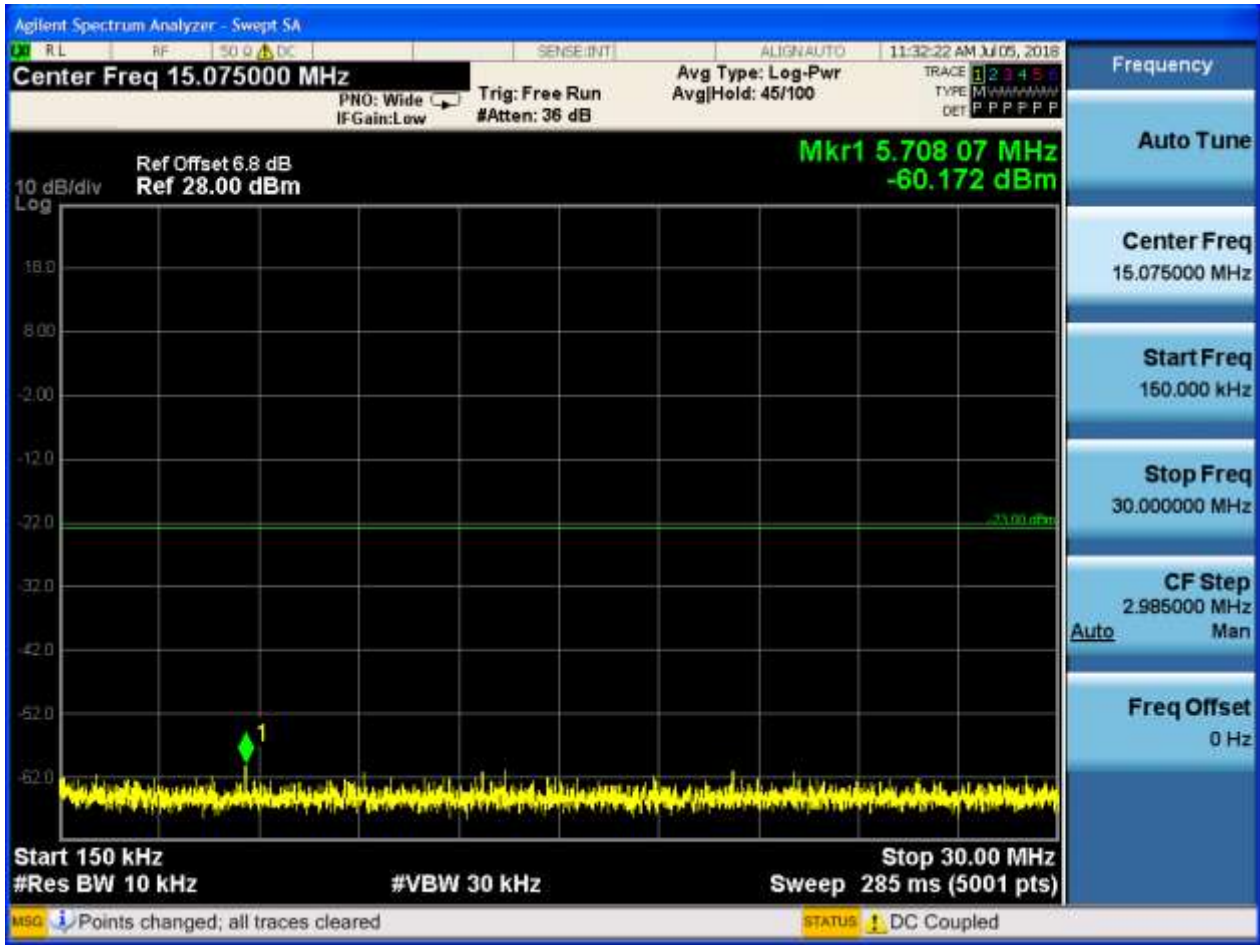


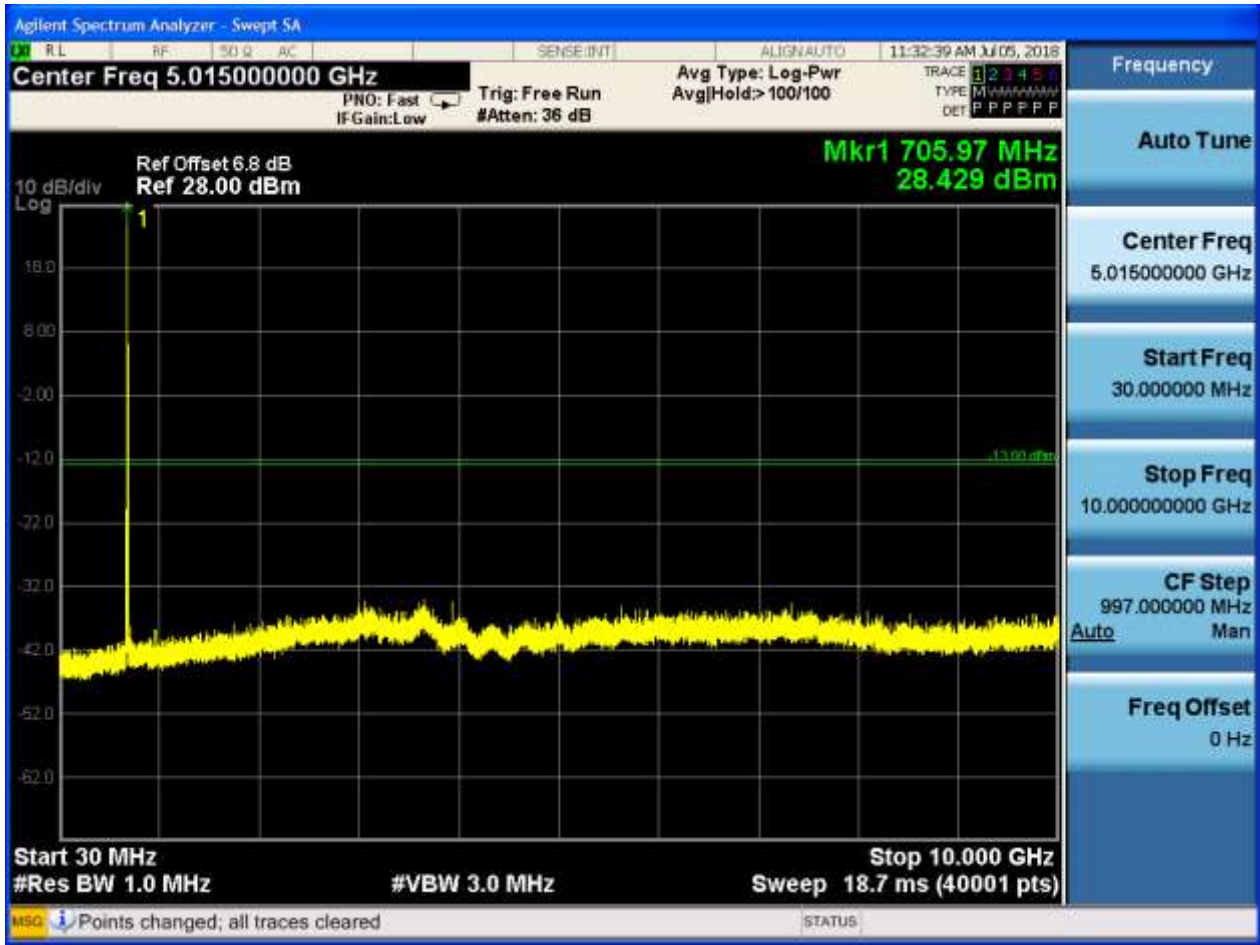


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0



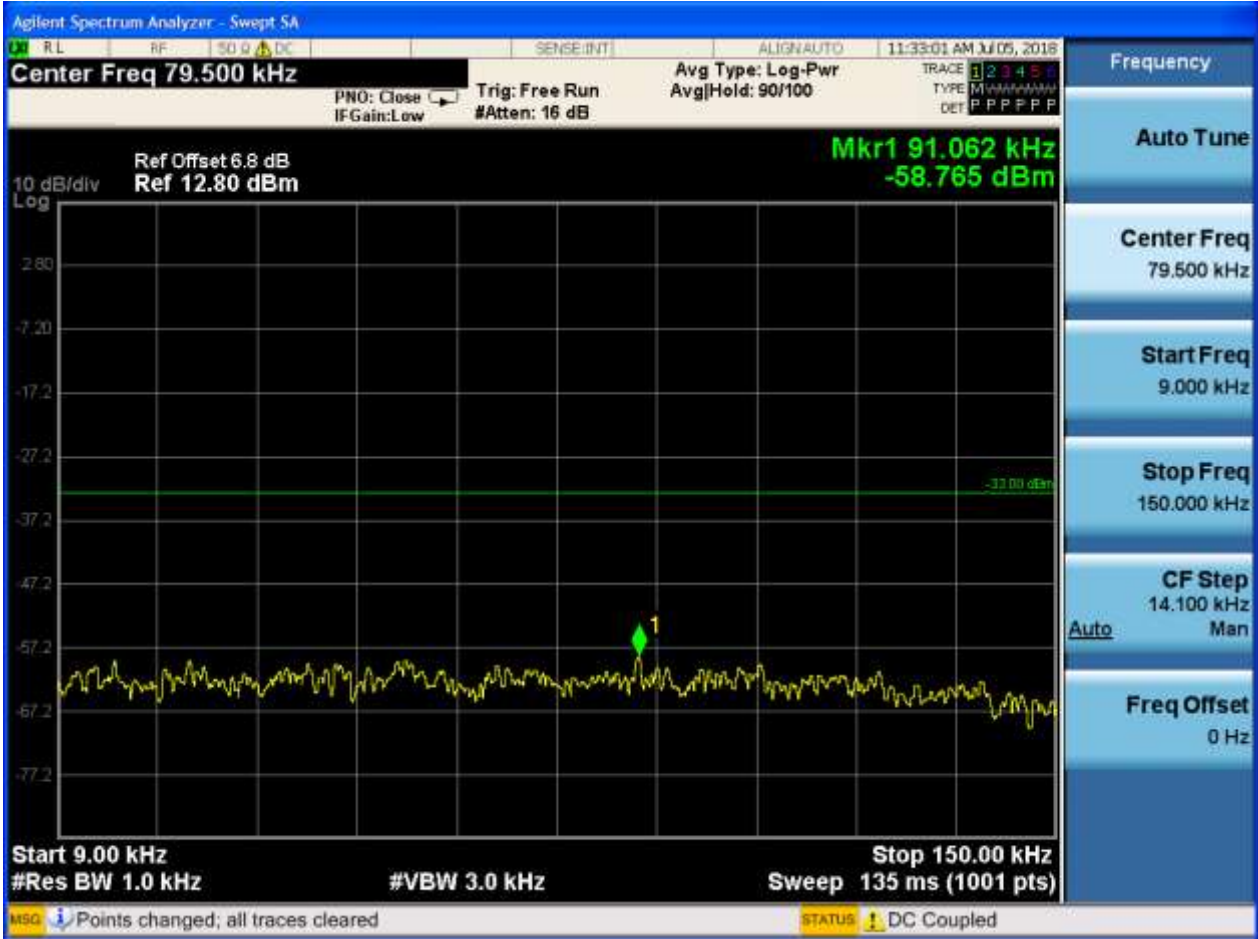


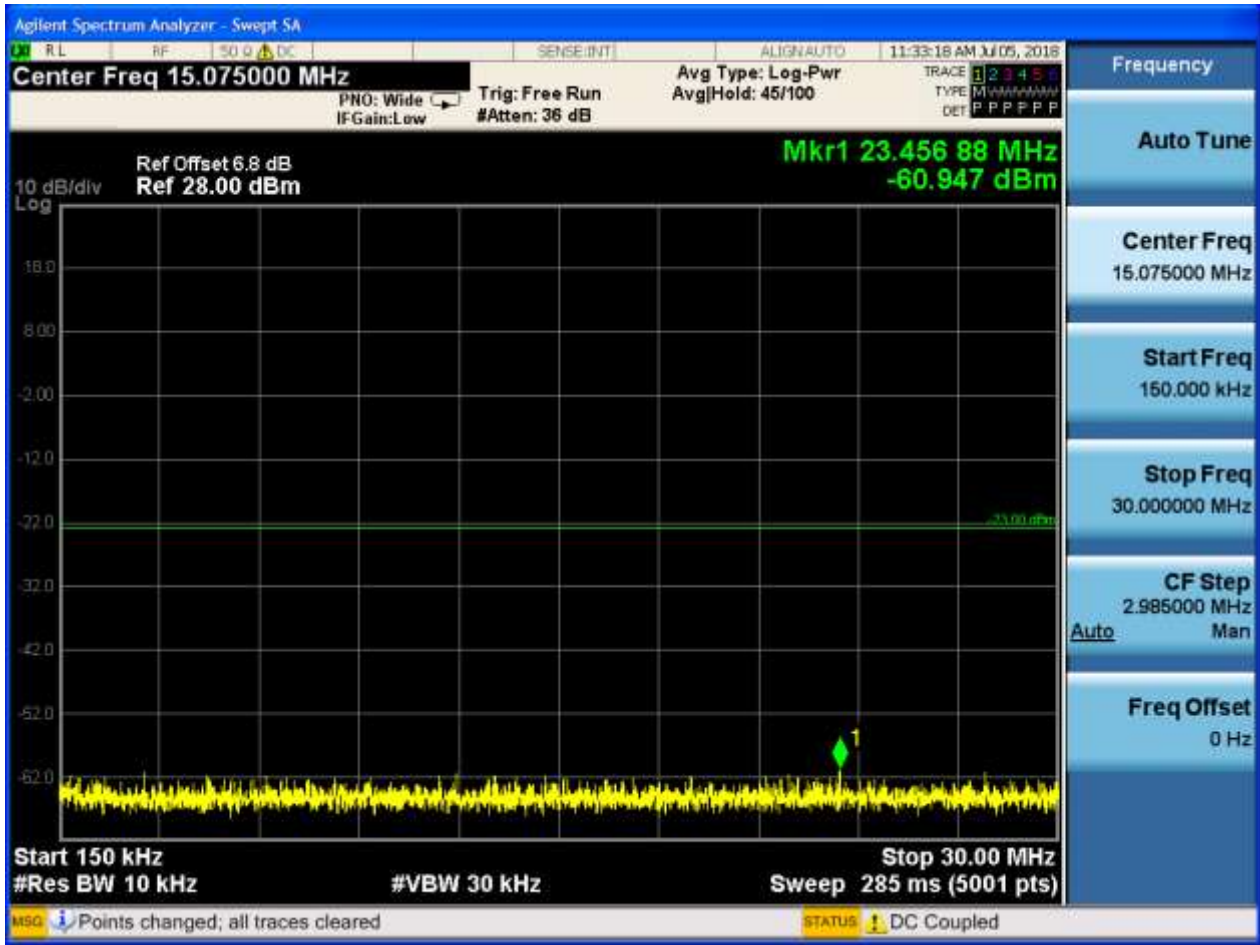


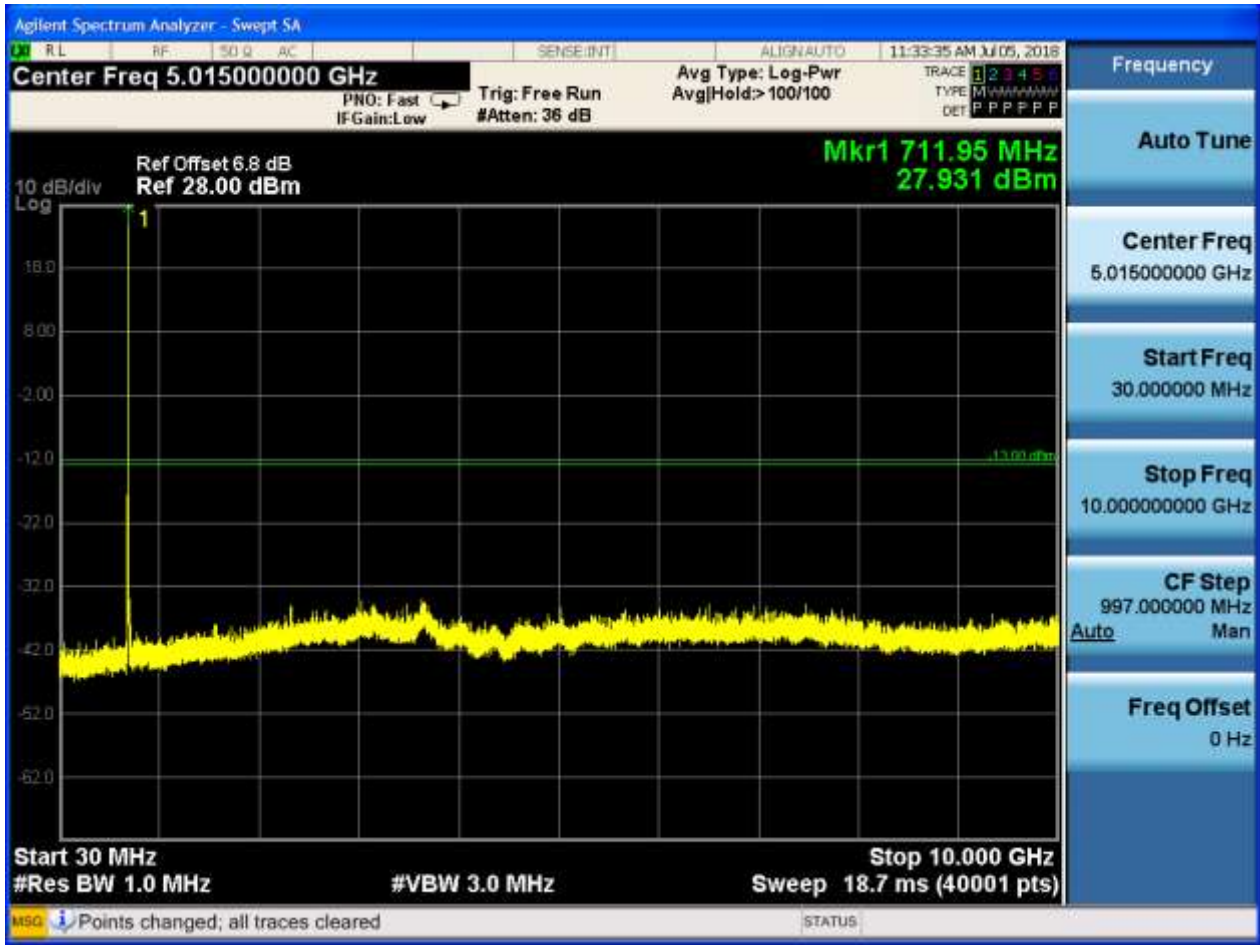


6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0





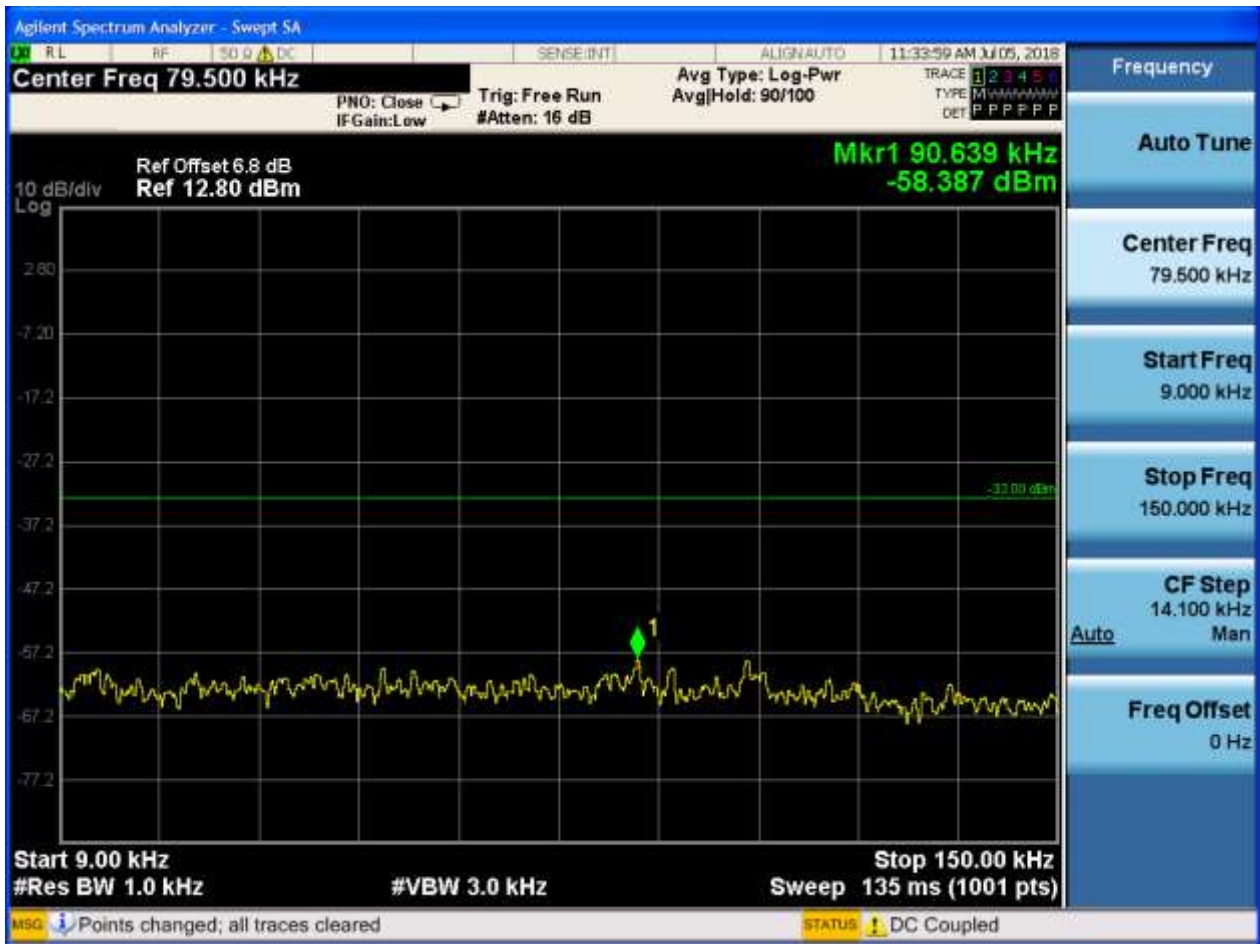


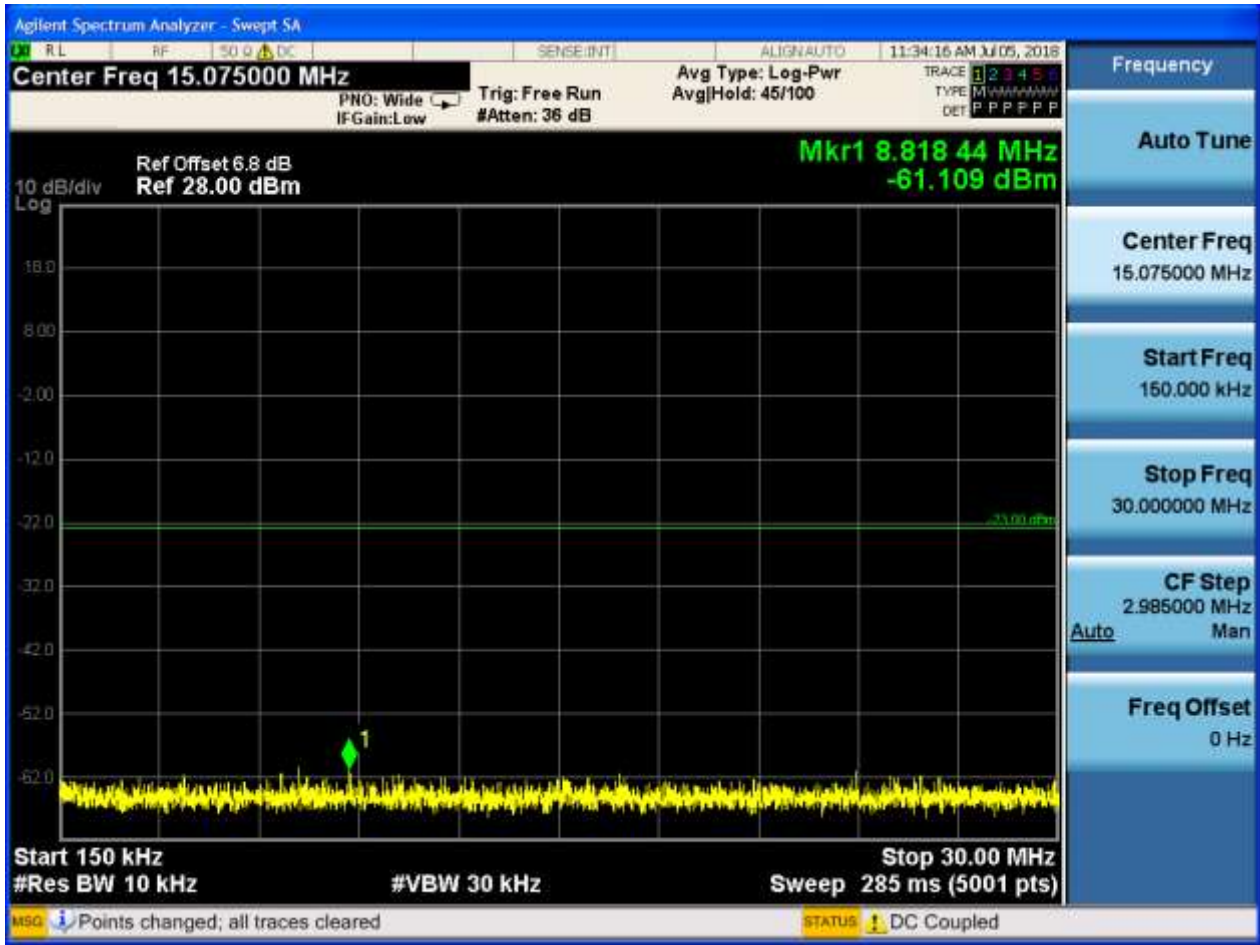


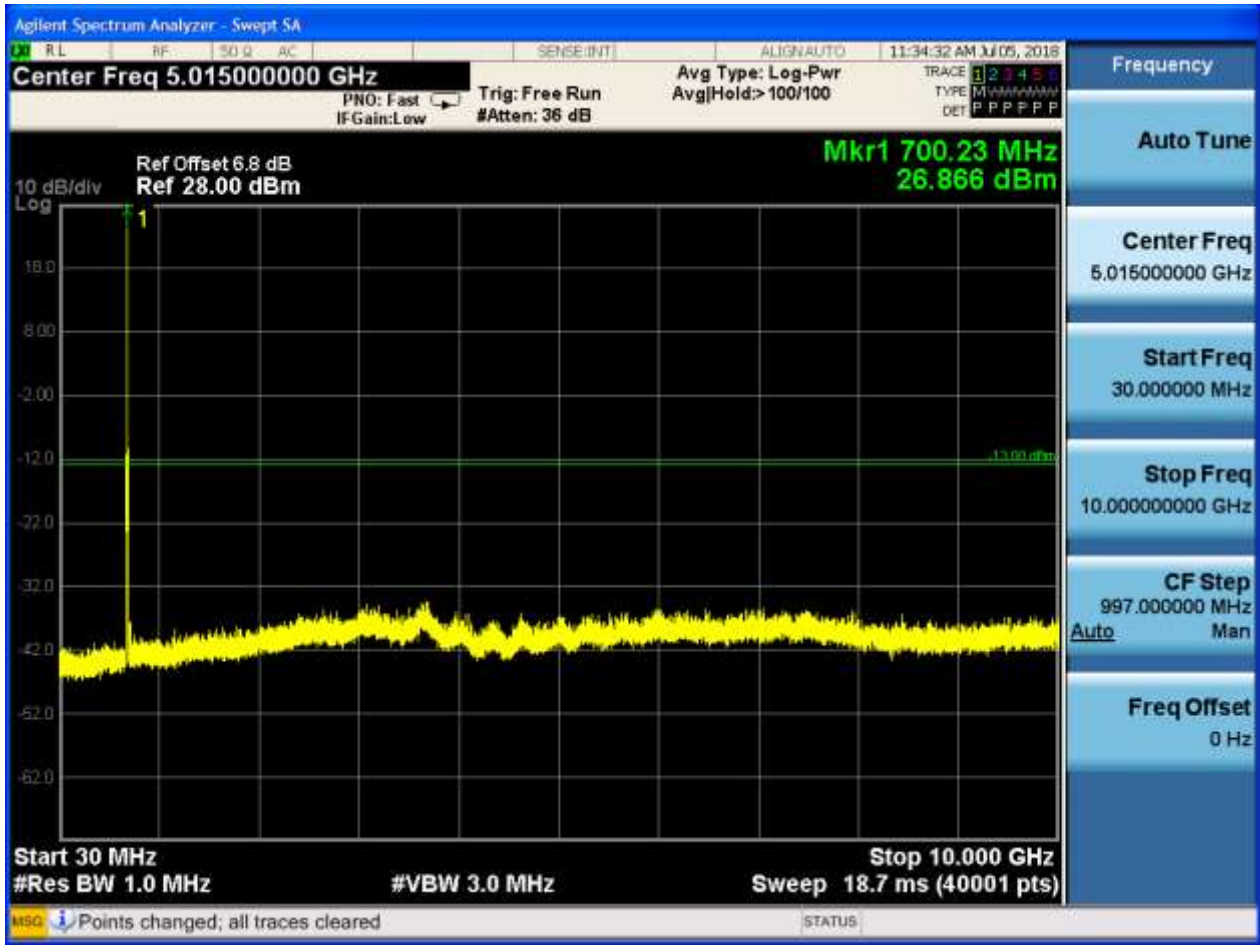
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



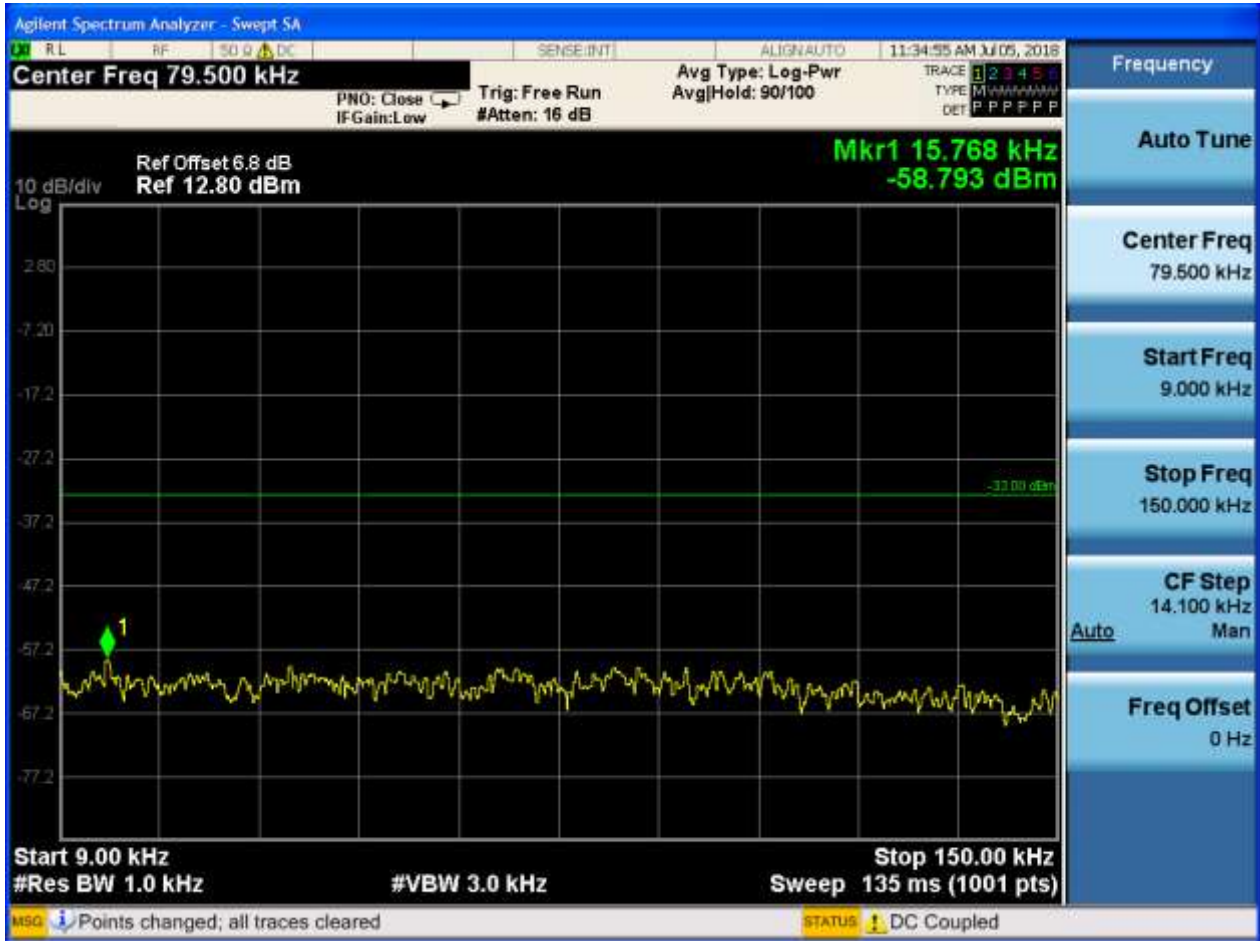


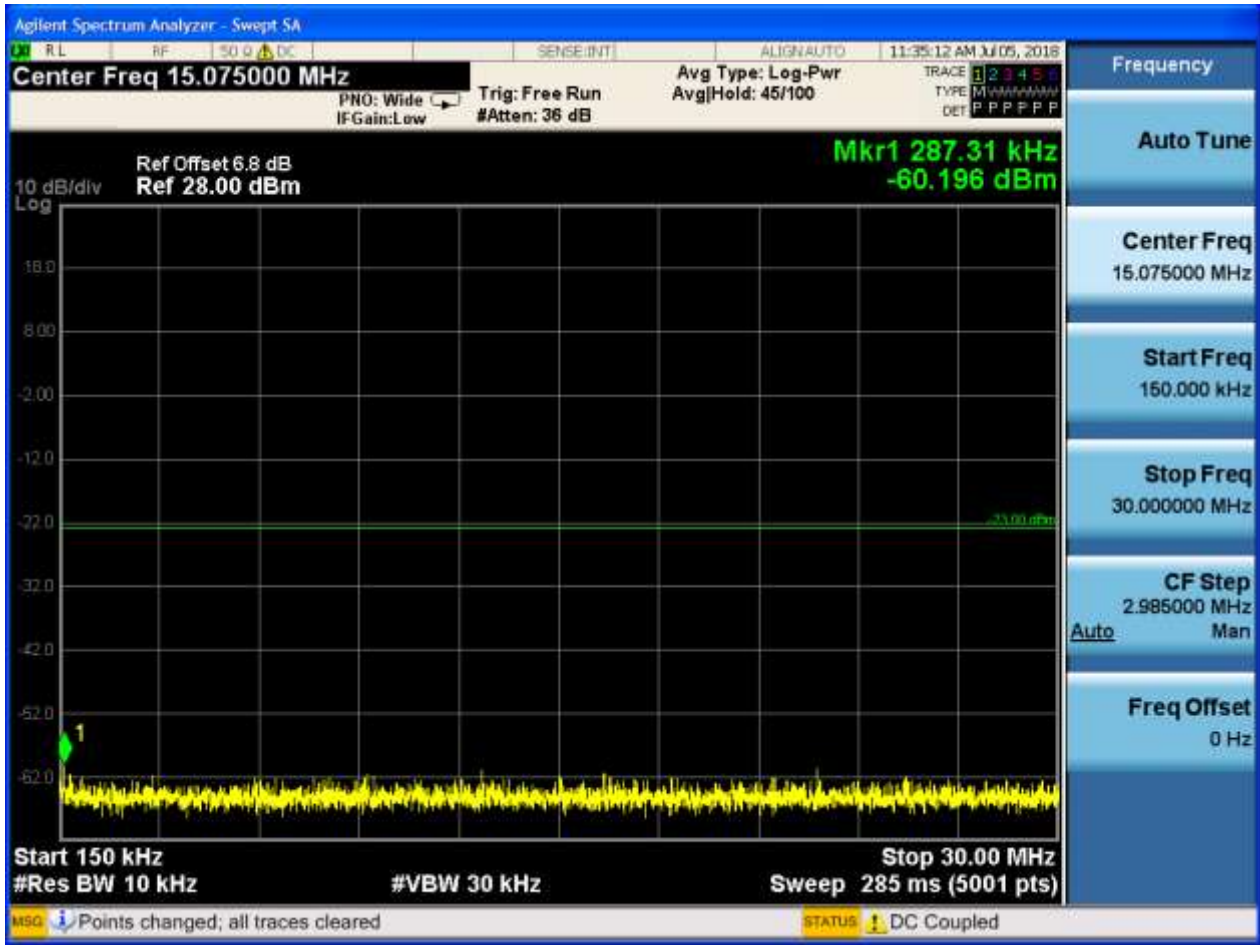


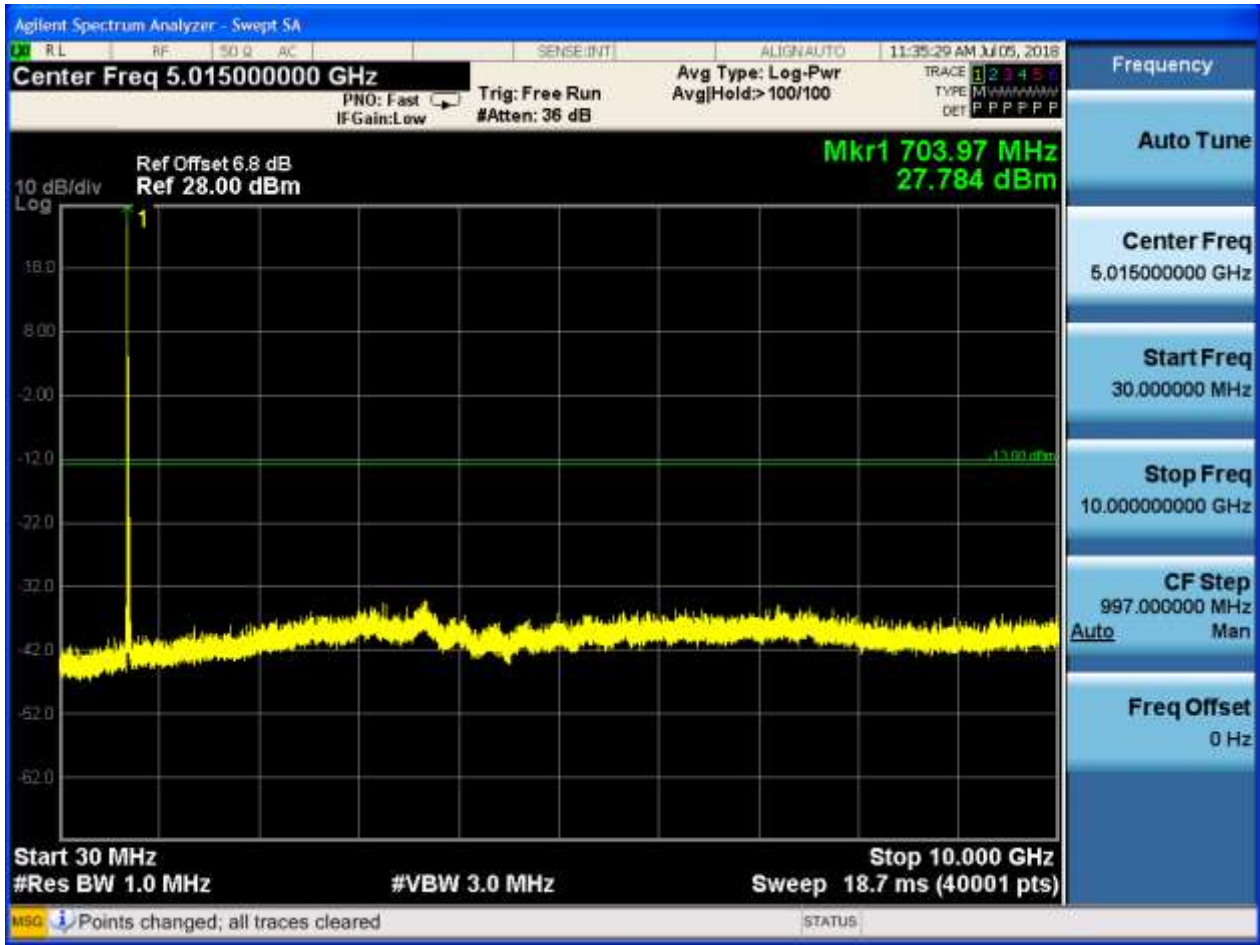


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



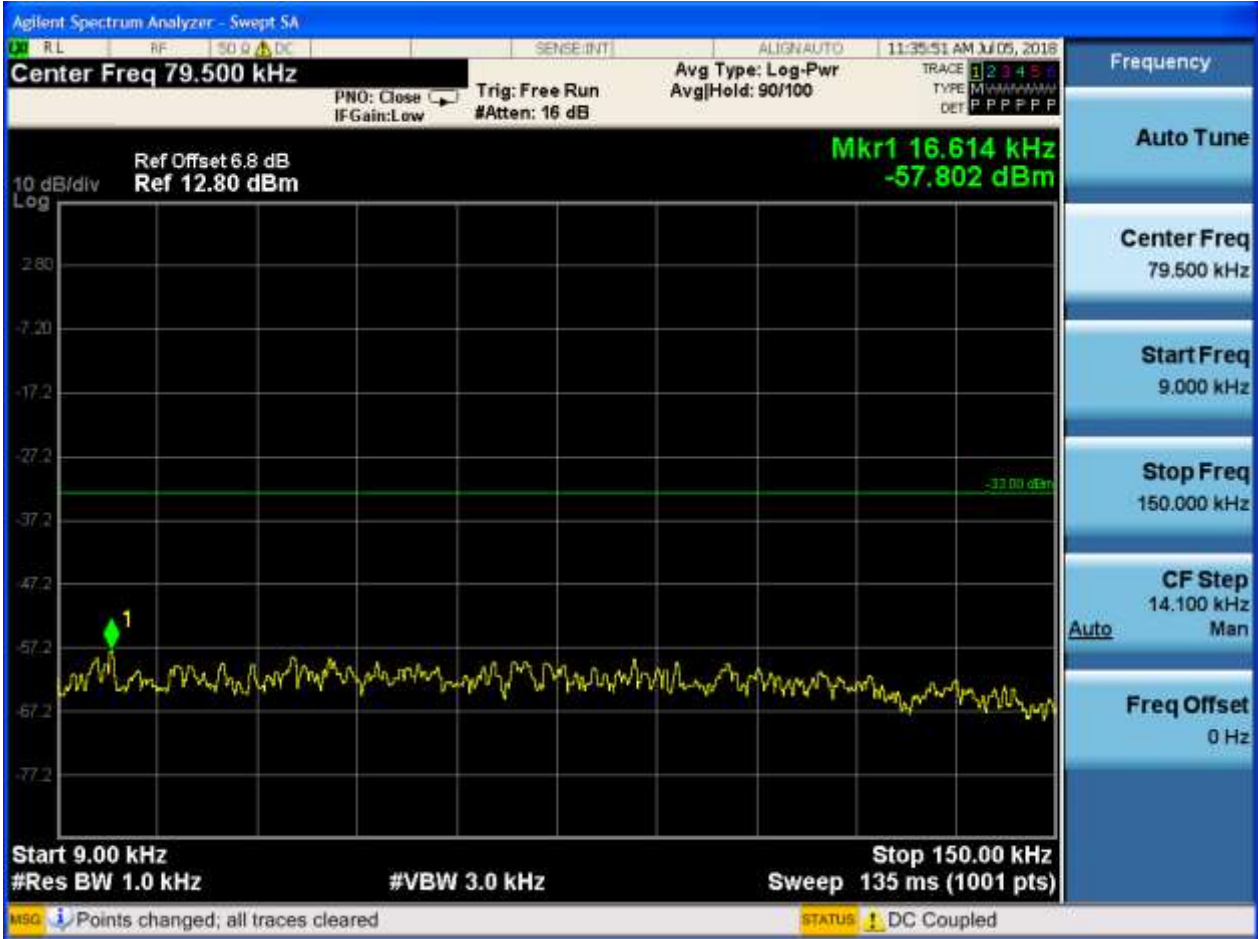


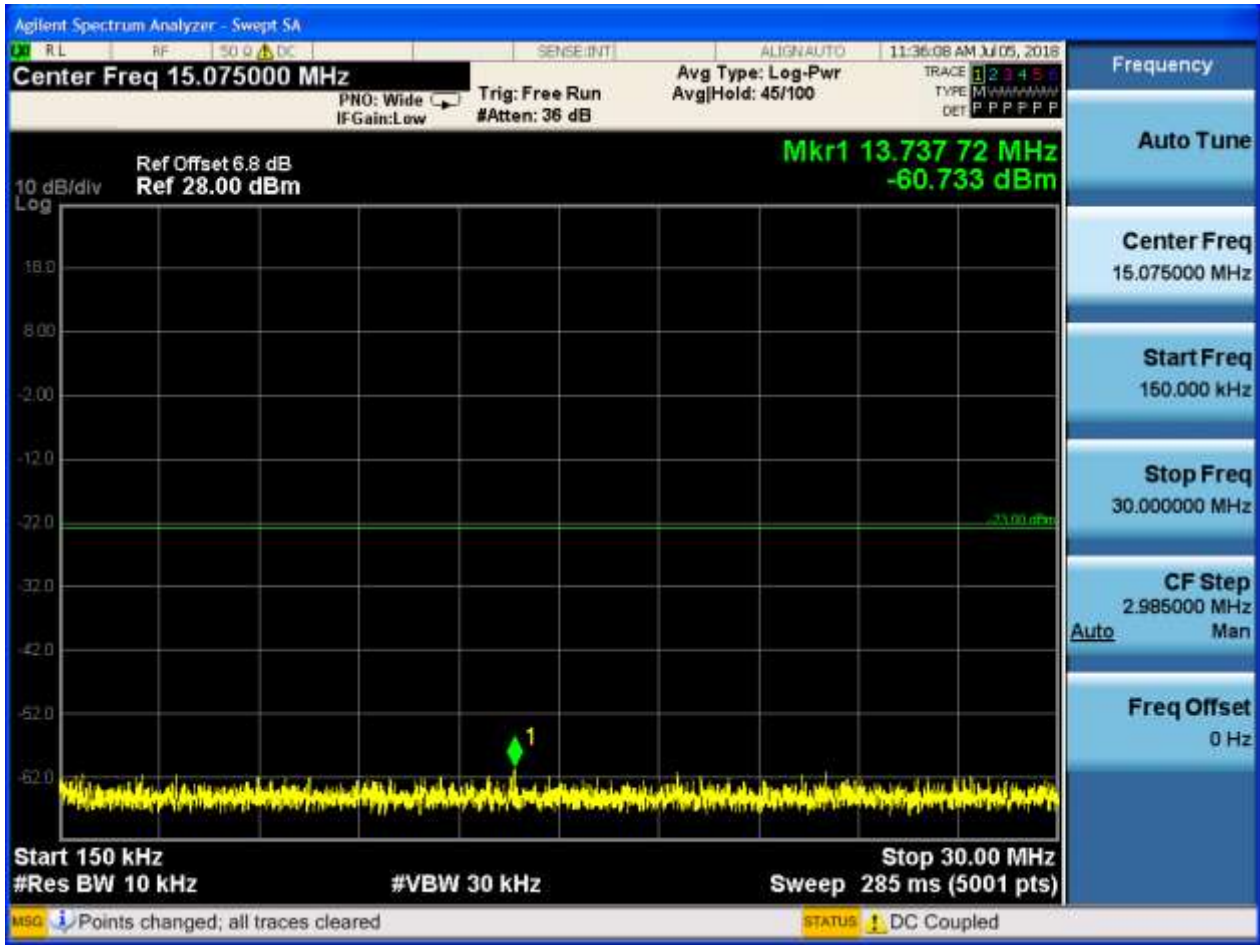




6.1.1.2.4.3 Test Channel = HCH

6.1.1.2.4.3.1 Test RB = RB1#0









7Appendix_G: Field Strength of Spurious Radiation

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

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

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

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

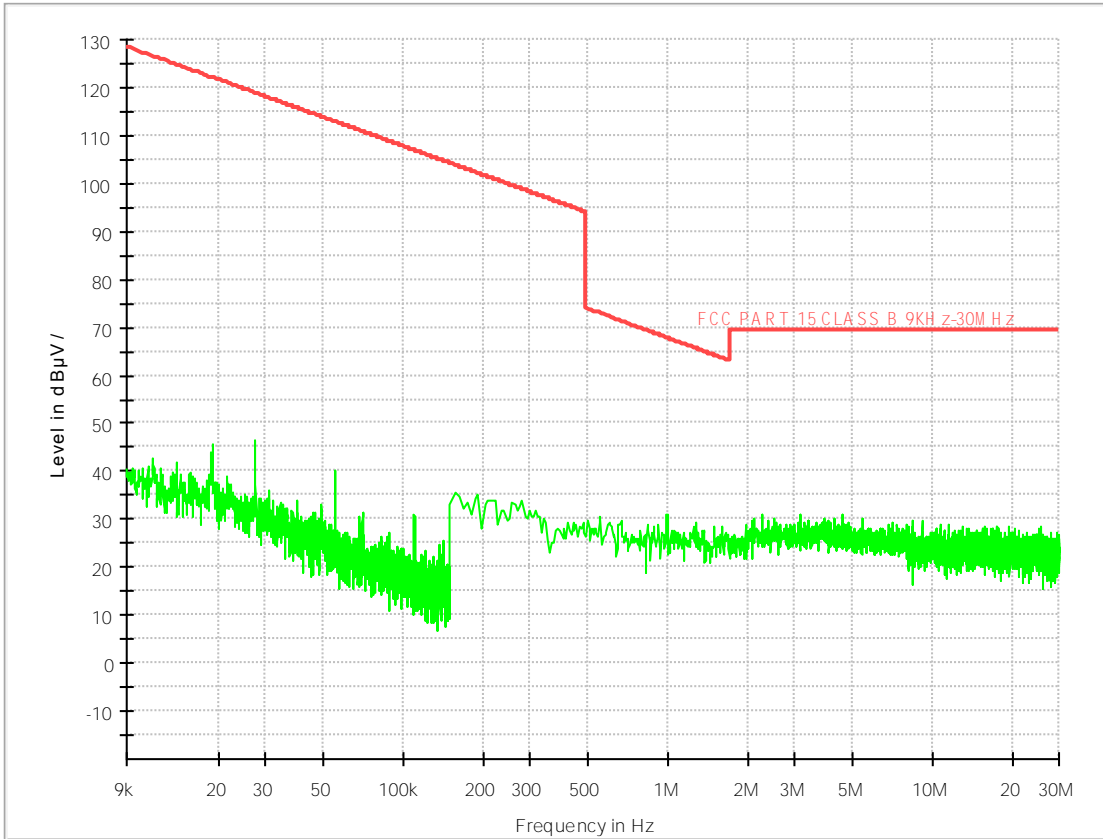
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

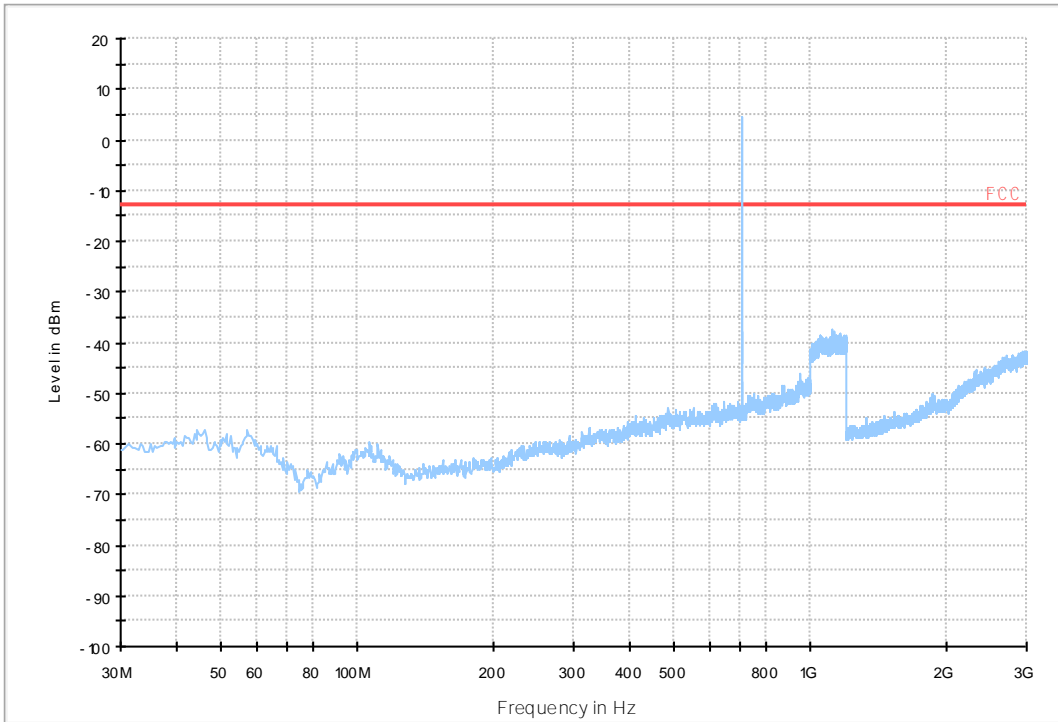
7.1 For LTE

7.1.1 Test Band = BAND12-Ant1

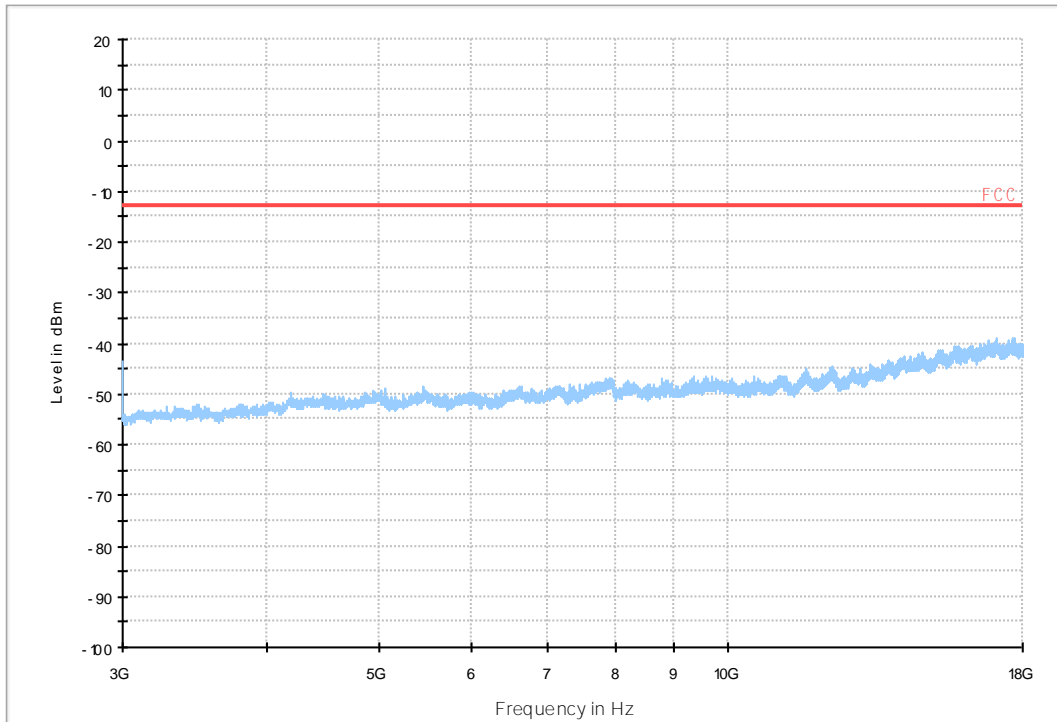
7.1.1.1 Test Bandwidth = 1.4



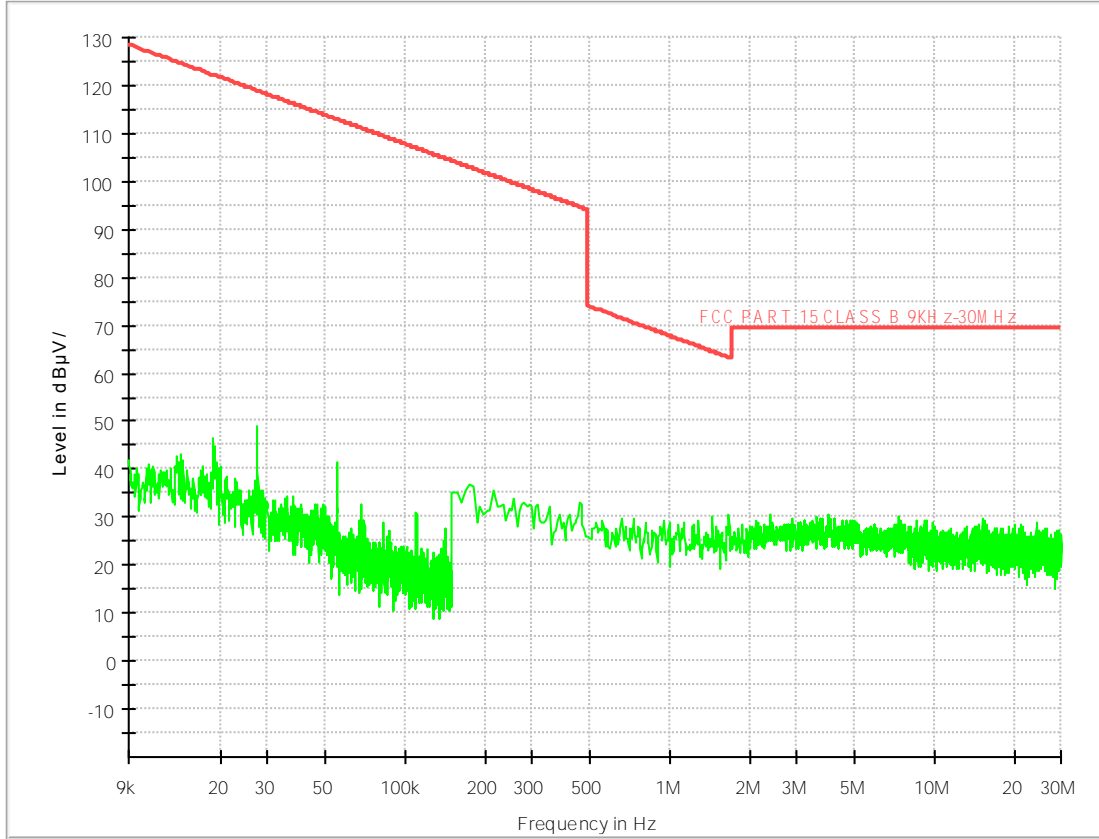
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



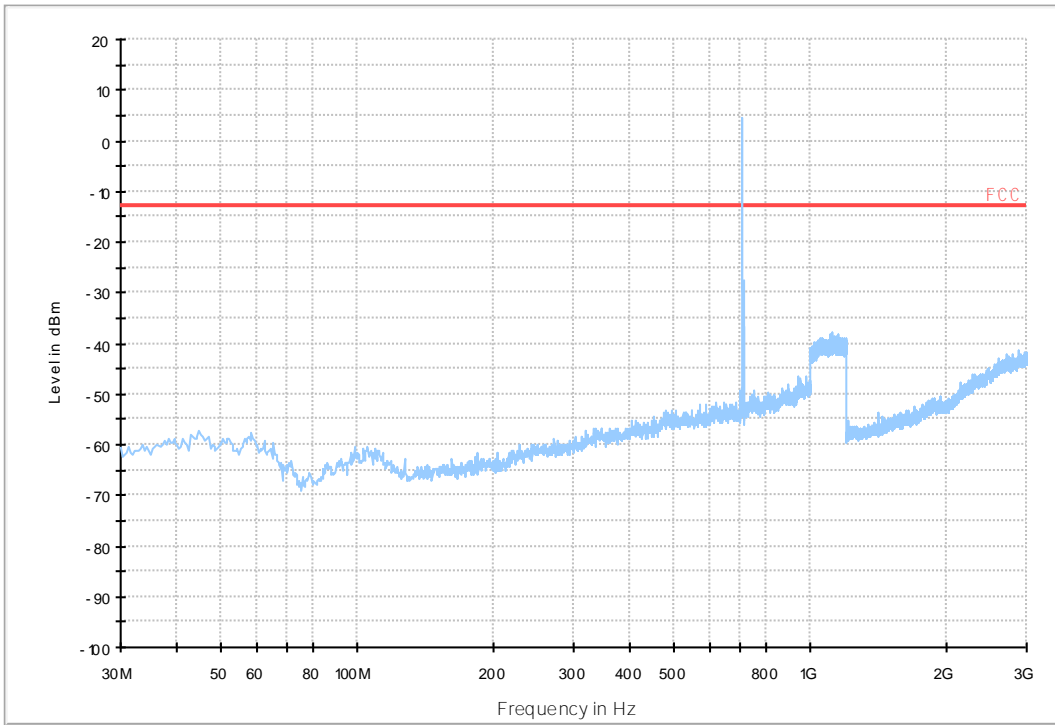
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



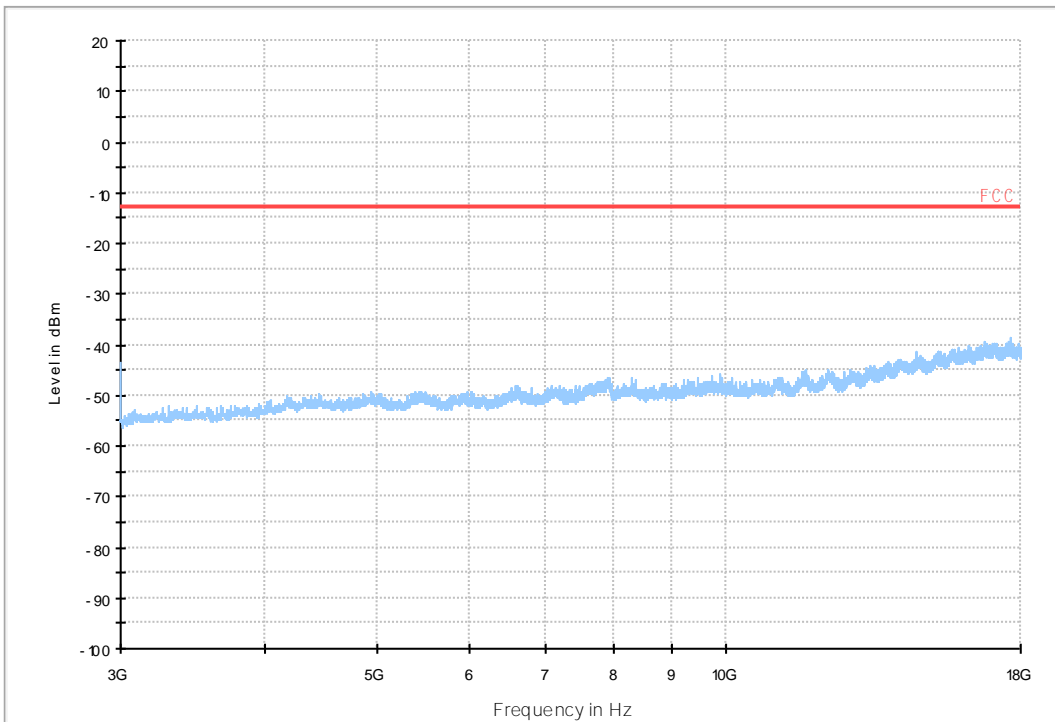
7.1.1.2 Test Bandwidth = 5



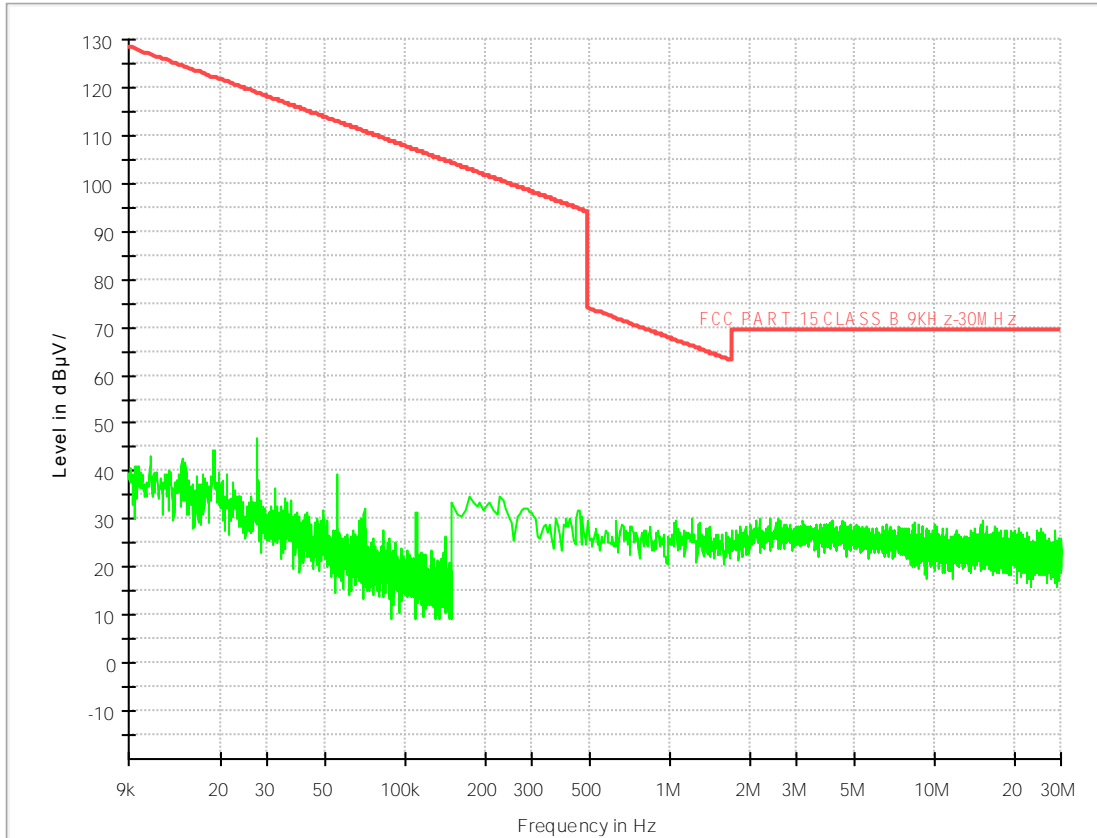
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



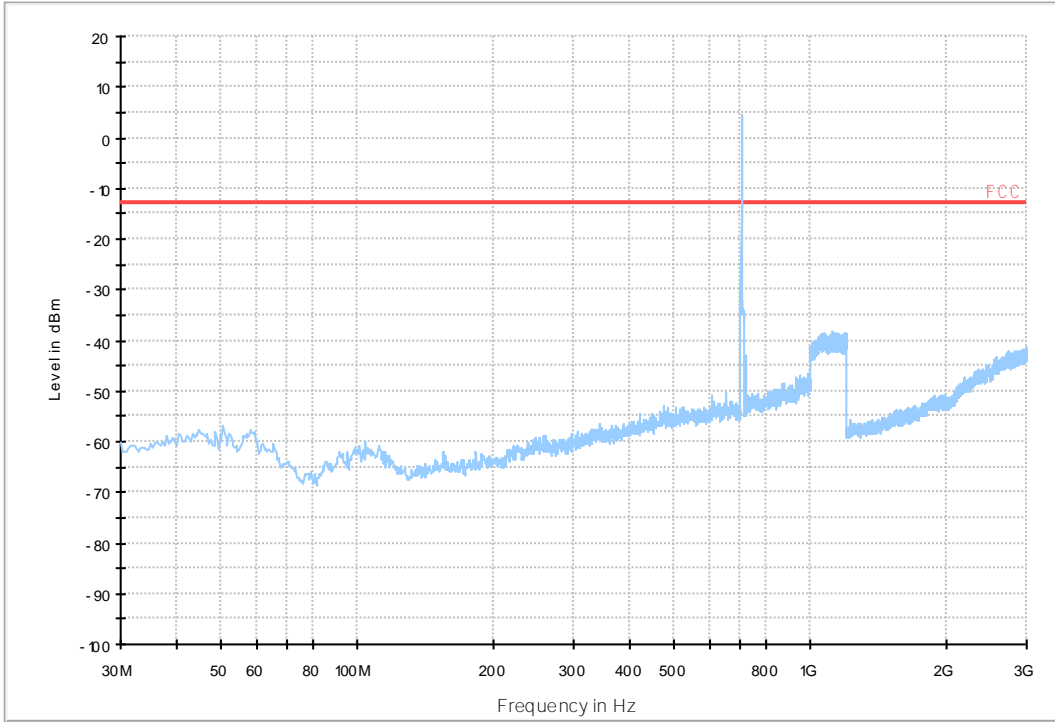
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



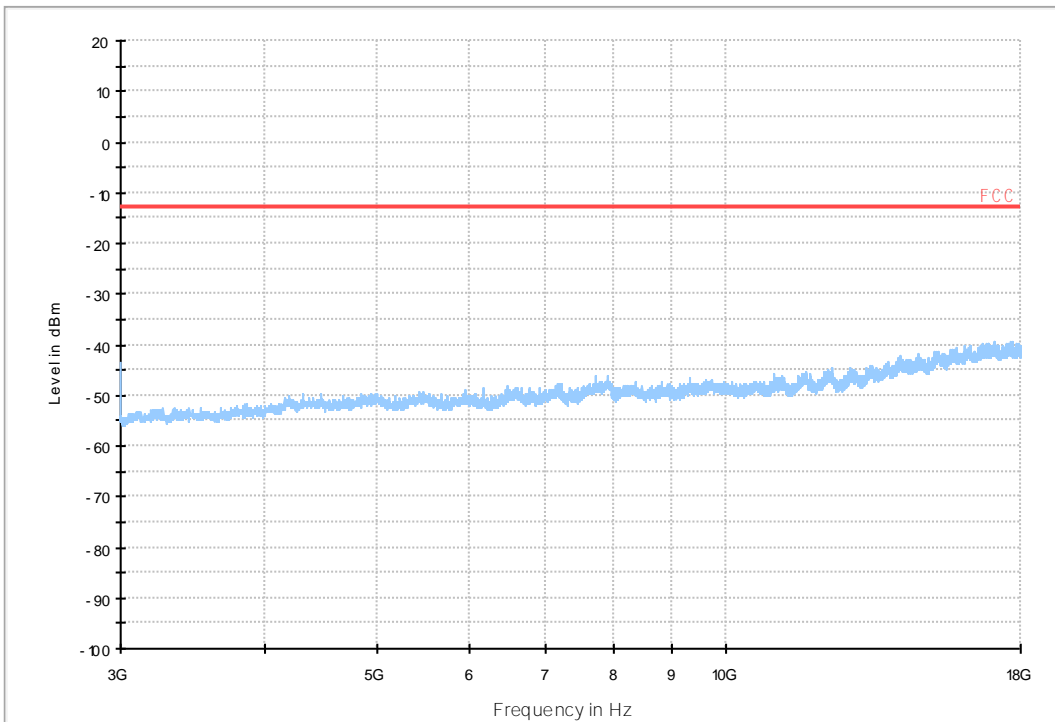
7.1.1.3 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G_L

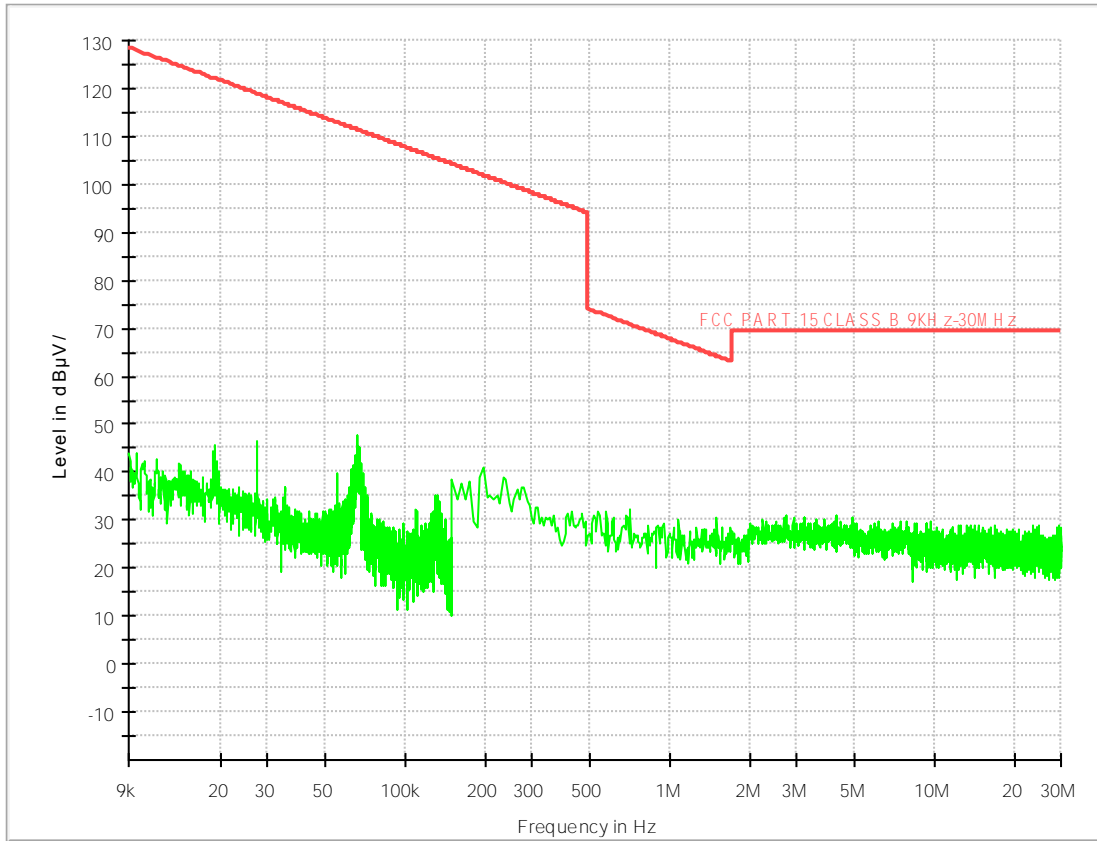


LTE FDD RSE-TX-DIRECTOR BELOW 1G_H

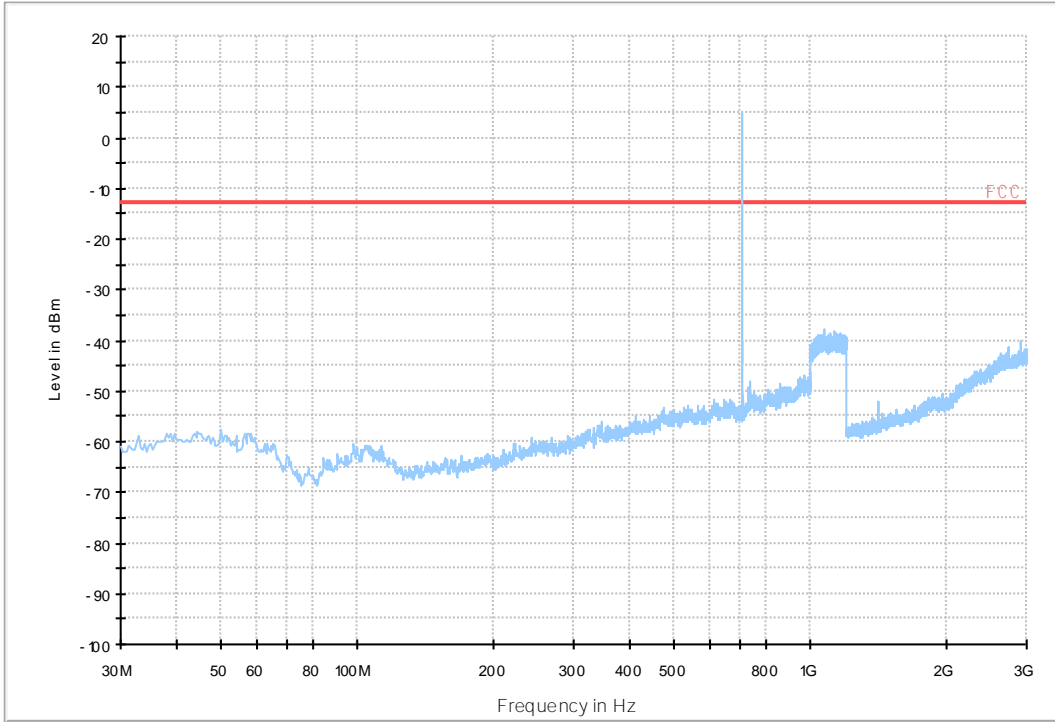


7.1.2 Test Band = BAND12-Ant2

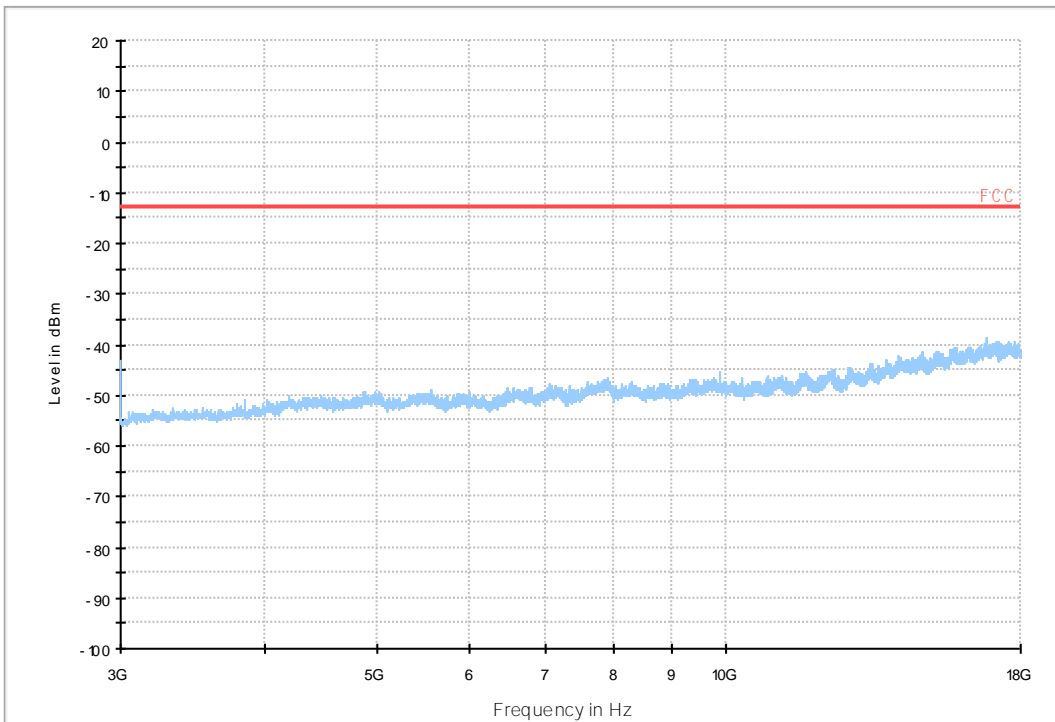
7.1.2.1 Test Bandwidth = 1.4



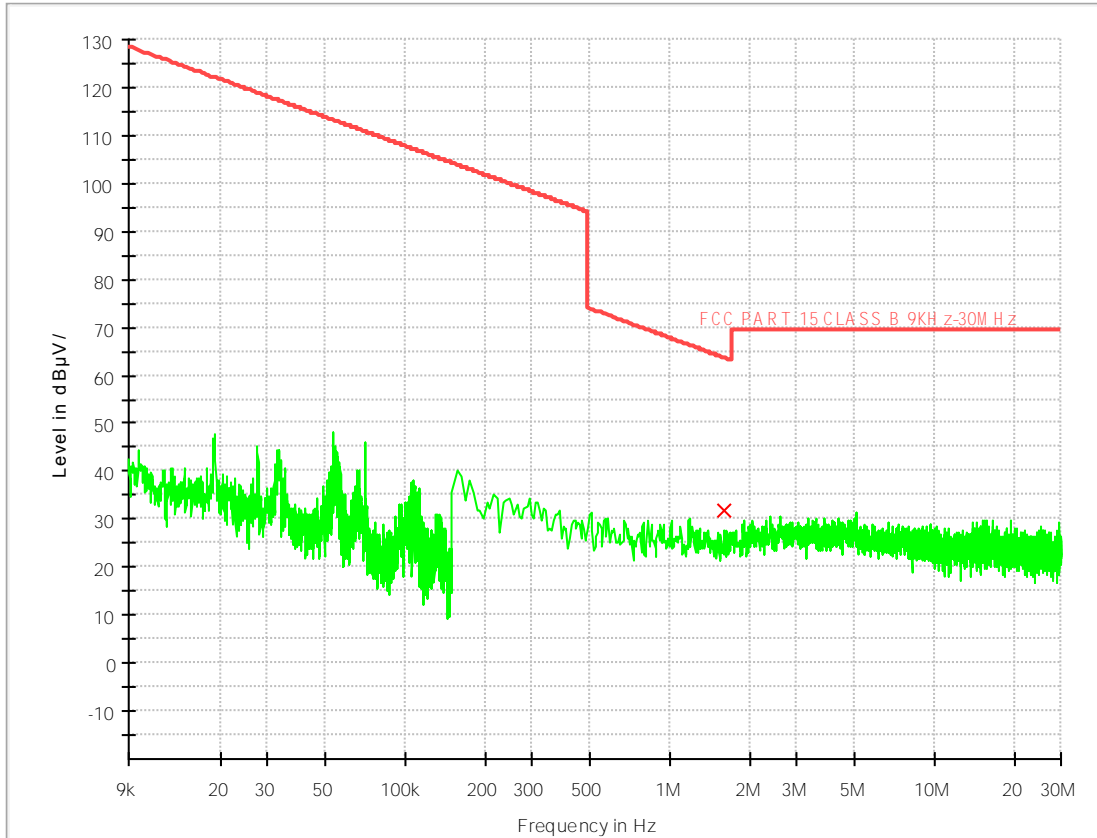
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



LTE FDD RSE-TX-DIRECTOR BELOW 1G_H

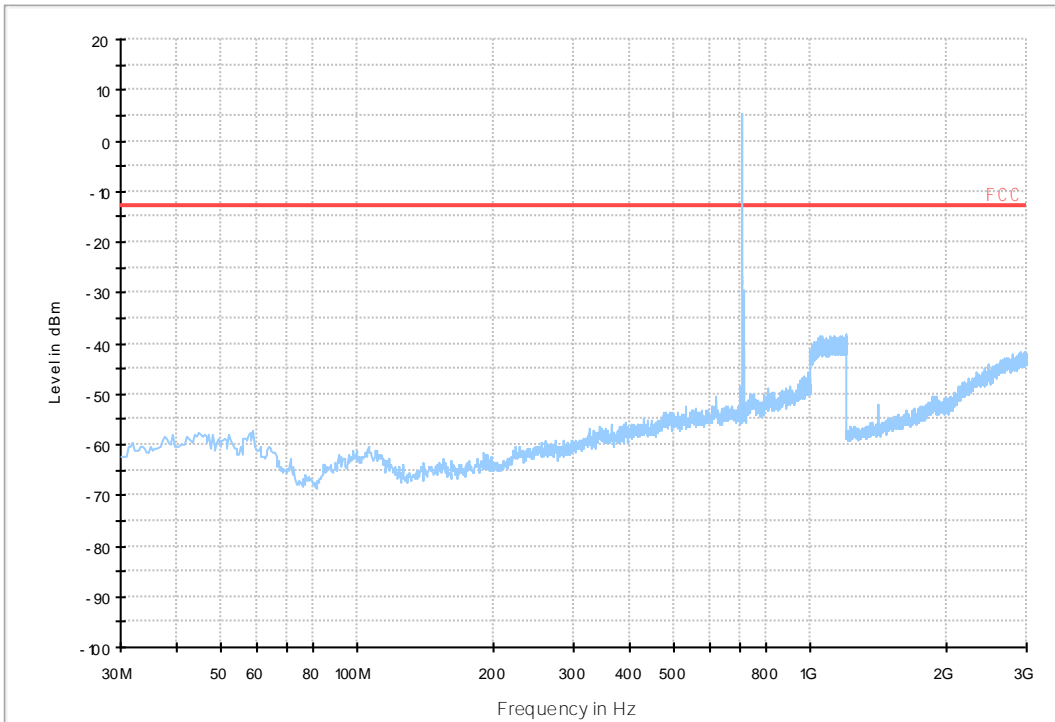


7.1.2.2 Test Bandwidth = 5

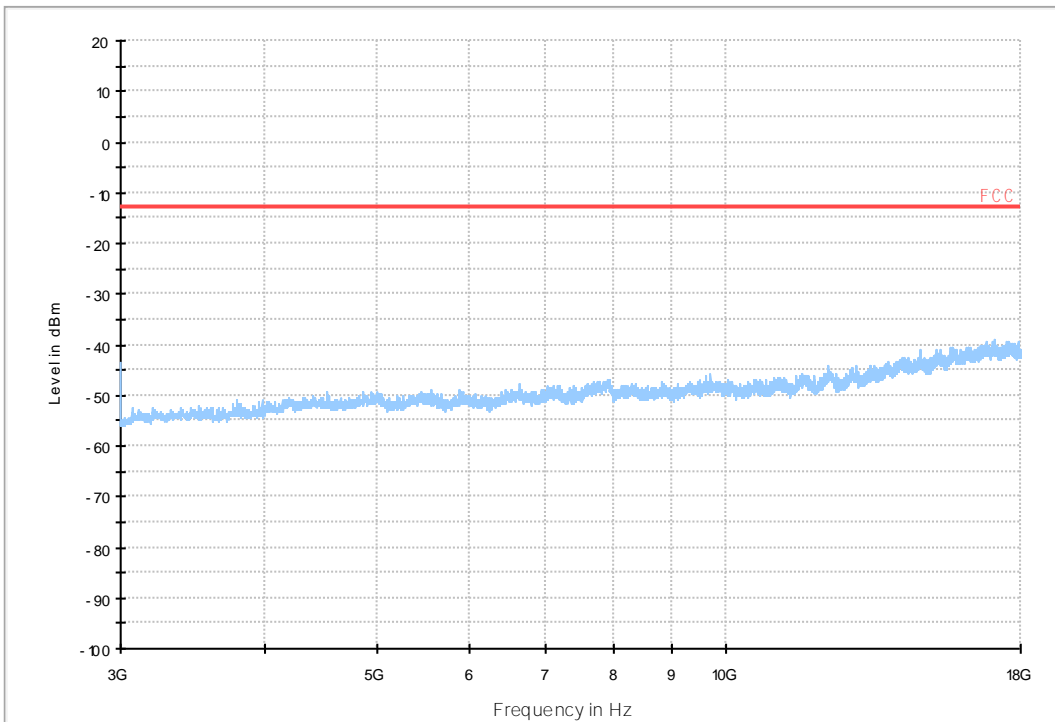




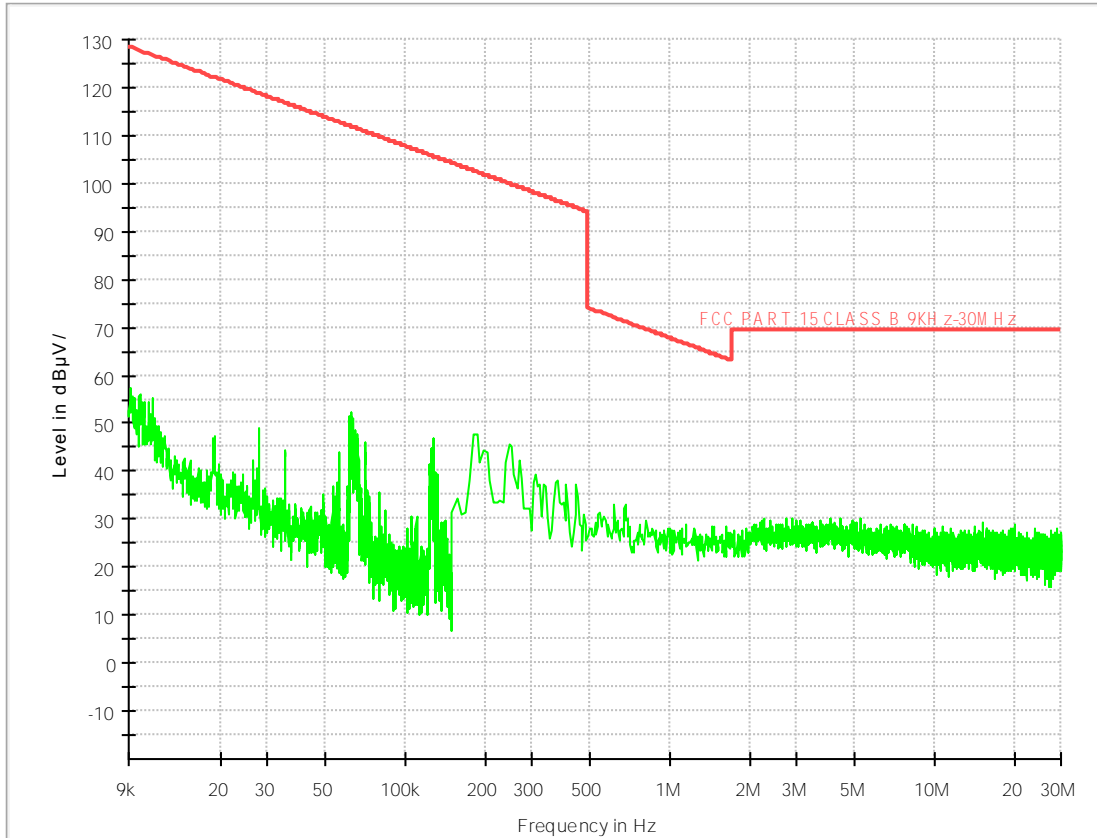
LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



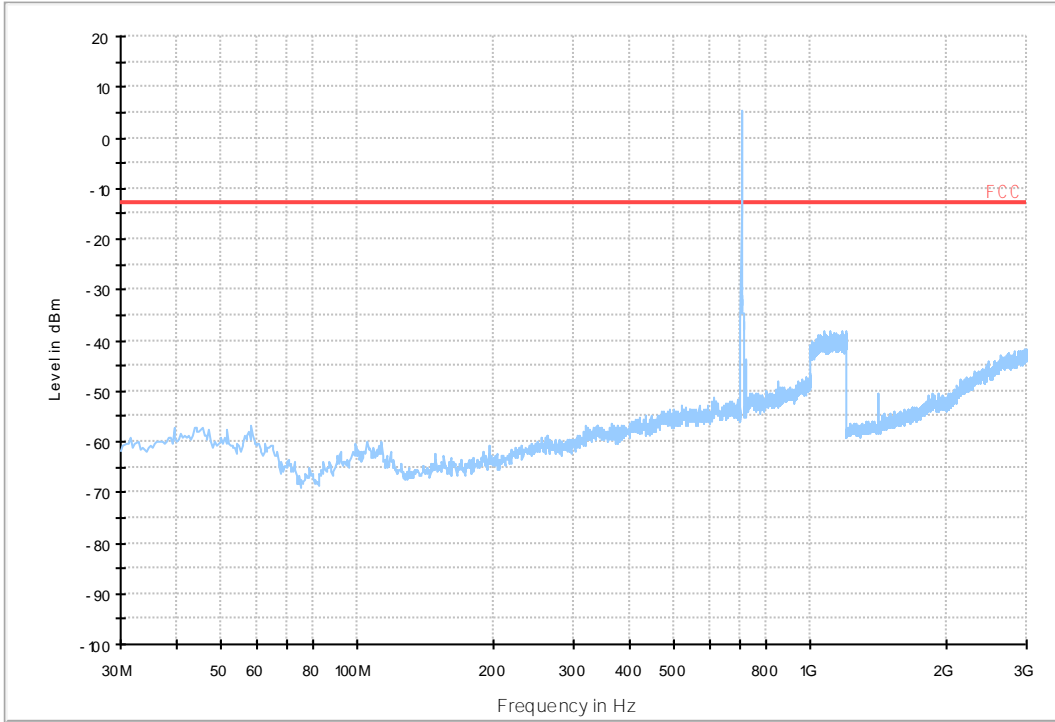
LTE FDD RSE-TX-DIRECTOR BELOW 1G_H



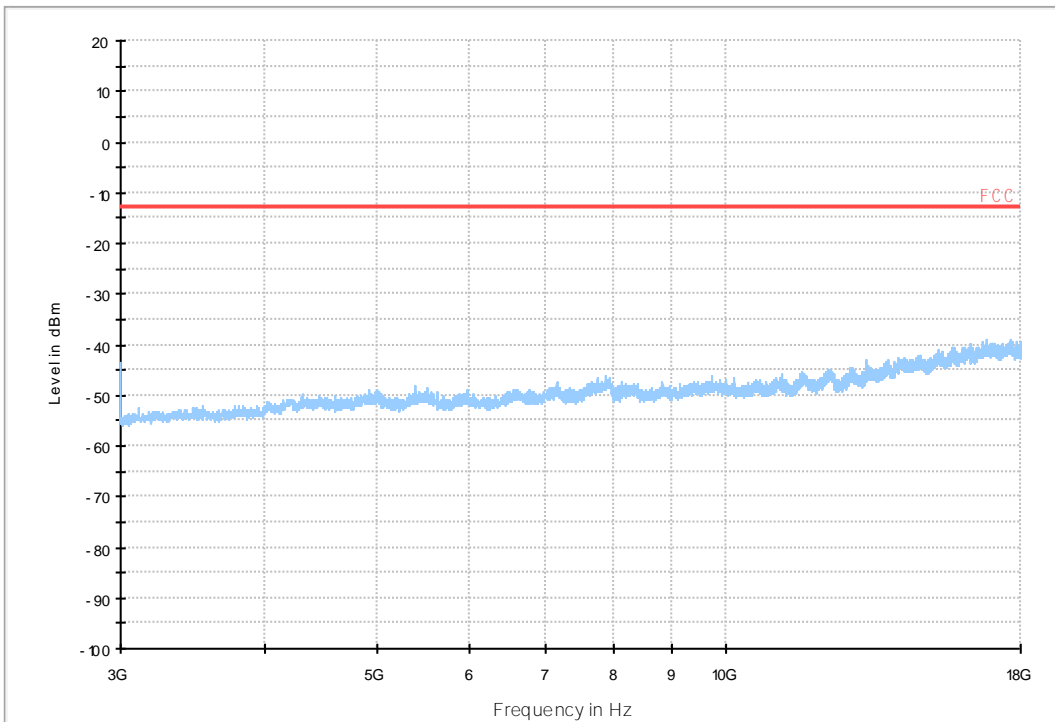
7.1.2.3 Test Bandwidth = 10



LTE FDD RSE-TX-DIRECTOR BELOW 1G_L



LTE FDD RSE-TX-DIRECTOR BELOW 1G_H





8Appendix_H: Frequency Stability

8.1 For LTE

8.1.1 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
BAND12	LTE/TM1	1.4	LCH	TN	VL	-14.62	-0.02089	PASS
					VN	-4.42	-0.00632	PASS
					VH	-3.32	-0.00474	PASS
			MCH	TN	VL	-2.19	-0.0031	PASS
					VN	-6.67	-0.00943	PASS
					VH	-14.62	-0.02066	PASS
			HCH	TN	VL	-19.00	-0.02656	PASS
					VN	7.84	0.01096	PASS
					VH	-7.77	-0.01086	PASS
		3	LCH	TN	VL	-8.25	-0.01178	PASS
					VN	-3.75	-0.00535	PASS
					VH	11.40	0.01627	PASS
			MCH	TN	VL	5.72	0.00808	PASS
					VN	-1.19	-0.00168	PASS
					VH	1.29	0.00182	PASS
			HCH	TN	VL	-3.15	-0.00441	PASS
					VN	3.63	0.00508	PASS
					VH	-2.30	-0.00322	PASS
		5	LCH	TN	VL	2.68	0.00382	PASS
					VN	-4.38	-0.00624	PASS
					VH	-1.10	-0.00157	PASS
			MCH	TN	VL	-3.50	-0.00495	PASS
					VN	-2.90	-0.0041	PASS
					VH	-0.84	-0.00119	PASS
			HCH	TN	VL	-4.43	-0.00621	PASS
					VN	2.76	0.00387	PASS
					VH	5.71	0.008	PASS
		10	LCH	TN	VL	1.39	0.00197	PASS
					VN	-1.79	-0.00254	PASS
					VH	0.97	0.00138	PASS
			MCH	TN	VL	-1.83	-0.00259	PASS
					VN	3.30	0.00466	PASS
					VH	1.75	0.00247	PASS
			HCH	TN	VL	-0.73	-0.00103	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	-1.27	-0.00179	PASS
					VH	0.80	0.00113	PASS
		1.4	LCH	TN	VL	-3.69	-0.00527	PASS
					VN	-38.87	-0.05555	PASS
					VH	-7.75	-0.01108	PASS
			MCH	TN	VL	6.07	0.00858	PASS
					VN	0.63	0.00089	PASS
					VH	-1.17	-0.00165	PASS
			HCH	TN	VL	8.28	0.01158	PASS
					VN	19.66	0.02748	PASS
					VH	2.93	0.0041	PASS
		3	LCH	TN	VL	0.30	0.00043	PASS
					VN	3.25	0.00464	PASS
					VH	-4.41	-0.0063	PASS
			MCH	TN	VL	-2.60	-0.00367	PASS
					VN	-1.23	-0.00174	PASS
					VH	-3.06	-0.00433	PASS
			HCH	TN	VL	1.03	0.00144	PASS
					VN	-0.74	-0.00104	PASS
					VH	3.63	0.00508	PASS
		5	LCH	TN	VL	-0.44	-0.00063	PASS
					VN	-1.56	-0.00222	PASS
					VH	4.36	0.00622	PASS
			MCH	TN	VL	-9.98	-0.01411	PASS
					VN	-5.85	-0.00827	PASS
					VH	-5.02	-0.0071	PASS
			HCH	TN	VL	1.63	0.00228	PASS
					VN	2.40	0.00336	PASS
					VH	7.60	0.01065	PASS
		10	LCH	TN	VL	-2.23	-0.00317	PASS
					VN	-0.93	-0.00132	PASS
					VH	0.30	0.00043	PASS
			MCH	TN	VL	0.64	0.0009	PASS
					VN	-1.29	-0.00182	PASS
					VH	-1.47	-0.00208	PASS
			HCH	TN	VL	-2.30	-0.00323	PASS
					VN	1.76	0.00248	PASS
					VH	-1.46	-0.00205	PASS



8.1.2 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
BAND12	LTE/TM1	1.4	LCH	VN	-30	2.80	0.004	PASS
					-20	-3.72	-0.00532	PASS
					-10	-4.55	-0.0065	PASS
					0	-1.96	-0.0028	PASS
					10	-20.54	-0.02936	PASS
					20	15.12	0.02161	PASS
					30	0.27	0.00039	PASS
					40	-1.65	-0.00236	PASS
			50	-24.25	-0.03466	PASS		
			MCH	VN	-30	3.19	0.00451	PASS
					-20	0.59	0.00083	PASS
					-10	3.86	0.00546	PASS
					0	5.21	0.00736	PASS
					10	-3.50	-0.00495	PASS
					20	8.73	0.01234	PASS
					30	-0.14	-0.0002	PASS
		40			-1.39	-0.00196	PASS	
		HCH	VN	-30	10.56	0.01476	PASS	
				-20	1.85	0.00259	PASS	
				-10	2.40	0.00336	PASS	
				0	-4.82	-0.00674	PASS	
				10	2.16	0.00302	PASS	
				20	14.16	0.0198	PASS	
				30	1.82	0.00254	PASS	
				40	-2.40	-0.00336	PASS	
		3	LCH	VN	-30	3.60	0.00514	PASS
					-20	0.50	0.00071	PASS
					-10	1.42	0.00203	PASS
					0	4.32	0.00617	PASS
					10	-2.16	-0.00308	PASS
					20	-7.31	-0.01044	PASS
					30	-5.05	-0.00721	PASS
40	-3.16				-0.00451	PASS		
50	2.05		0.00293	PASS				
MCH	VN		-30	-1.67	-0.00236	PASS		



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict				
					-20	3.05	0.00431	PASS				
					-10	-4.31	-0.00609	PASS				
					0	3.29	0.00465	PASS				
					10	-4.26	-0.00602	PASS				
					20	-3.66	-0.00517	PASS				
					30	11.30	0.01597	PASS				
					40	-3.15	-0.00445	PASS				
					50	2.05	0.0029	PASS				
			HCH	VN	-30	5.52	0.00773	PASS				
					-20	-0.77	-0.00108	PASS				
					-10	-0.96	-0.00134	PASS				
					0	-1.44	-0.00202	PASS				
					10	2.56	0.00358	PASS				
					20	5.75	0.00805	PASS				
					30	-1.23	-0.00172	PASS				
					40	-8.04	-0.01125	PASS				
		LCH	VN	-30	-5.24	-0.00747	PASS					
				-20	-4.63	-0.0066	PASS					
				-10	2.47	0.00352	PASS					
				0	-1.37	-0.00195	PASS					
				10	-5.29	-0.00754	PASS					
				20	-4.56	-0.0065	PASS					
				30	5.54	0.0079	PASS					
				40	2.57	0.00366	PASS					
		MCH	VN	-30	-7.24	-0.01023	PASS					
				-20	-1.36	-0.00192	PASS					
				-10	-4.72	-0.00667	PASS					
				0	-1.36	-0.00192	PASS					
				10	-5.54	-0.00783	PASS					
				20	-2.93	-0.00414	PASS					
				30	-0.21	-0.0003	PASS					
				40	0.73	0.00103	PASS					
		HCH	VN	50	-4.05	-0.00572	PASS					
				-30	0.17	0.00024	PASS					
				-20	4.38	0.00614	PASS					
				-10	-0.79	-0.00111	PASS					
				0	-10.56	-0.0148	PASS					
				5								



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					10	0.72	0.00101	PASS		
					20	-2.19	-0.00307	PASS		
					30	10.69	0.01498	PASS		
					40	5.29	0.00741	PASS		
					50	-1.24	-0.00174	PASS		
					LCH	VN	-30	-0.90	-0.00128	PASS
							-20	-0.31	-0.00044	PASS
							-10	1.50	0.00213	PASS
							0	0.20	0.00028	PASS
							10	2.82	0.00401	PASS
		20	2.69	0.00382			PASS			
		30	-3.12	-0.00443			PASS			
		40	-1.19	-0.00169			PASS			
		50	-0.94	-0.00134			PASS			
		MCH	VN	-30			-2.47	-0.00349	PASS	
				-20	-1.49	-0.00211	PASS			
				-10	1.10	0.00155	PASS			
				0	-1.20	-0.0017	PASS			
				10	-0.64	-0.0009	PASS			
				20	-0.23	-0.00033	PASS			
				30	1.99	0.00281	PASS			
	40			-0.77	-0.00109	PASS				
	50			0.56	0.00079	PASS				
	HCH			VN	-30	0.07	0.0001	PASS		
		-20	0.94		0.00132	PASS				
		-10	-0.17		-0.00024	PASS				
		0	3.02		0.00425	PASS				
		10	0.53		0.00075	PASS				
		20	-0.34		-0.00048	PASS				
		30	0.41		0.00058	PASS				
		40	-0.11		-0.00015	PASS				
		50	0.64		0.0009	PASS				
		LTE/TM2	1.4		LCH	VN	-30	-14.78	-0.02112	PASS
-20	0.14			0.0002			PASS			
-10	1.39			0.00199			PASS			
0	10.84			0.01549			PASS			
10	-14.36			-0.02052			PASS			
20	-4.79			-0.00685			PASS			
30	6.14			0.00878			PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					40	-4.99	-0.00713	PASS
					50	-5.71	-0.00816	PASS
			MCH	VN	-30	-0.27	-0.00038	PASS
					-20	-2.90	-0.0041	PASS
					-10	-5.24	-0.00741	PASS
					0	2.73	0.00386	PASS
					10	5.72	0.00808	PASS
					20	2.60	0.00367	PASS
					30	-3.08	-0.00435	PASS
					40	-0.13	-0.00018	PASS
					50	7.57	0.0107	PASS
			HCH	VN	-30	4.02	0.00562	PASS
					-20	-0.09	-0.00013	PASS
					-10	-4.12	-0.00576	PASS
					0	4.91	0.00686	PASS
		10			-7.02	-0.00981	PASS	
		20			1.22	0.00171	PASS	
		30			3.82	0.00534	PASS	
		40			-12.07	-0.01687	PASS	
		3	LCH	VN	-30	5.95	0.00849	PASS
					-20	2.45	0.0035	PASS
					-10	-0.36	-0.00051	PASS
					0	4.66	0.00665	PASS
					10	0.50	0.00071	PASS
					20	-1.09	-0.00156	PASS
					30	2.25	0.00321	PASS
					40	4.06	0.0058	PASS
					50	0.19	0.00027	PASS
			MCH	VN	-30	1.46	0.00206	PASS
					-20	-3.86	-0.00546	PASS
					-10	-0.51	-0.00072	PASS
					0	3.35	0.00473	PASS
					10	5.76	0.00814	PASS
20	-5.74				-0.00811	PASS		
30	-0.29				-0.00041	PASS		
40	3.76				0.00531	PASS		
50	-2.95				-0.00417	PASS		
HCH	VN	-30	3.68	0.00515	PASS			



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					-20	2.90	0.00406	PASS
					-10	10.39	0.01454	PASS
					0	-0.34	-0.00048	PASS
					10	4.66	0.00652	PASS
					20	1.22	0.00171	PASS
					30	5.71	0.00799	PASS
					40	2.37	0.00332	PASS
					50	-3.91	-0.00547	PASS
		5	LCH	VN	-30	-0.63	-0.0009	PASS
					-20	-3.03	-0.00432	PASS
					-10	-1.27	-0.00181	PASS
					0	-5.32	-0.00758	PASS
					10	2.89	0.00412	PASS
					20	0.87	0.00124	PASS
					30	0.24	0.00034	PASS
					40	-0.56	-0.0008	PASS
			MCH	VN	-30	-1.76	-0.00249	PASS
					-20	0.27	0.00038	PASS
					-10	-2.70	-0.00382	PASS
					0	2.56	0.00362	PASS
					10	7.40	0.01046	PASS
					20	0.26	0.00037	PASS
					30	-1.96	-0.00277	PASS
					40	6.18	0.00873	PASS
			HCH	VN	-30	-0.97	-0.00136	PASS
					-20	-4.49	-0.00629	PASS
					-10	-0.40	-0.00056	PASS
					0	-6.02	-0.00844	PASS
					10	3.35	0.0047	PASS
					20	3.38	0.00474	PASS
					30	-1.83	-0.00256	PASS
					40	0.80	0.00112	PASS
		10	LCH	VN	-30	1.44	0.00205	PASS
					-20	2.75	0.00391	PASS
					-10	0.30	0.00043	PASS
					0	0.63	0.00089	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					10	-1.06	-0.00151	PASS
					20	1.49	0.00212	PASS
					30	-1.46	-0.00207	PASS
					40	-0.63	-0.00089	PASS
					50	0.43	0.00061	PASS
			MCH	VN	-30	3.88	0.00548	PASS
					-20	1.40	0.00198	PASS
					-10	3.43	0.00485	PASS
					0	2.49	0.00352	PASS
					10	-1.96	-0.00277	PASS
					20	-2.33	-0.00329	PASS
					30	1.87	0.00264	PASS
					40	-1.24	-0.00175	PASS
			HCH	VN	50	0.84	0.00119	PASS
					-30	1.06	0.00149	PASS
					-20	-3.10	-0.00436	PASS
					-10	-2.50	-0.00352	PASS
					0	1.20	0.00169	PASS
					10	-3.53	-0.00496	PASS
					20	-1.65	-0.00232	PASS
					30	-2.25	-0.00316	PASS
			40	-2.73	-0.00384	PASS		
			50	2.33	0.00328	PASS		

END