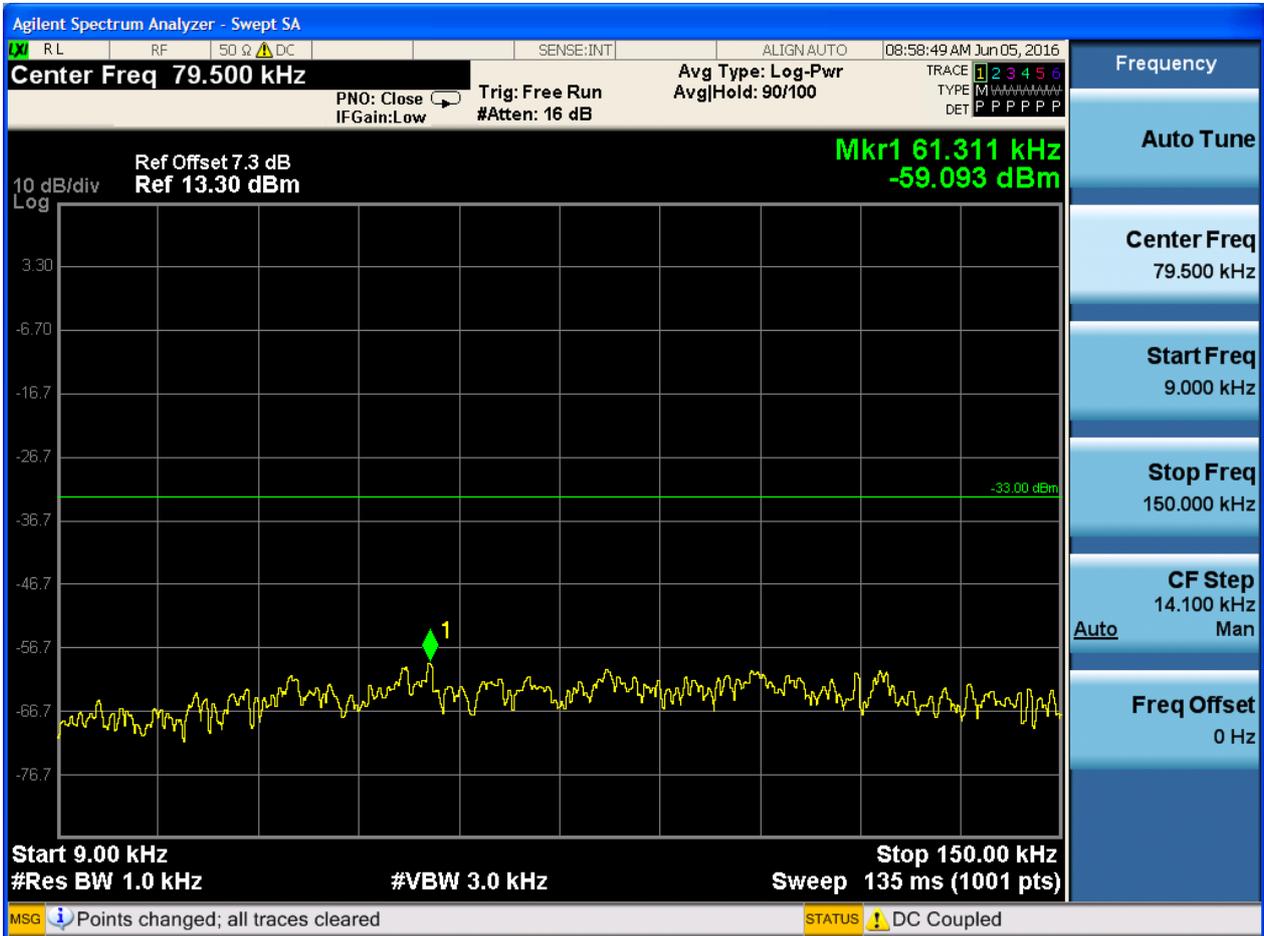
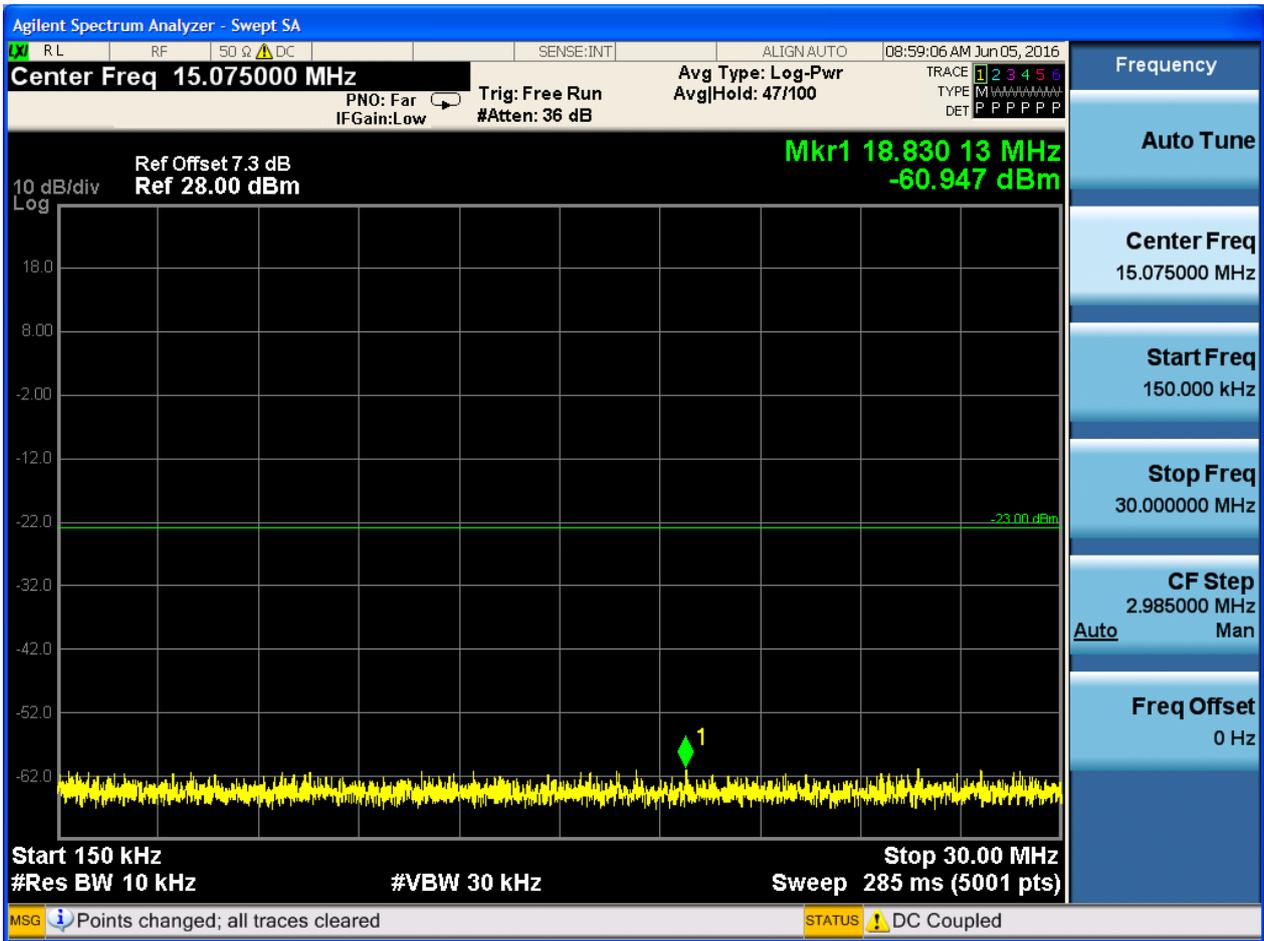


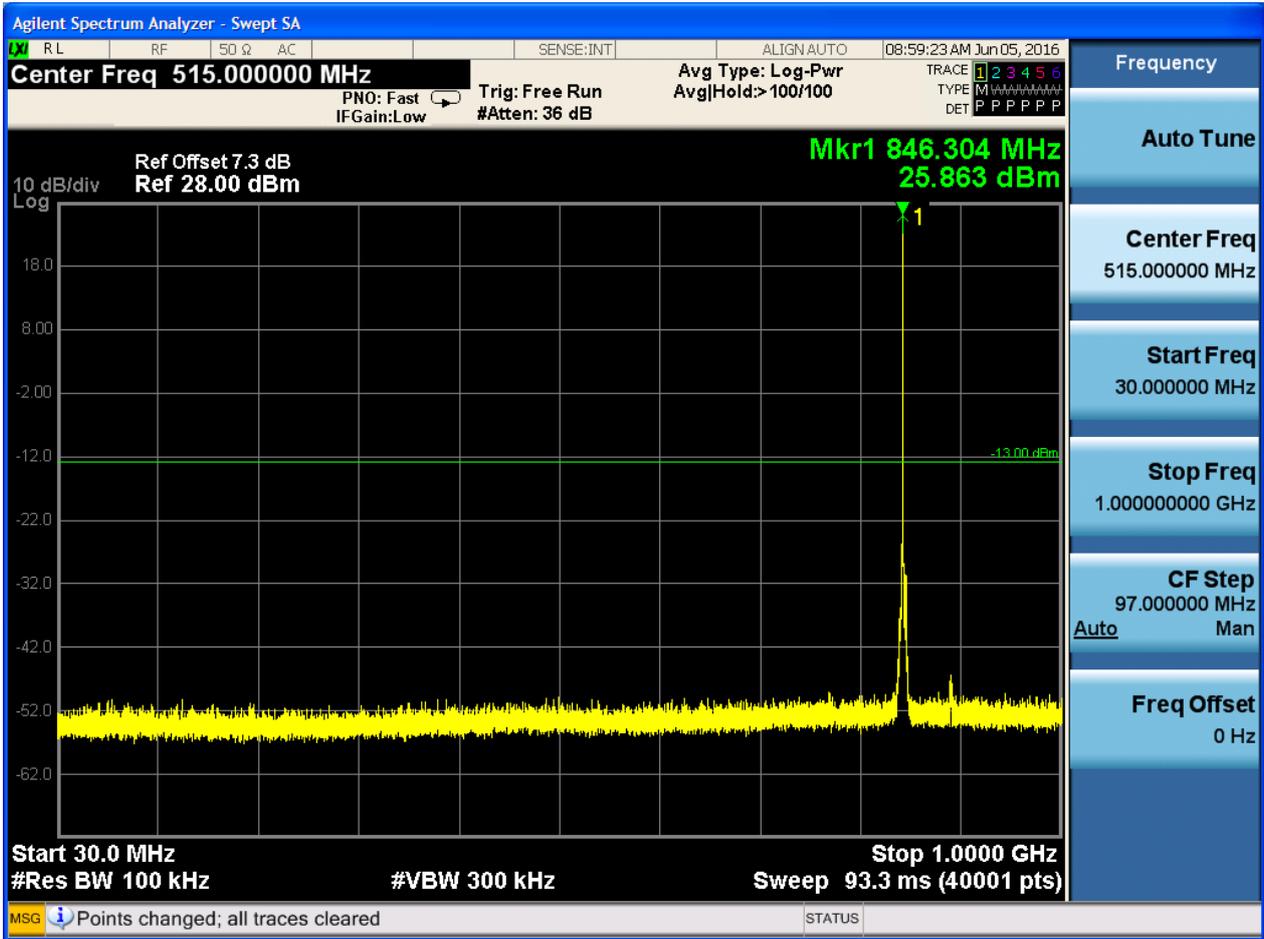


6.1.1.1.2.3 Test Channel = HCH

6.1.1.1.2.3.1 Test RB = RB1#0







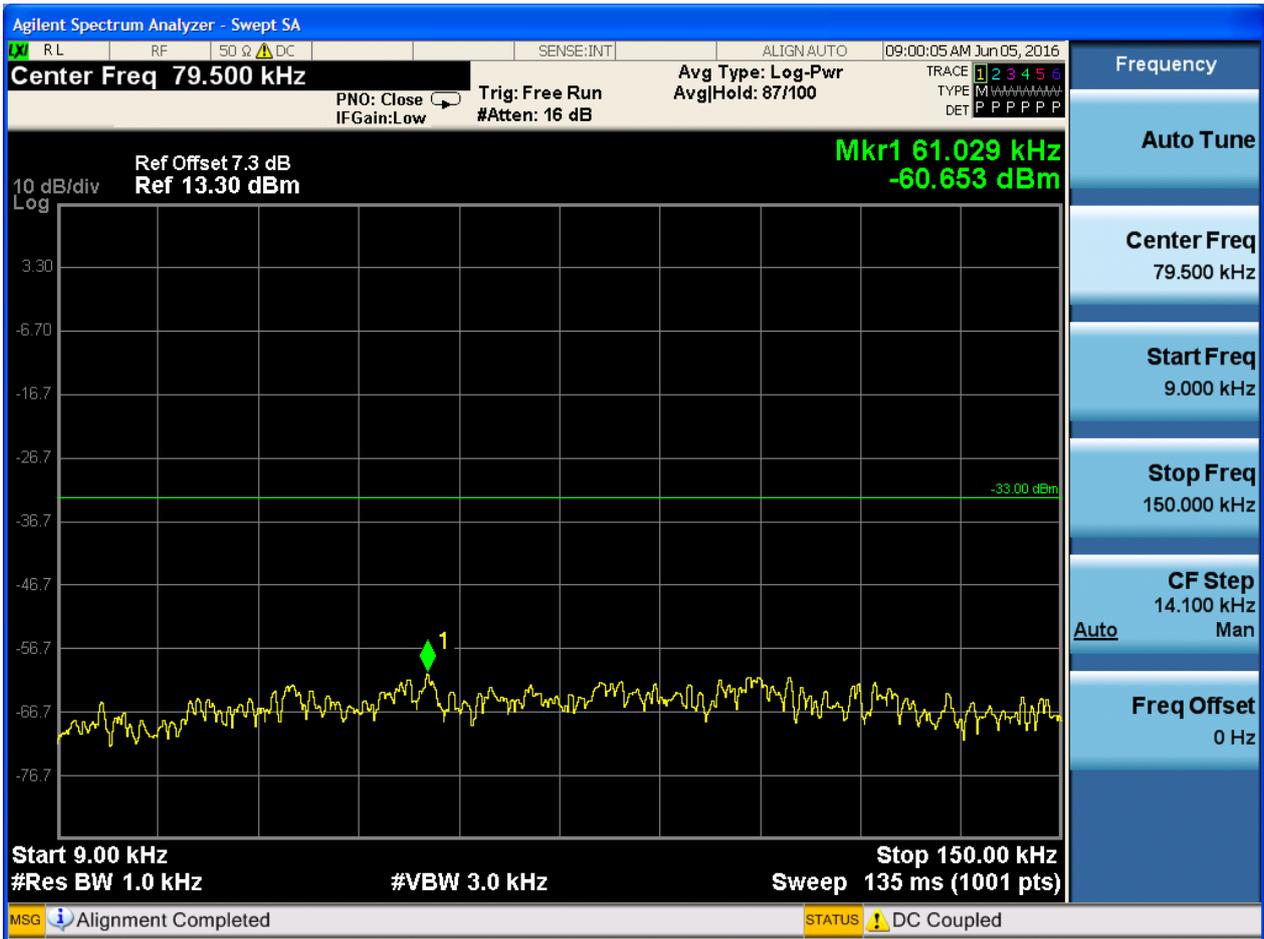


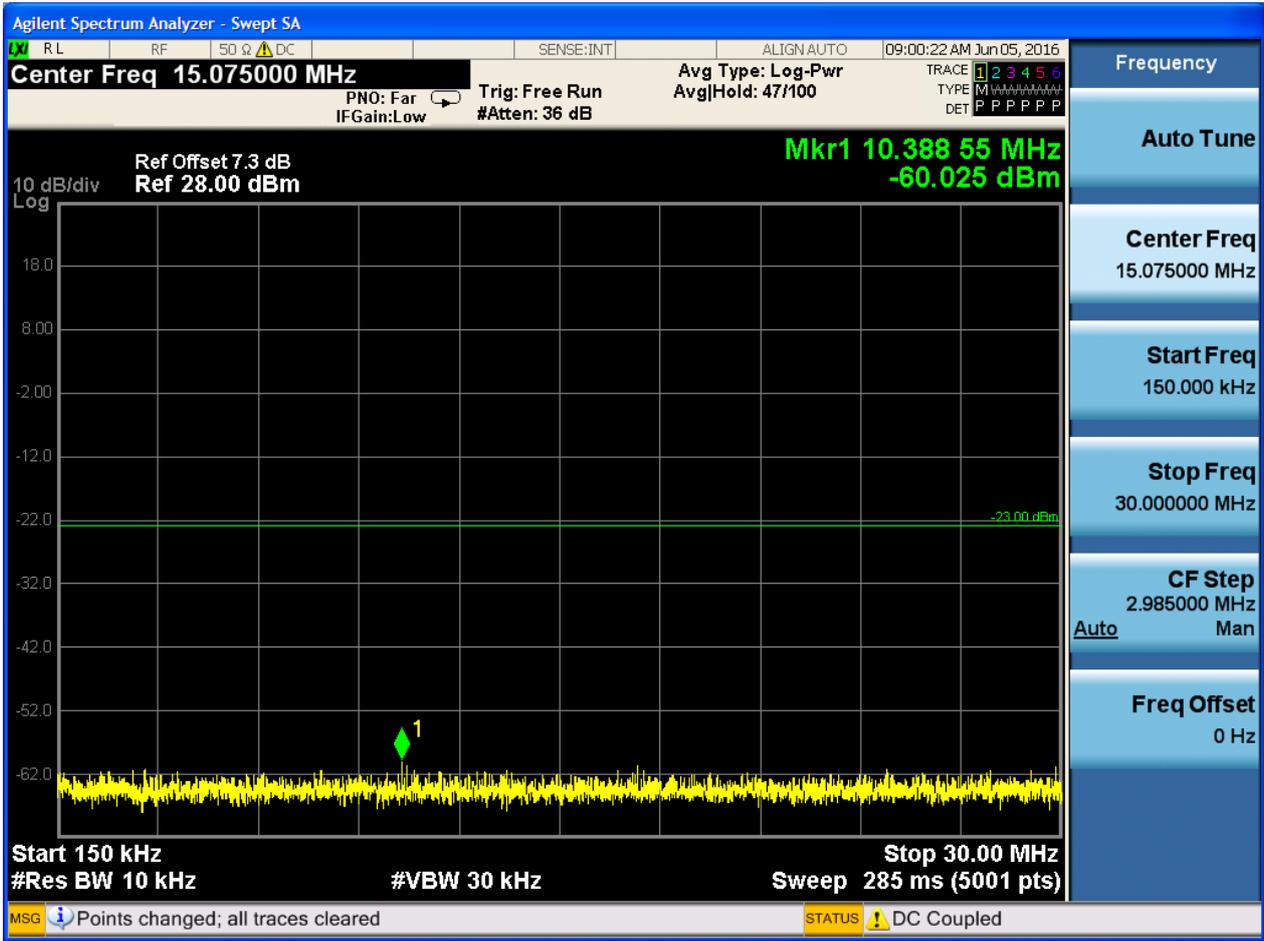


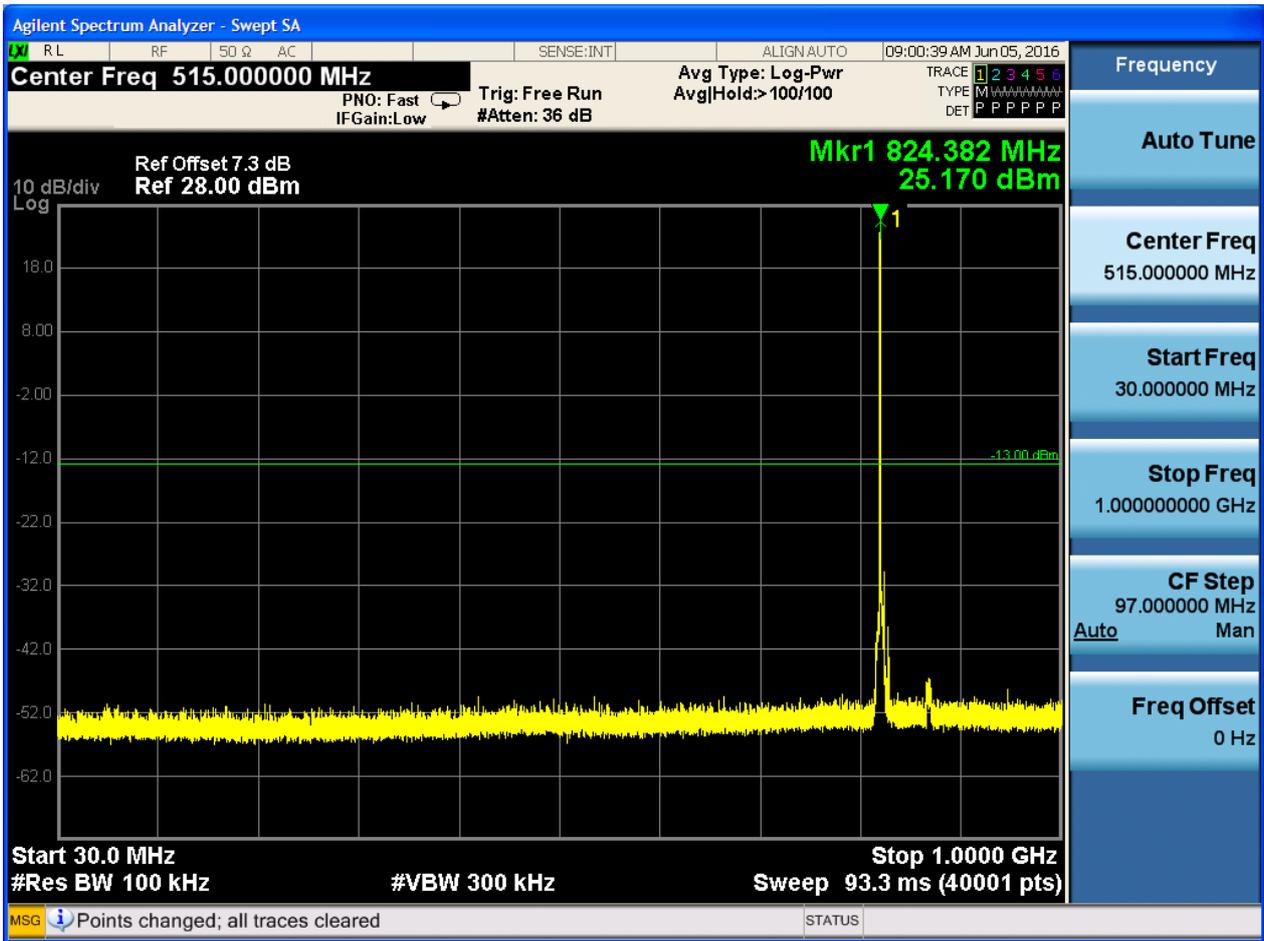
6.1.1.1.3 Test Bandwidth = 5

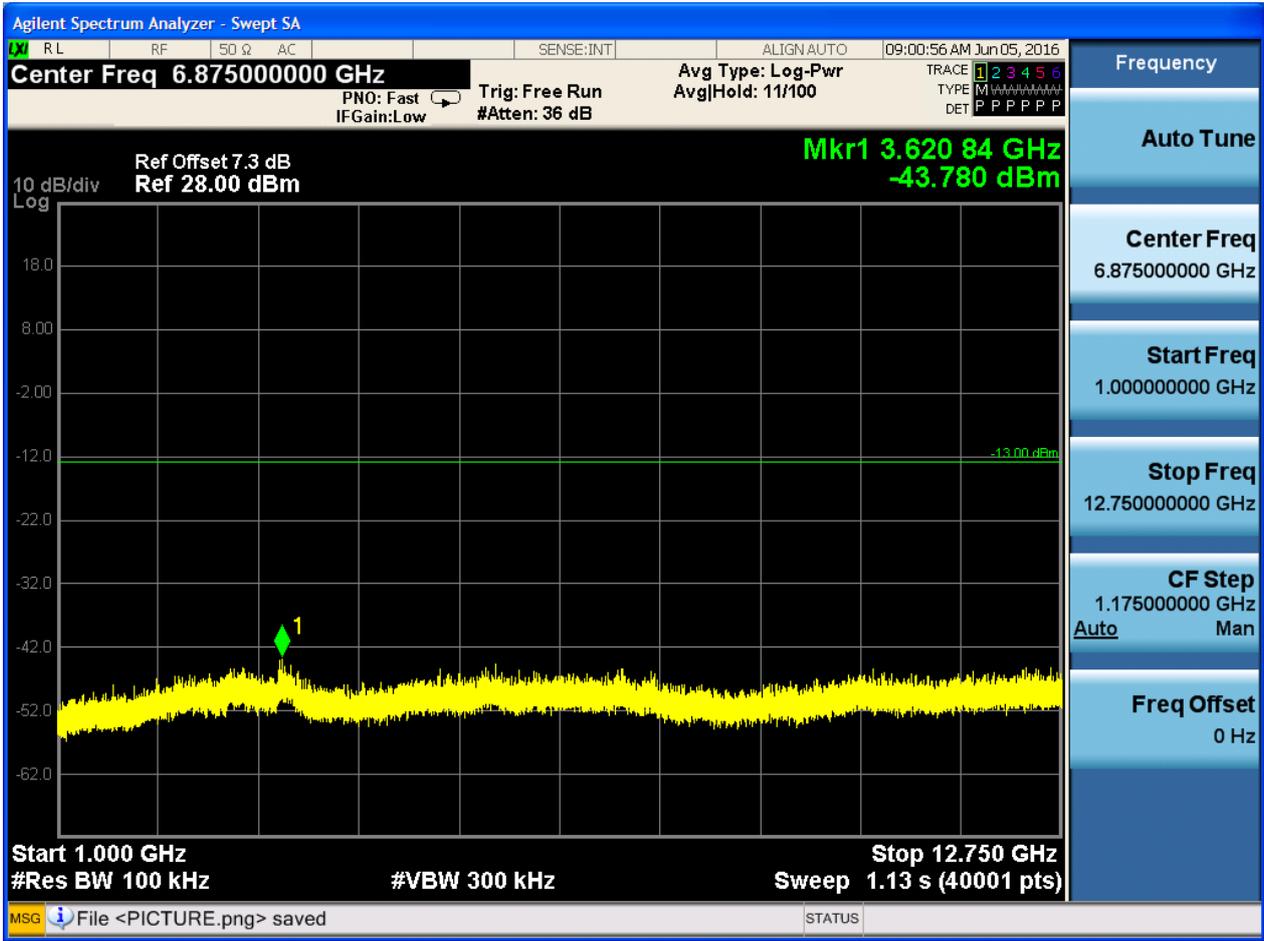
6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0





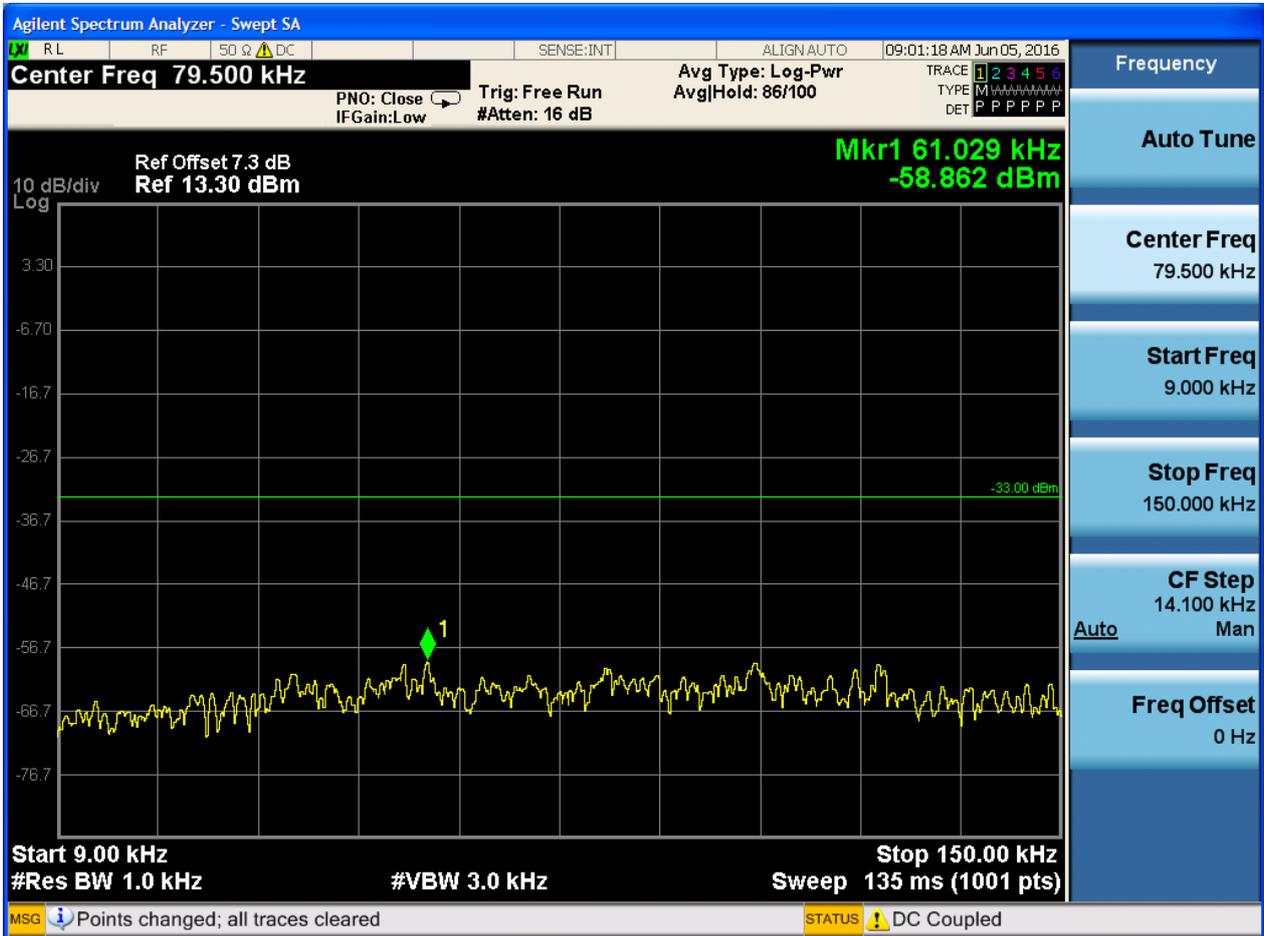




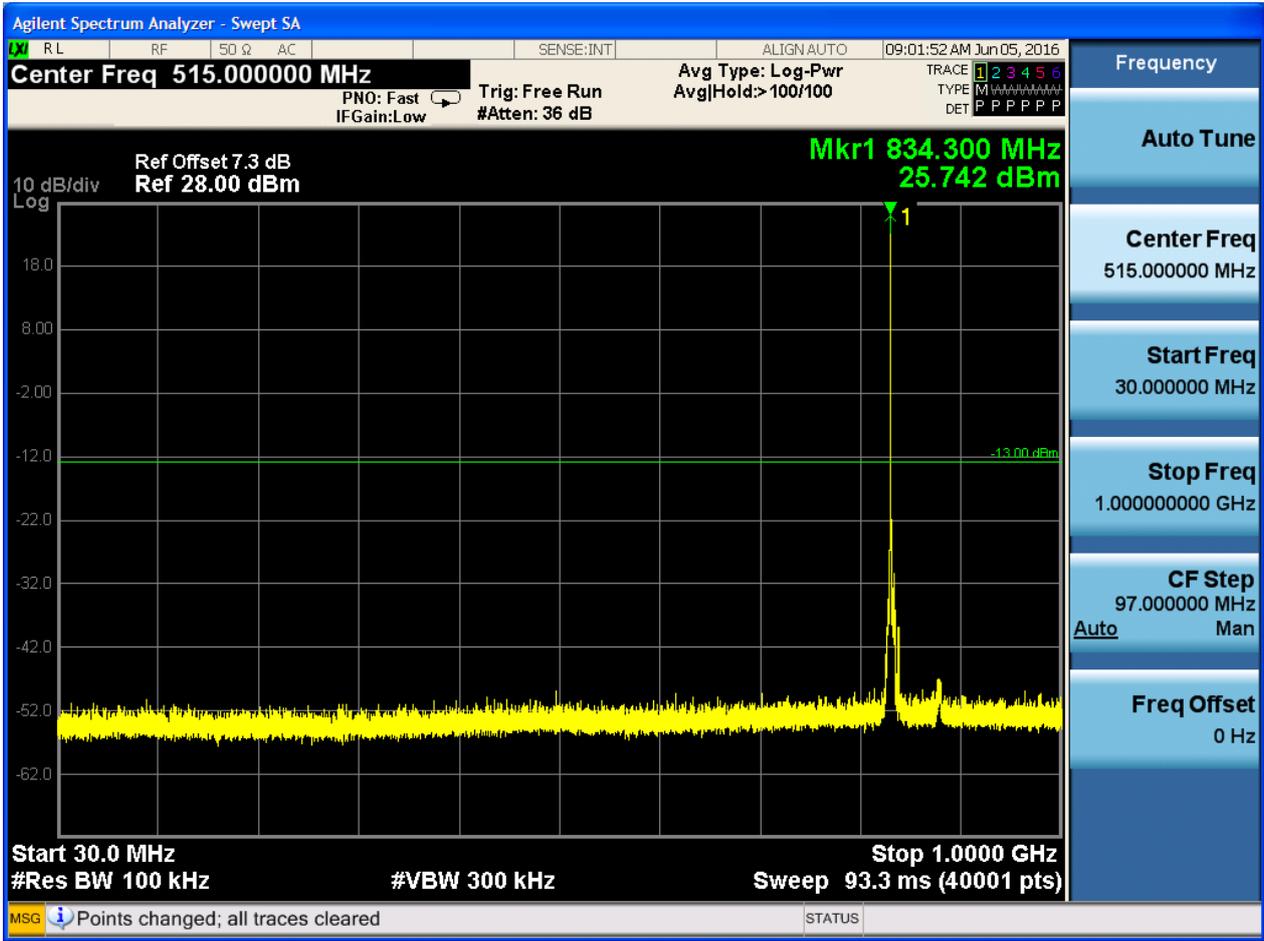


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0





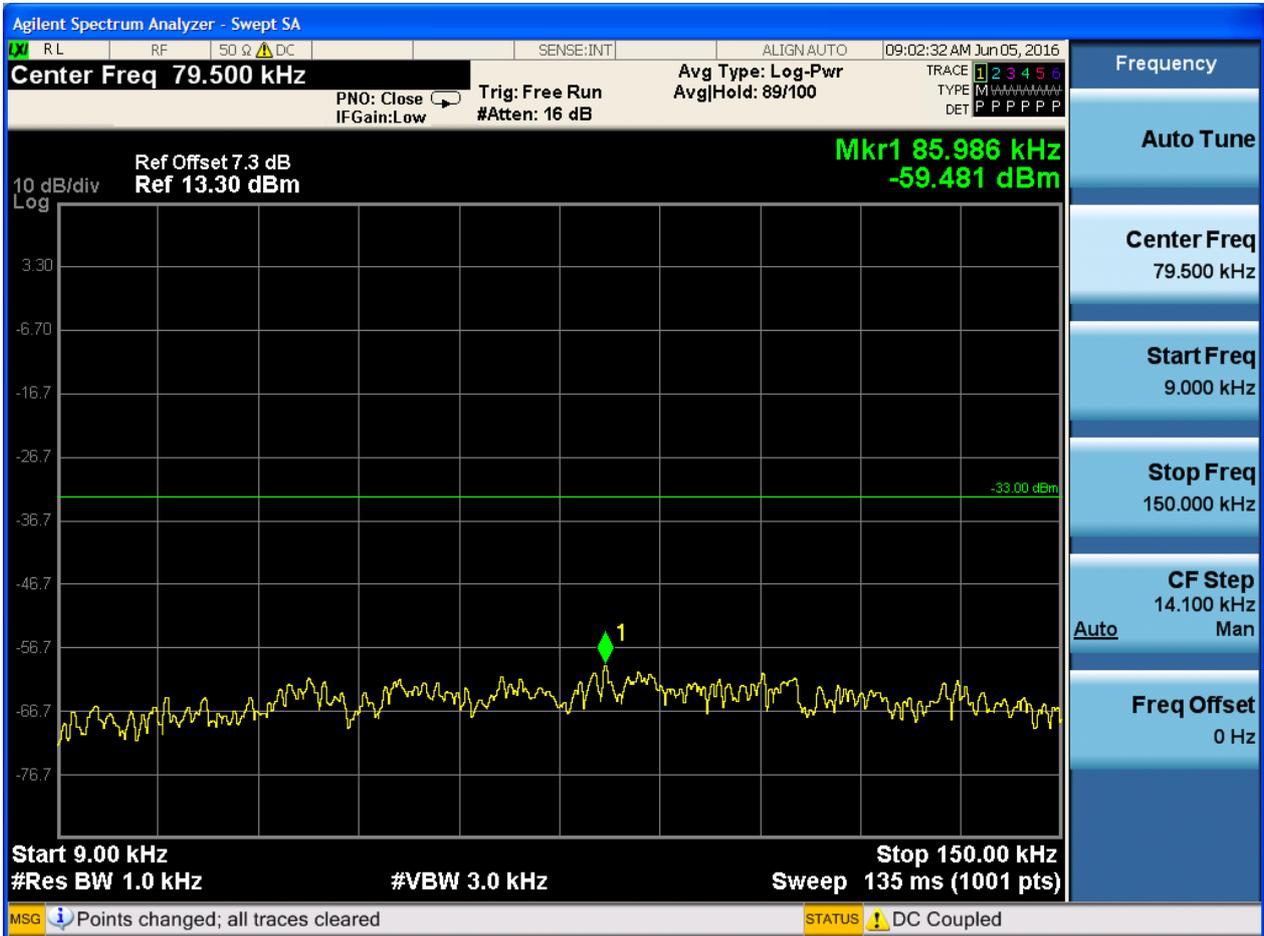


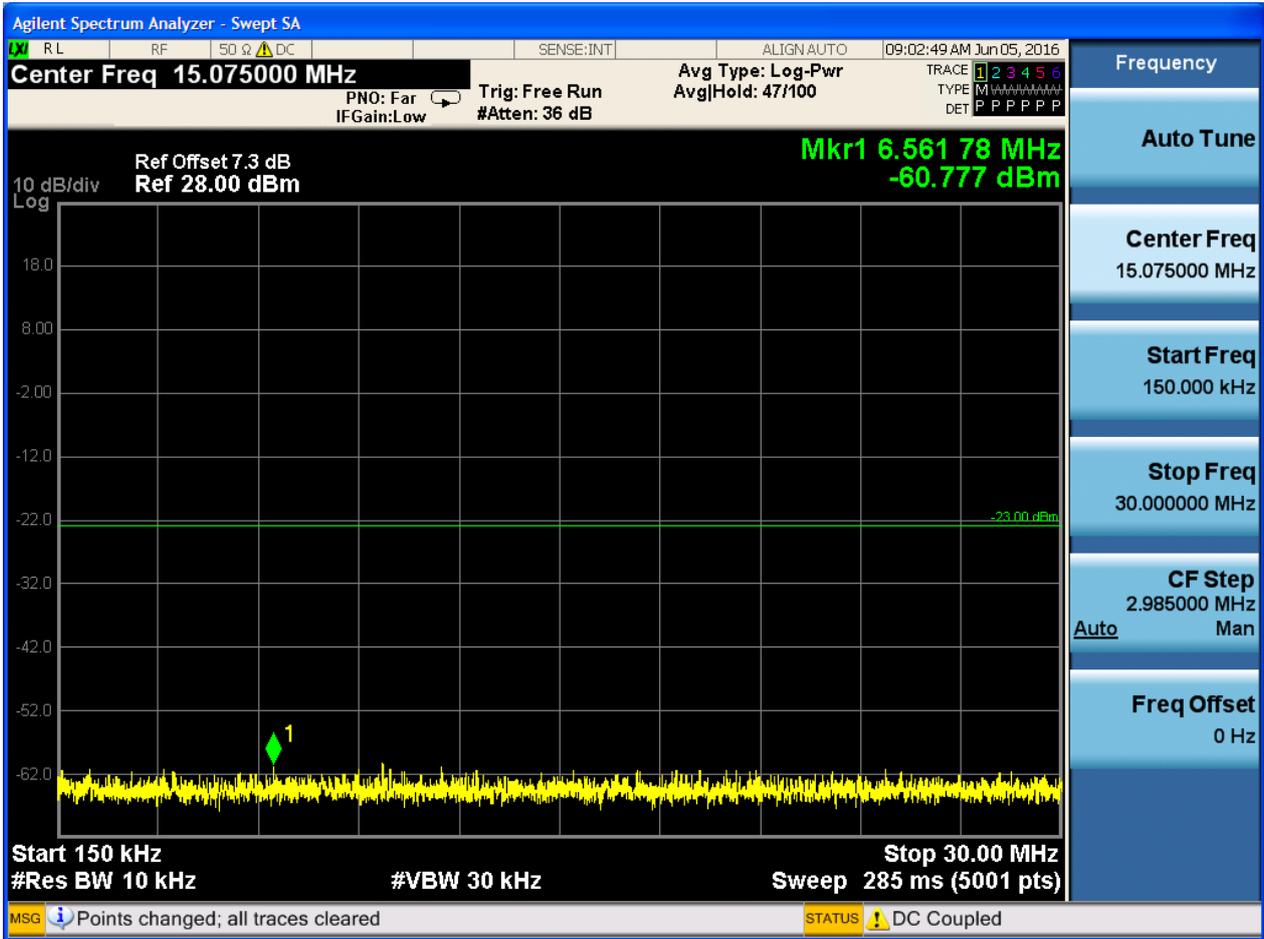


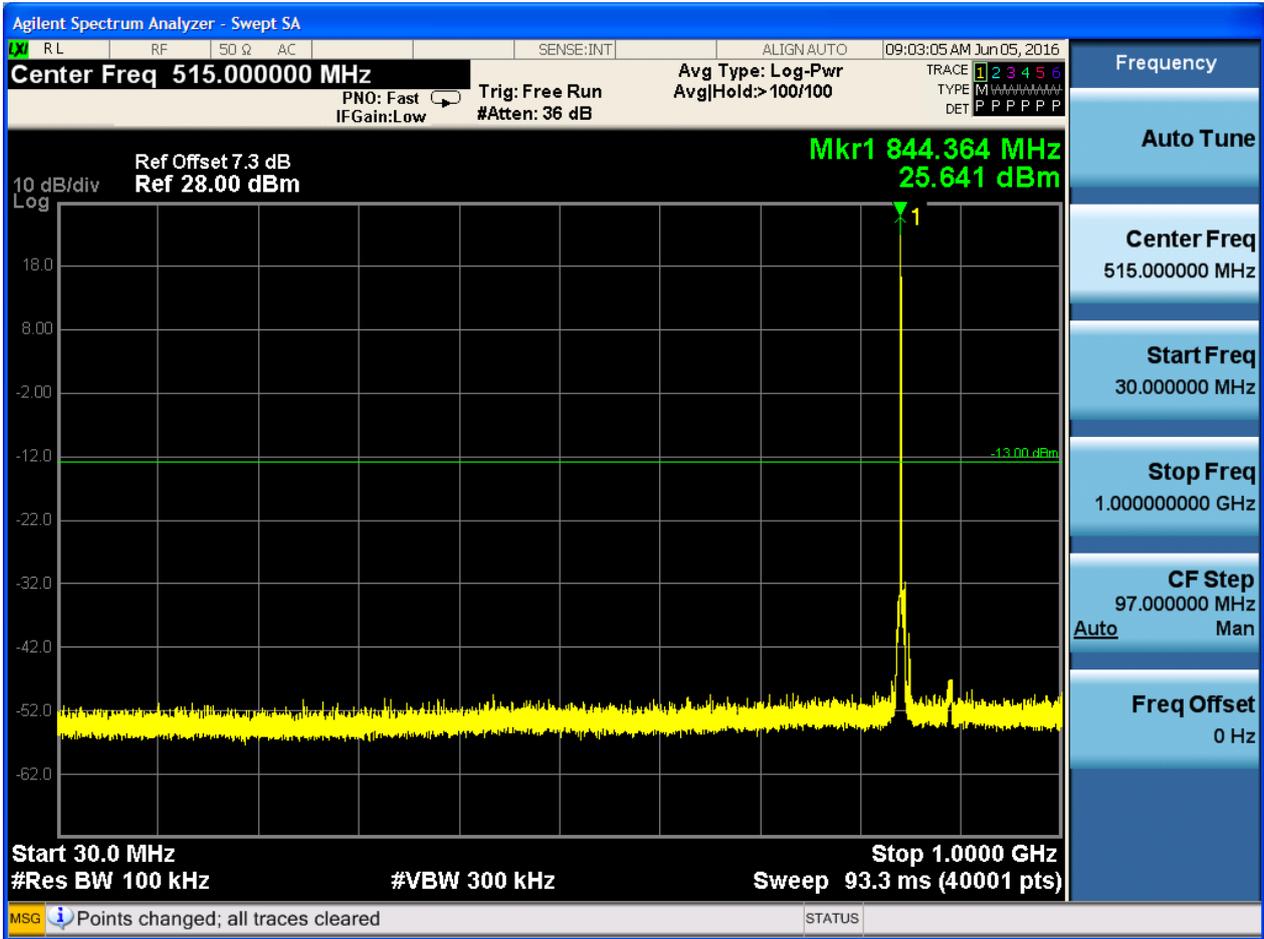


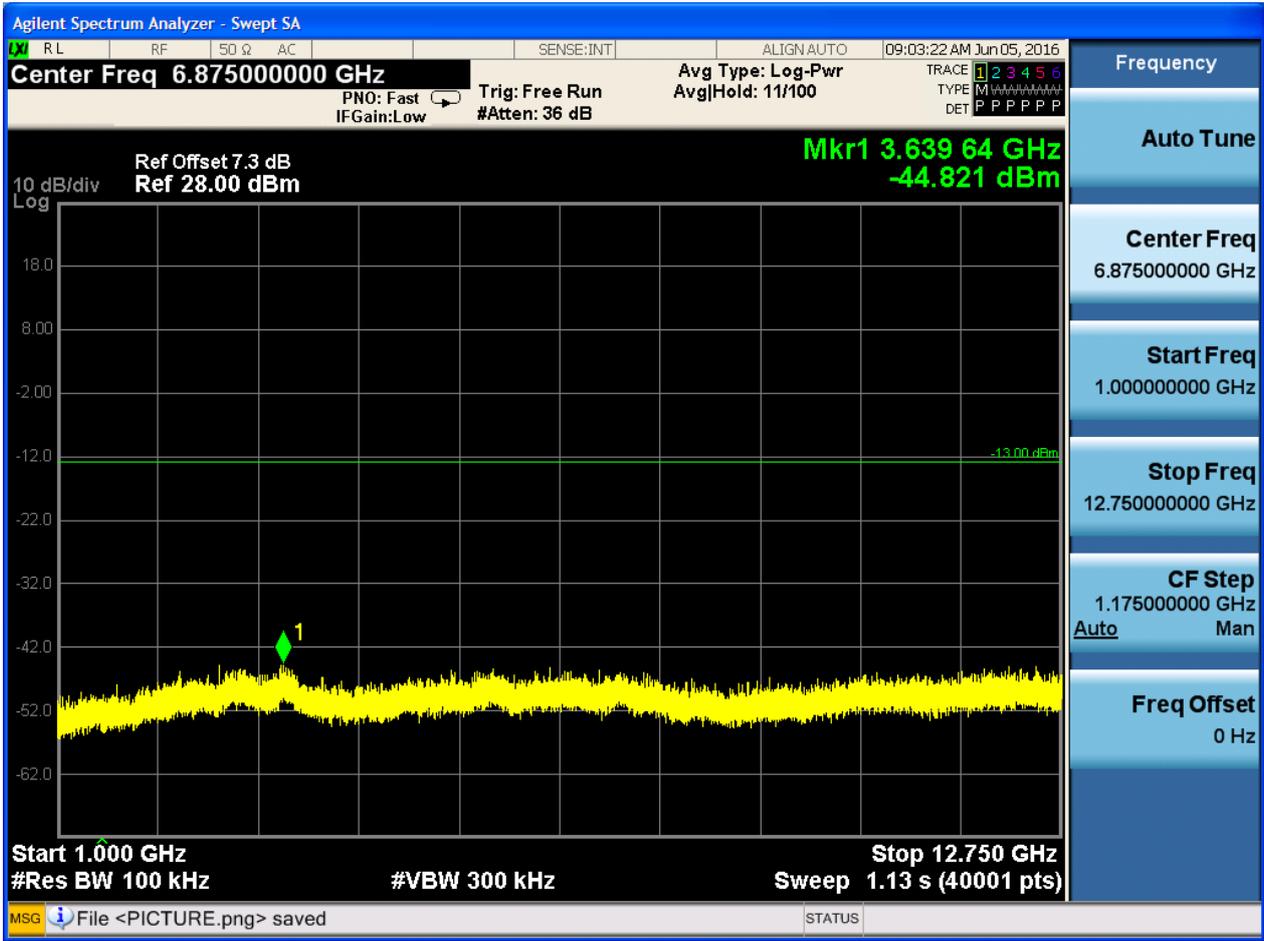
6.1.1.1.3.3 Test Channel = HCH

6.1.1.1.3.3.1 Test RB = RB1#0







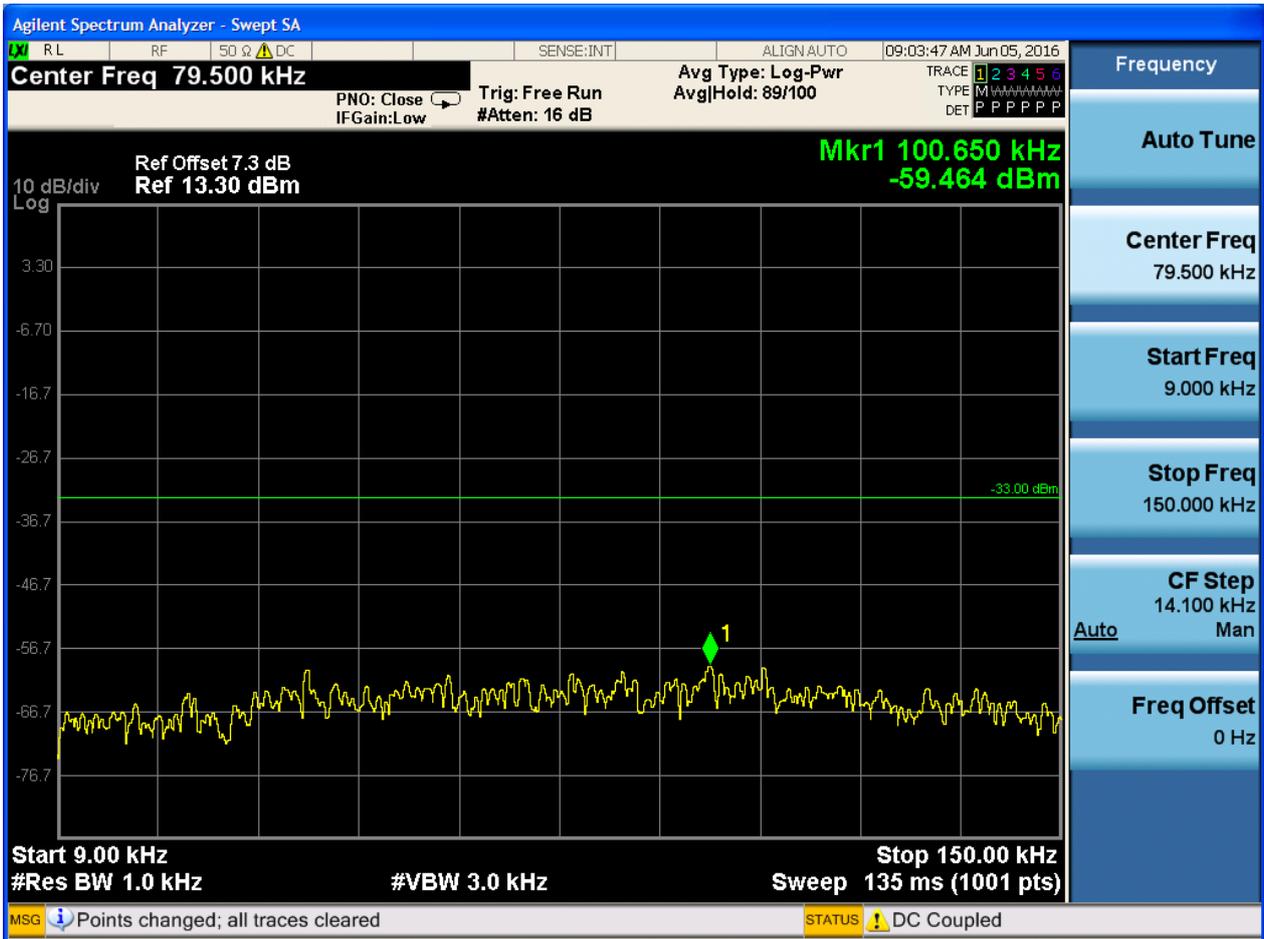


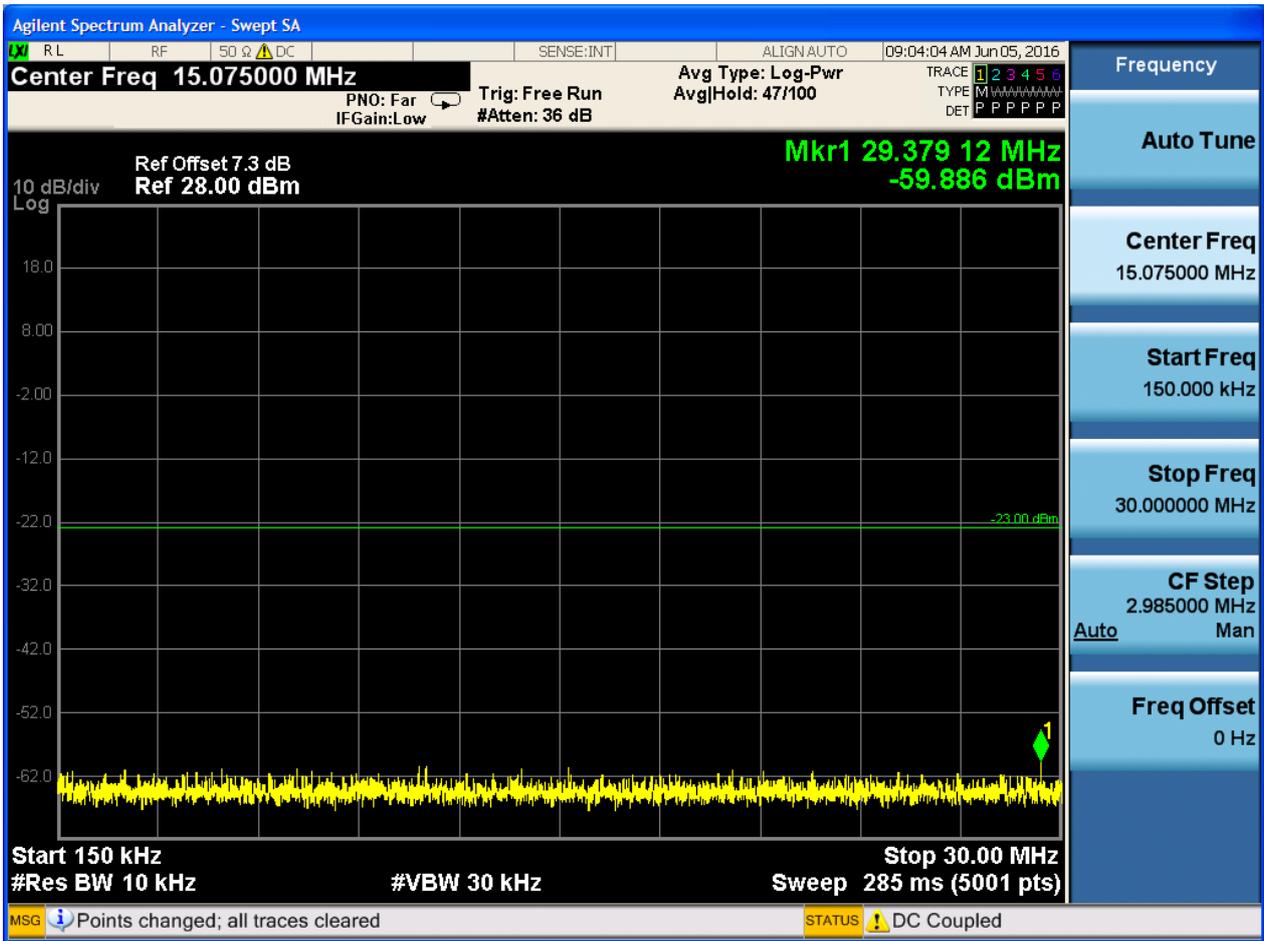


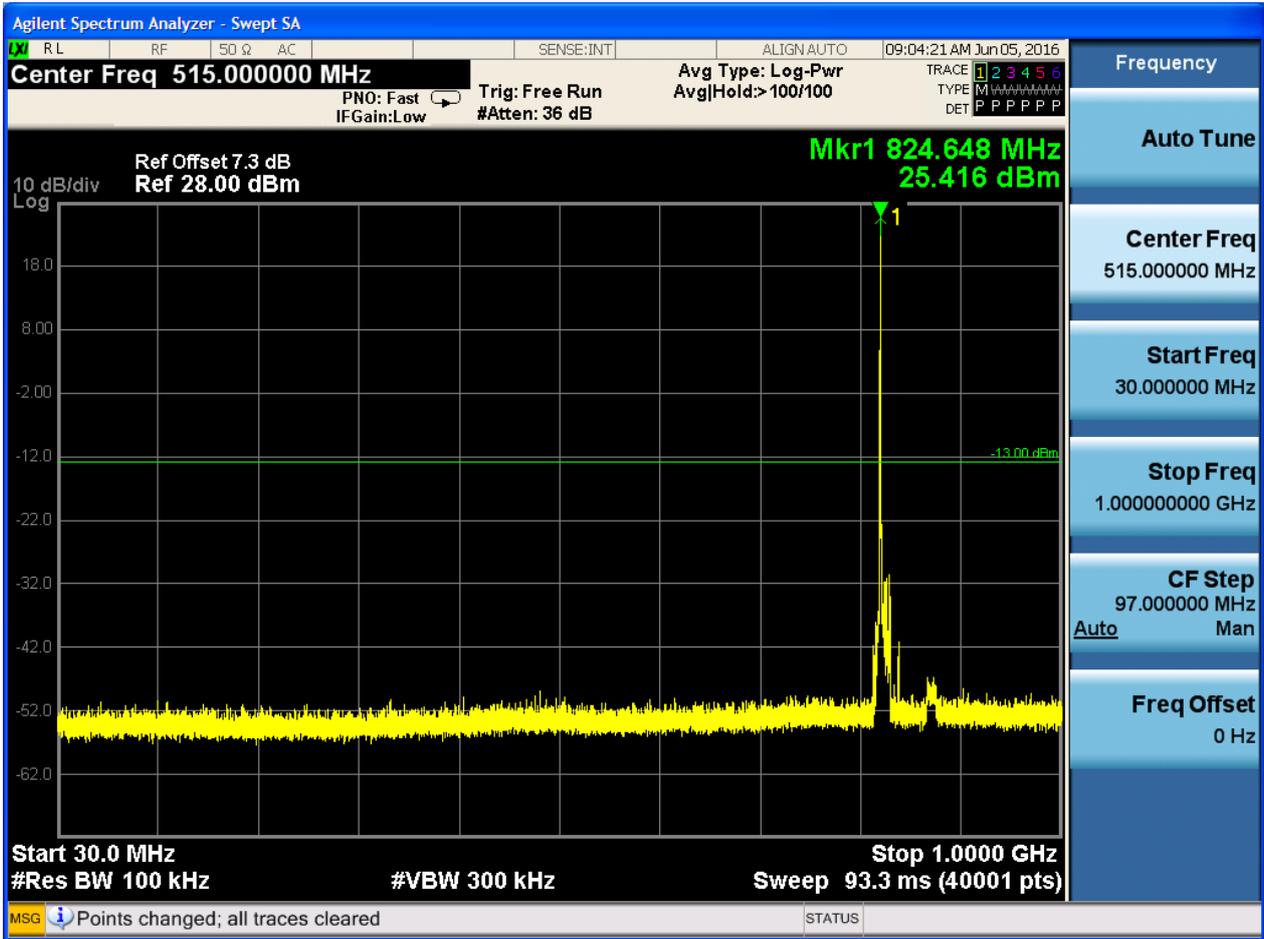
6.1.1.1.4 Test Bandwidth = 10

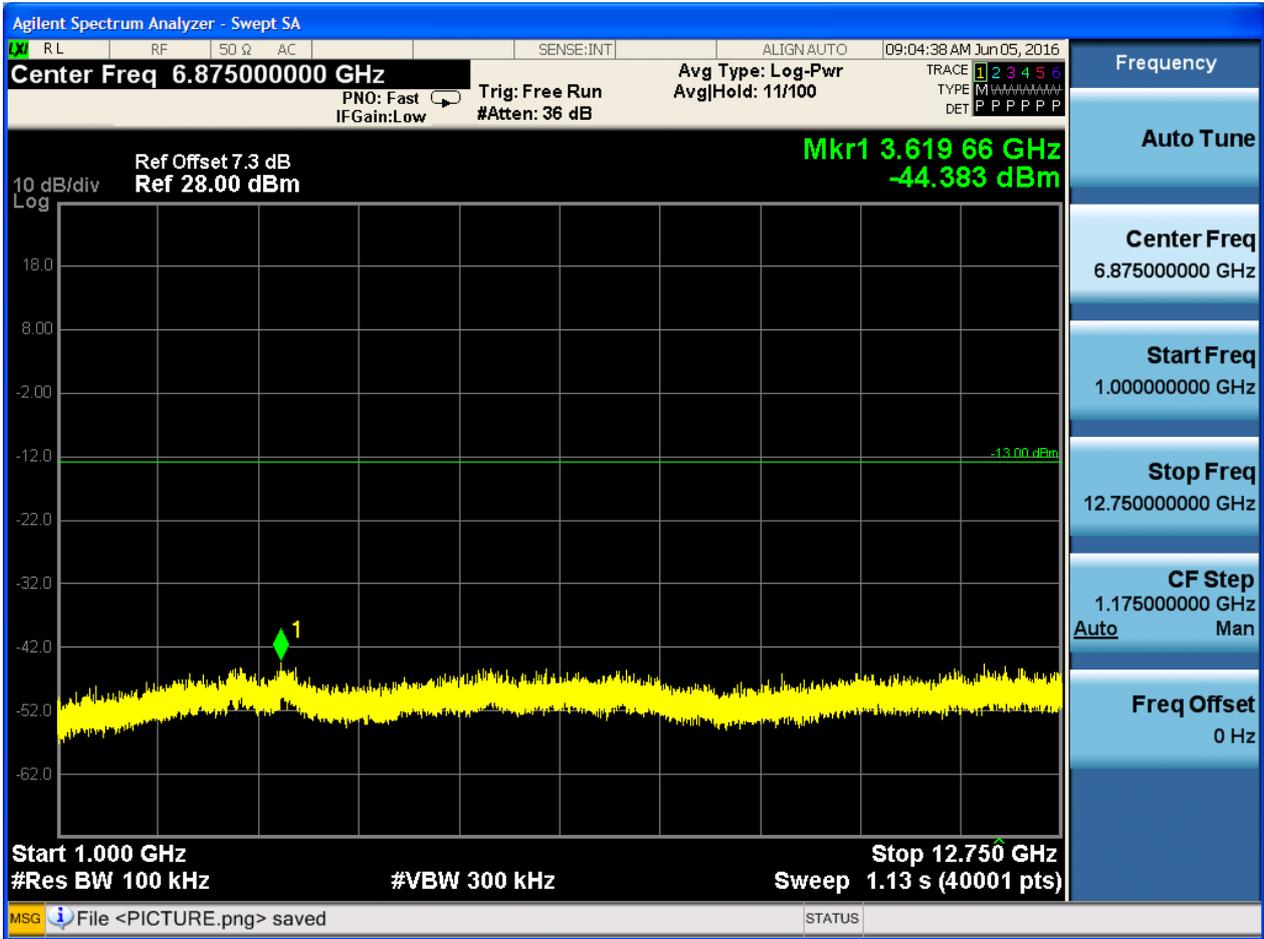
6.1.1.1.4.1 Test Channel = LCH

6.1.1.1.4.1.1 Test RB = RB1#0





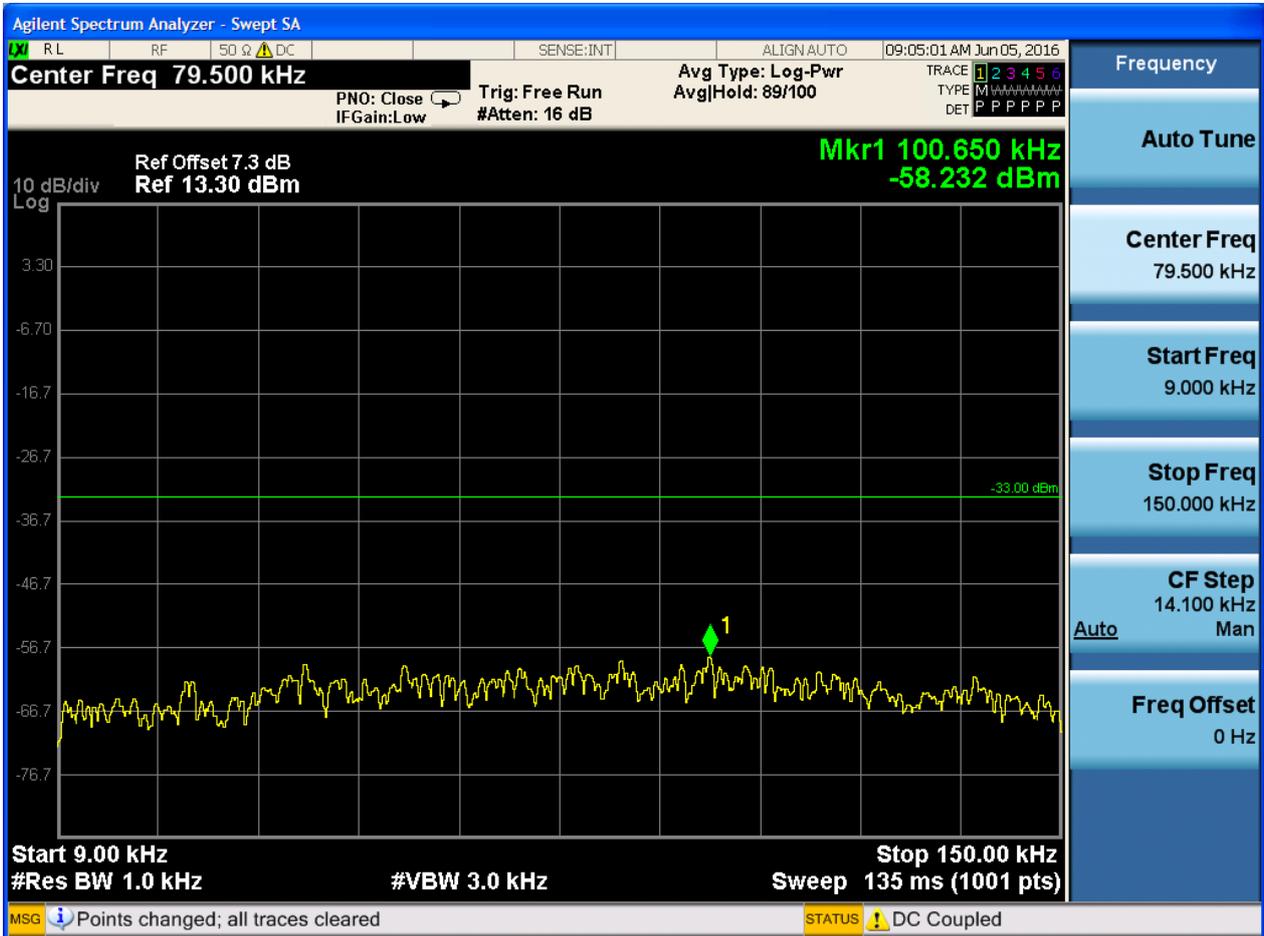


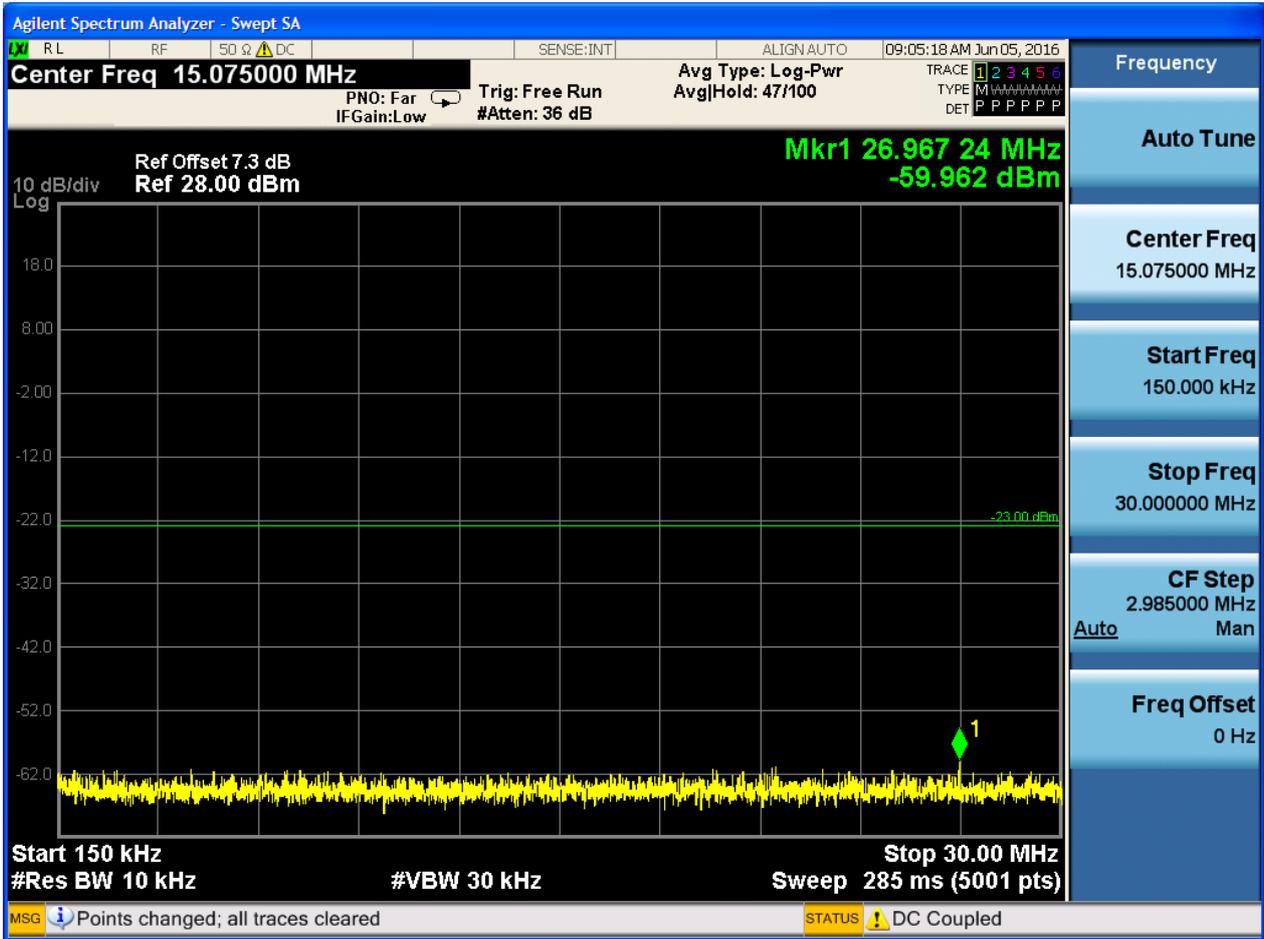


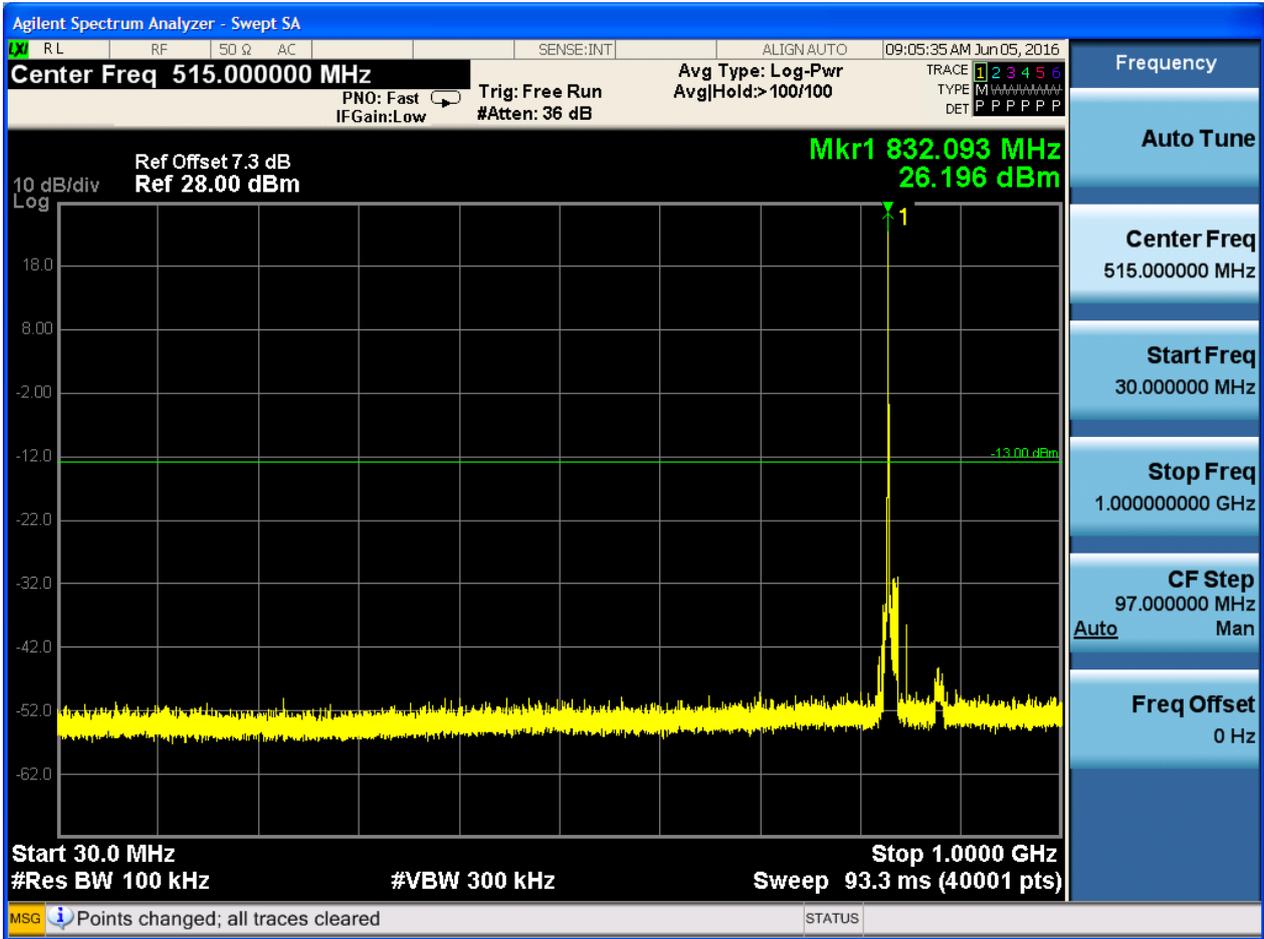


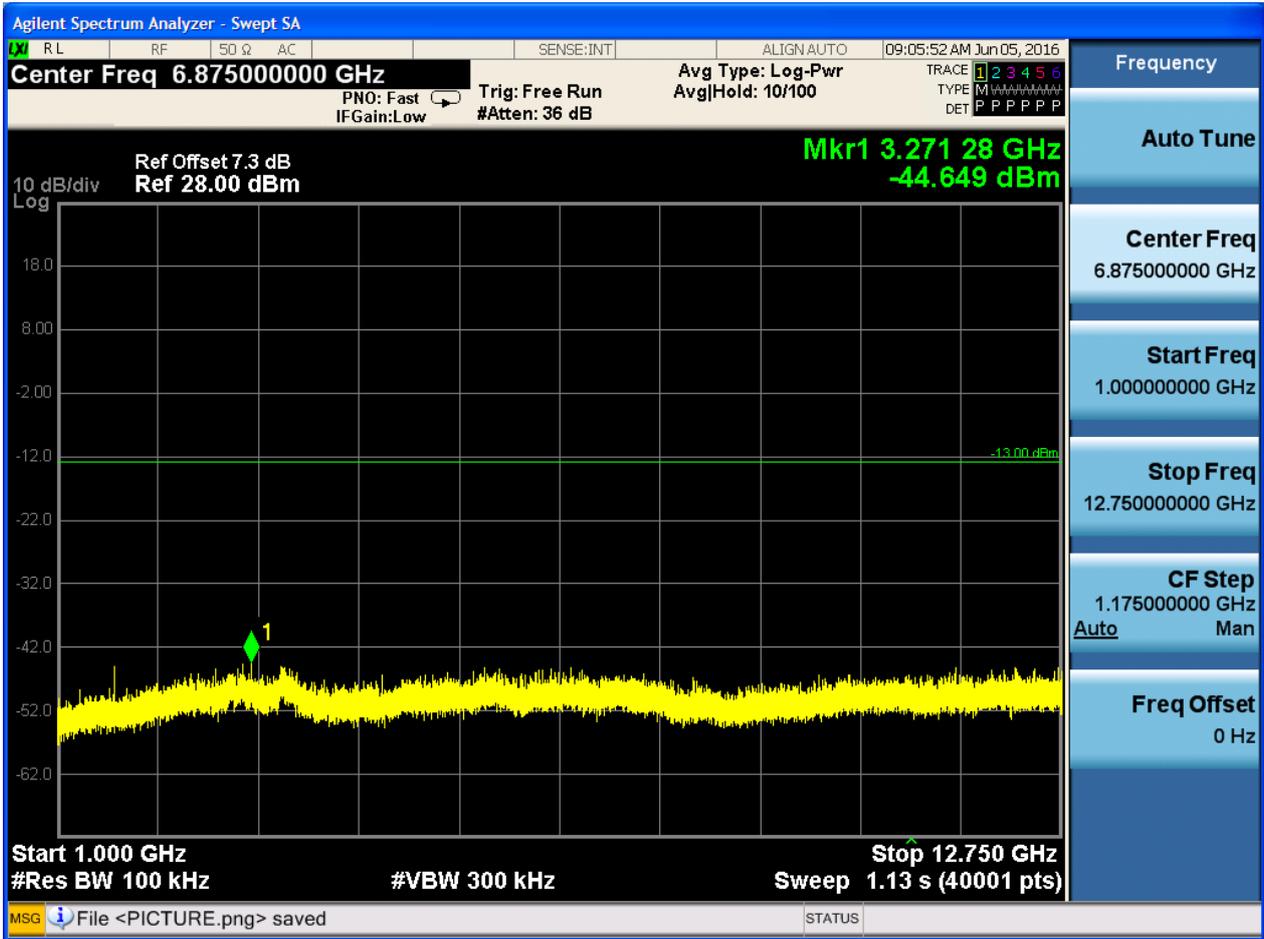
6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0





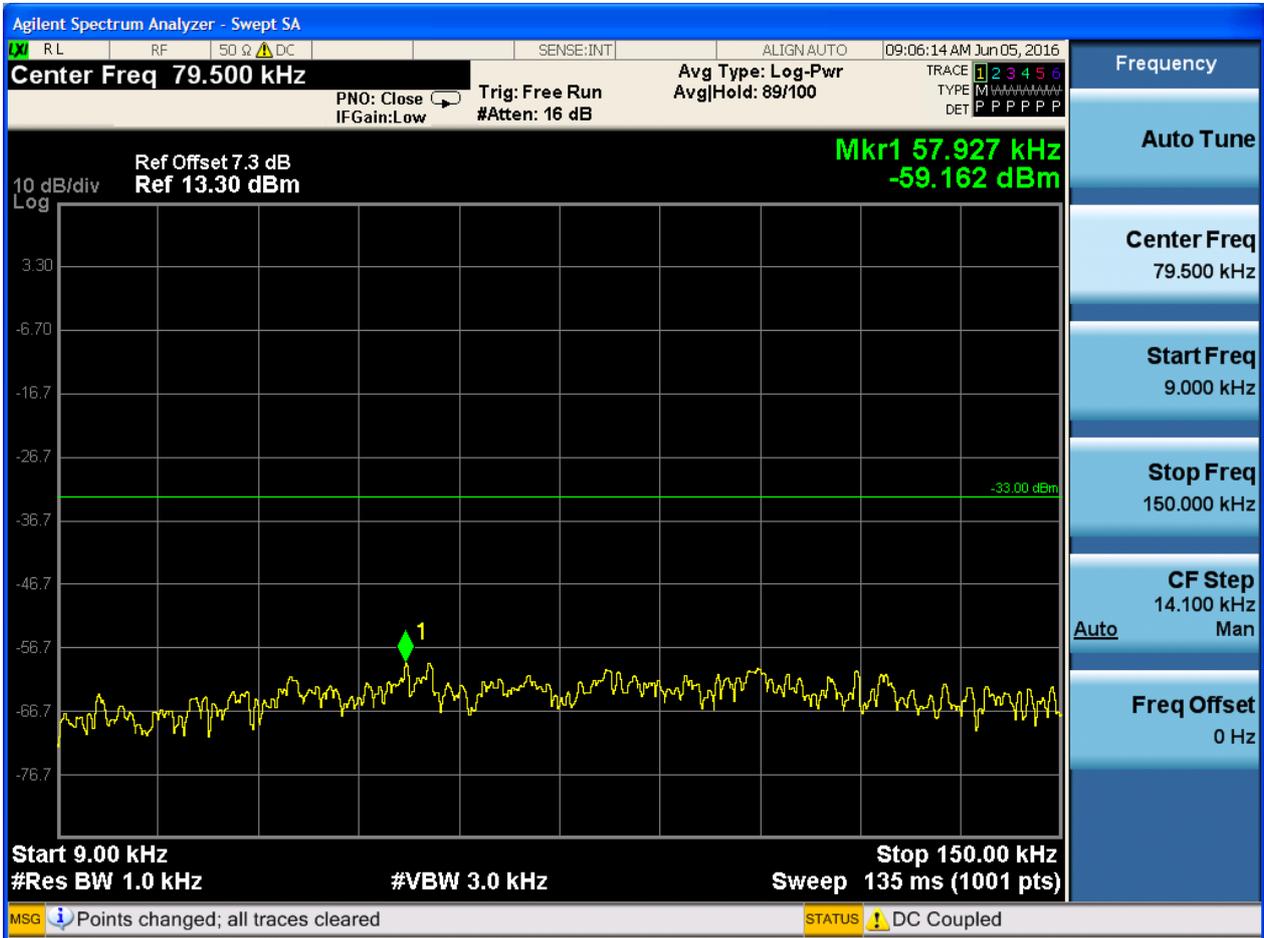


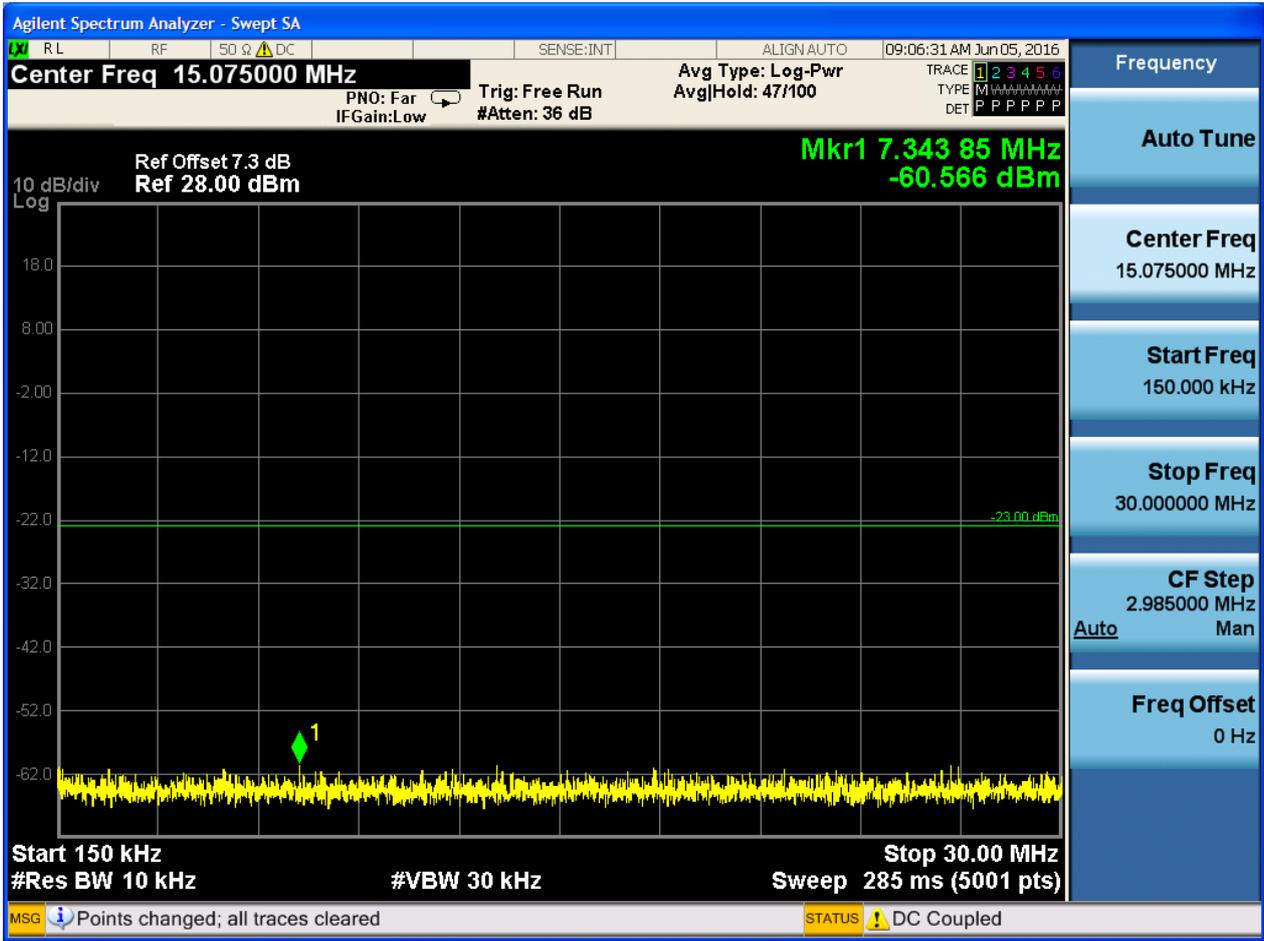


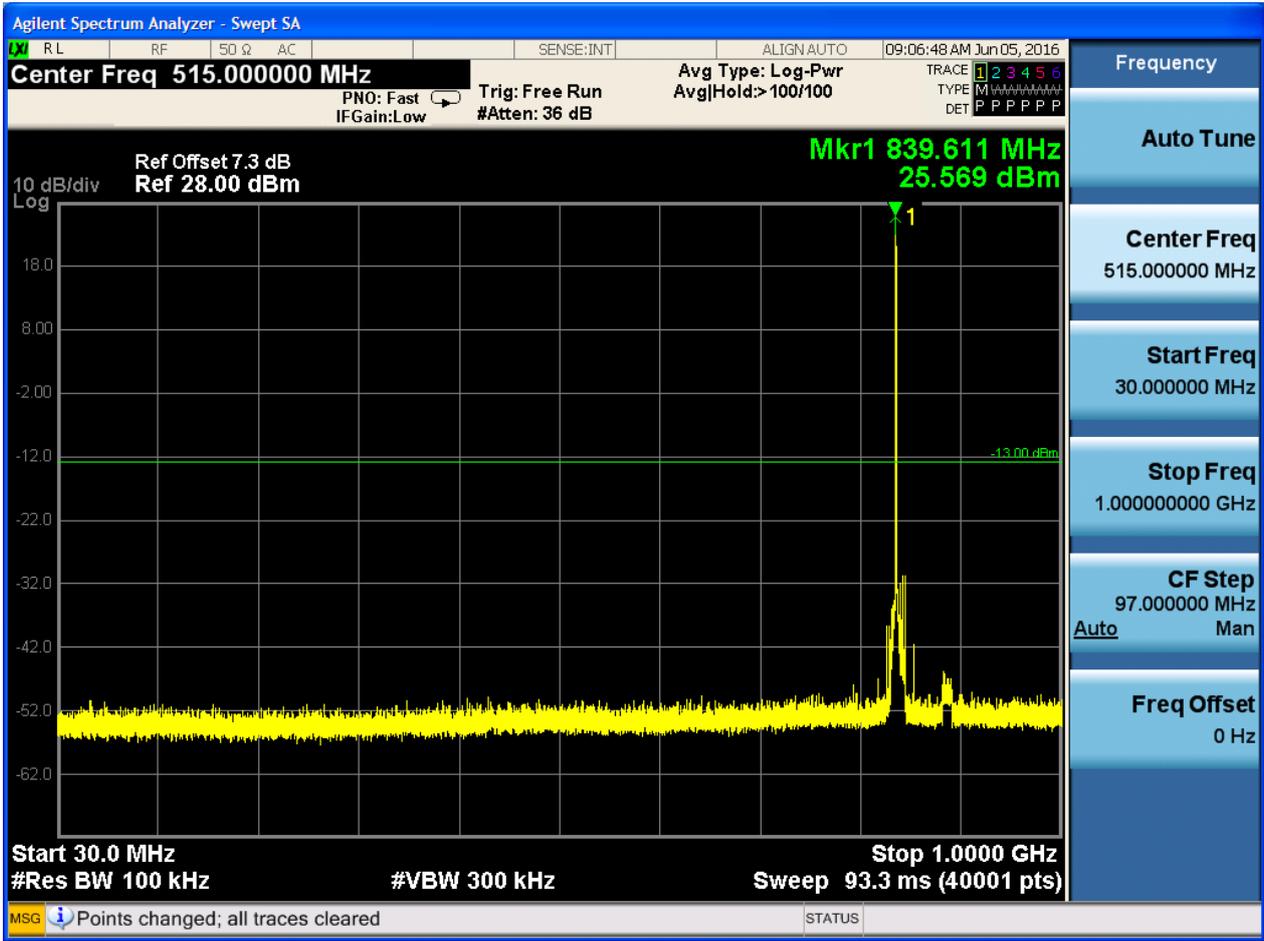


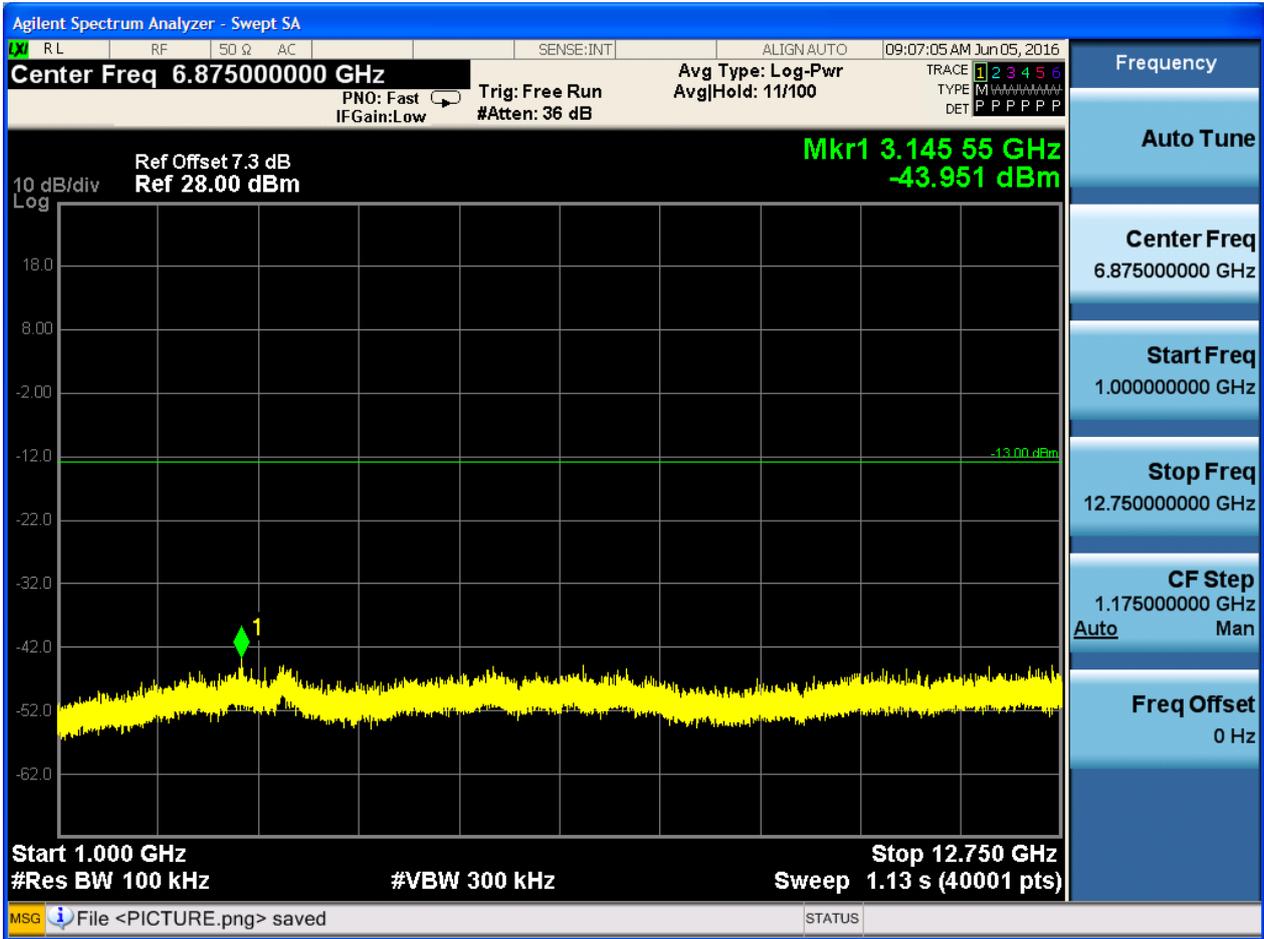
6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0









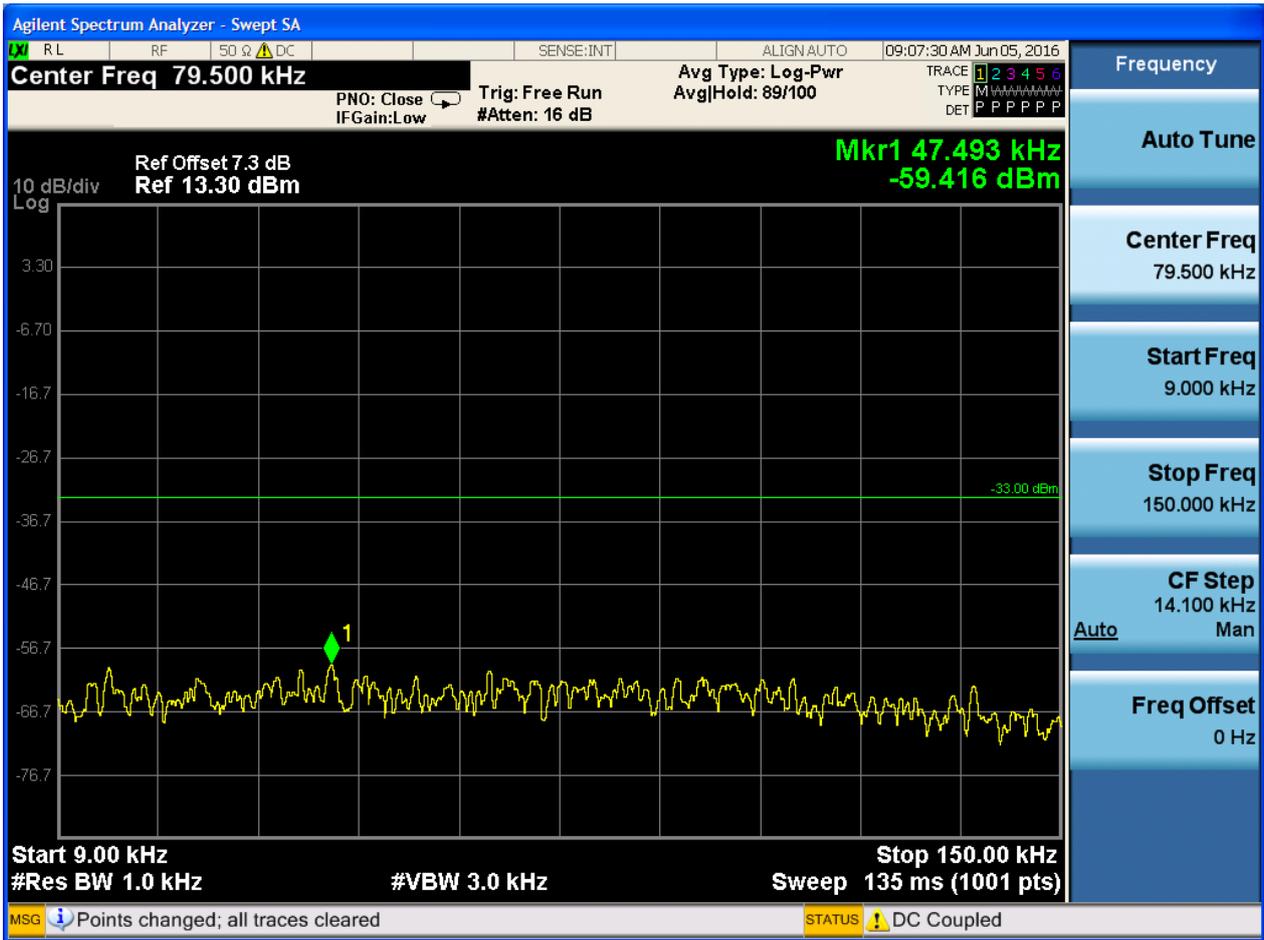


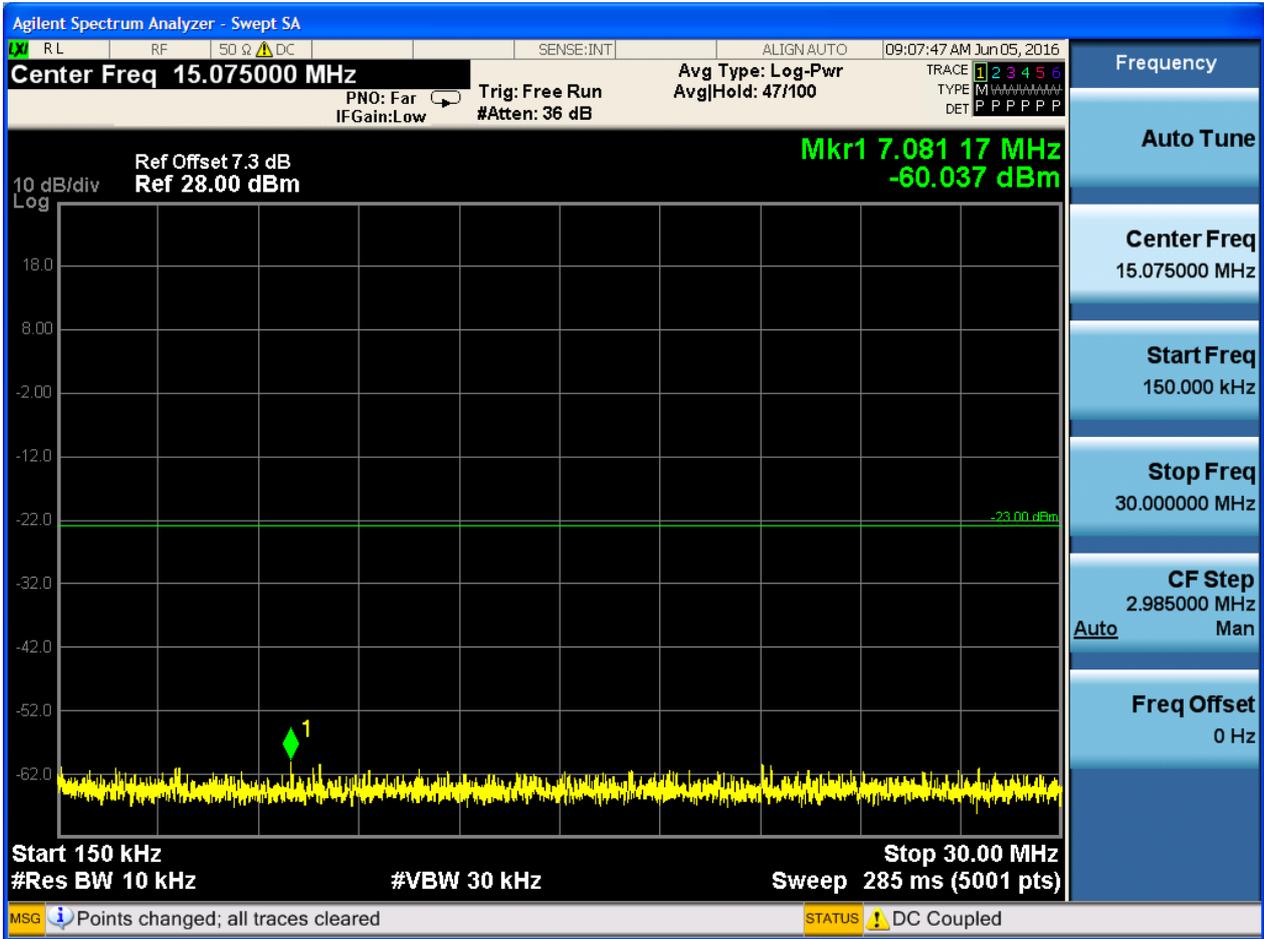
6.1.1.2 Test Mode = LTE/TM2

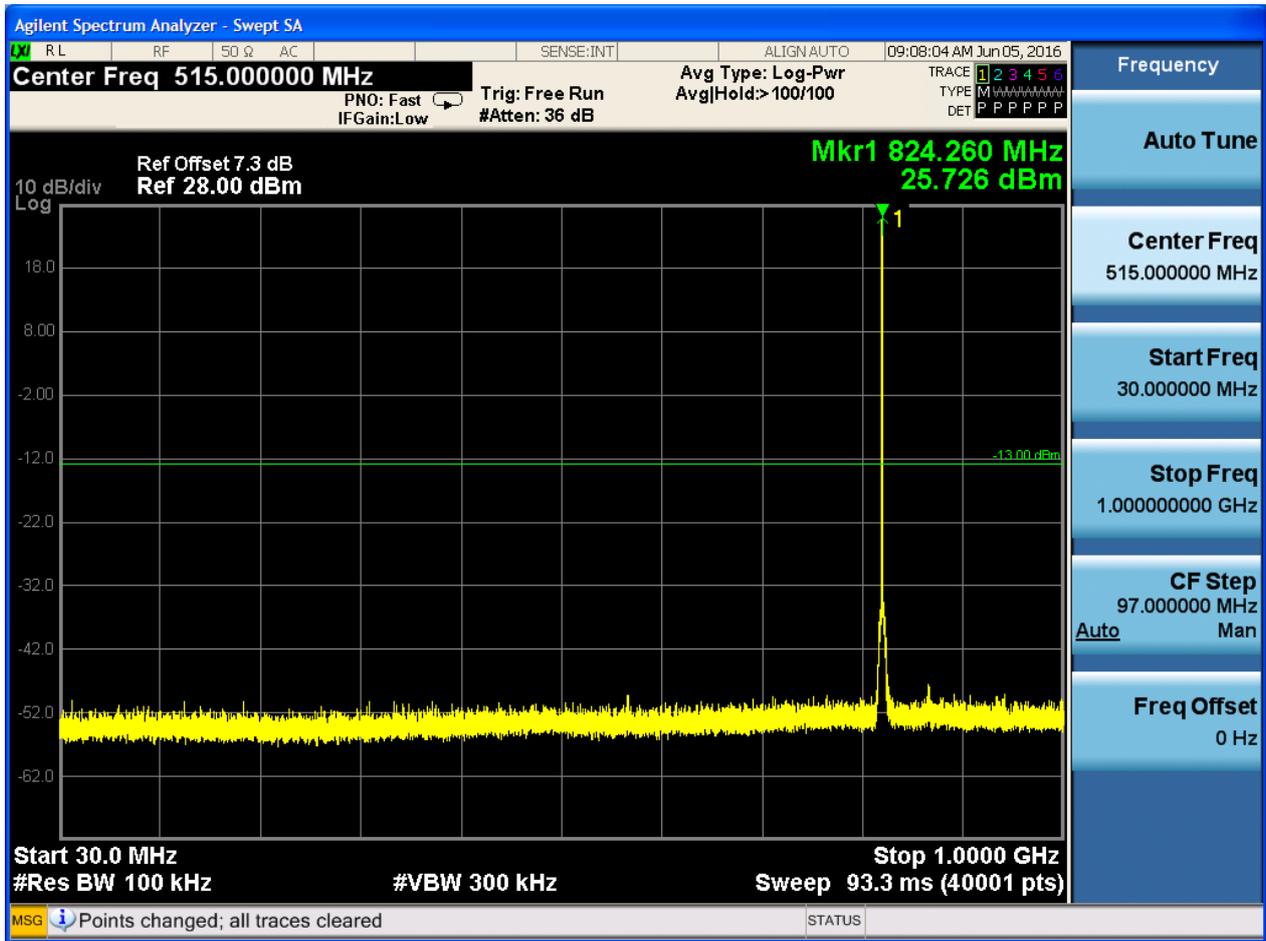
6.1.1.2.1 Test Bandwidth = 1.4

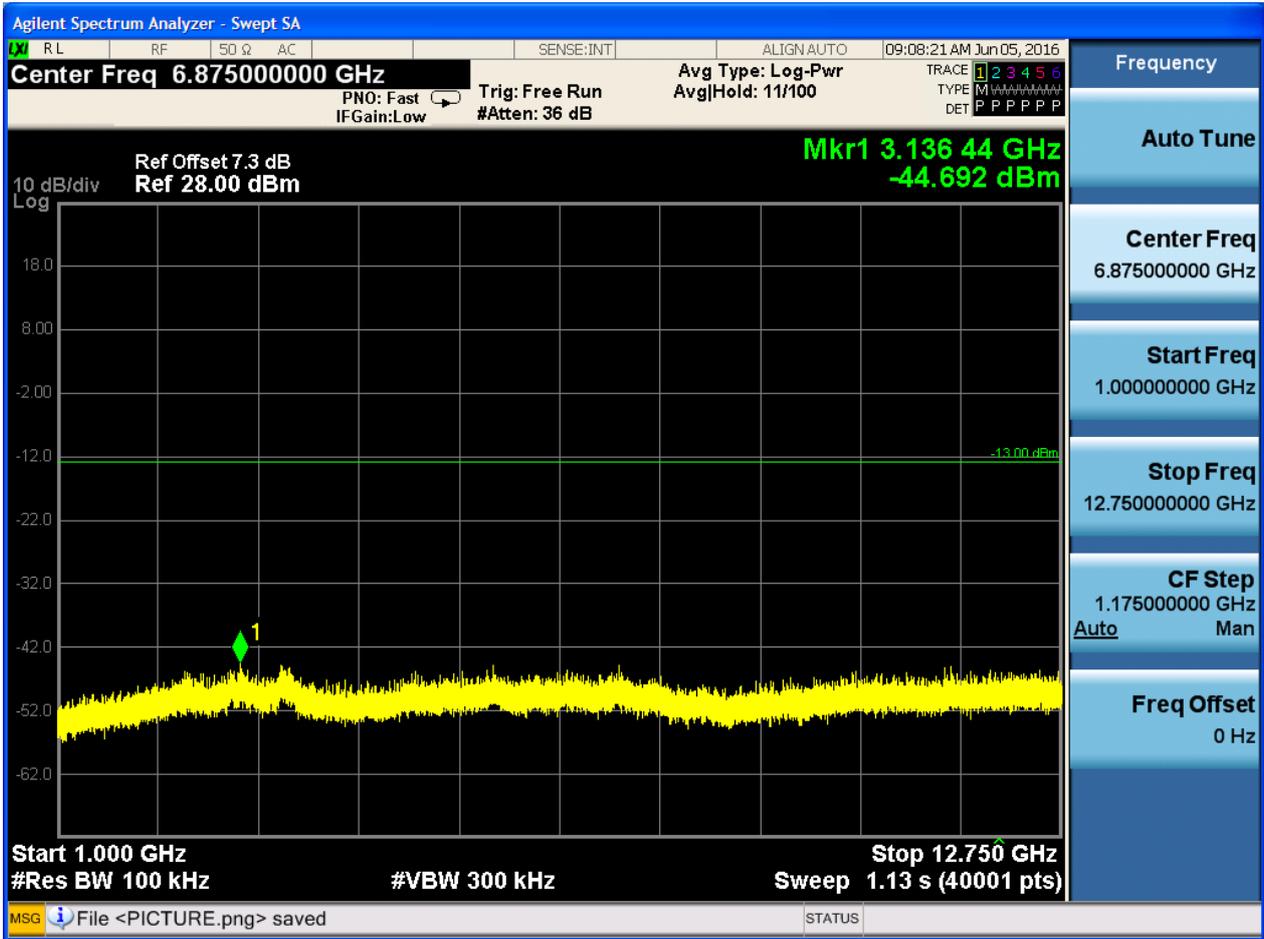
6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0





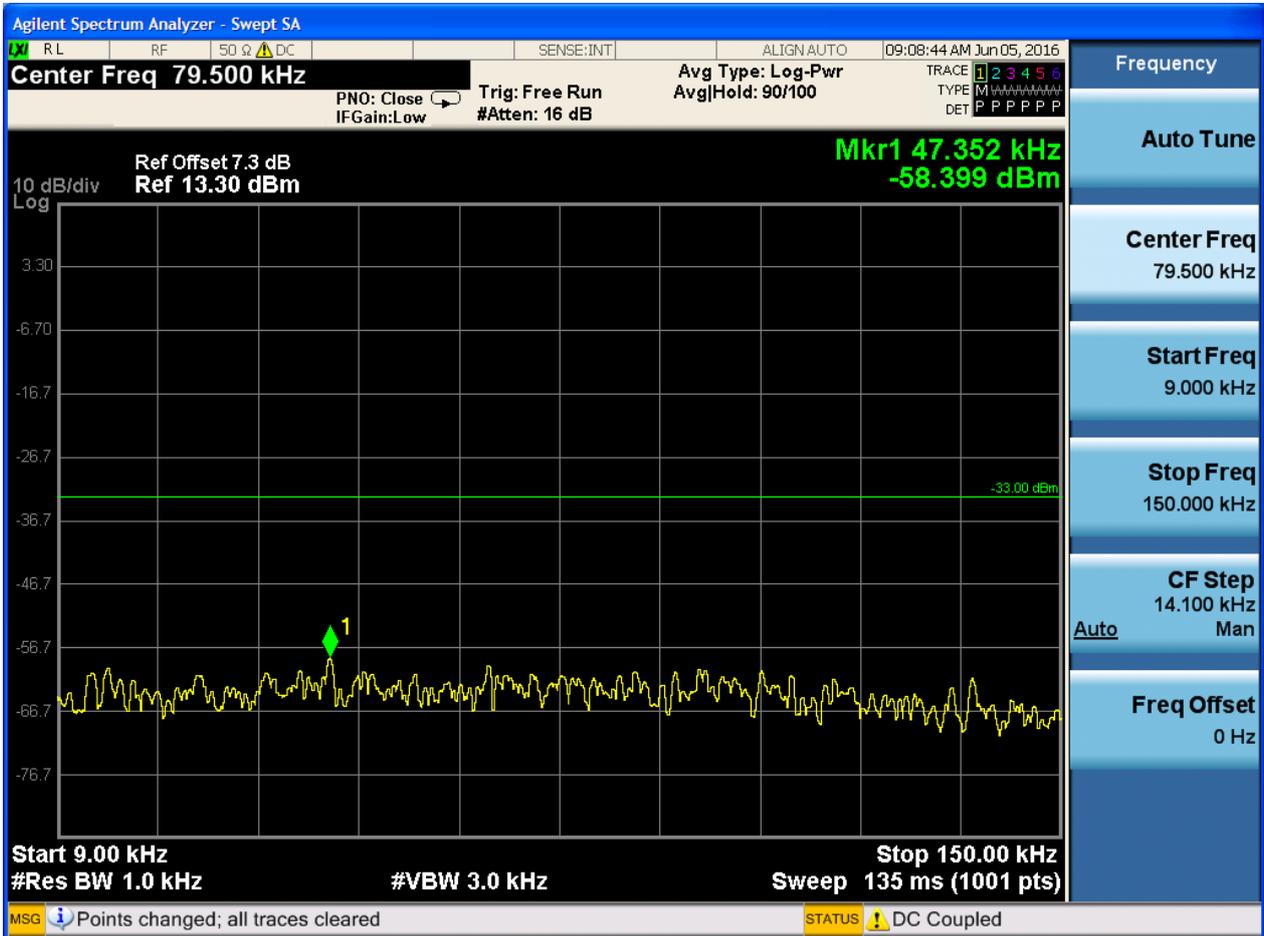


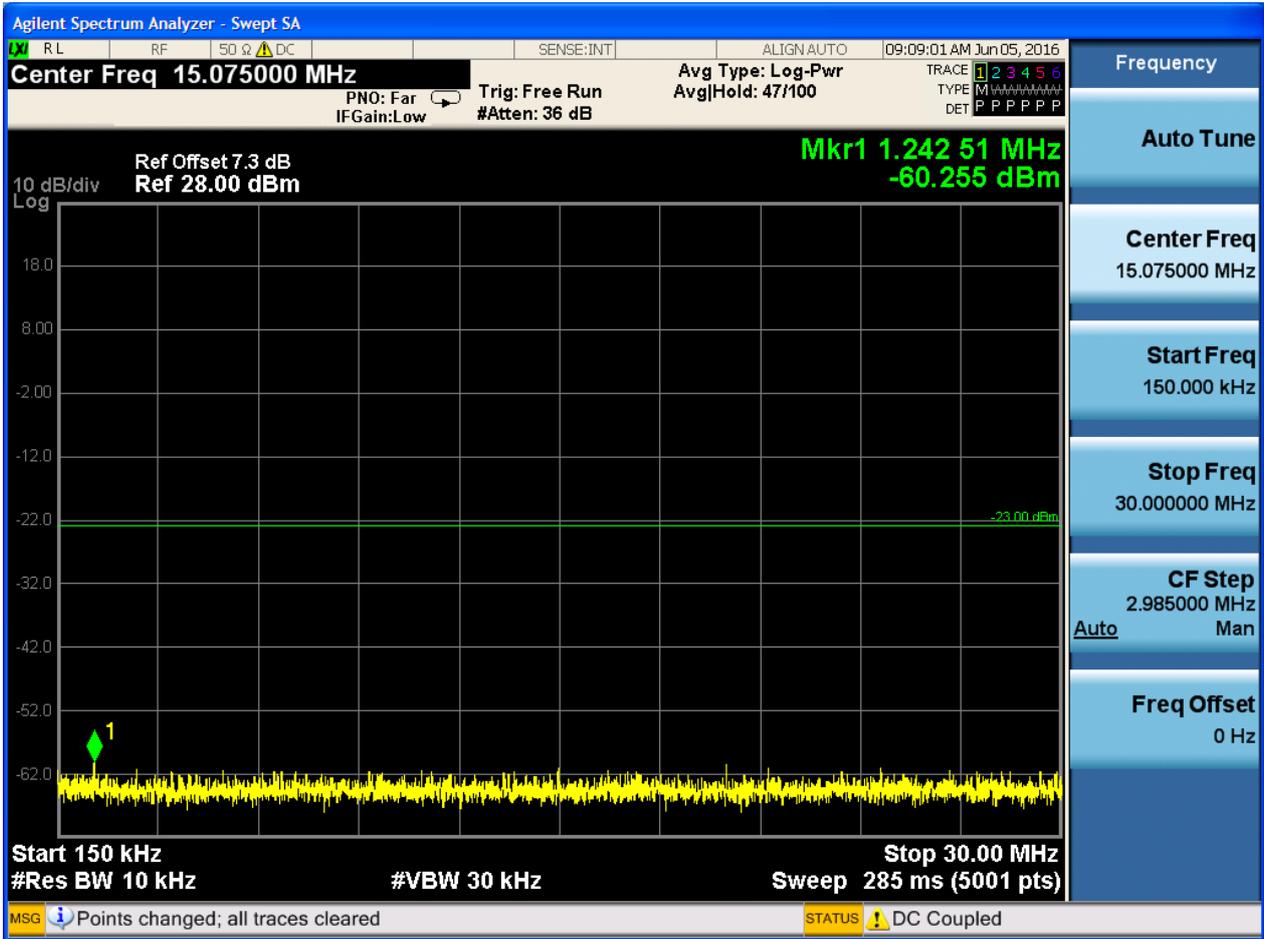


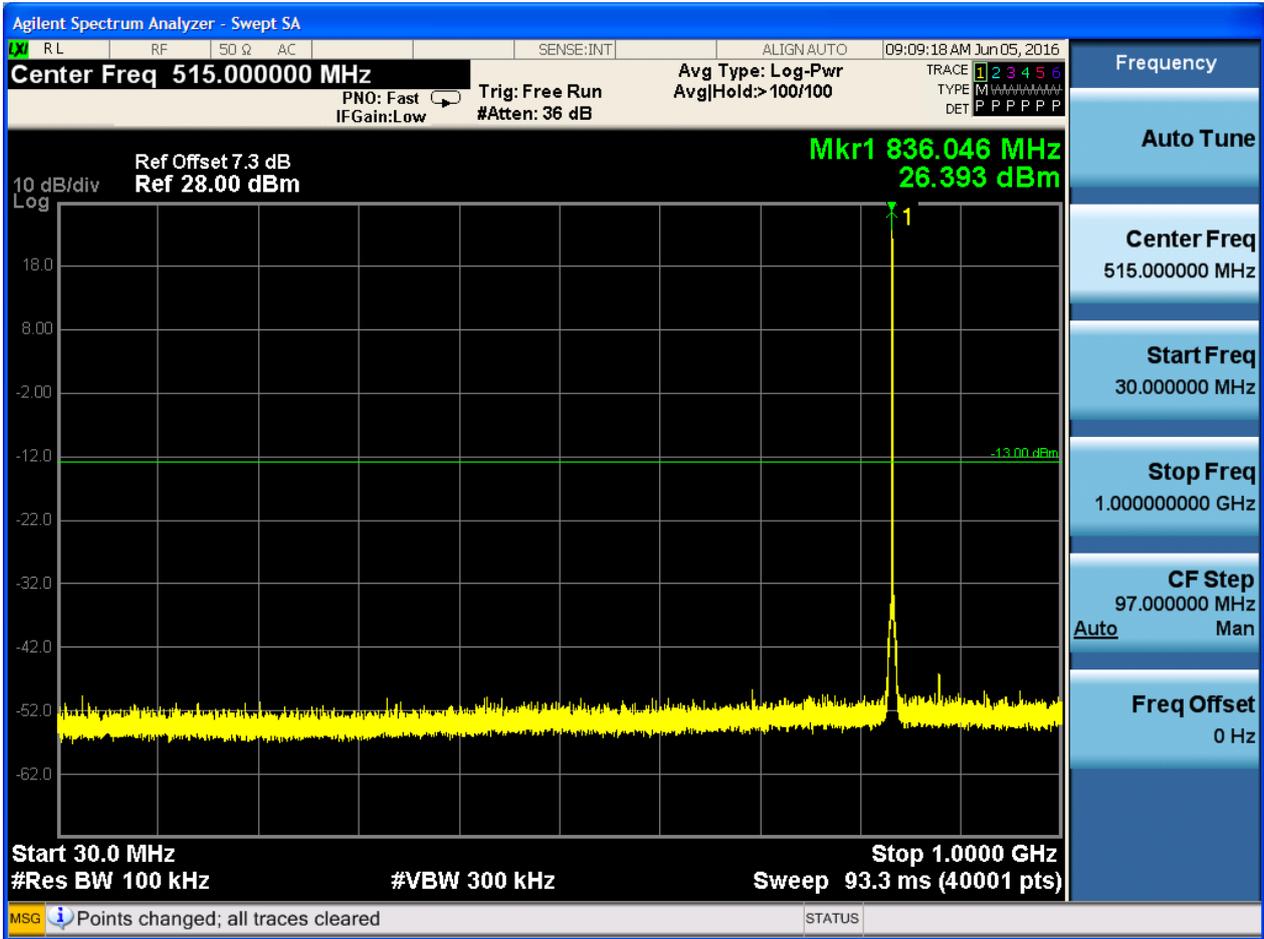


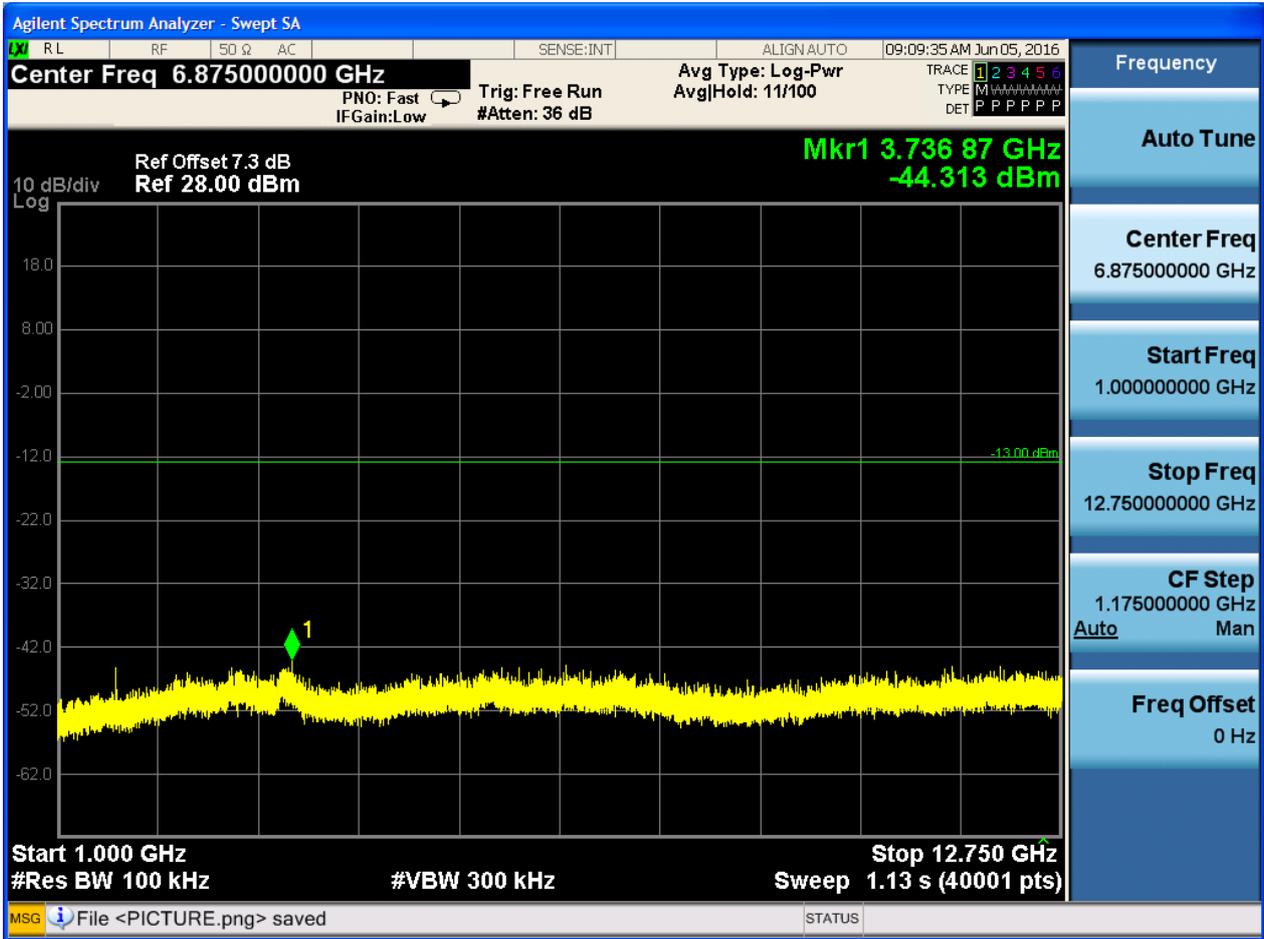
6.1.1.2.1.2 Test Channel = MCH

6.1.1.2.1.2.1 Test RB = RB1#0

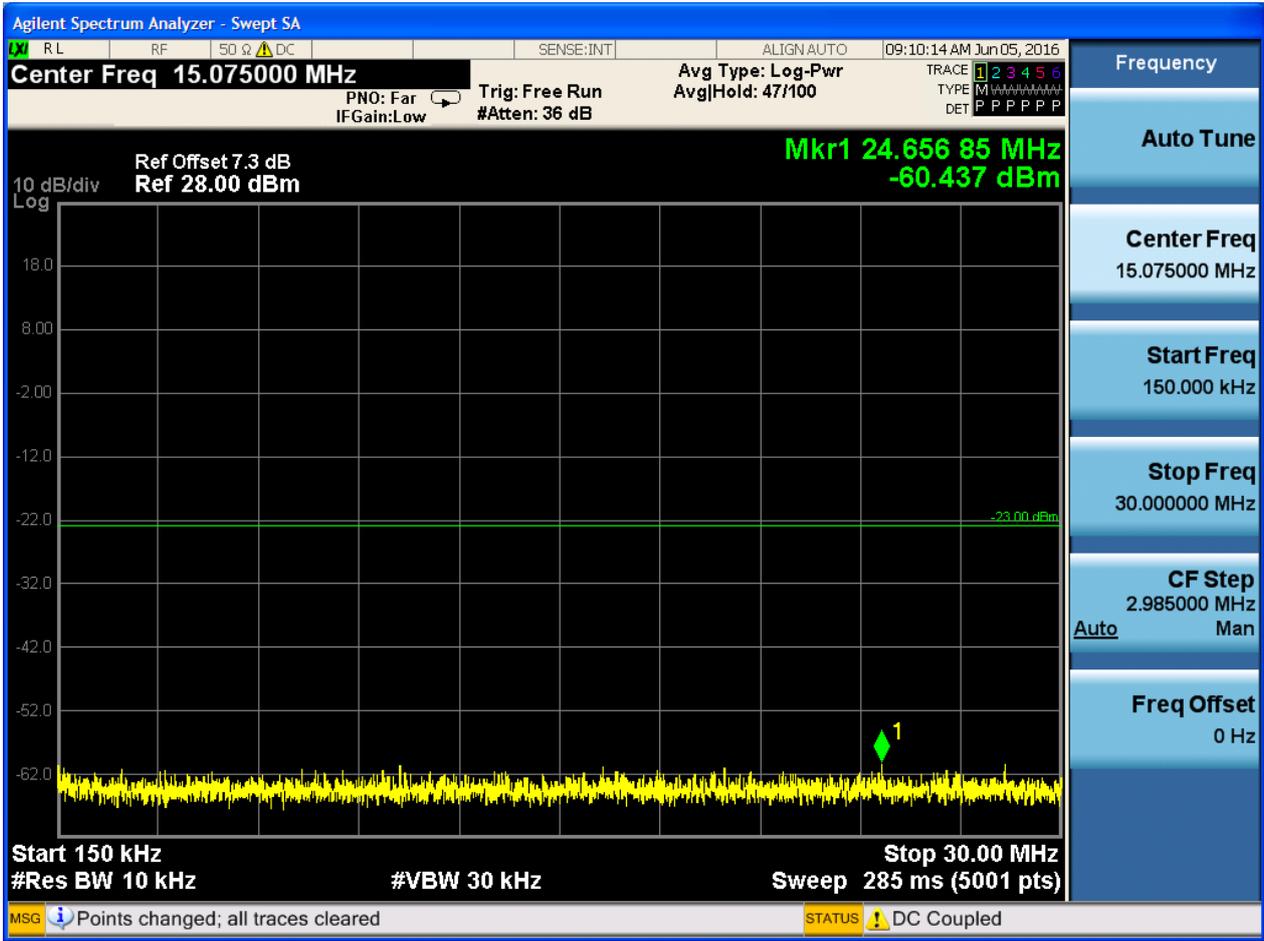


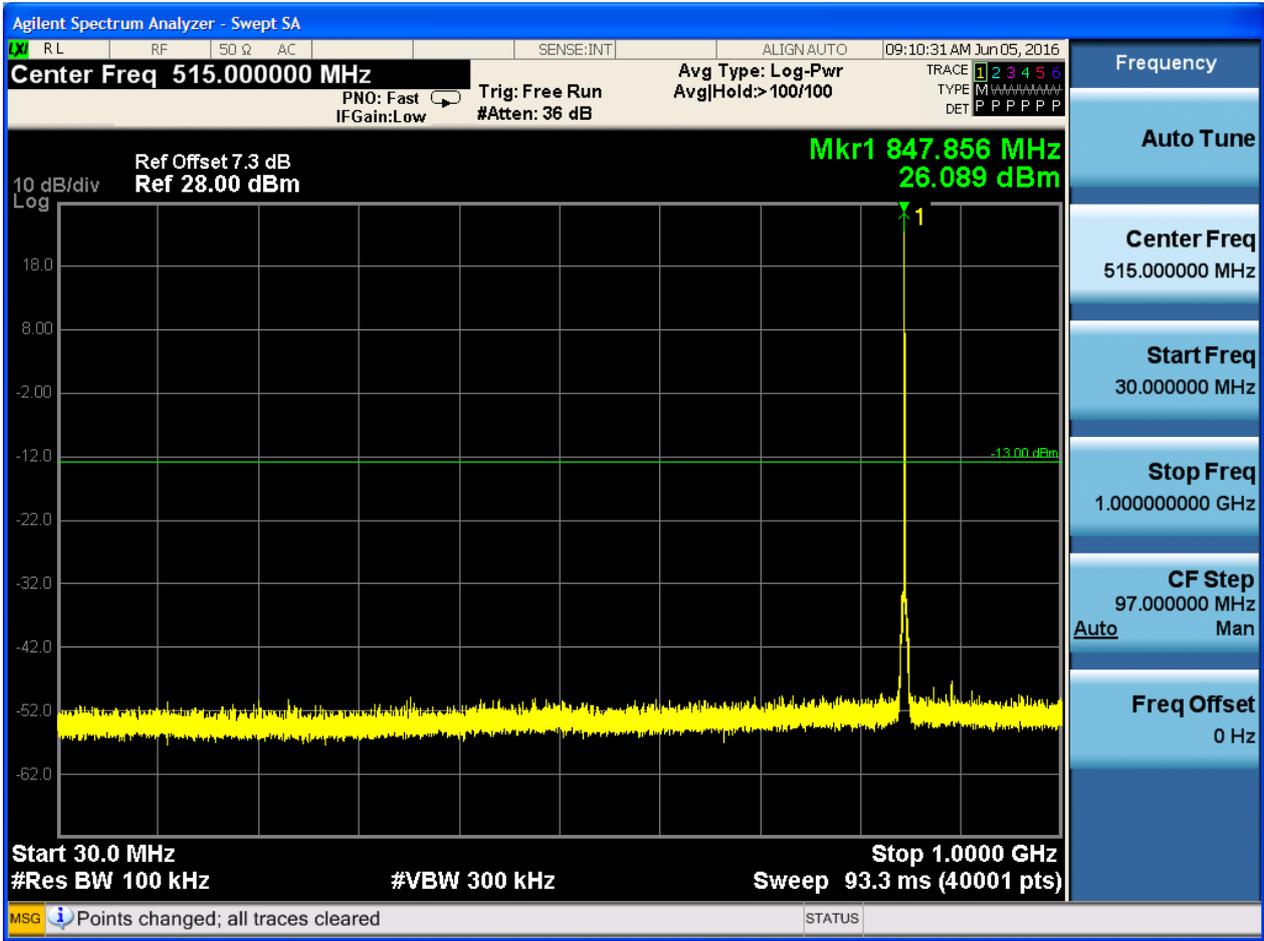


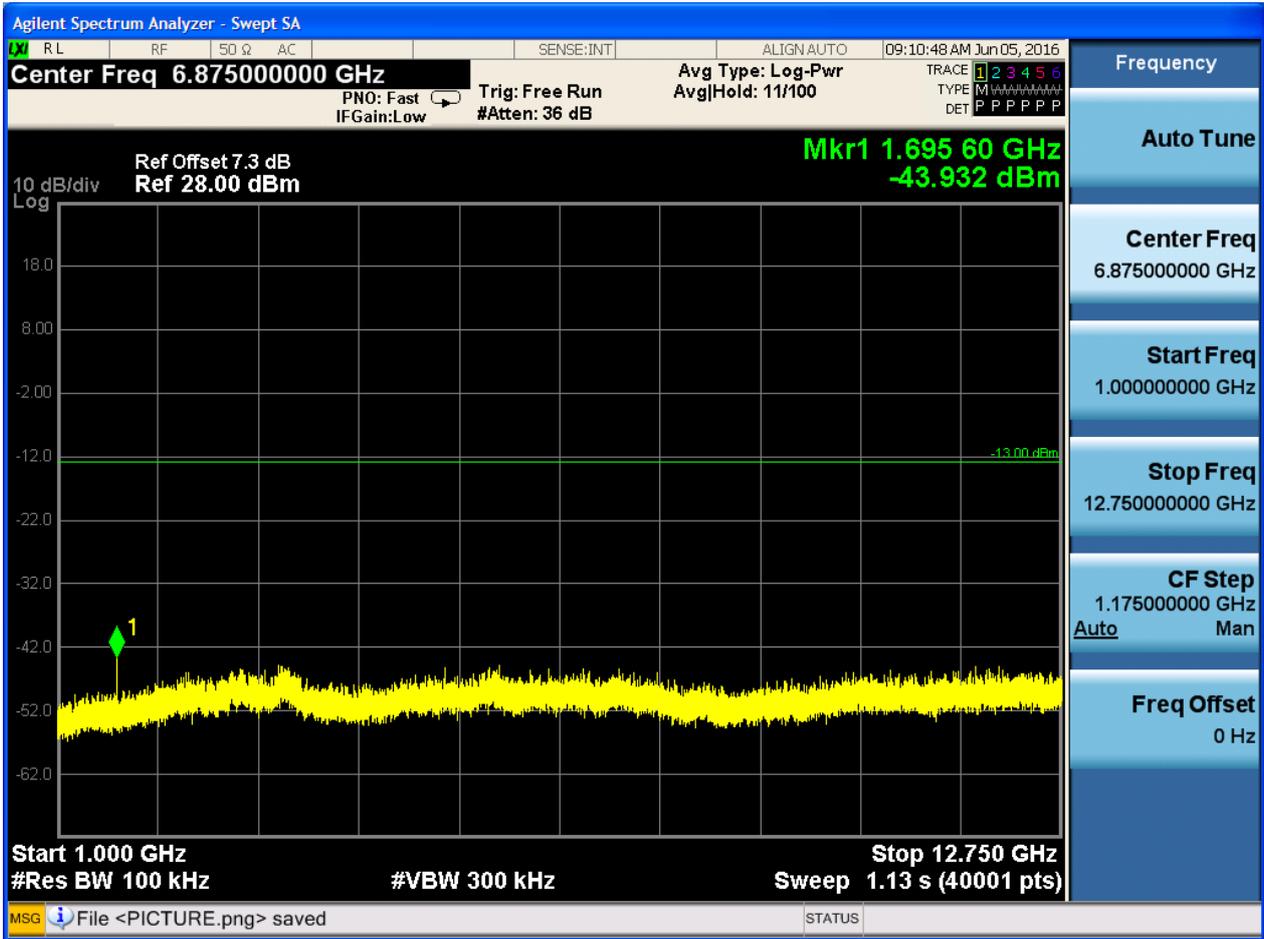










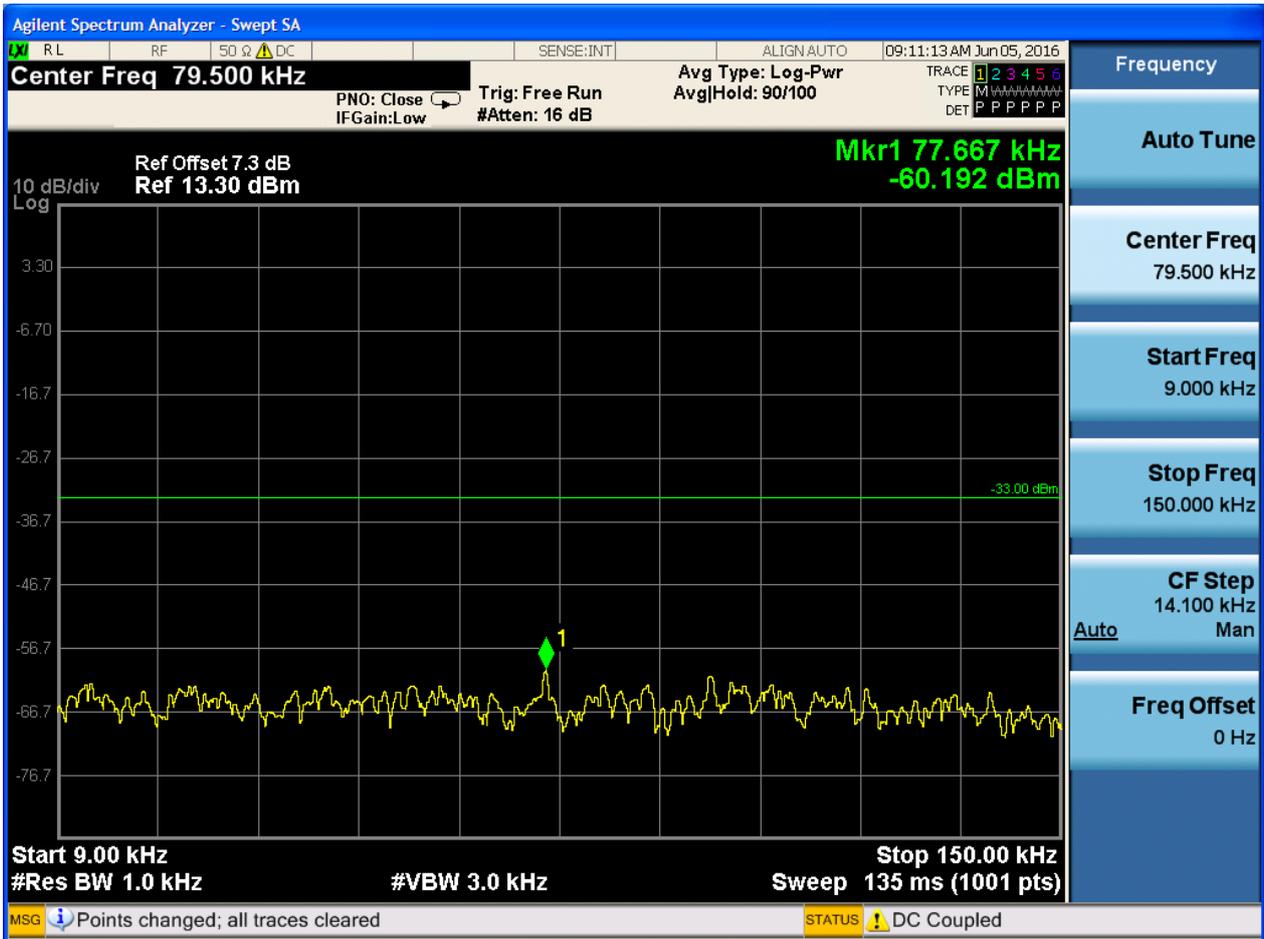


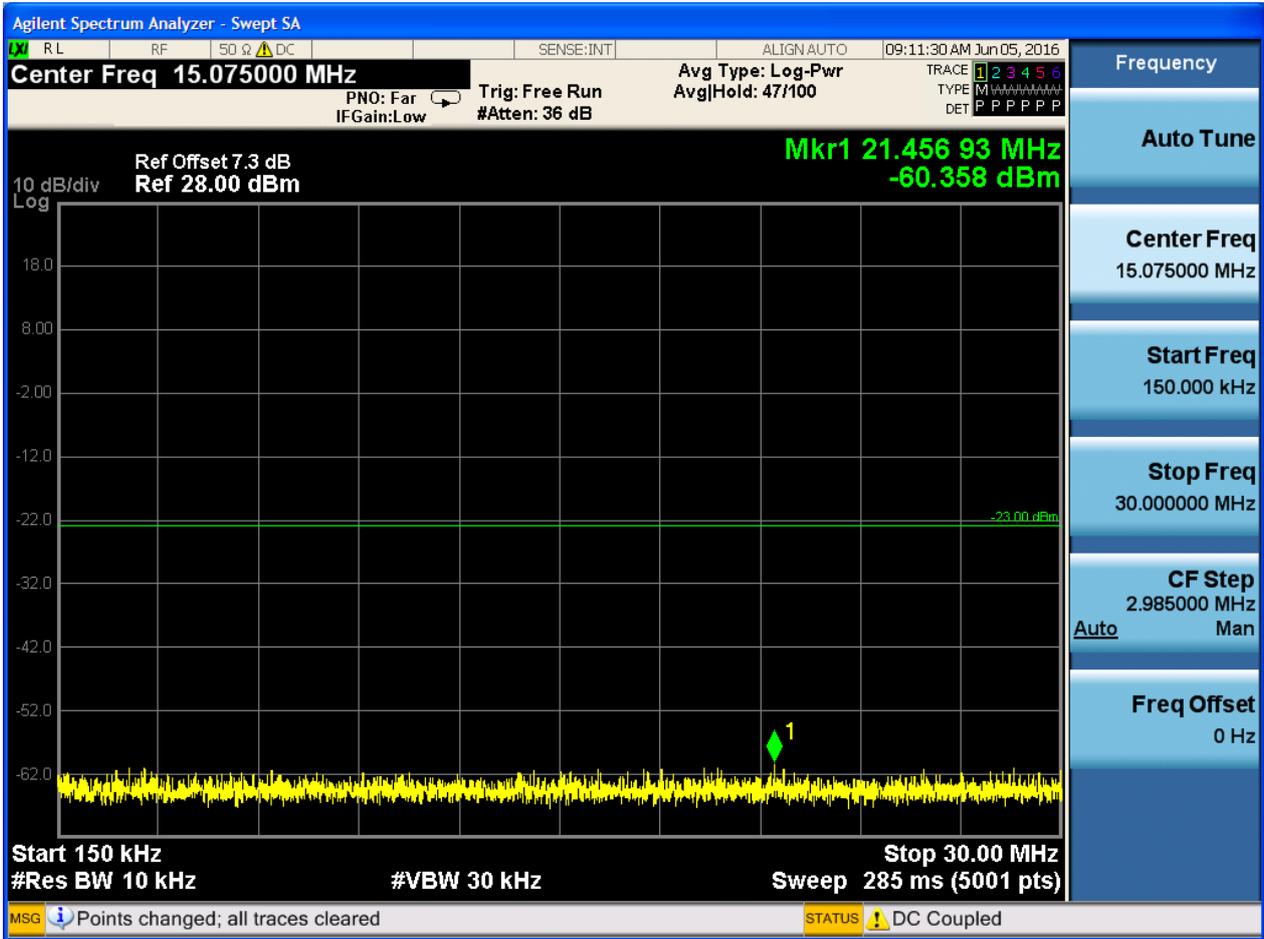


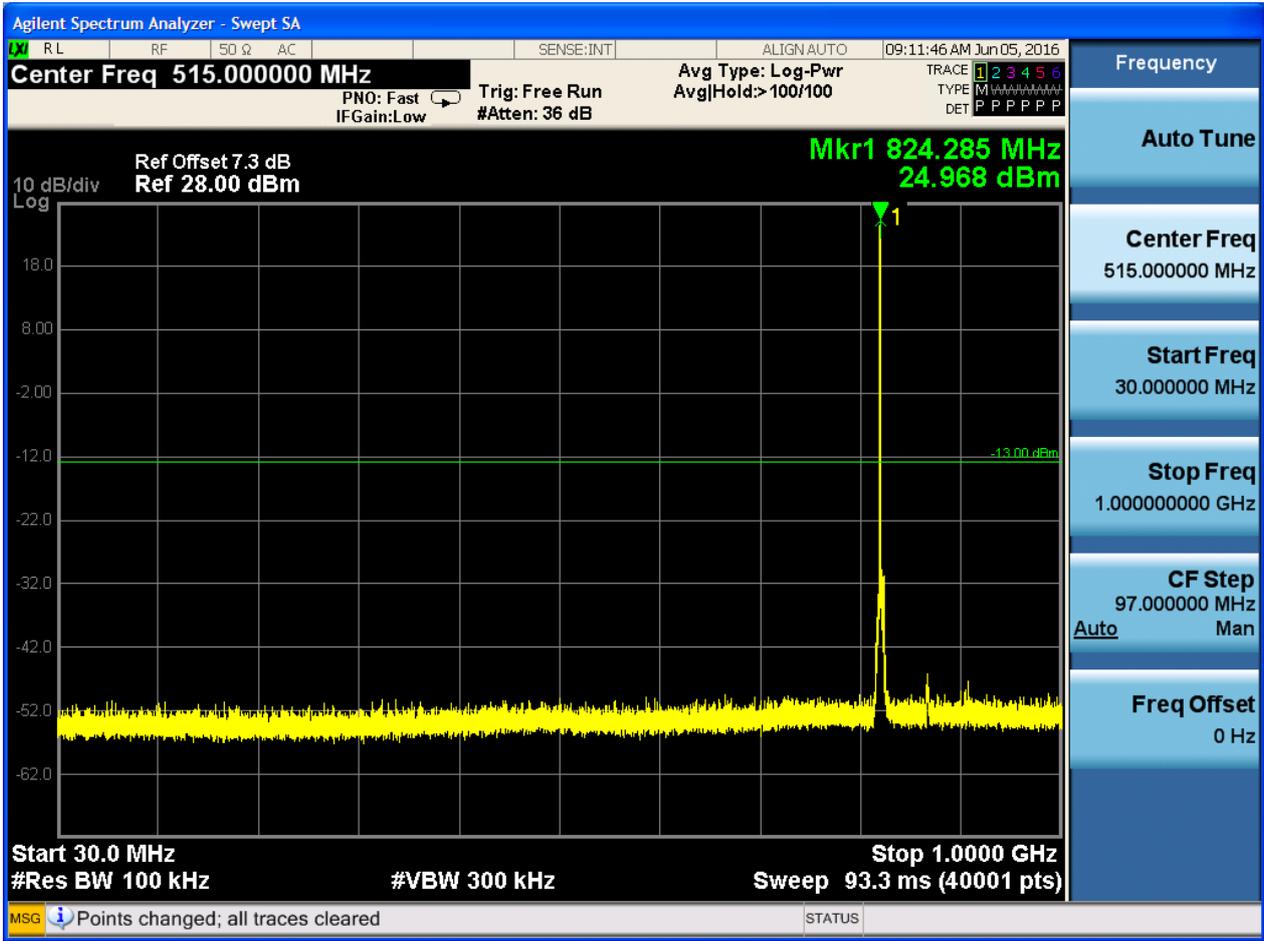
6.1.1.2.2 Test Bandwidth = 3

6.1.1.2.2.1 Test Channel = LCH

6.1.1.2.2.1.1 Test RB = RB1#0





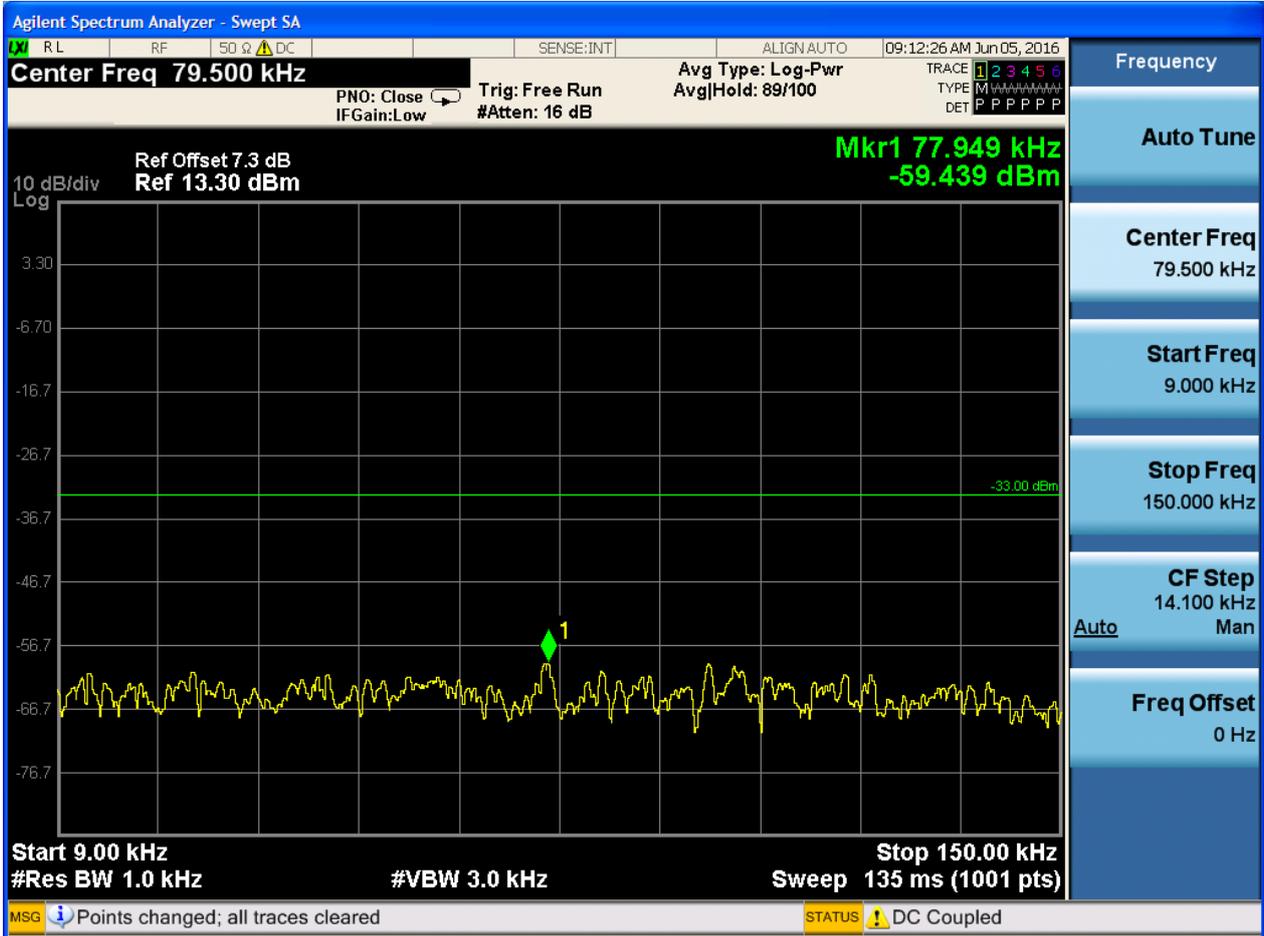


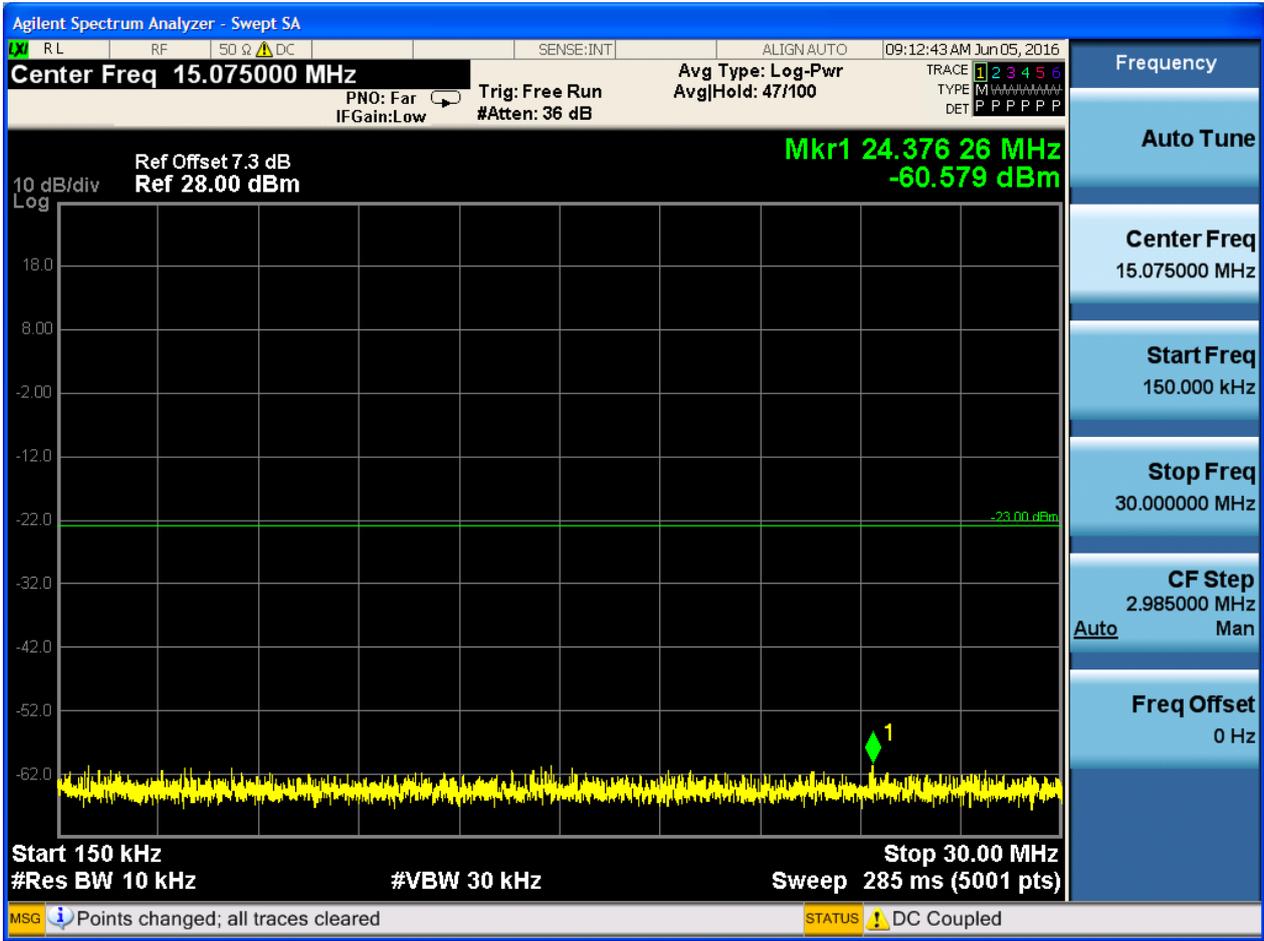


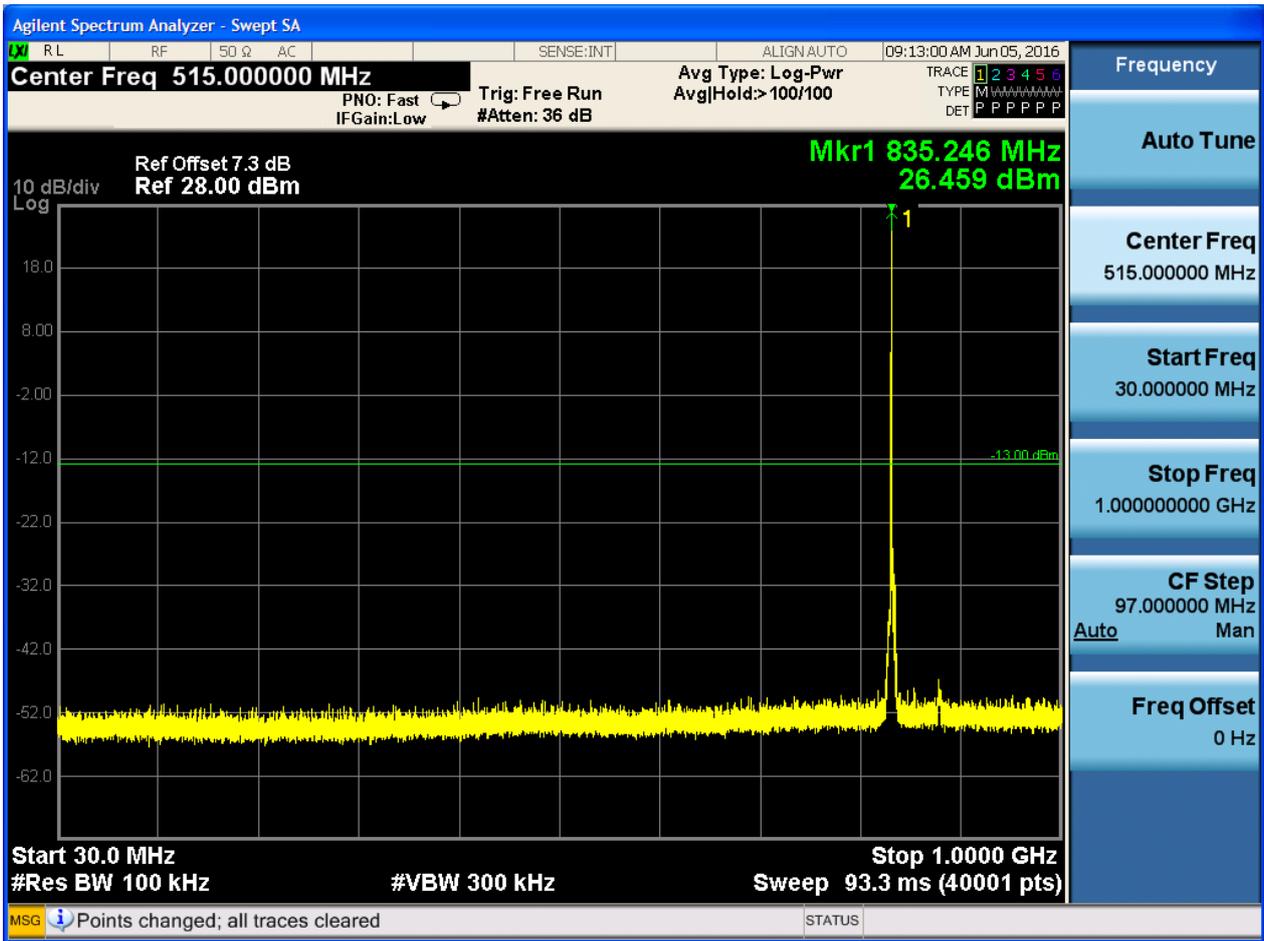


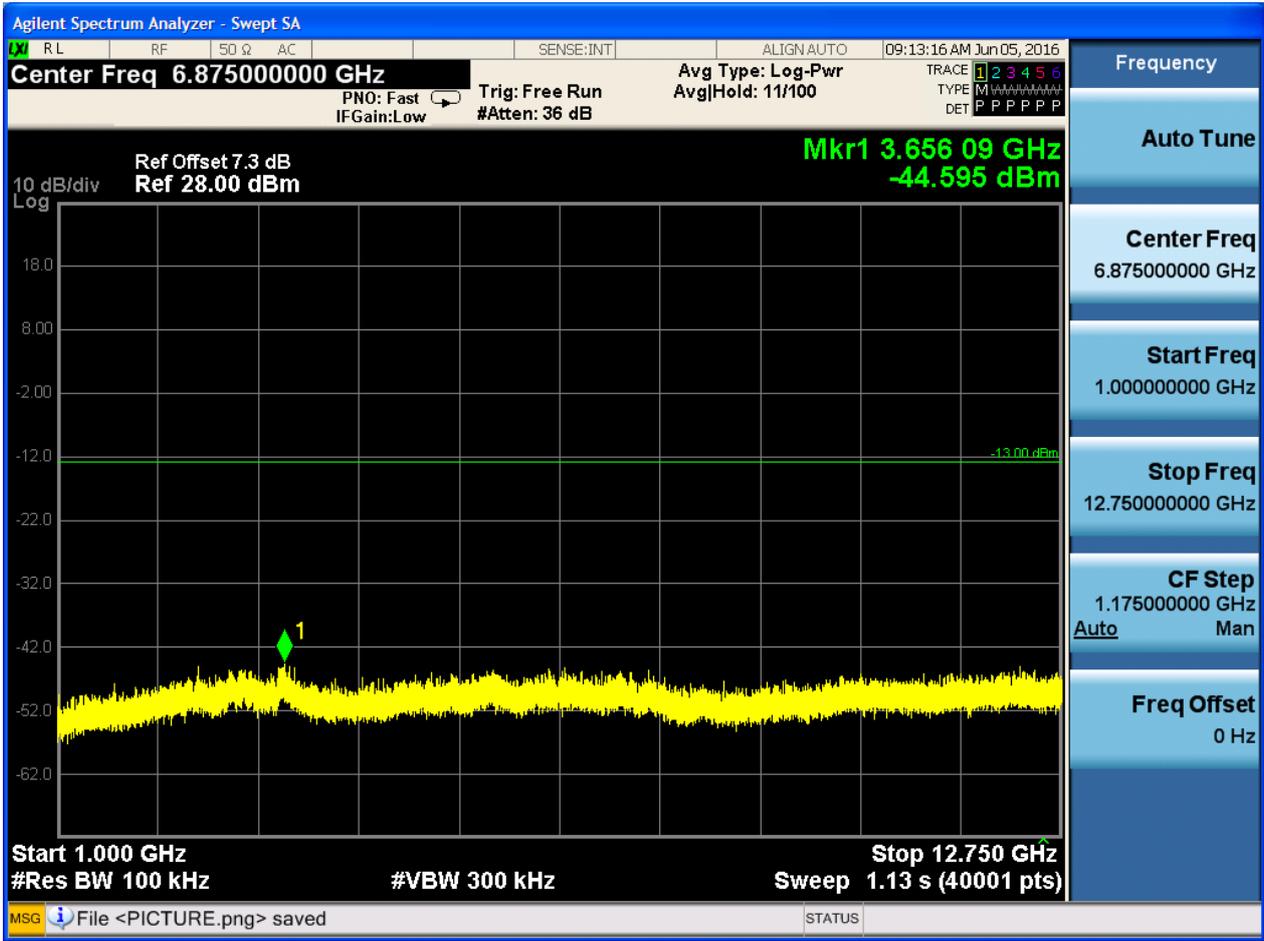
6.1.1.2.2.2 Test Channel = MCH

6.1.1.2.2.2.1 Test RB = RB1#0





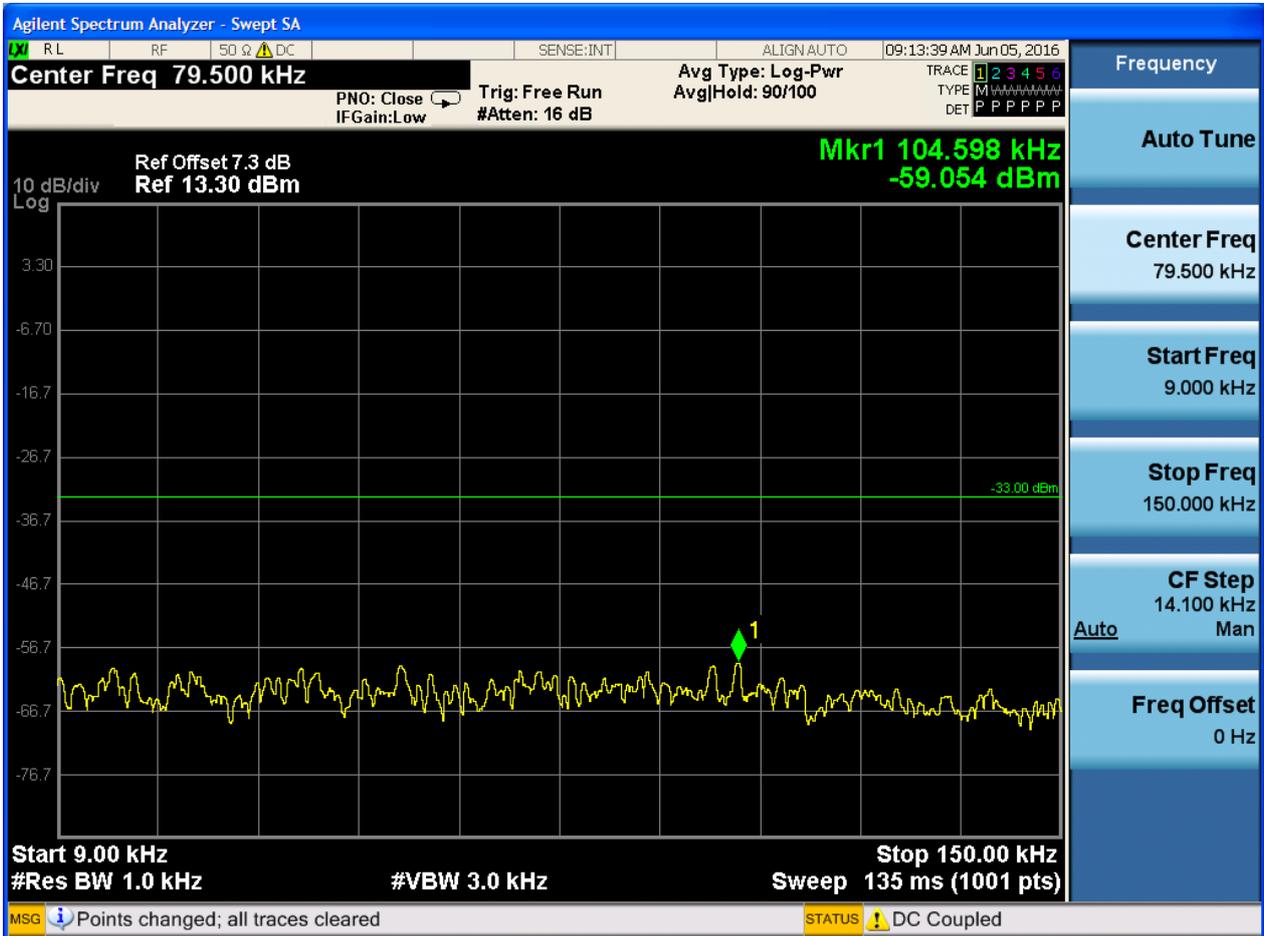


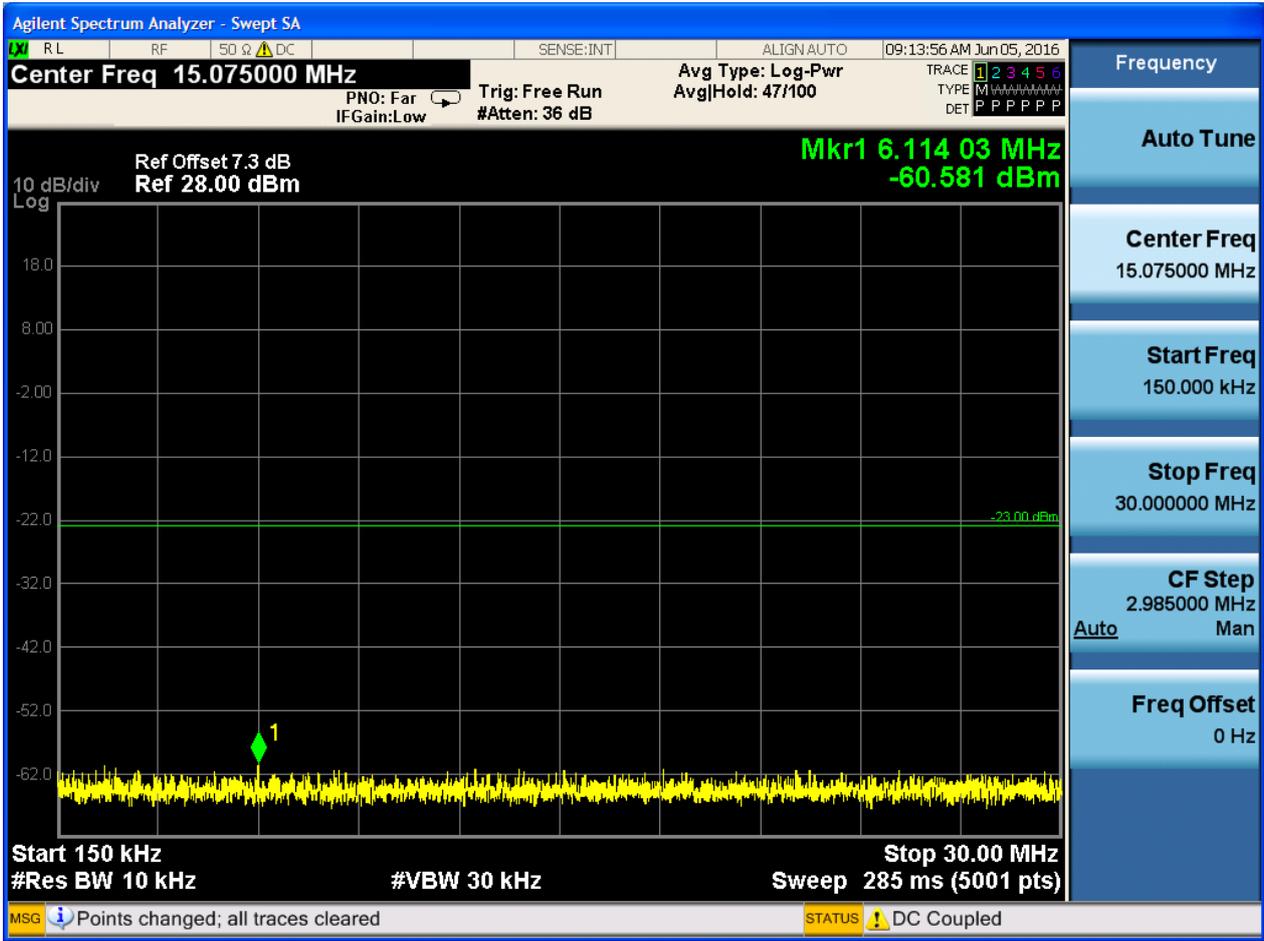


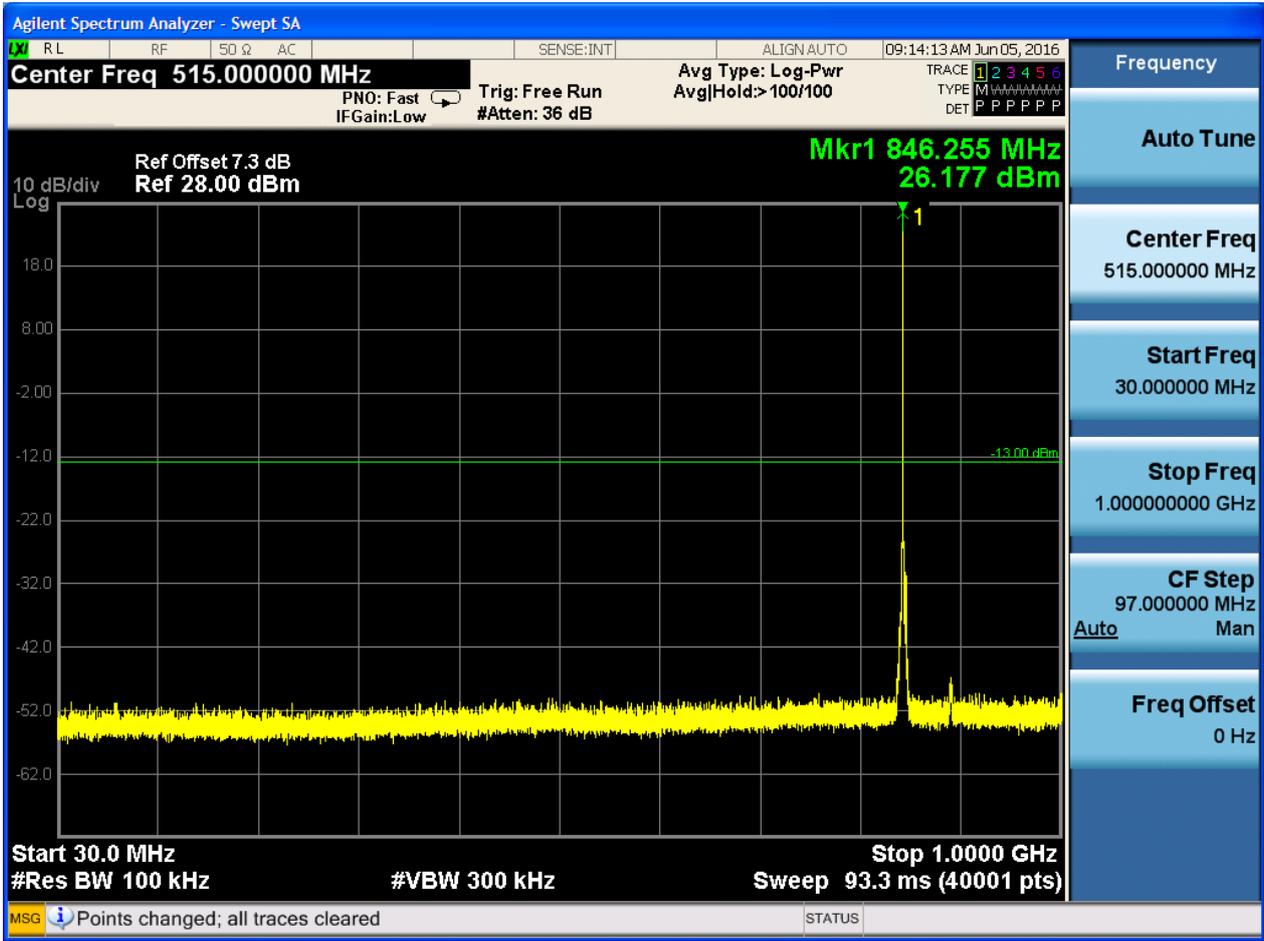


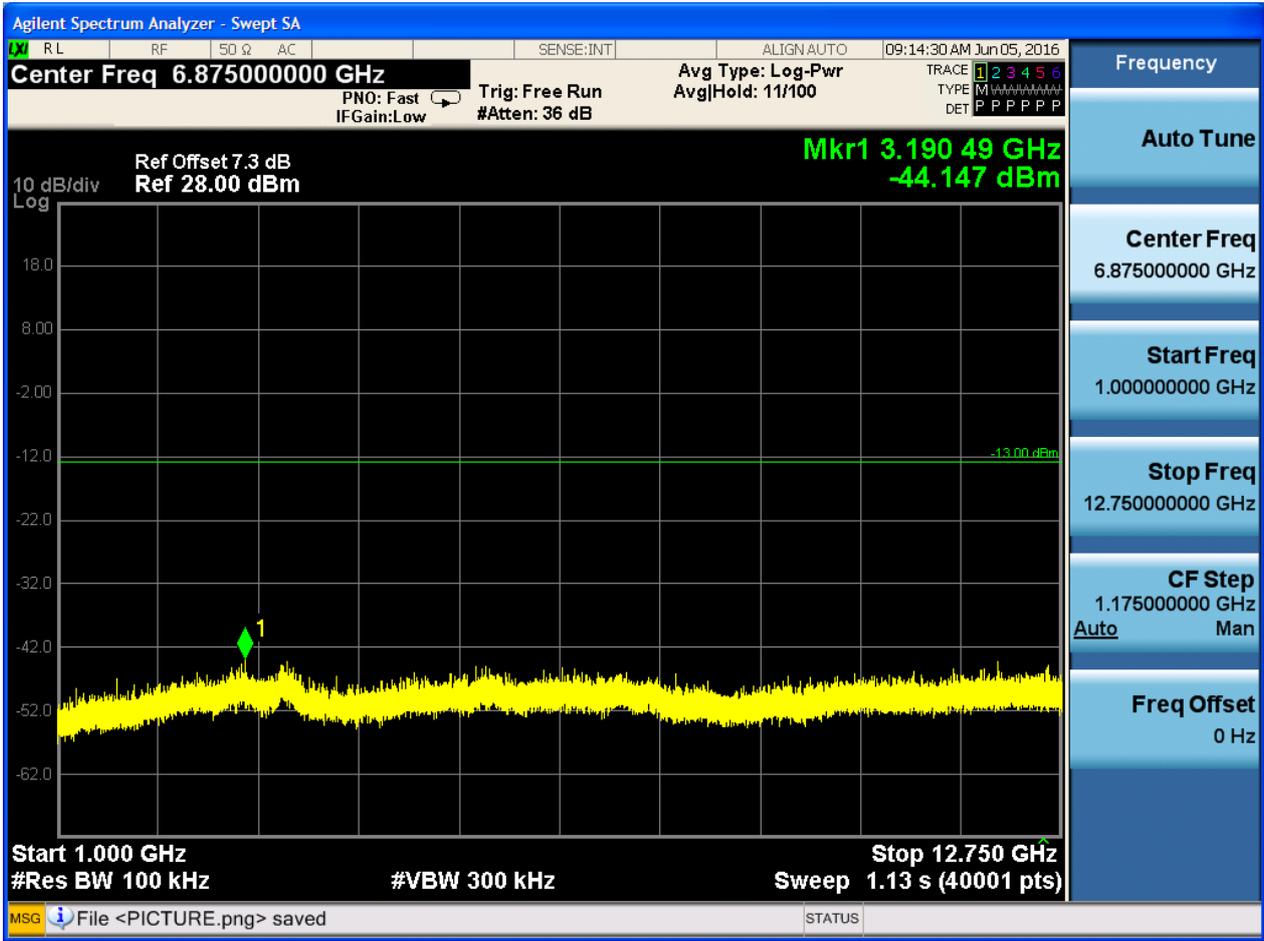
6.1.1.2.2.3 Test Channel = HCH

6.1.1.2.2.3.1 Test RB = RB1#0







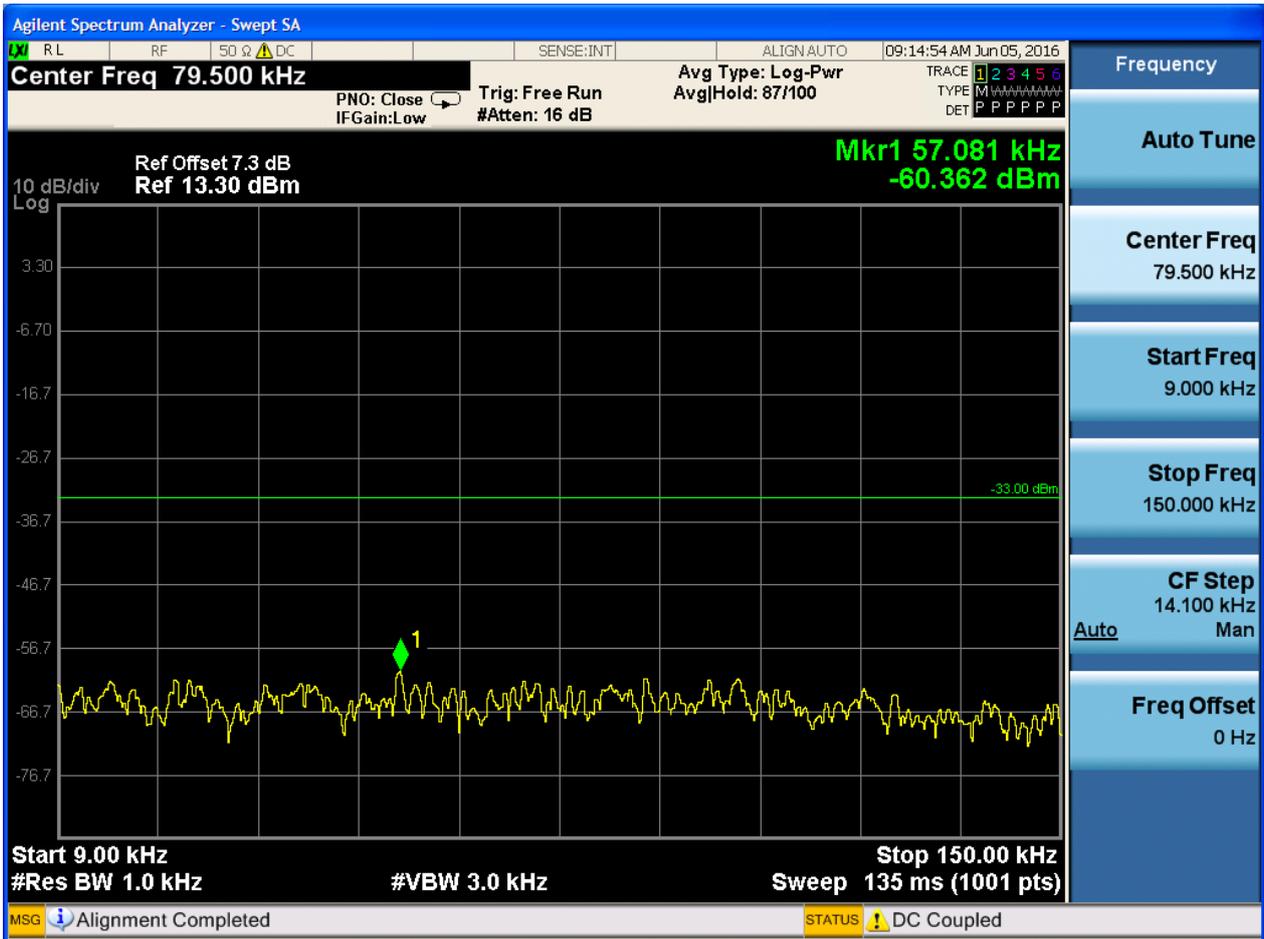


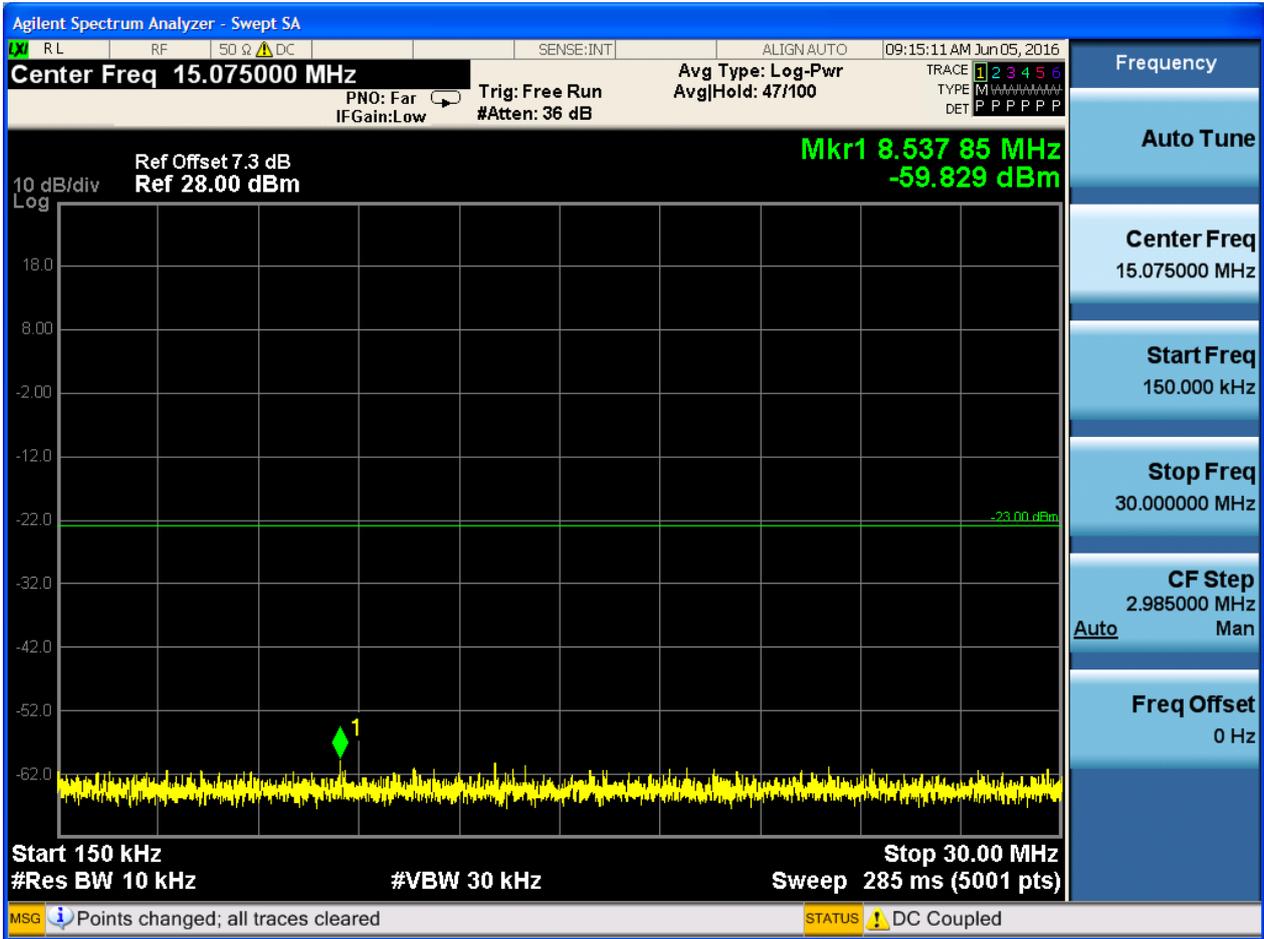


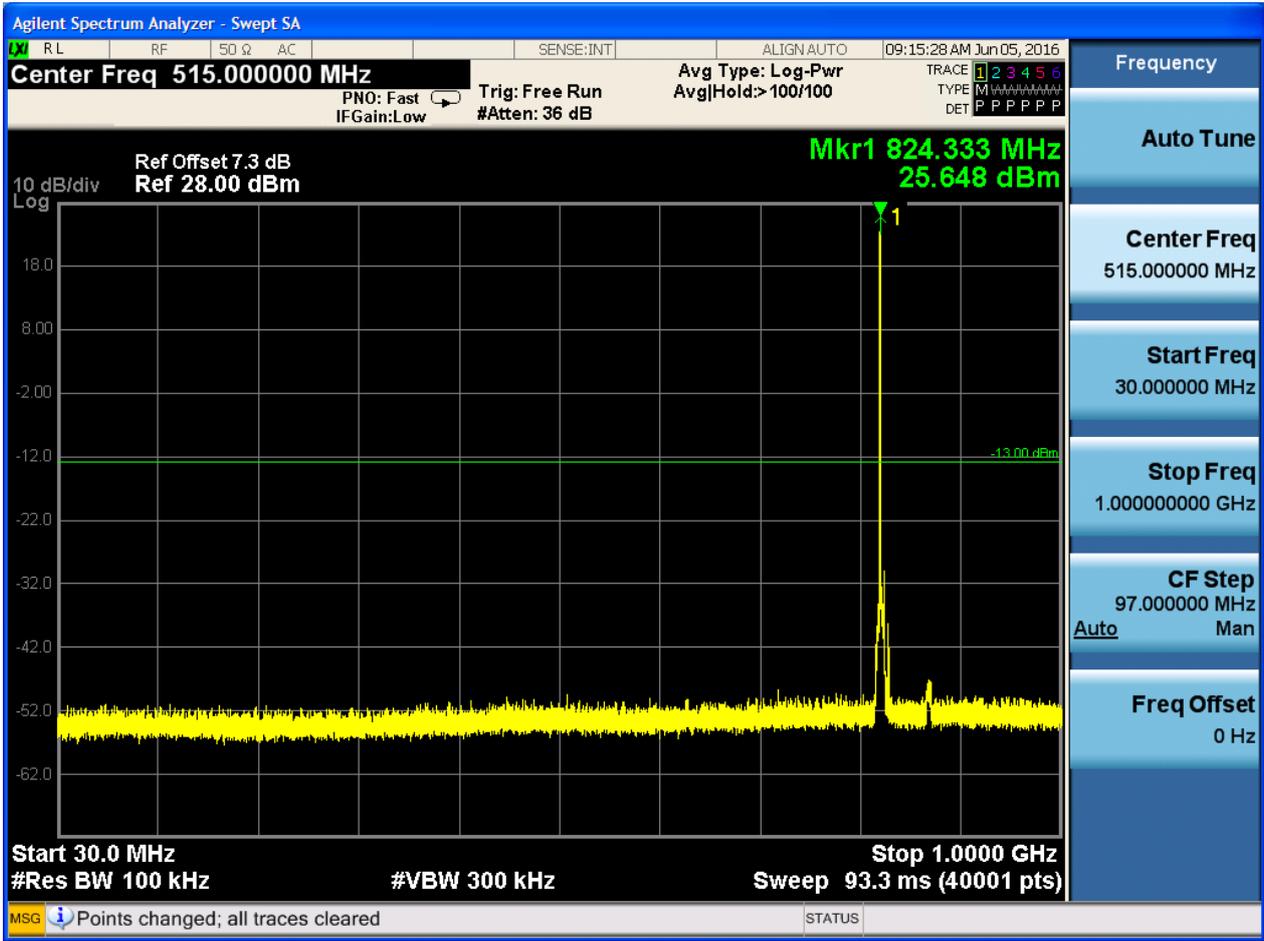
6.1.1.2.3 Test Bandwidth = 5

6.1.1.2.3.1 Test Channel = LCH

6.1.1.2.3.1.1 Test RB = RB1#0





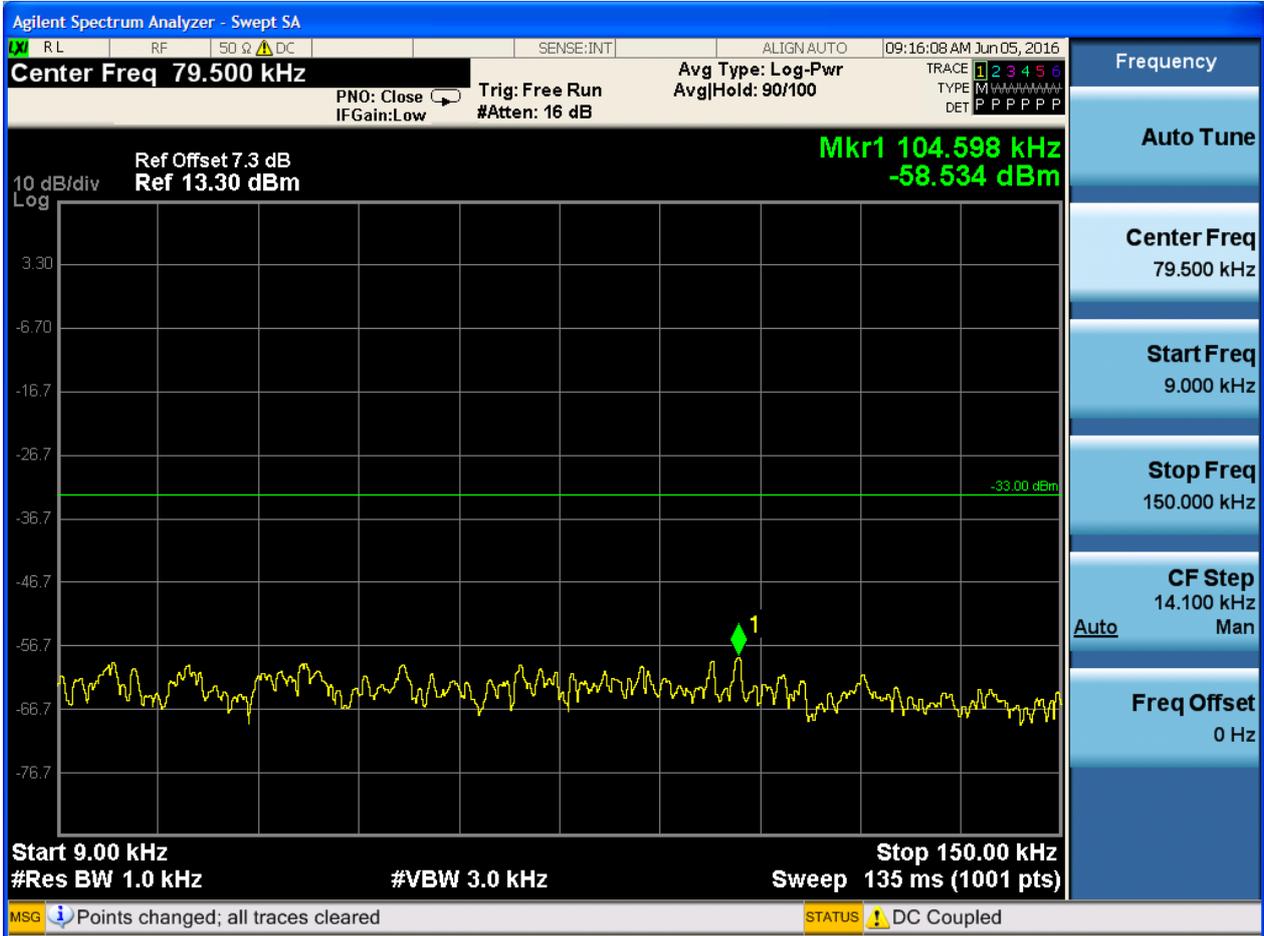


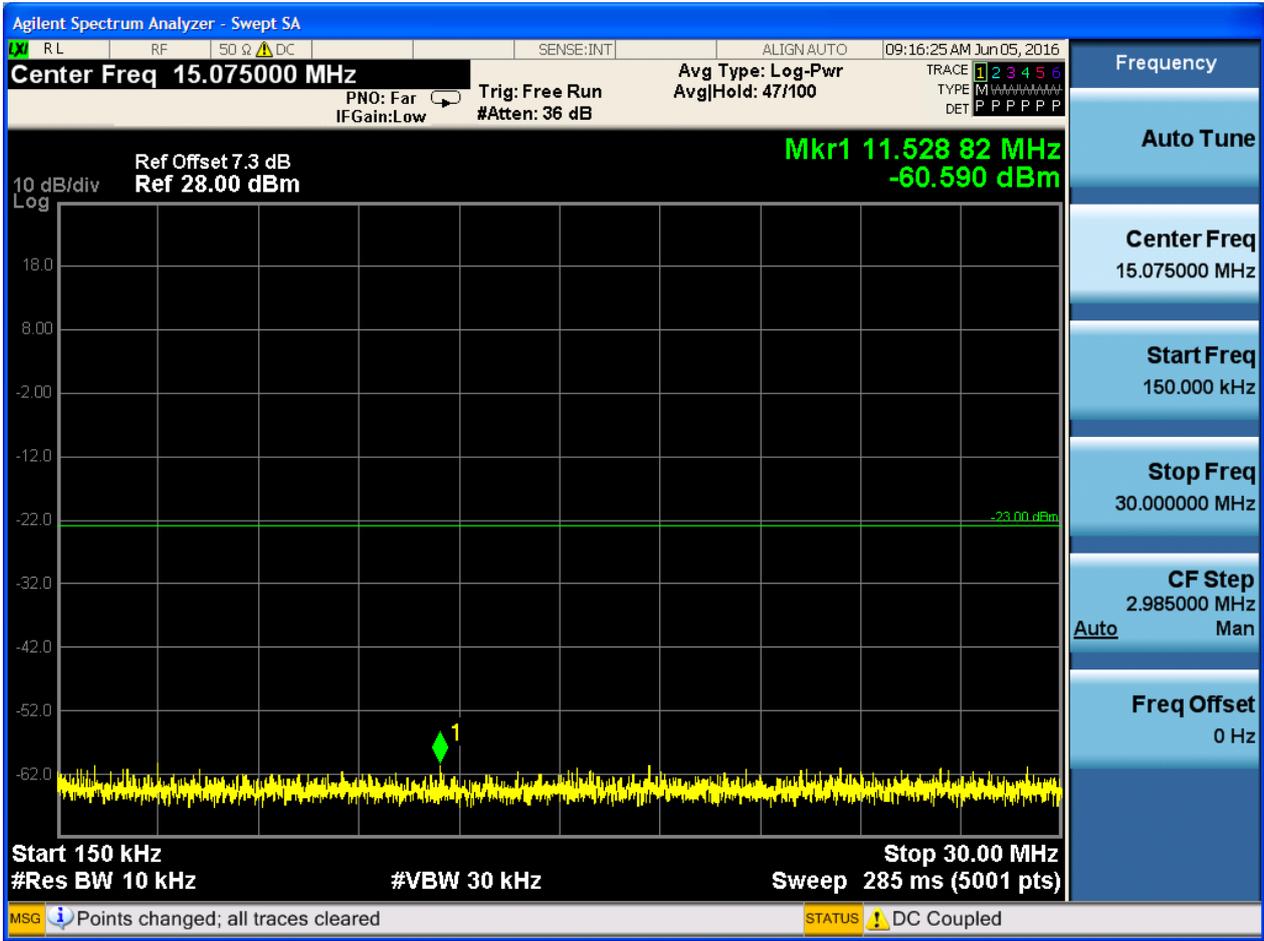


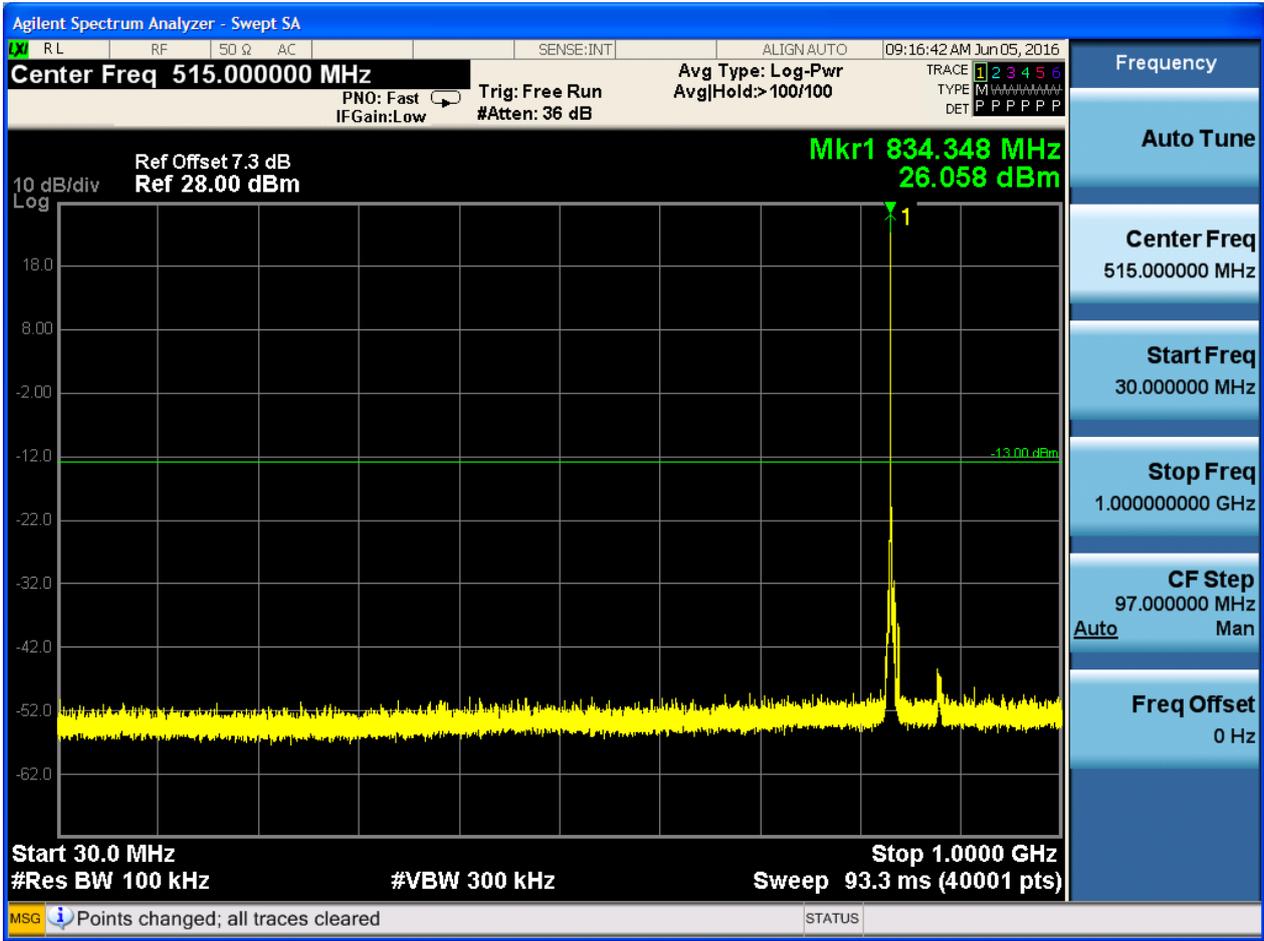


6.1.1.2.3.2 Test Channel = MCH

6.1.1.2.3.2.1 Test RB = RB1#0





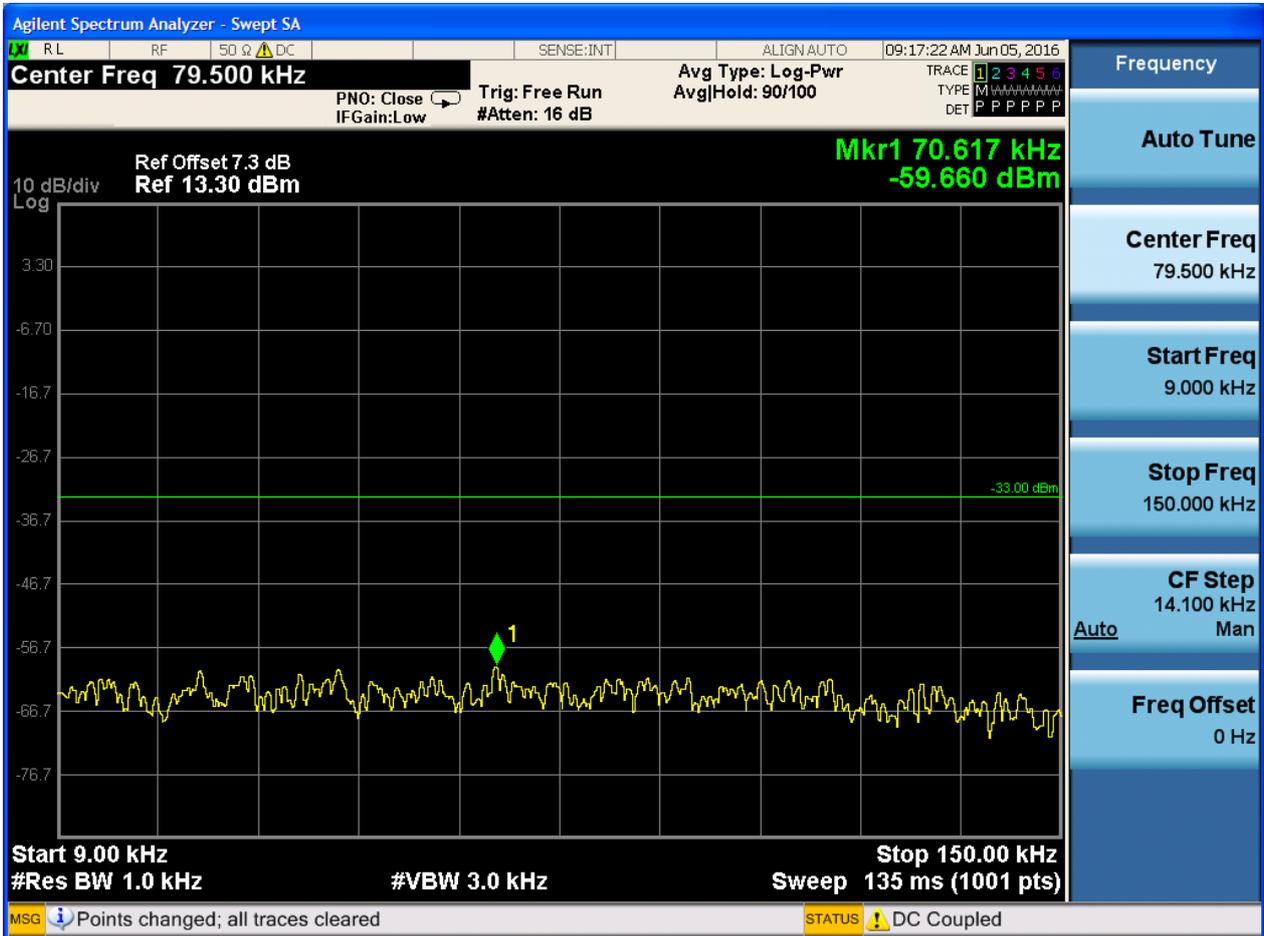


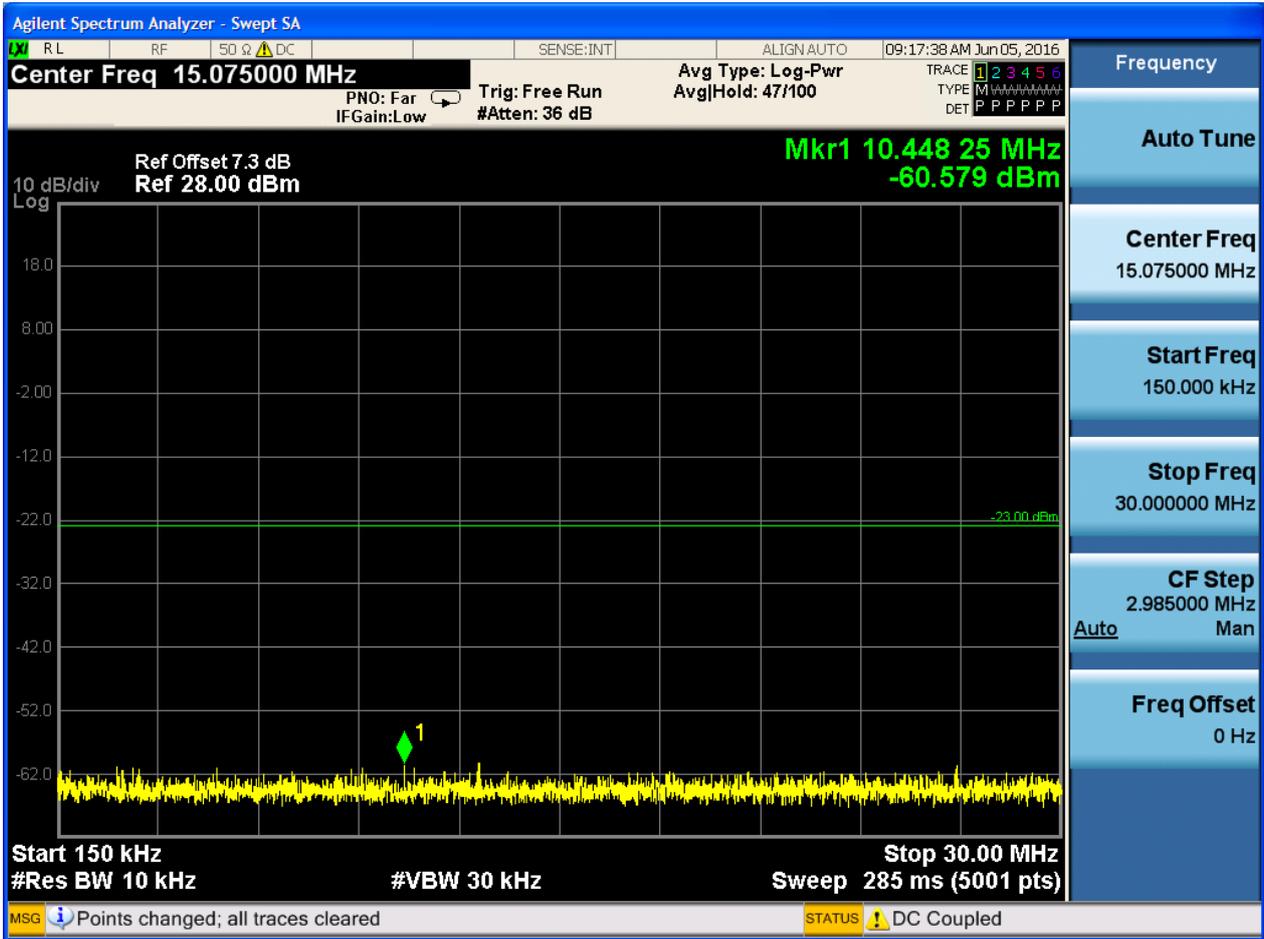


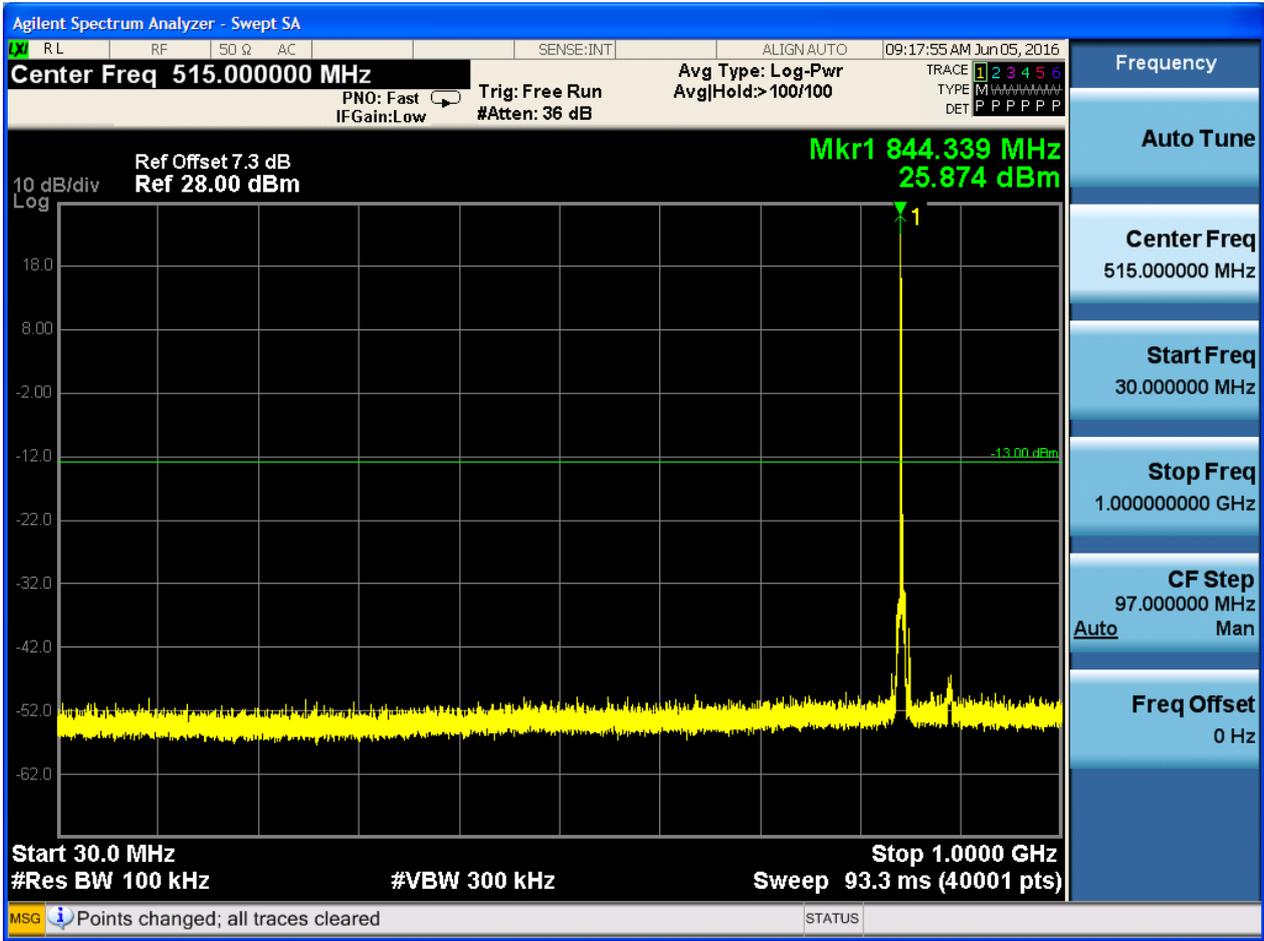


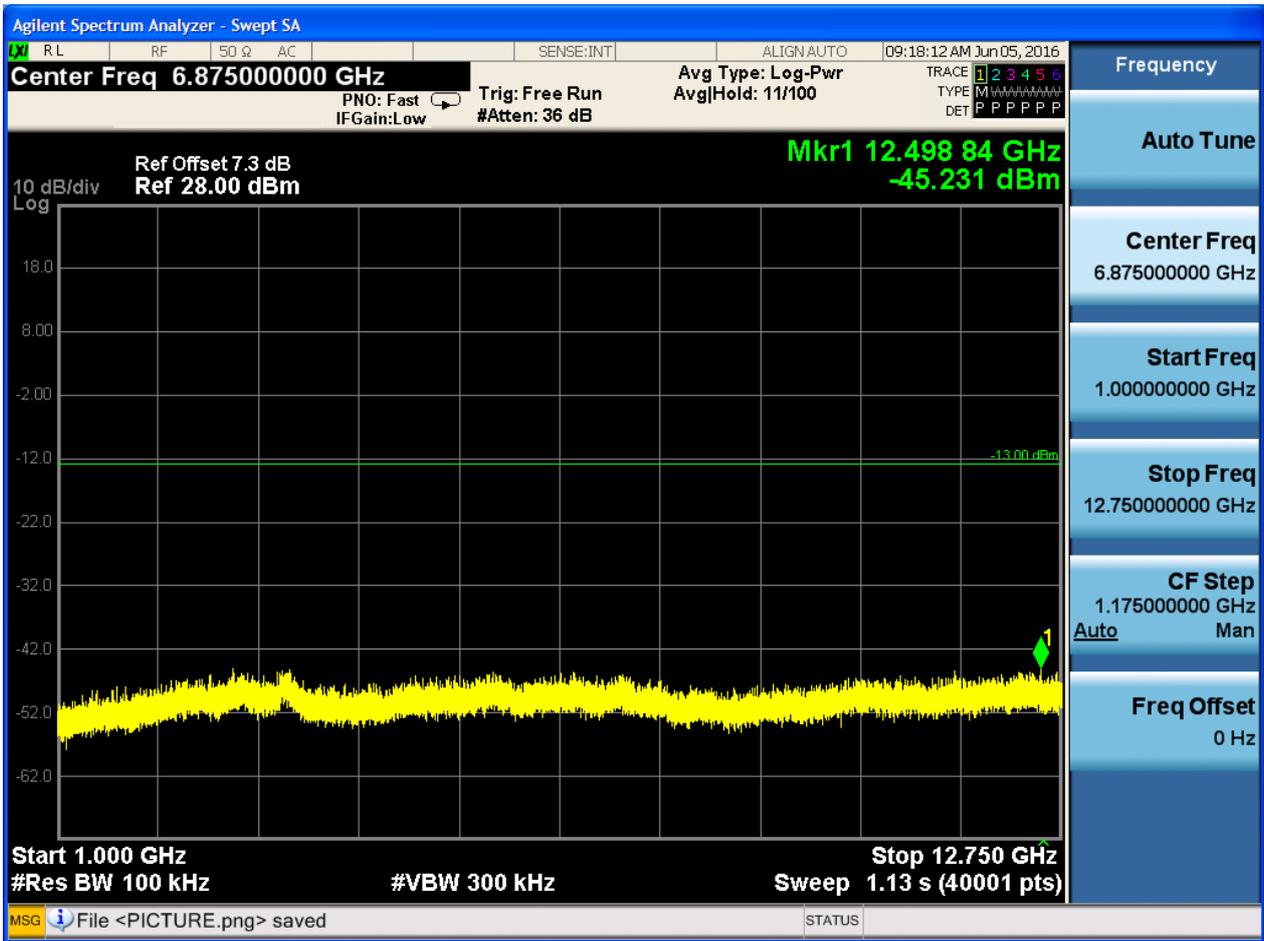
6.1.1.2.3.3 Test Channel = HCH

6.1.1.2.3.3.1 Test RB = RB1#0







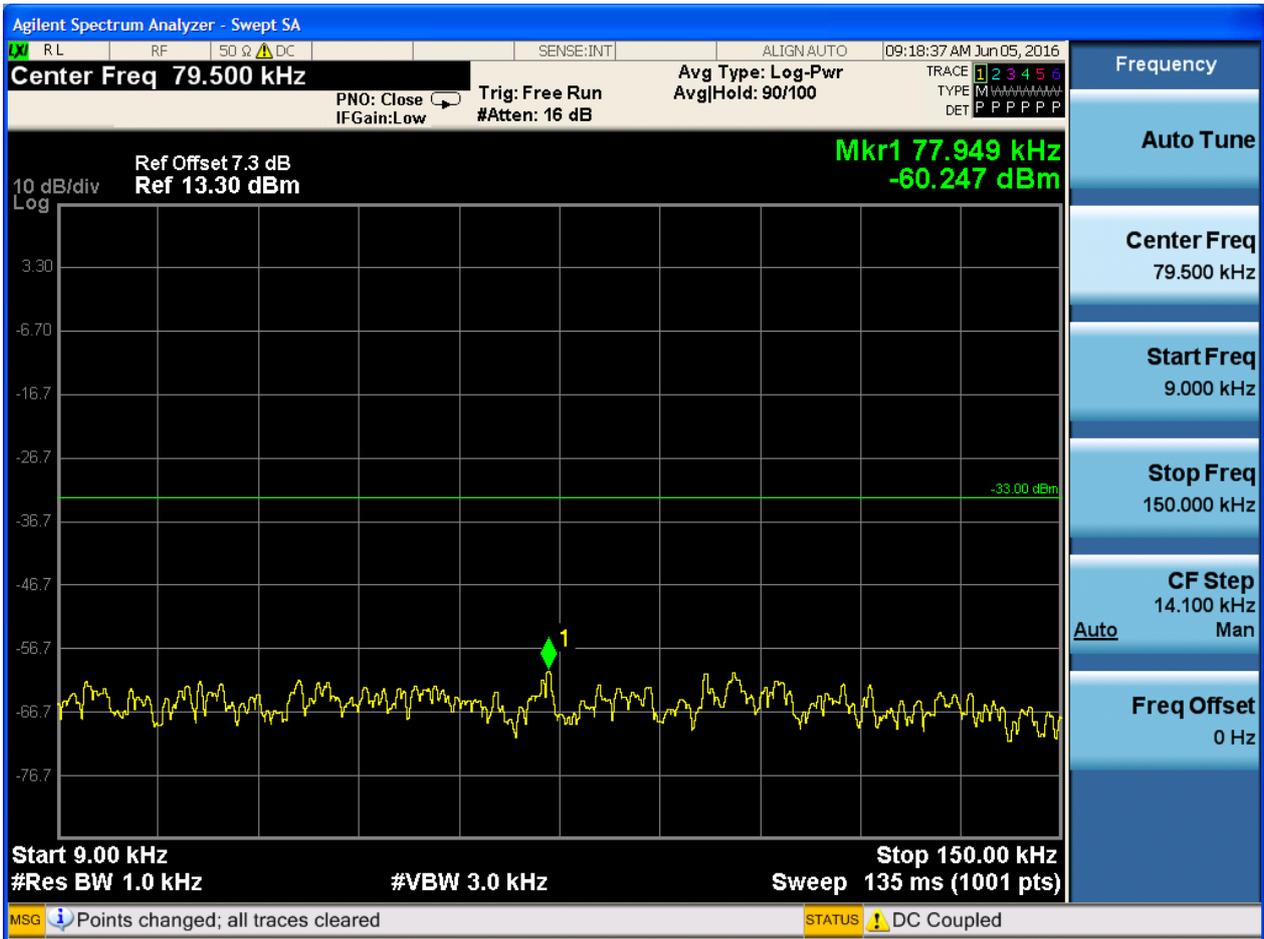


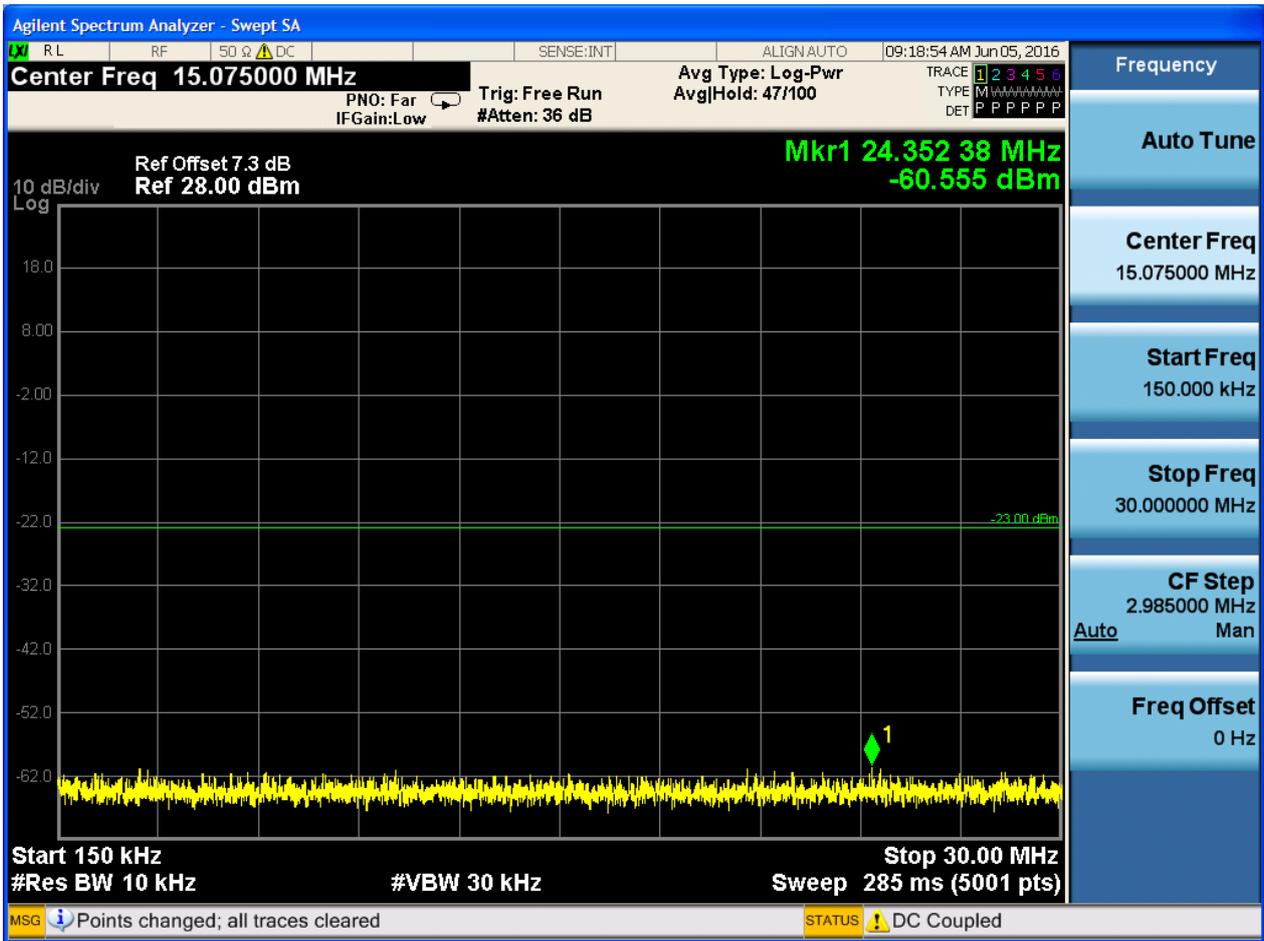


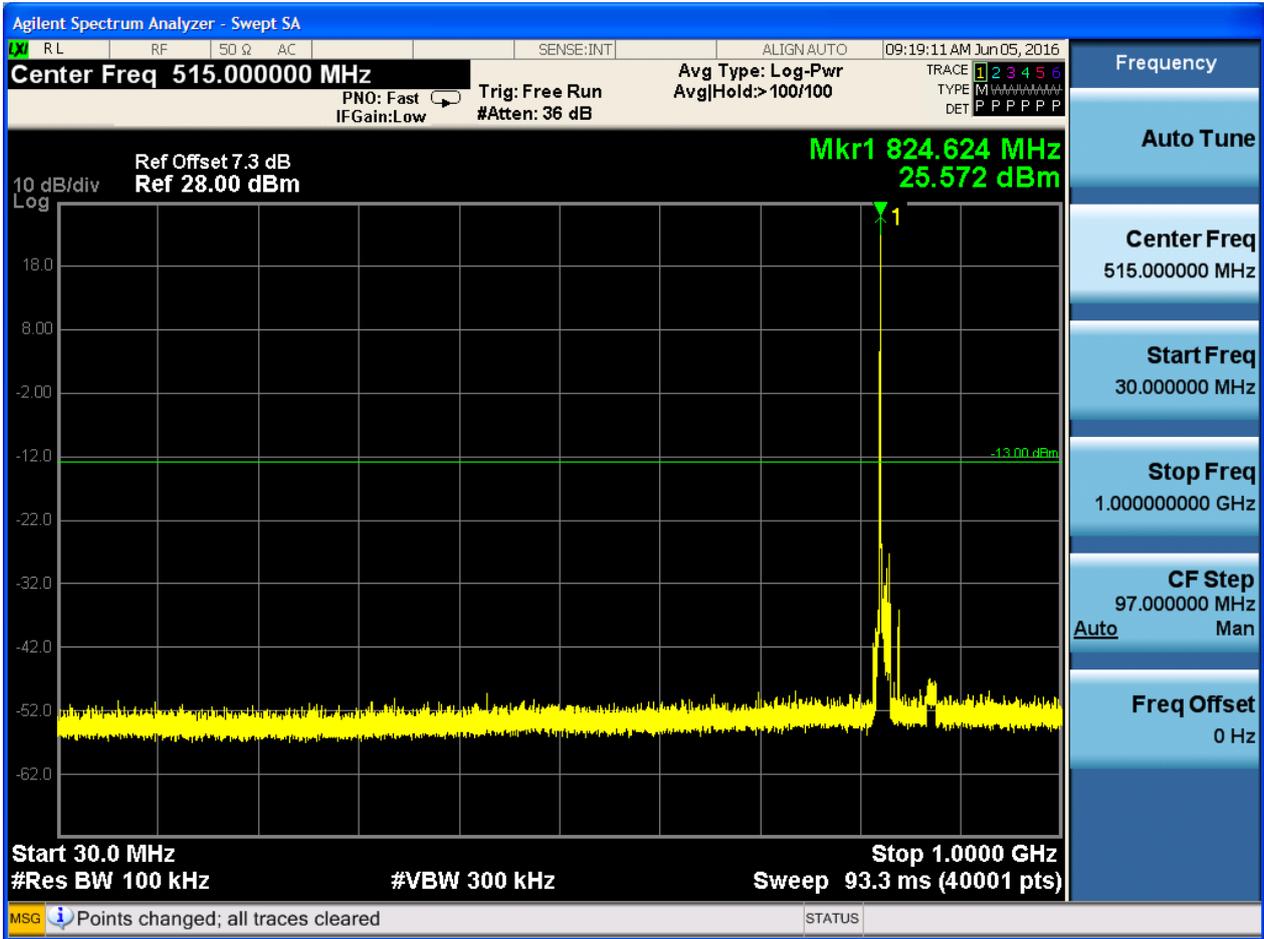
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0





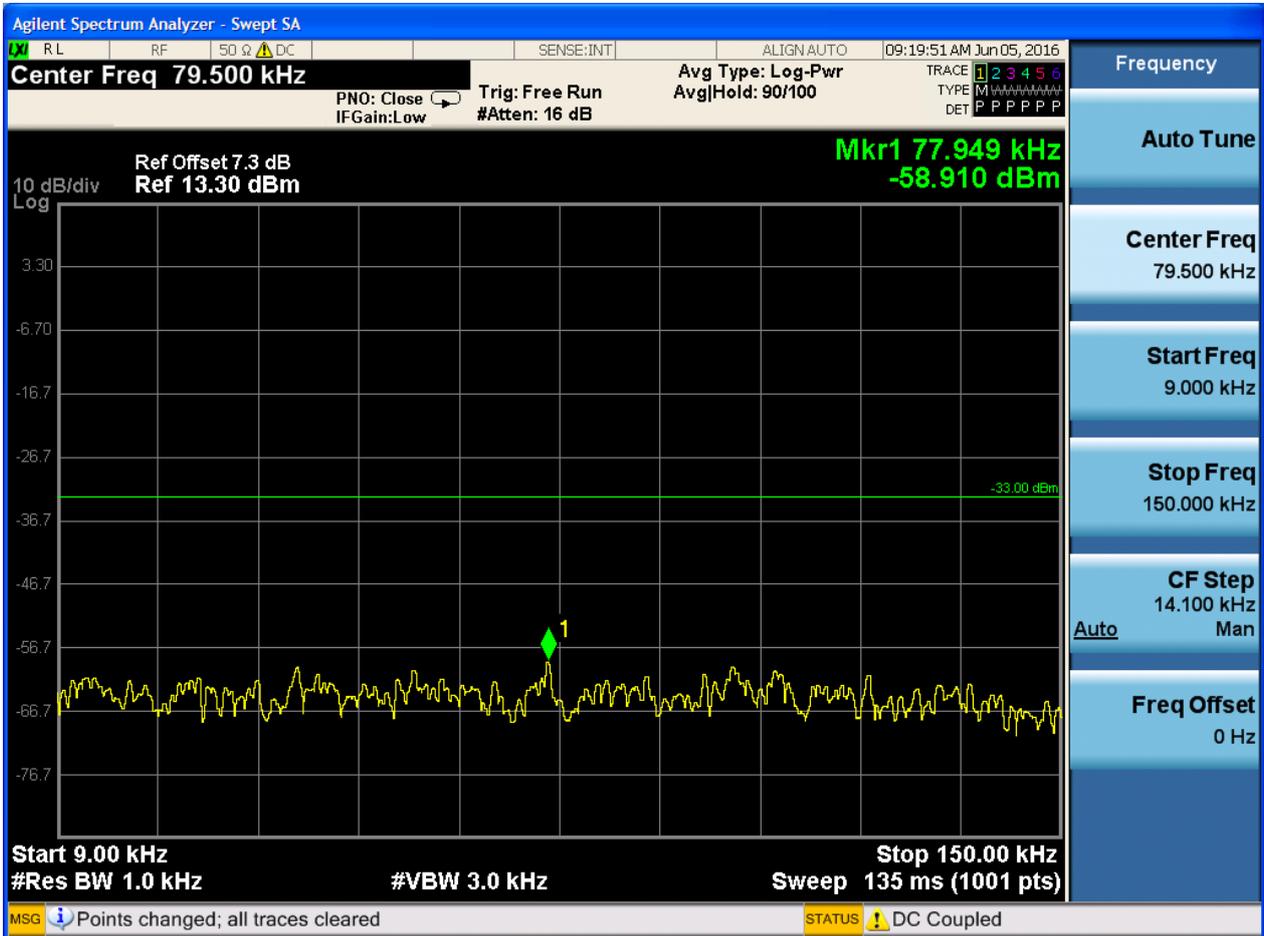


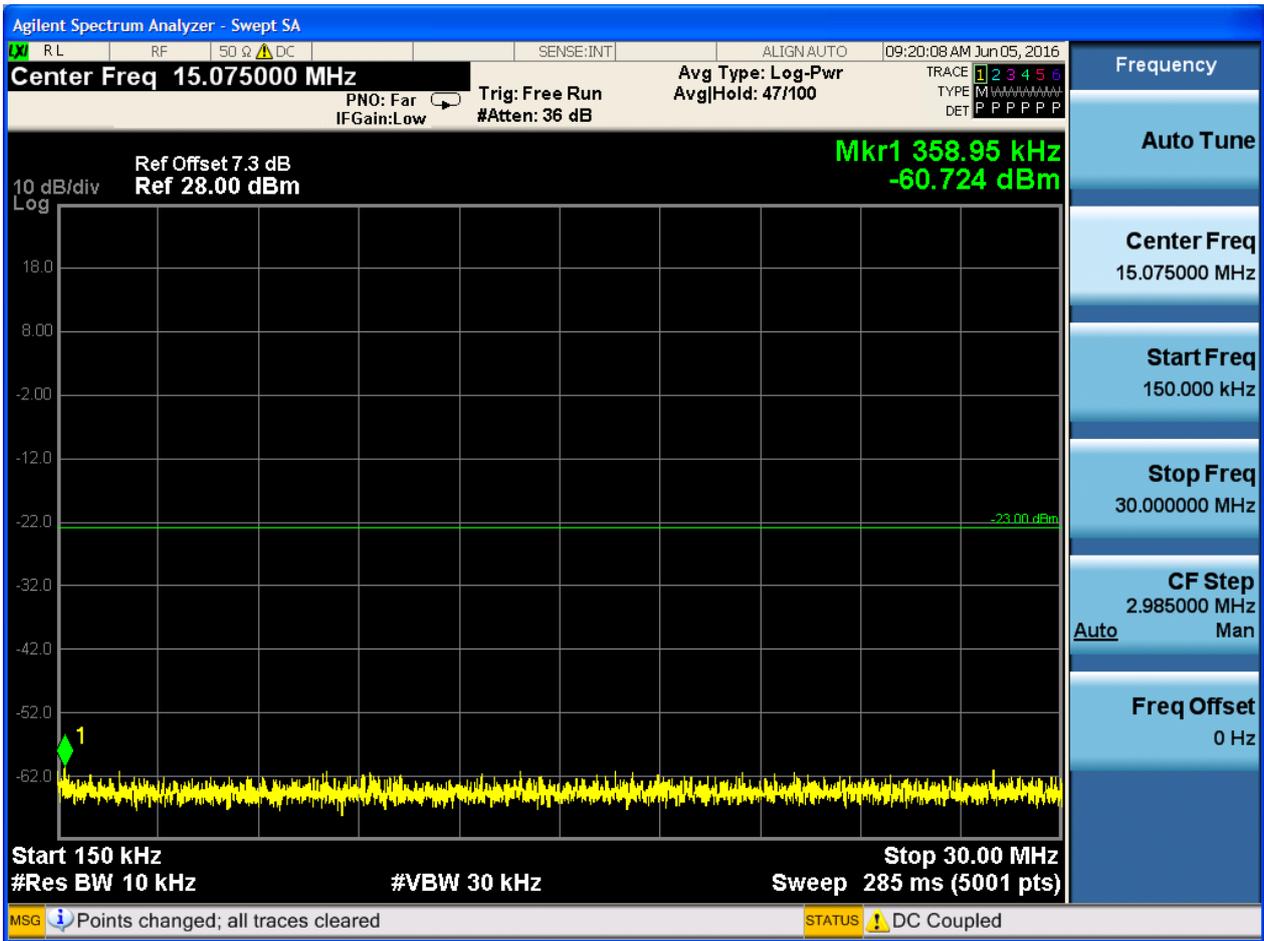


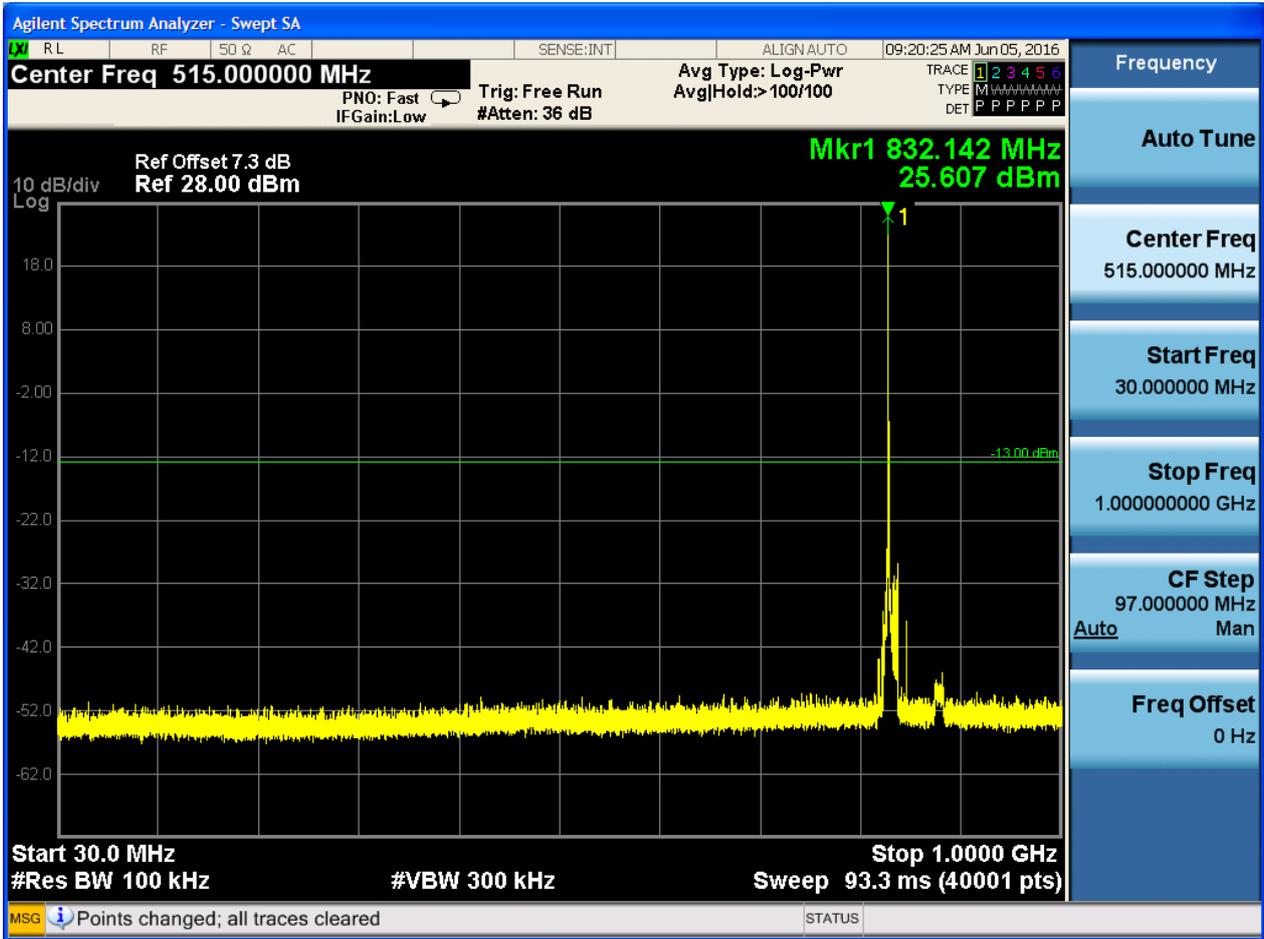


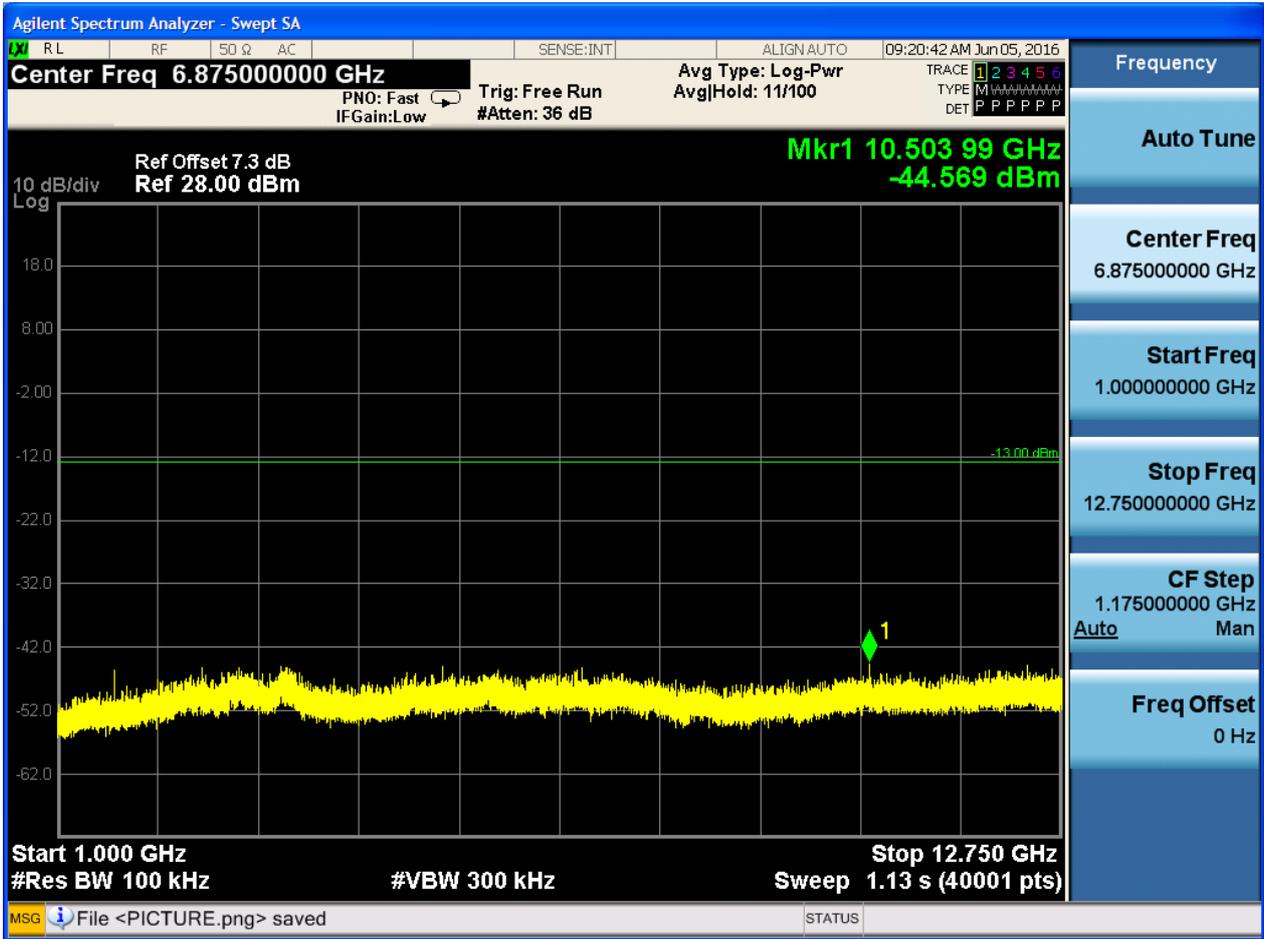
6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0





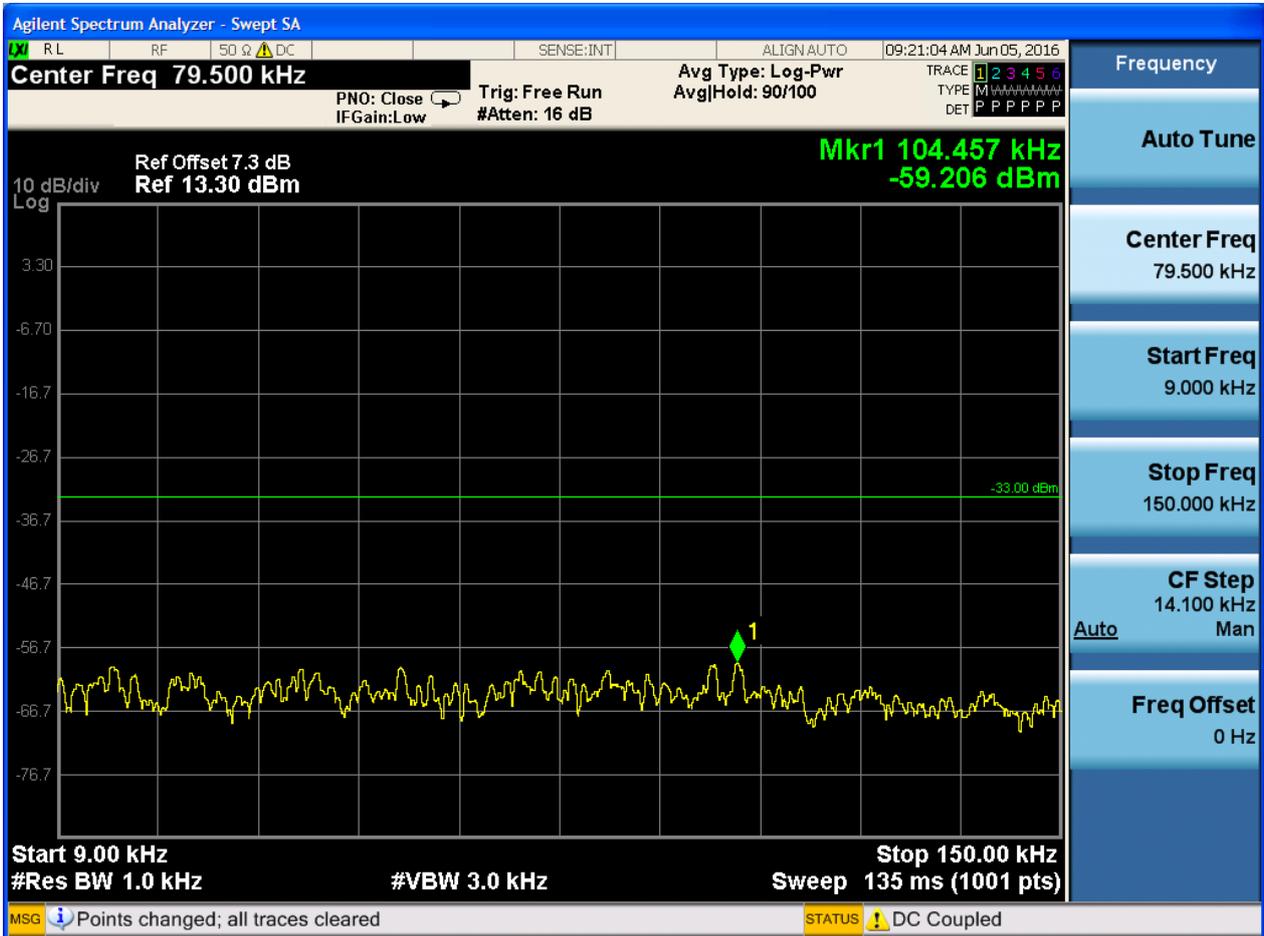


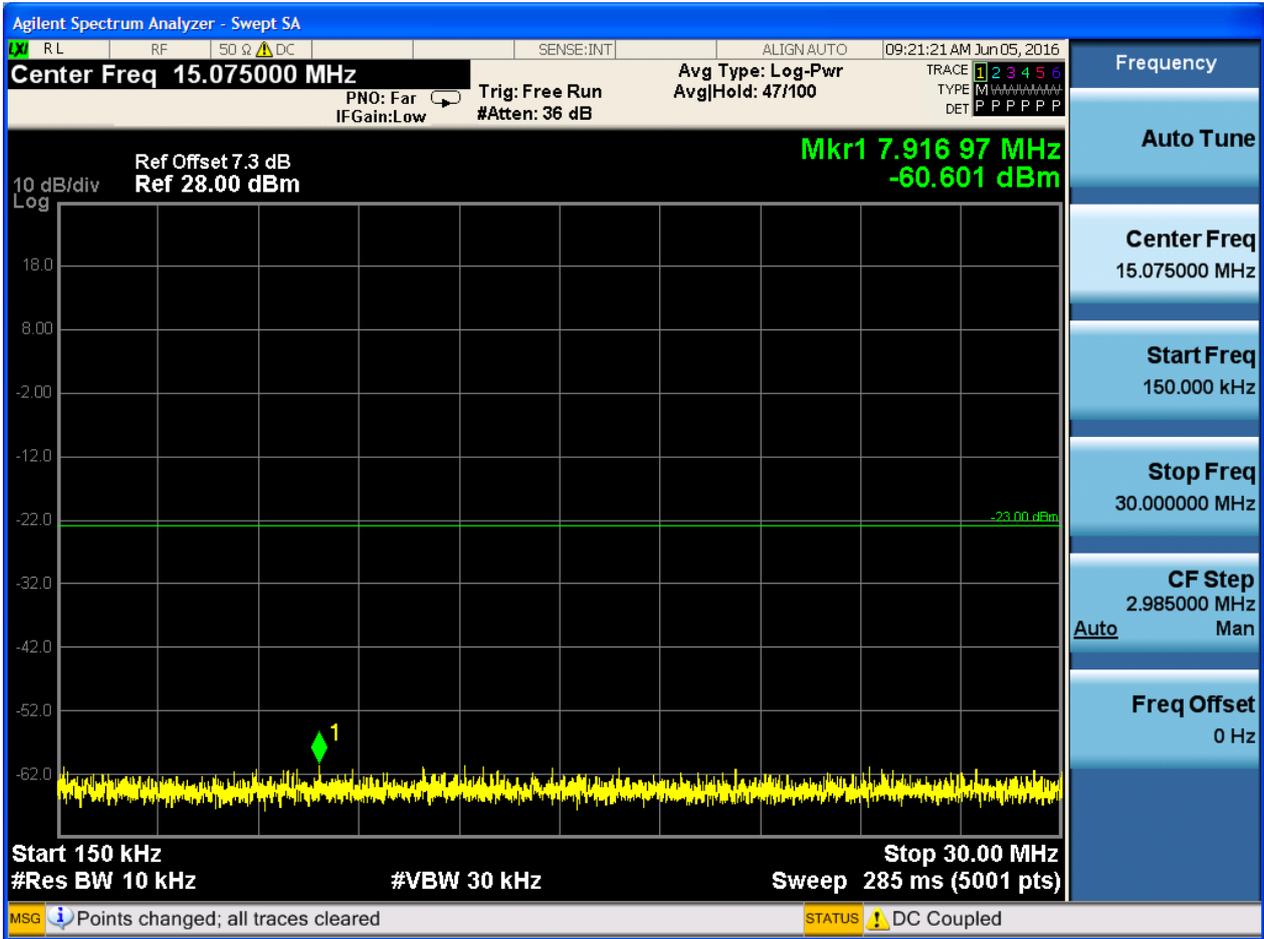


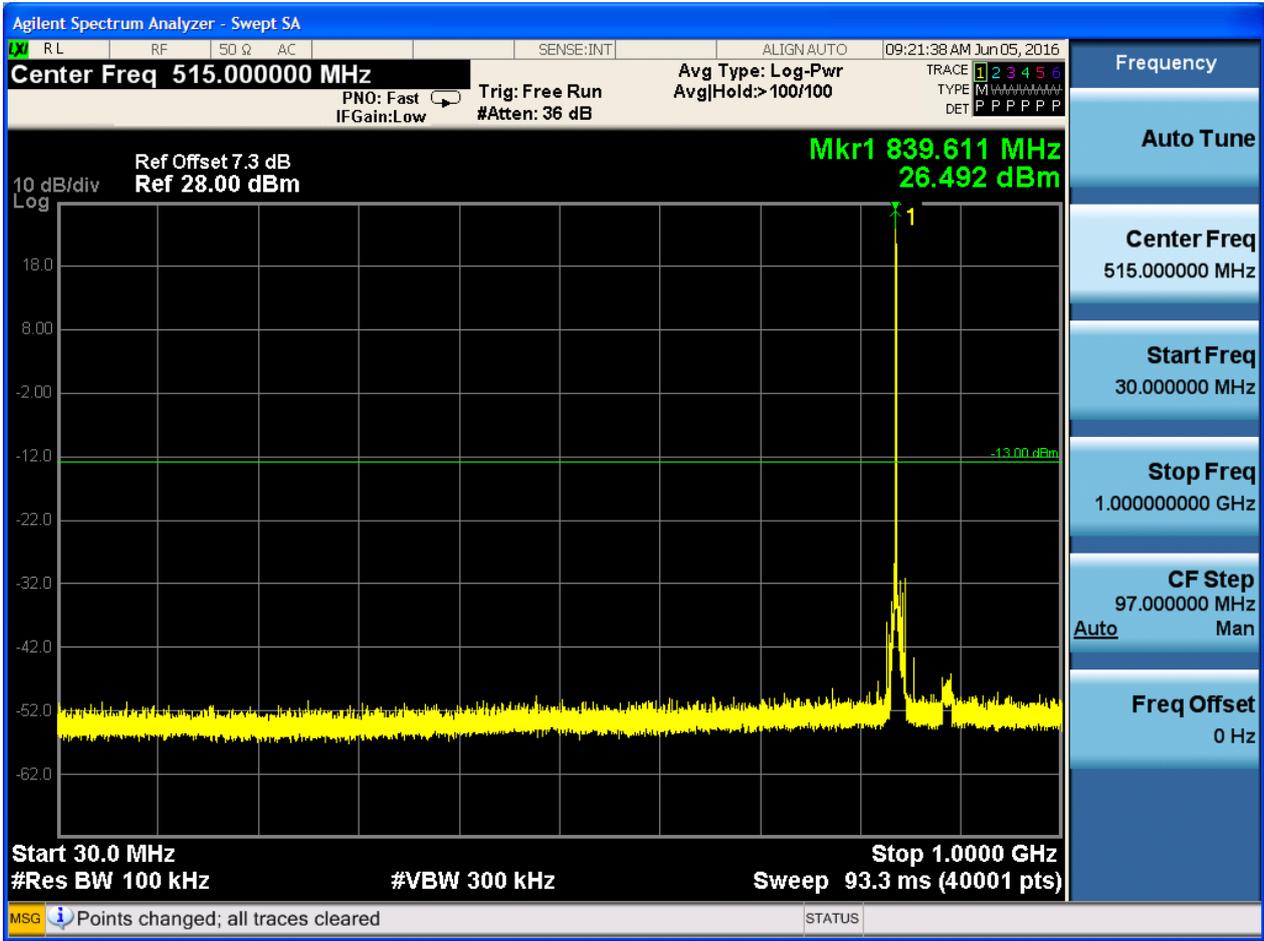


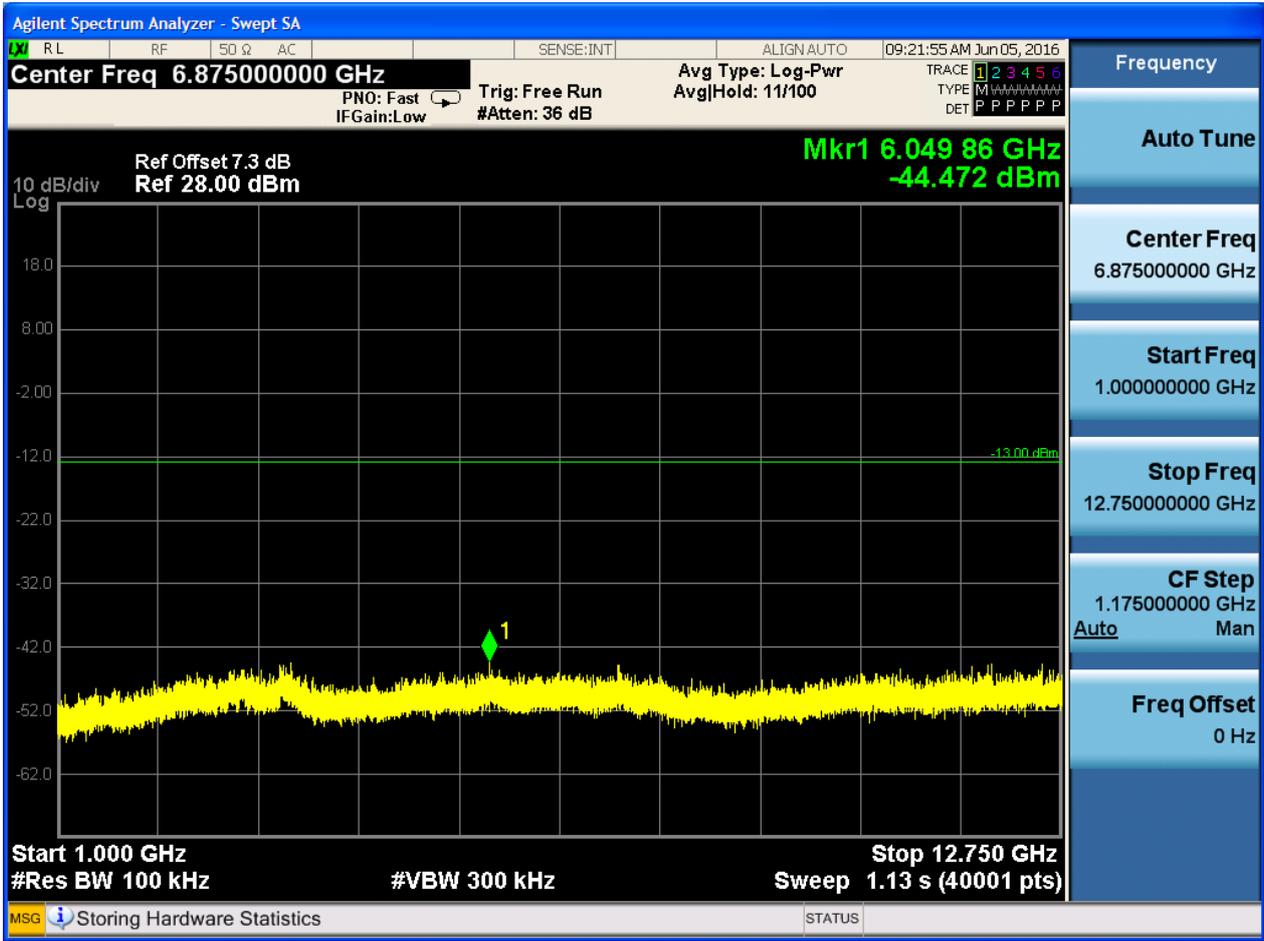
6.1.1.2.4.3 Test Channel = HCH

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, 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

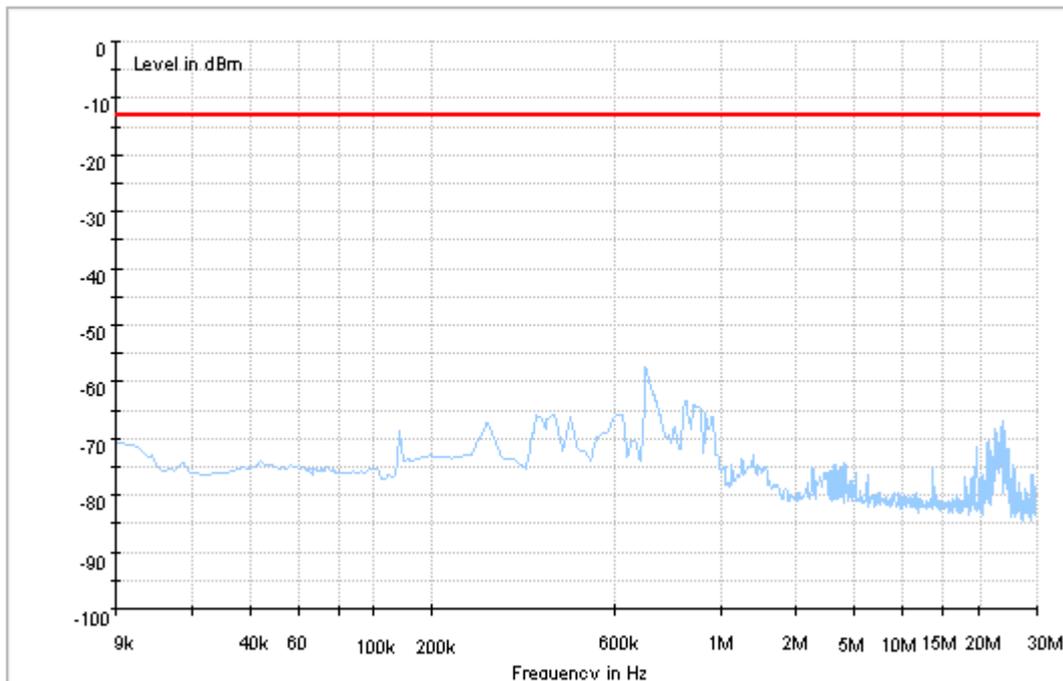
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

### Part I - Test Plots

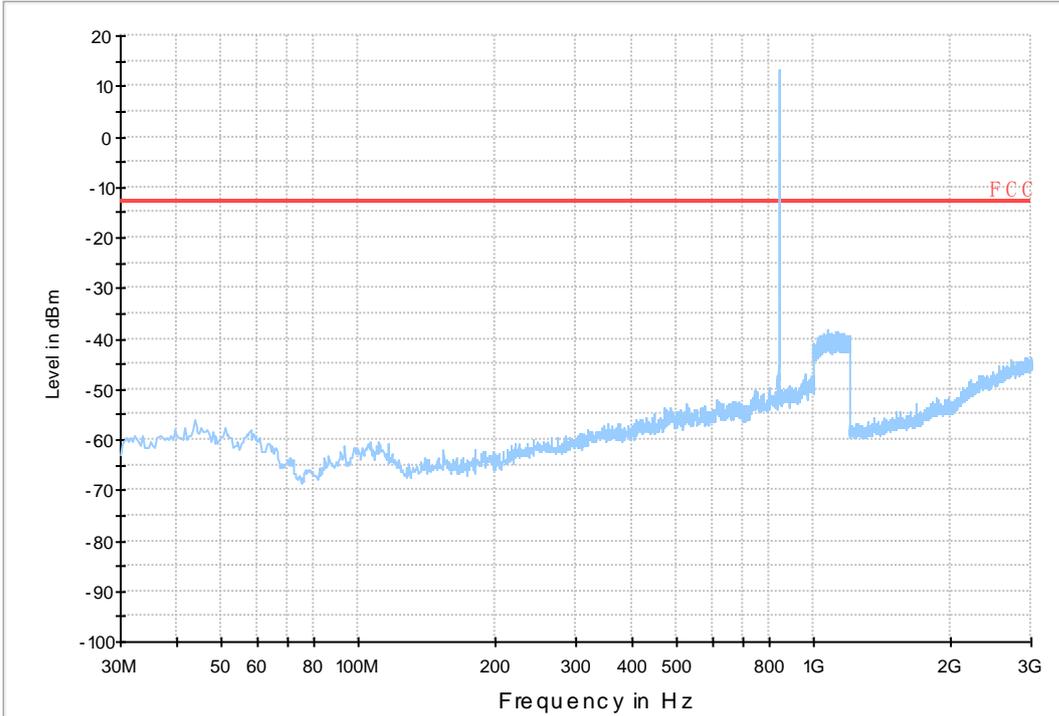
#### 7.1 For LTE

##### 7.1.1 Test Band = BAND5

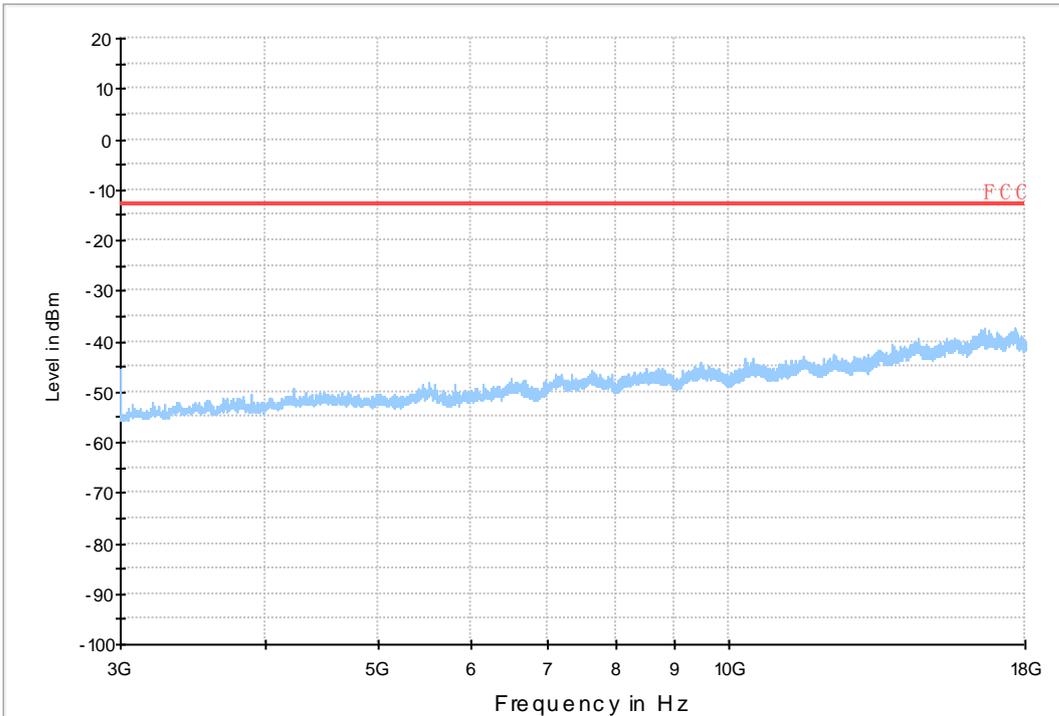
##### 7.1.1.1 Test Bandwidth = 1.4



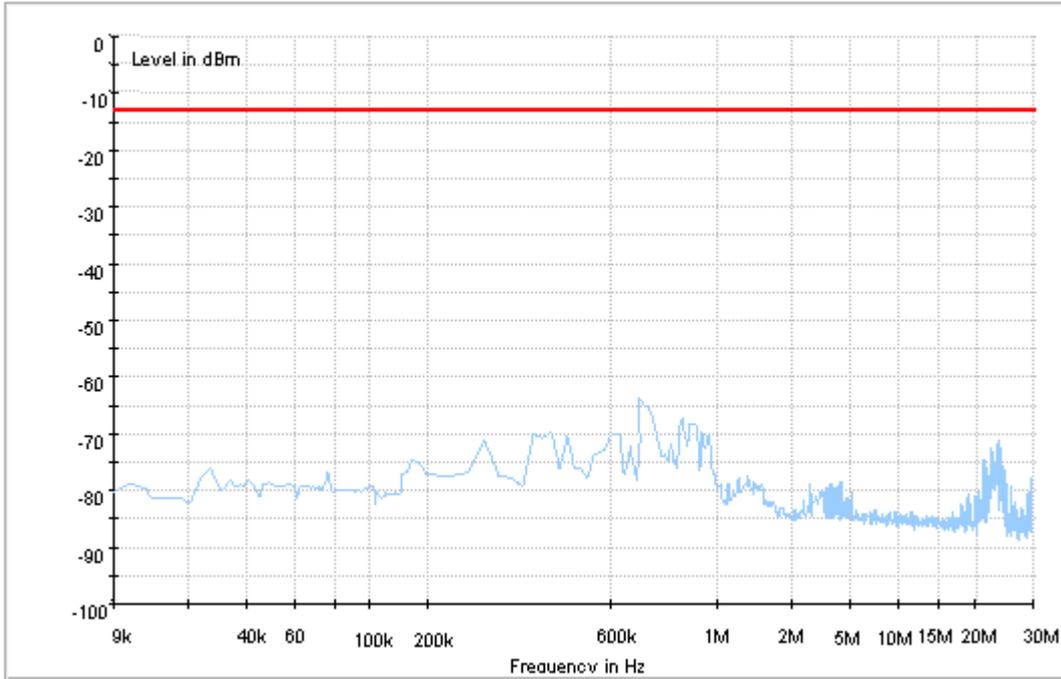
Copy of RSE-TX-DIRECTOR BELOW 1G\_L



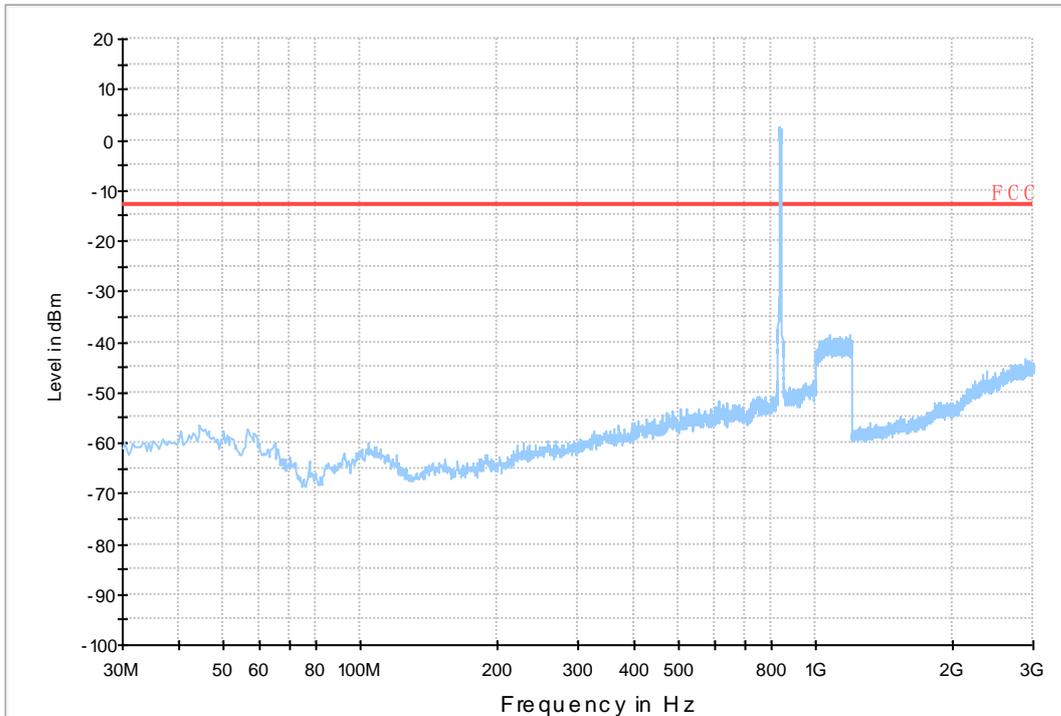
Copy of RSE-TX-DIRECTOR BELOW 1G\_H



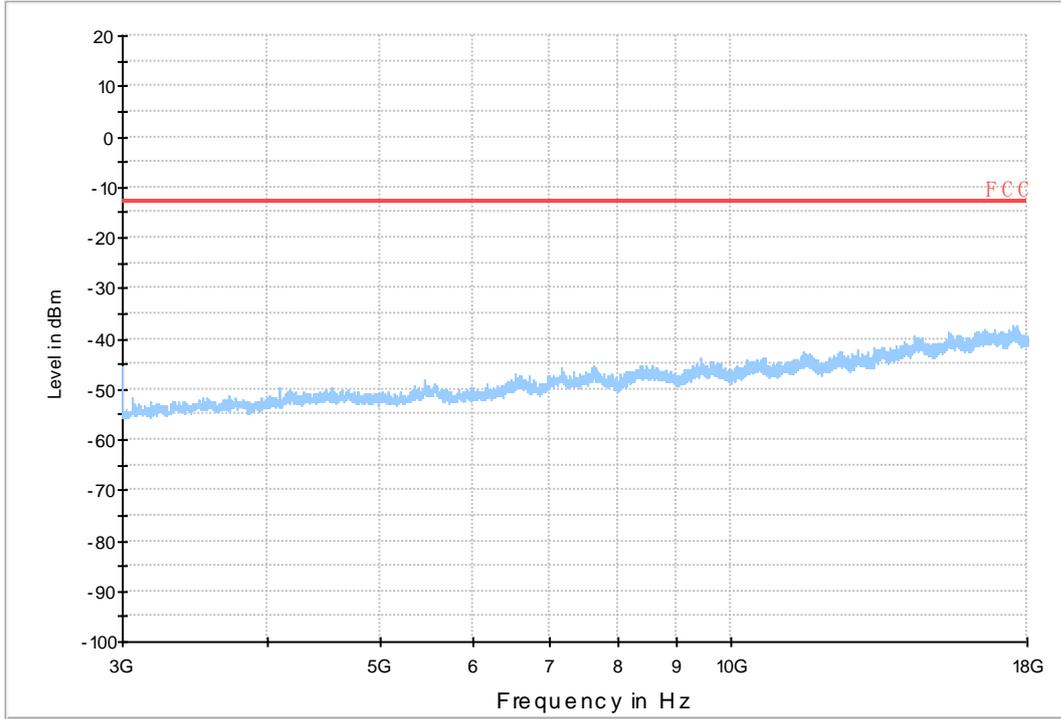
### 7.1.1.3 Test Bandwidth = 10



Copy of RSE-TX-DIRECTOR BELOW 1G\_L



Copy of 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
BAND5	LTE/TM1	1.4	LCH	TN	VL	-2.66	-0.00323	PASS
					VN	-1.16	-0.00141	PASS
					VH	-2.23	-0.0027	PASS
			MCH	TN	VL	0.21	0.00025	PASS
					VN	-1.12	-0.00134	PASS
					VH	-0.86	-0.00103	PASS
			HCH	TN	VL	0.23	0.00027	PASS
					VN	-1.19	-0.0014	PASS
					VH	-1.7	-0.002	PASS
		3	LCH	TN	VL	-1.49	-0.0018	PASS
					VN	0.66	0.0008	PASS
					VH	-0.94	-0.00114	PASS
			MCH	TN	VL	-1.6	-0.00191	PASS
					VN	-0.84	-0.001	PASS
					VH	-0.07	-0.00008	PASS
			HCH	TN	VL	-0.77	-0.00091	PASS
					VN	-1.24	-0.00146	PASS
					VH	-1.77	-0.00209	PASS
		5	LCH	TN	VL	-1.32	-0.0016	PASS
					VN	-1.27	-0.00154	PASS
					VH	-1.22	-0.00148	PASS
			MCH	TN	VL	-0.39	-0.00047	PASS
					VN	2.02	0.00241	PASS
					VH	-0.16	-0.00019	PASS
HCH	TN		VL	-0.26	-0.00031	PASS		
			VN	-0.37	-0.00044	PASS		
			VH	-0.14	-0.00017	PASS		
10	LCH	TN	VL	-2	-0.00241	PASS		
			VN	-2.02	-0.00244	PASS		
			VH	-0.31	-0.00037	PASS		
	MCH	TN	VL	-1.26	-0.00151	PASS		
			VN	-0.67	-0.0008	PASS		
			VH	-0.63	-0.00075	PASS		
HCH	TN	VL	-0.29	-0.00034	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	-0.66	-0.00078	PASS
					VH	-0.04	-0.00005	PASS
		1.4	LCH	TN	VL	-1.69	-0.00205	PASS
					VN	-2.32	-0.00281	PASS
					VH	-0.92	-0.00112	PASS
					VL	-1.49	-0.00178	PASS
					VN	-2.5	-0.00299	PASS
					VH	-1.37	-0.00164	PASS
			MCH	TN	VL	0	0	PASS
					VN	0	0	PASS
					VH	-1.2	-0.00141	PASS
					VL	1.32	0.0016	PASS
					VN	0.46	0.00056	PASS
					VH	0.27	0.00033	PASS
		3	LCH	TN	VL	-0.4	-0.00048	PASS
					VN	-0.36	-0.00043	PASS
					VH	-0.73	-0.00087	PASS
					VL	-1.24	-0.00146	PASS
					VN	-1.44	-0.0017	PASS
					VH	-1.99	-0.00235	PASS
			MCH	TN	VL	-1.2	-0.00145	PASS
					VN	-1.83	-0.00221	PASS
					VH	-2.55	-0.00309	PASS
					VL	-1	-0.0012	PASS
					VN	-1.46	-0.00175	PASS
					VH	-0.41	-0.00049	PASS
		5	LCH	TN	VL	-0.62	-0.00073	PASS
					VN	-0.37	-0.00044	PASS
					VH	-0.47	-0.00056	PASS
					VL	-2.75	-0.00332	PASS
					VN	-0.77	-0.00093	PASS
					VH	-2.35	-0.00283	PASS
			MCH	TN	VL	0.27	0.00032	PASS
					VN	-1.62	-0.00194	PASS
					VH	-0.31	-0.00037	PASS
					VL	-1.12	-0.00133	PASS
					VN	-0.33	-0.00039	PASS
					VH	-0.89	-0.00105	PASS
		10	LCH	TN	VL	-1.12	-0.00133	PASS
					VN	-0.33	-0.00039	PASS
					VH	-0.89	-0.00105	PASS
					VL	-1.12	-0.00133	PASS
VN	-0.33				-0.00039	PASS		
VH	-0.89				-0.00105	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
BAND5	LTE/TM1	1.4	LCH	VN	-30	-1.02	-0.00124	PASS
					-20	-1.39	-0.00169	PASS
					-10	-0.66	-0.0008	PASS
					0	-1.19	-0.00144	PASS
					10	-2.07	-0.00251	PASS
					20	-0.17	-0.00021	PASS
					30	-0.09	-0.00011	PASS
					40	-0.79	-0.00096	PASS
					50	-1.09	-0.00132	PASS
			MCH	VN	-30	0.34	0.00041	PASS
					-20	-0.62	-0.00074	PASS
					-10	-0.43	-0.00051	PASS
					0	0.43	0.00051	PASS
					10	-0.56	-0.00067	PASS
					20	-0.54	-0.00065	PASS
					30	-0.5	-0.0006	PASS
					40	-0.4	-0.00048	PASS
					50	-0.13	-0.00016	PASS
			HCH	VN	-30	-0.83	-0.00098	PASS
					-20	-1	-0.00118	PASS
					-10	-1.29	-0.00152	PASS
					0	-1.42	-0.00167	PASS
					10	-0.44	-0.00052	PASS
					20	-1.52	-0.00179	PASS
		30			-1.3	-0.00153	PASS	
		40			-1.36	-0.0016	PASS	
		50			-1.1	-0.0013	PASS	
		3	LCH	VN	-30	-4.02	-0.00487	PASS
					-20	-2.75	-0.00333	PASS
					-10	2.9	0.00351	PASS
					0	2.99	0.00362	PASS
					10	1.89	0.00229	PASS
					20	-0.6	-0.00073	PASS
					30	7.32	0.00887	PASS
					40	12.57	0.01523	PASS
					50	5.32	0.00644	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict	
			MCH	VN	-30	-2.02	-0.00241	PASS	
					-20	-2.27	-0.00271	PASS	
					-10	1.72	0.00206	PASS	
					0	1.22	0.00146	PASS	
					10	-2.19	-0.00262	PASS	
					20	-2.95	-0.00353	PASS	
					30	4.42	0.00528	PASS	
					40	-2.49	-0.00298	PASS	
			50	0.74	0.00088	PASS			
			HCH	VN	-30	-3.06	-0.00361	PASS	
					-20	-7.78	-0.00918	PASS	
					-10	-9.5	-0.01121	PASS	
					0	8.54	0.01008	PASS	
					10	-9.4	-0.01109	PASS	
					20	3.71	0.00438	PASS	
					30	2.33	0.00275	PASS	
					40	1.62	0.00191	PASS	
			50	6.74	0.00795	PASS			
			5	LCH	VN	-30	-0.73	-0.00088	PASS
						-20	4.43	0.00536	PASS
						-10	14.28	0.01728	PASS
						0	-0.63	-0.00076	PASS
						10	-10.43	-0.01262	PASS
						20	-6.18	-0.00748	PASS
		30				-5.11	-0.00618	PASS	
		40				-11.7	-0.01416	PASS	
		50		-6.44	-0.00779	PASS			
		MCH		VN	-30	-2.13	-0.00255	PASS	
					-20	-1.24	-0.00148	PASS	
					-10	-2.93	-0.0035	PASS	
					0	-3.03	-0.00362	PASS	
					10	-4.28	-0.00512	PASS	
					20	-1.97	-0.00236	PASS	
					30	3.45	0.00412	PASS	
			40		1.86	0.00222	PASS		
		50	2.16	0.00258	PASS				
		HCH	VN	-30	-13.29	-0.0157	PASS		
				-20	-1.04	-0.00123	PASS		
				-10	-4.62	-0.00546	PASS		

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict							
					0	-3.86	-0.00456	PASS							
					10	-5.36	-0.00633	PASS							
					20	-1.22	-0.00144	PASS							
					30	-9.86	-0.01165	PASS							
					40	7.62	0.009	PASS							
					50	-2.29	-0.00271	PASS							
		LCH	VN	10	LCH	VN	-30	-3.88	-0.00468	PASS					
							-20	-3.86	-0.00466	PASS					
							-10	6.57	0.00793	PASS					
							0	3.62	0.00437	PASS					
							10	-15.65	-0.01888	PASS					
							20	-1.19	-0.00144	PASS					
							30	5.81	0.00701	PASS					
							40	0.04	0.00005	PASS					
							50	-13.36	-0.01612	PASS					
							MCH	VN	10	MCH	VN	-30	1.24	0.0015	PASS
												-20	4.28	0.00518	PASS
												-10	-0.53	-0.00064	PASS
												0	0.89	0.00108	PASS
												10	-0.04	-0.00005	PASS
												20	1.24	0.0015	PASS
	30	4.28	0.00518	PASS											
	40	-0.53	-0.00064	PASS											
	HCH	VN	10	HCH	VN	-30	-5.71	-0.00677	PASS						
						-20	-0.5	-0.00059	PASS						
						-10	-14.48	-0.01716	PASS						
						0	1.39	0.00165	PASS						
						10	-0.56	-0.00066	PASS						
						20	-8.58	-0.01017	PASS						
						30	5.34	0.00633	PASS						
						40	-3.83	-0.00454	PASS						
	50	-5.36	-0.00635	PASS											
	LTE/TM2	LCH	1.4	LCH	VN	-30	-0.41	-0.0005	PASS						
						-20	-0.7	-0.00085	PASS						
						-10	-0.41	-0.0005	PASS						
						0	-1.12	-0.00136	PASS						
						10	-1.17	-0.00142	PASS						
						20	-0.53	-0.00064	PASS						

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict		
					30	-0.3	-0.00036	PASS		
					40	-0.97	-0.00118	PASS		
					50	-0.54	-0.00065	PASS		
			MCH	VN	-30	-1.03	-0.00123	PASS		
					-20	-1.46	-0.00175	PASS		
					-10	-1.6	-0.00191	PASS		
					0	-0.97	-0.00116	PASS		
					10	-0.69	-0.00082	PASS		
					20	-1.56	-0.00186	PASS		
					30	-0.66	-0.00079	PASS		
					40	-1.34	-0.0016	PASS		
					50	-1.16	-0.00139	PASS		
					HCH	VN	-30	-1.66	-0.00196	PASS
							-20	-0.7	-0.00083	PASS
							-10	-1.49	-0.00176	PASS
			0	-1			-0.00118	PASS		
			10	-0.23			-0.00027	PASS		
			20	-1.33			-0.00157	PASS		
		30	-0.99	-0.00117			PASS			
		40	-1.5	-0.00177			PASS			
		LCH	VN	50	-1.23	-0.00145	PASS			
				-30	-12.5	-0.01514	PASS			
				-20	11.5	0.01393	PASS			
				-10	-7.87	-0.00953	PASS			
				0	2.23	0.0027	PASS			
				10	-23.37	-0.02831	PASS			
				20	-9.84	-0.01192	PASS			
				30	19.38	0.02348	PASS			
				40	10.97	0.01329	PASS			
				50	4.41	0.00534	PASS			
		MCH	VN	-30	-1.73	-0.00207	PASS			
				-20	-1.06	-0.00127	PASS			
				-10	2.26	0.0027	PASS			
				0	1.06	0.00127	PASS			
				10	1.99	0.00238	PASS			
				20	1.52	0.00182	PASS			
30	2.43			0.0029	PASS					
40	2.68			0.0032	PASS					
50	-4.69	-0.00561	PASS							

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			HCH	VN	-30	5.06	0.00597	PASS
					-20	-11.74	-0.01385	PASS
					-10	12.45	0.01469	PASS
					0	-3.02	-0.00356	PASS
					10	4.09	0.00483	PASS
					20	-1.03	-0.00122	PASS
					30	-11.09	-0.01309	PASS
					40	-12.66	-0.01494	PASS
		5	LCH	VN	-30	-0.76	-0.00092	PASS
					-20	1.24	0.0015	PASS
					-10	4.28	0.00518	PASS
					0	-0.53	-0.00064	PASS
					10	0.89	0.00108	PASS
					20	-0.04	-0.00005	PASS
					30	-0.01	-0.00001	PASS
					40	-8.43	-0.0102	PASS
			50	4.98	0.00603	PASS		
			MCH	VN	-30	0.83	0.00099	PASS
					-20	0.19	0.00023	PASS
					-10	-3.38	-0.00404	PASS
		0			-1.87	-0.00224	PASS	
		10			-1.06	-0.00127	PASS	
		20			4.09	0.00489	PASS	
		30			-4.53	-0.00542	PASS	
		40			-0.04	-0.00005	PASS	
		HCH	VN	-30	-2.07	-0.00245	PASS	
				-20	6.28	0.00742	PASS	
				-10	8.34	0.00985	PASS	
				0	-9.37	-0.01107	PASS	
				10	-7.68	-0.00907	PASS	
				20	0.19	0.00022	PASS	
				30	1.37	0.00162	PASS	
				40	-3.5	-0.00413	PASS	
		50	16.48	0.01947	PASS			
		10	LCH	VN	-30	-13.6	-0.01641	PASS
					-20	4.69	0.00566	PASS
					-10	-1.92	-0.00232	PASS

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict			
					0	-9.94	-0.01199	PASS			
					10	-8.68	-0.01047	PASS			
					20	-12.35	-0.0149	PASS			
					30	-3.91	-0.00472	PASS			
					40	-8.1	-0.00977	PASS			
					50	7.54	0.0091	PASS			
			MCH	VN	-30	1.24	0.0015	PASS			
					-20	4.28	0.00518	PASS			
					-10	-0.53	-0.00064	PASS			
					0	0.89	0.00108	PASS			
					10	-0.04	-0.00005	PASS			
					20	1.24	0.0015	PASS			
					30	4.28	0.00518	PASS			
					40	-0.53	-0.00064	PASS			
			HCH	VN	-30	6.18	0.00732	PASS			
					-20	-10.07	-0.01193	PASS			
					-10	-9.84	-0.01166	PASS			
					0	-0.5	-0.00059	PASS			
					10	-3.55	-0.00421	PASS			
					20	-2.06	-0.00244	PASS			
					30	-0.17	-0.0002	PASS			
					40	-7.14	-0.00846	PASS			
								50	-0.34	-0.0004	PASS

END