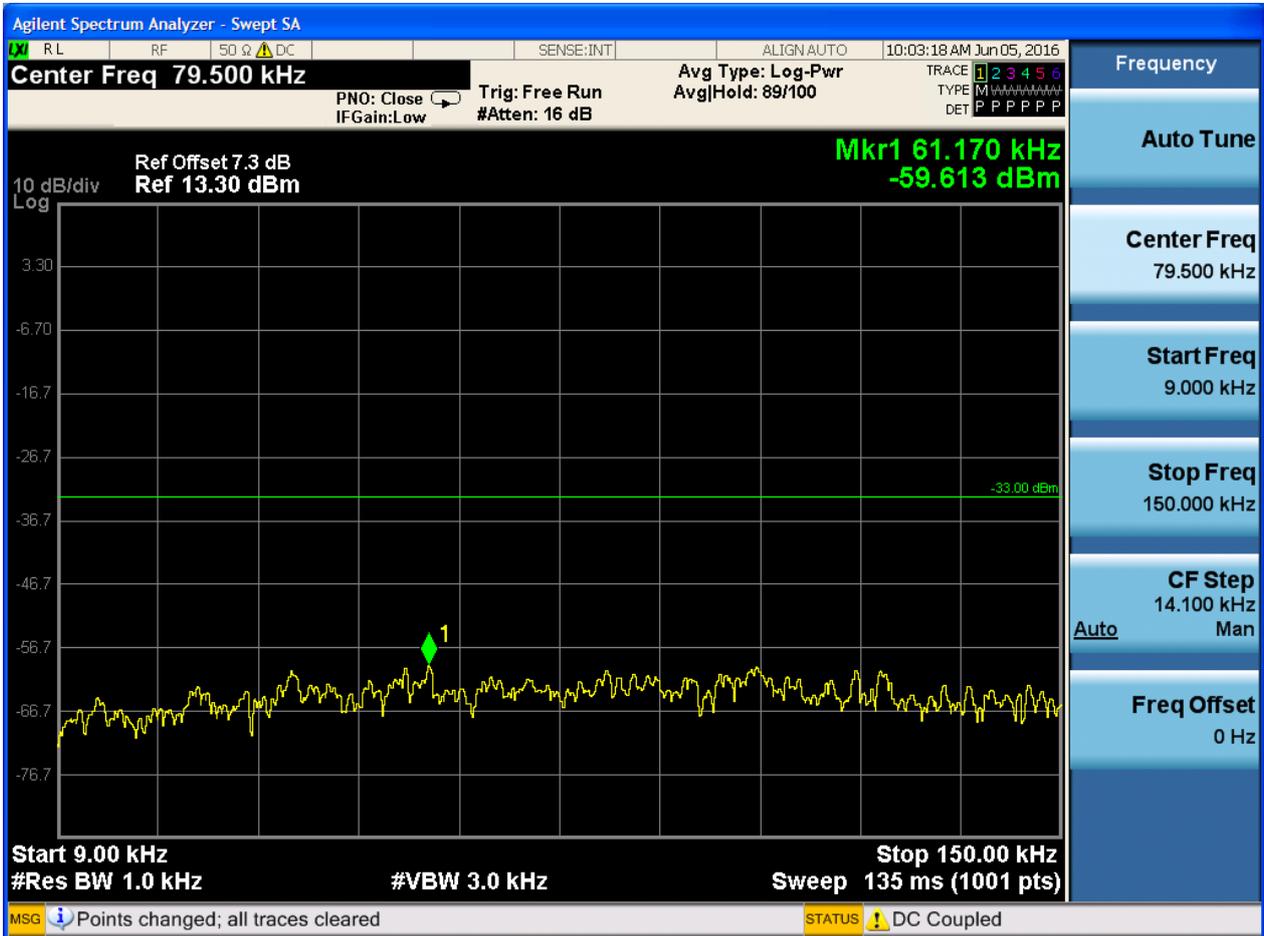
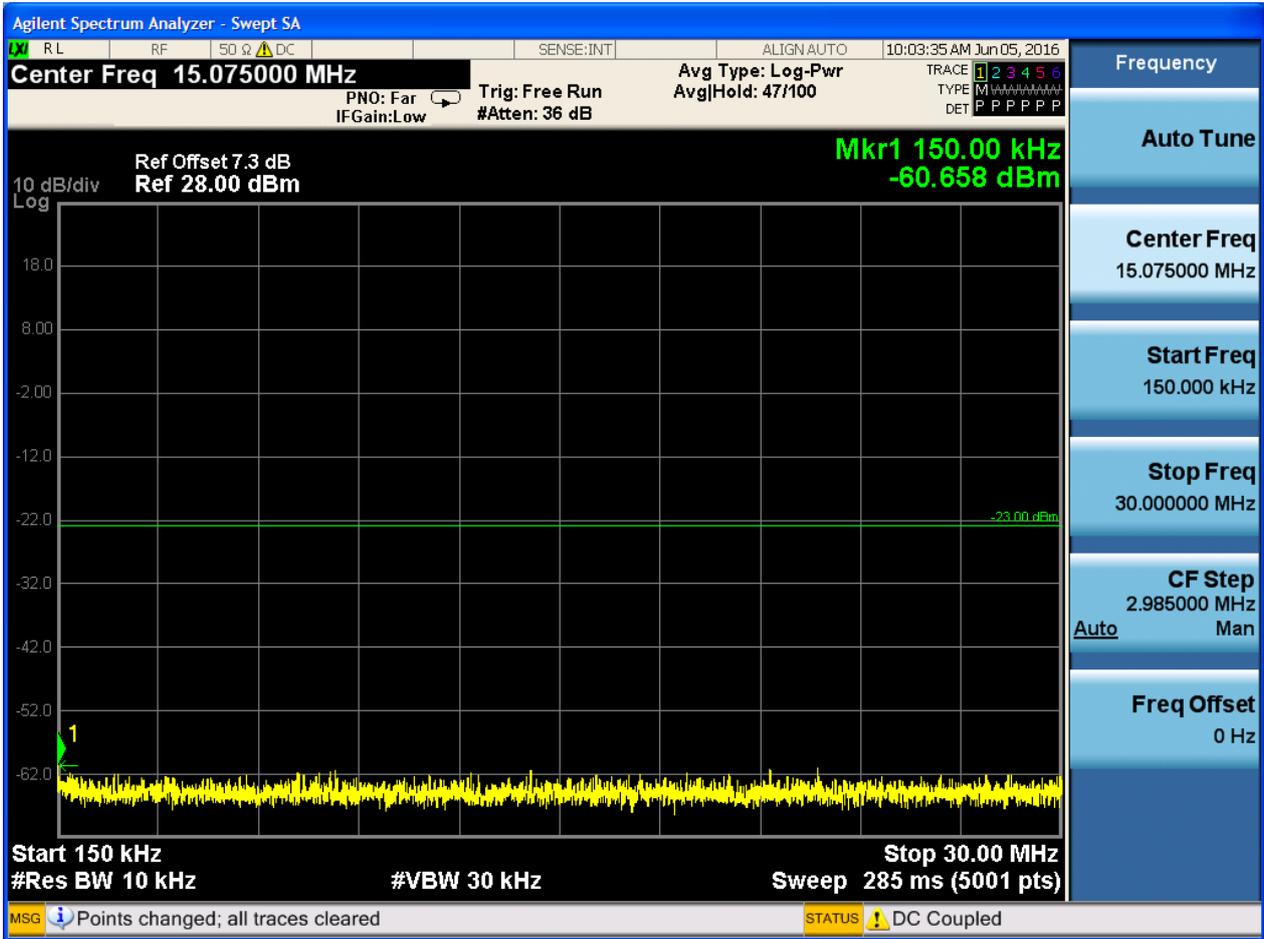


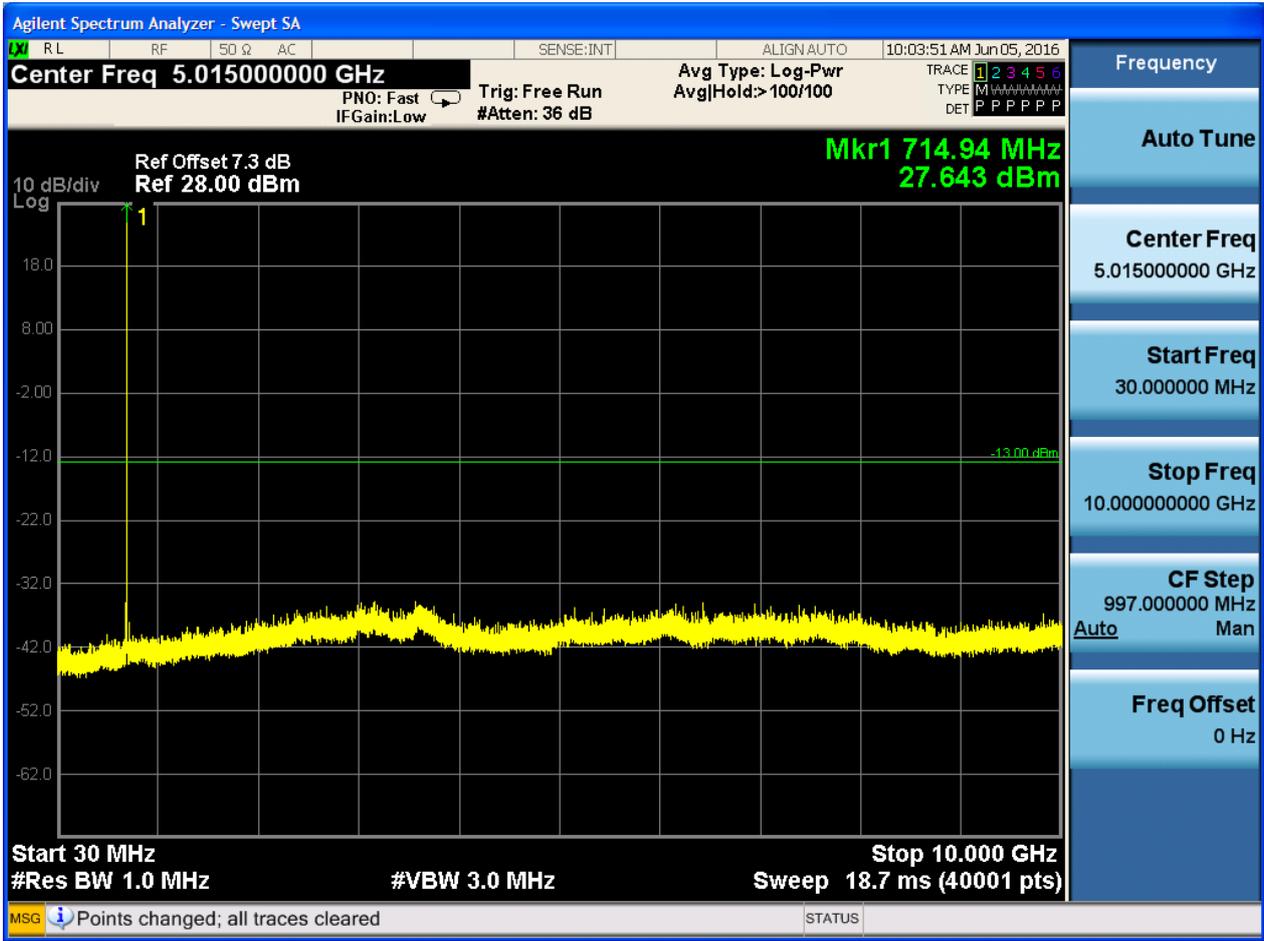


6.1.1.1.3 Test Channel = HCH

6.1.1.1.3.1 Test RB = RB1#0





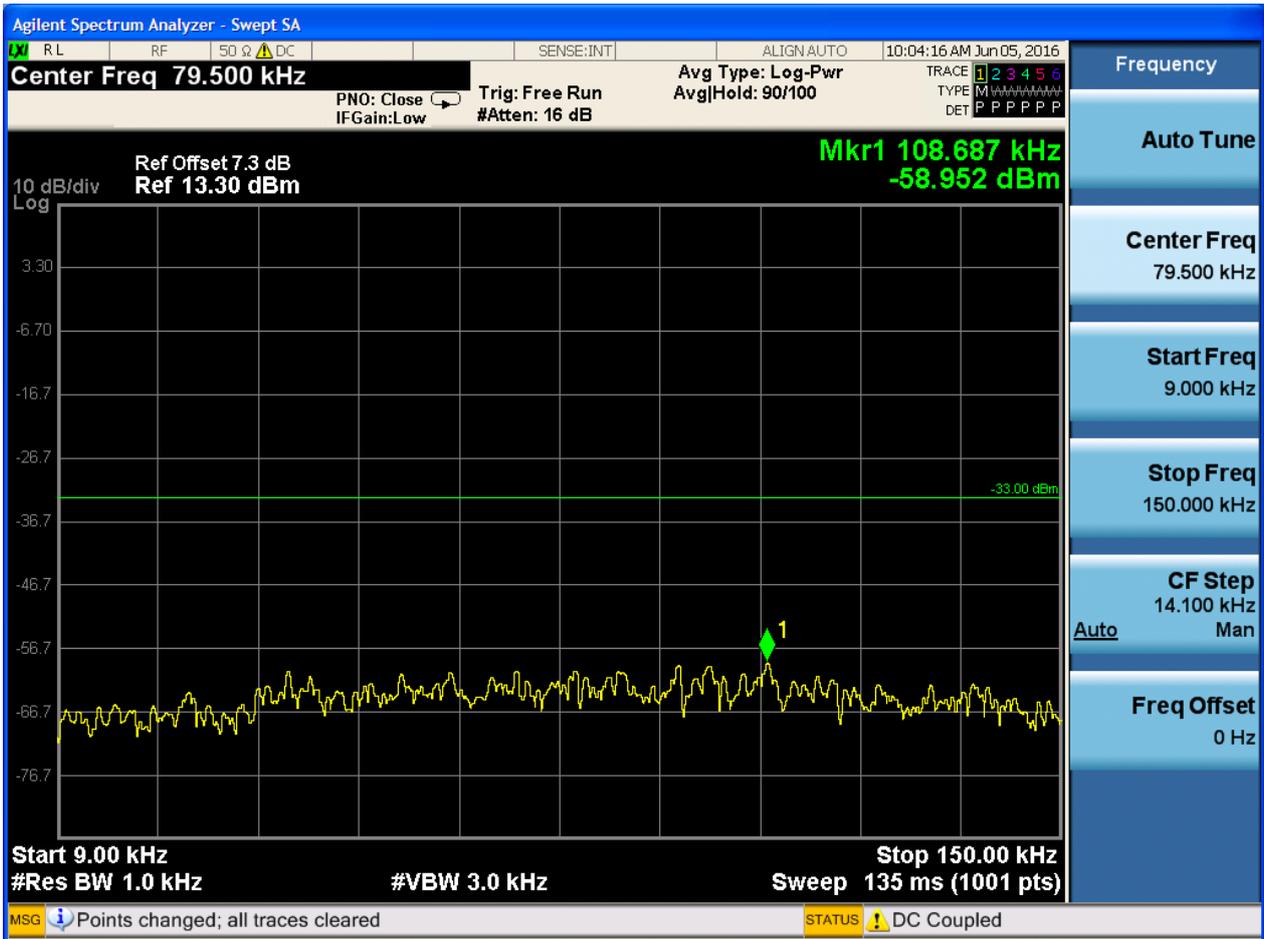


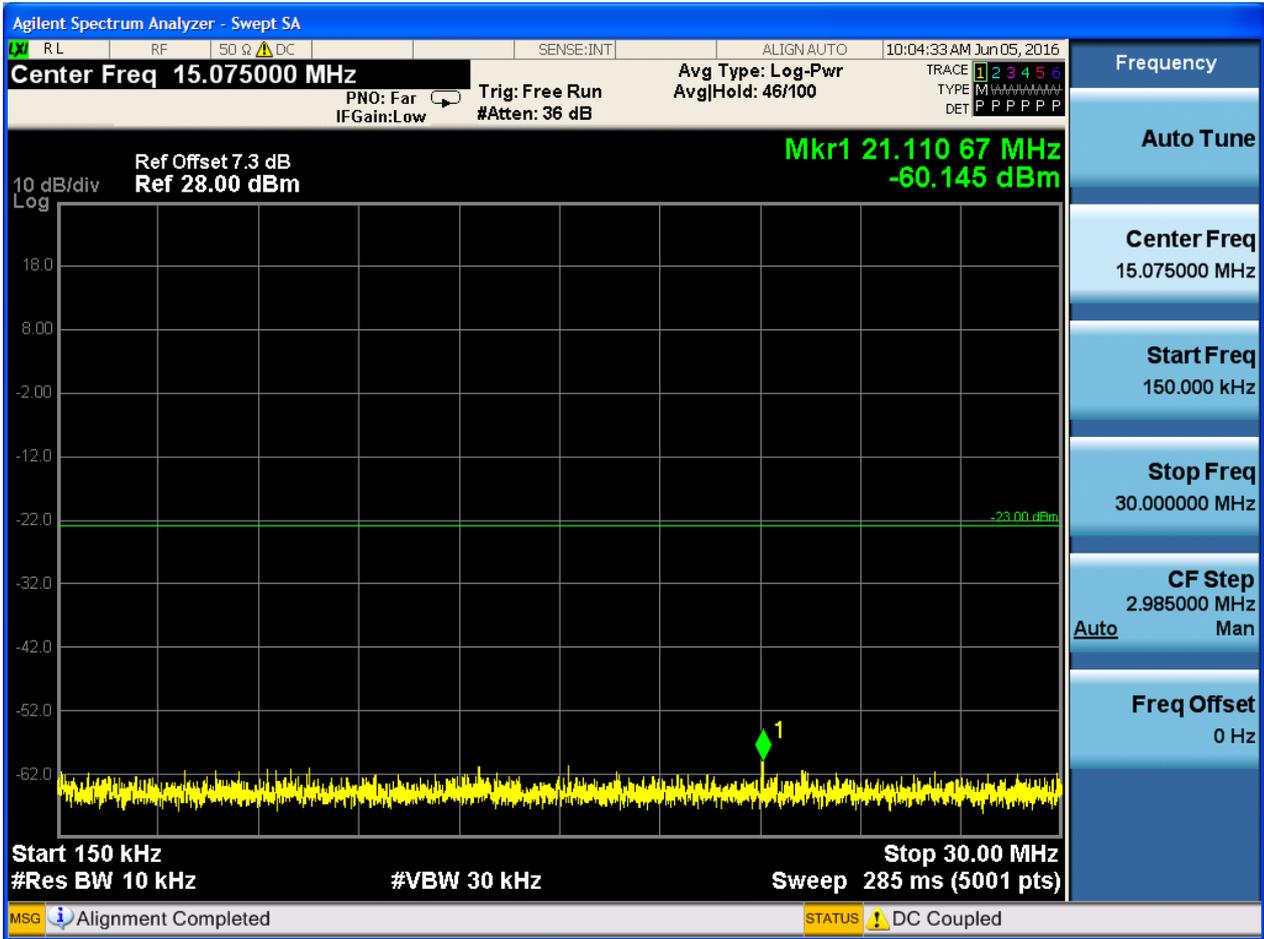


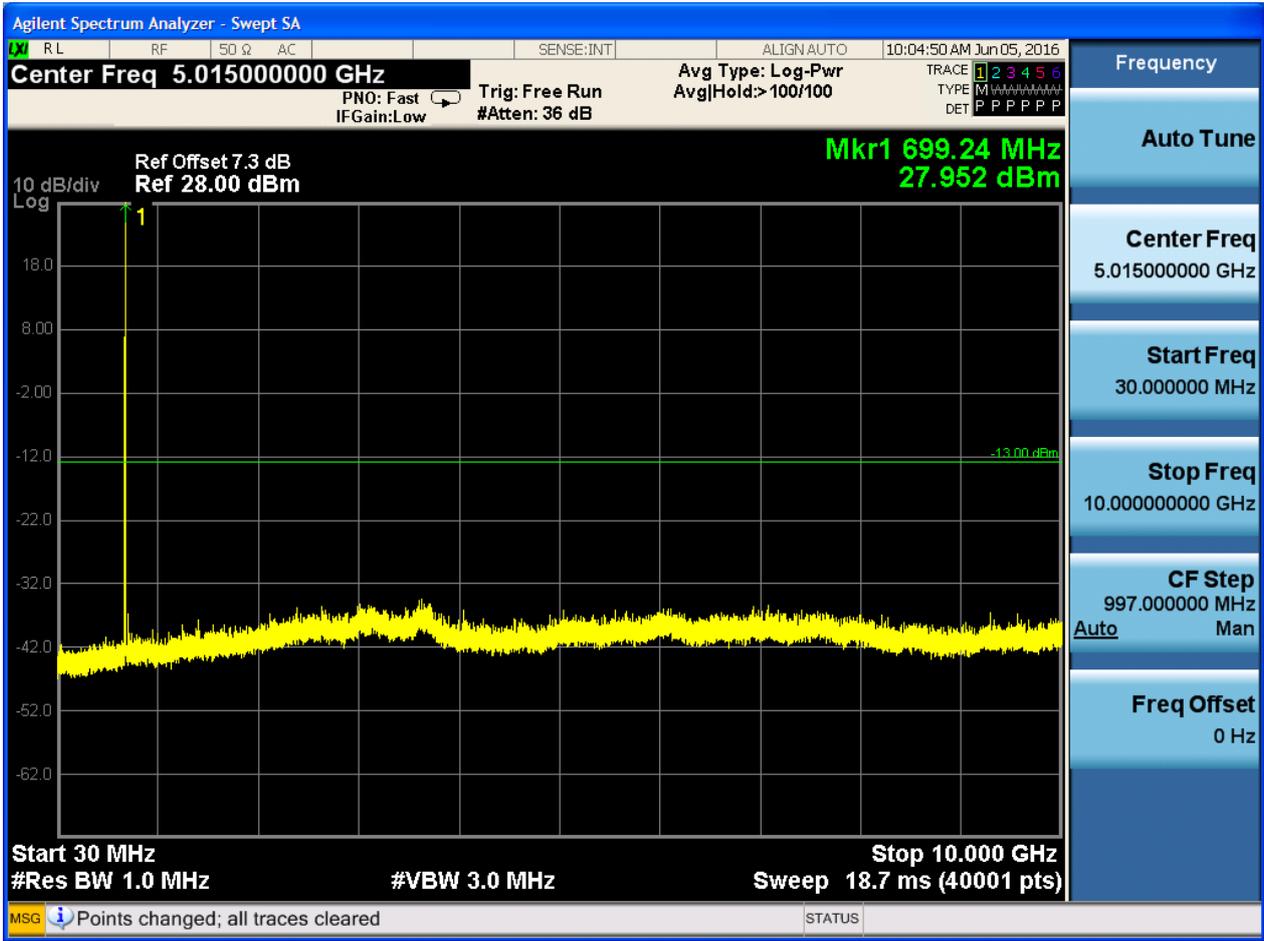
6.1.1.1.2 Test Bandwidth = 3

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0



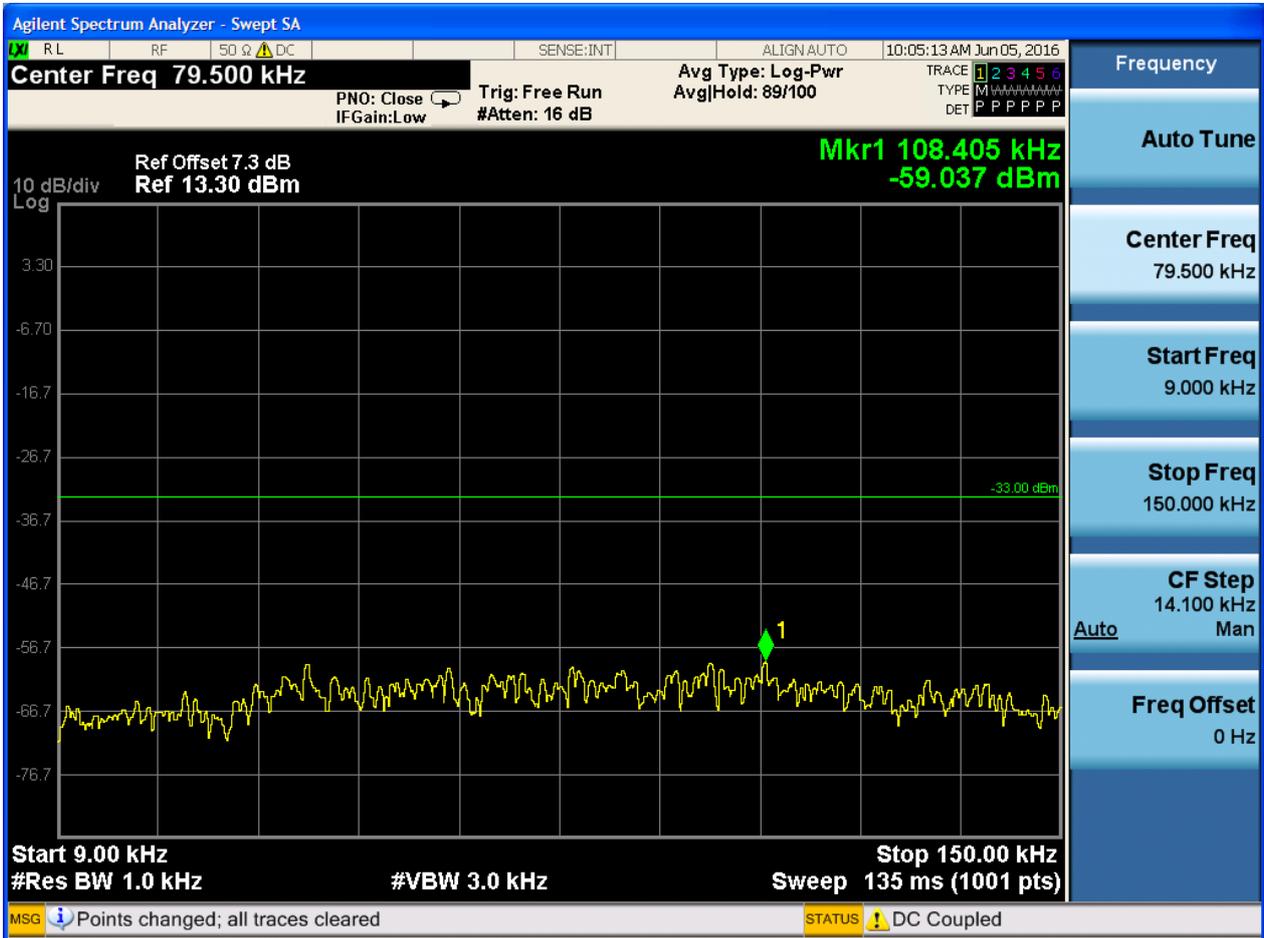


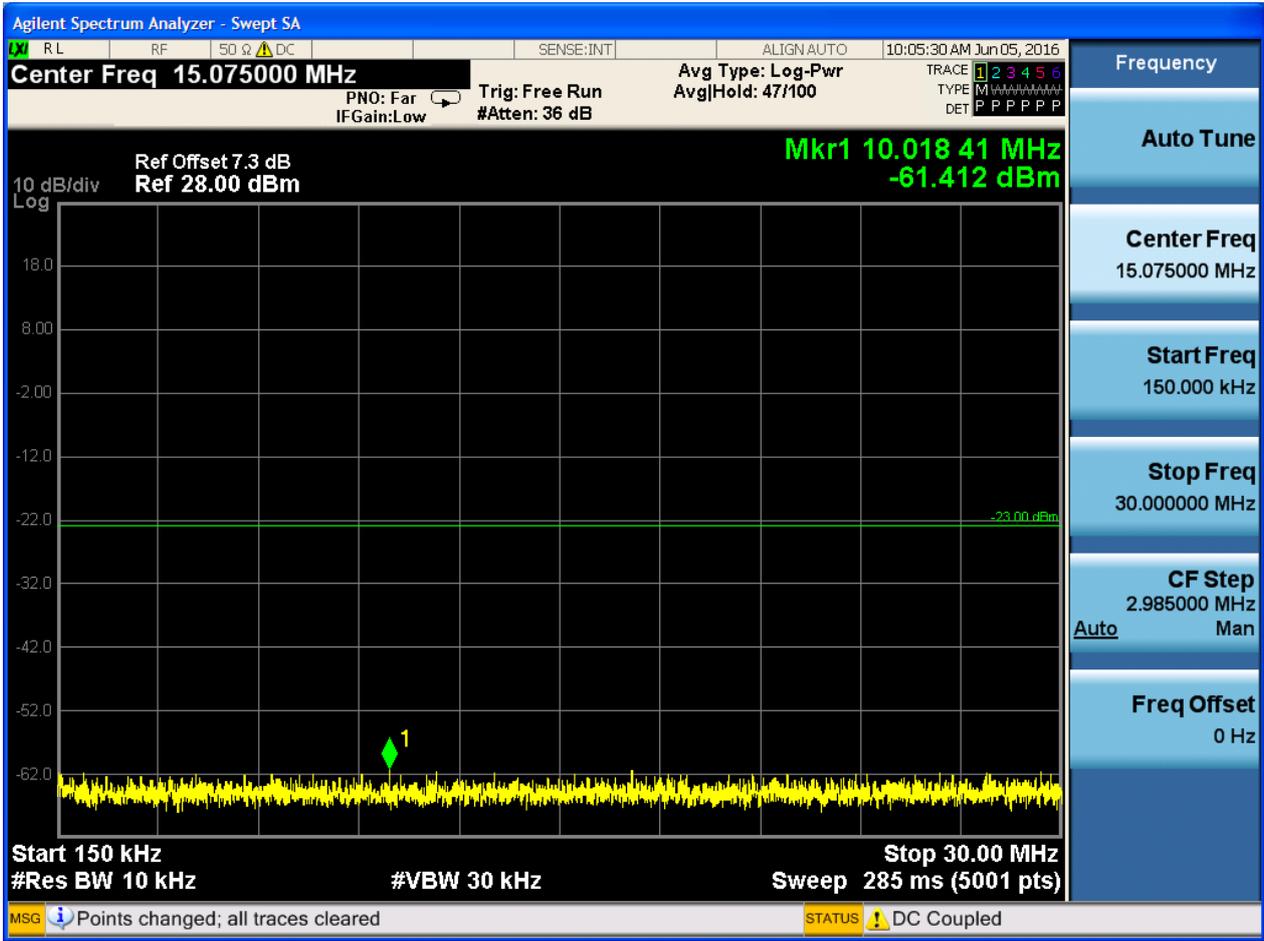


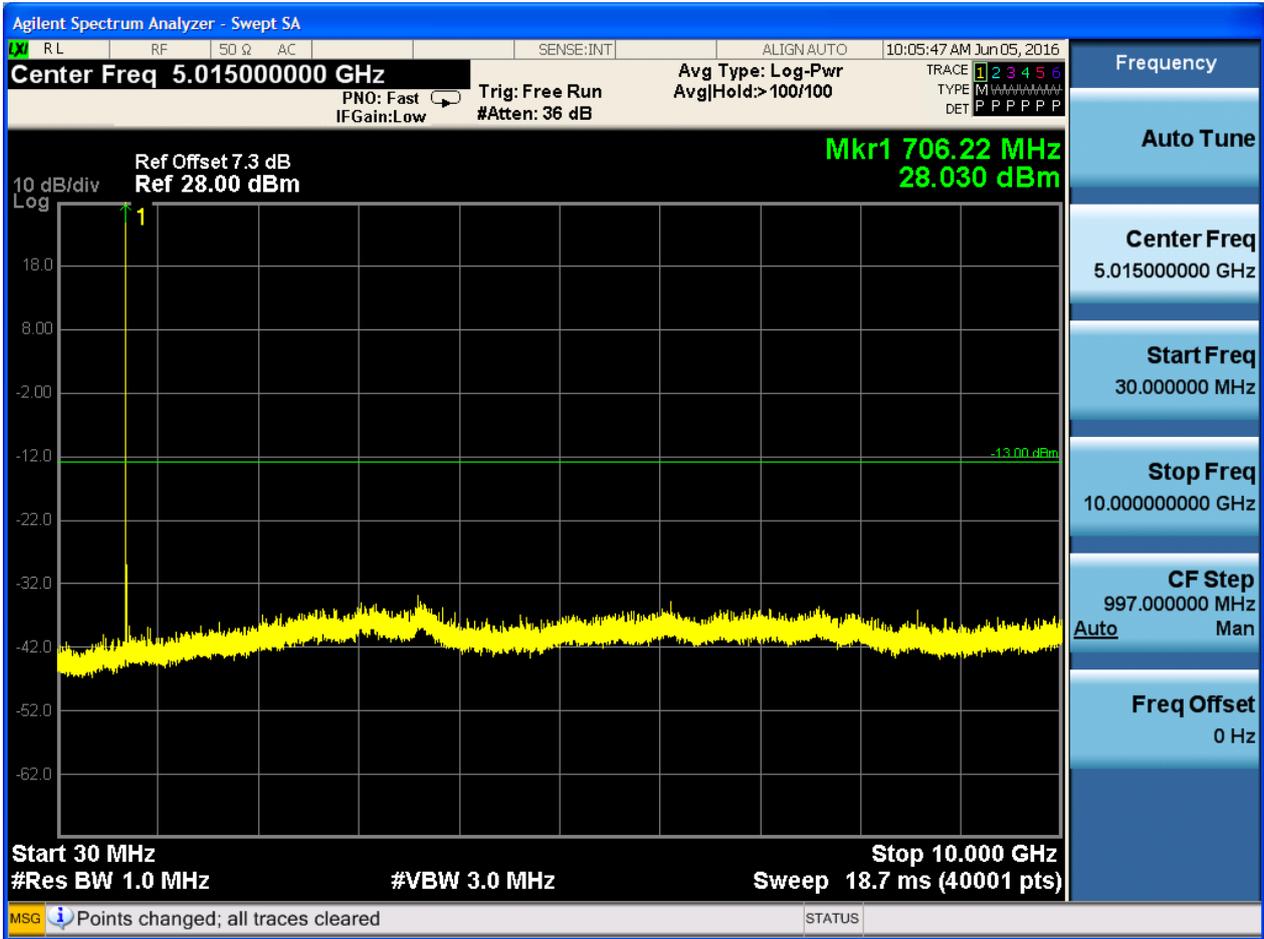


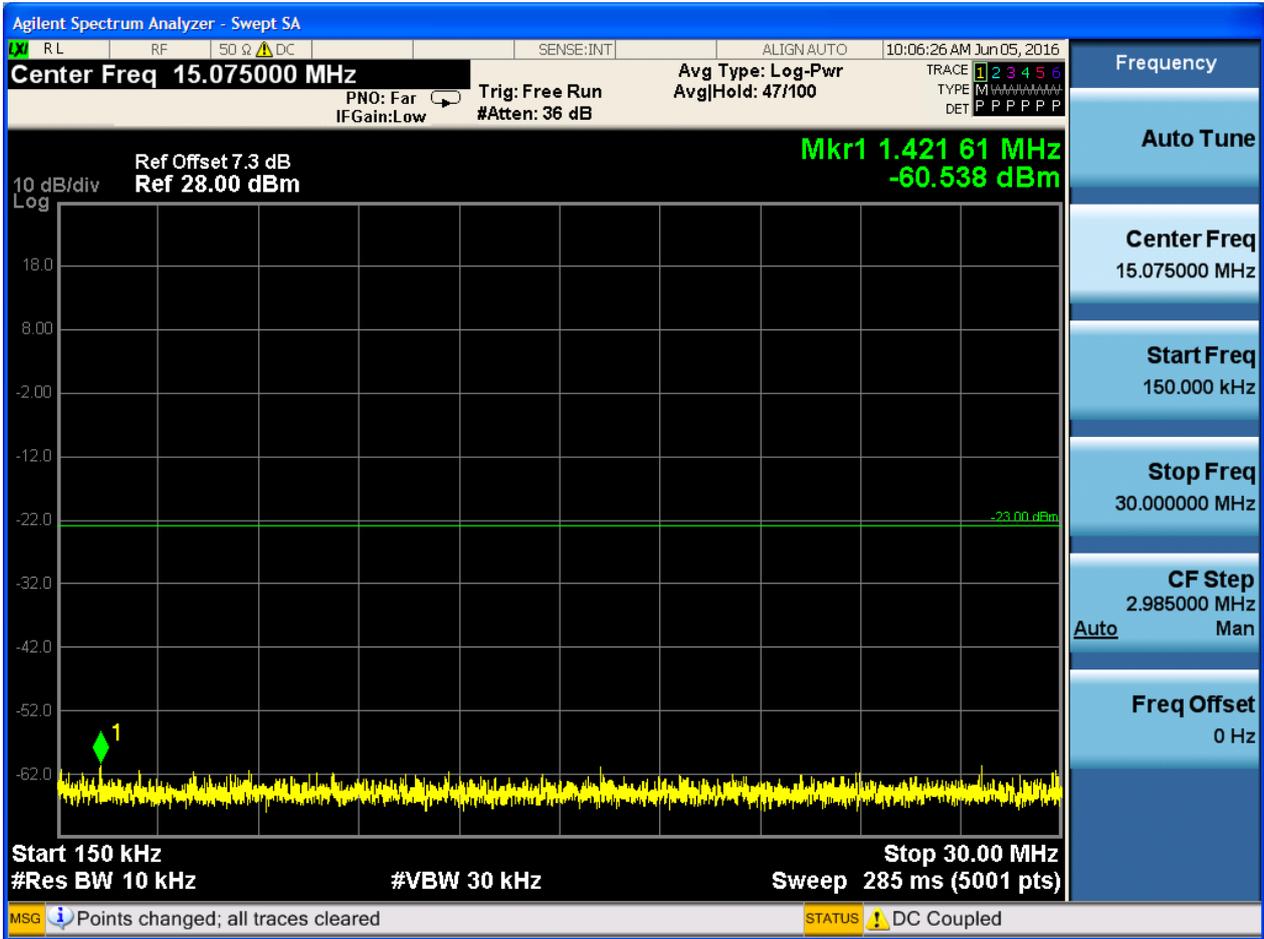
6.1.1.1.2.2 Test Channel = MCH

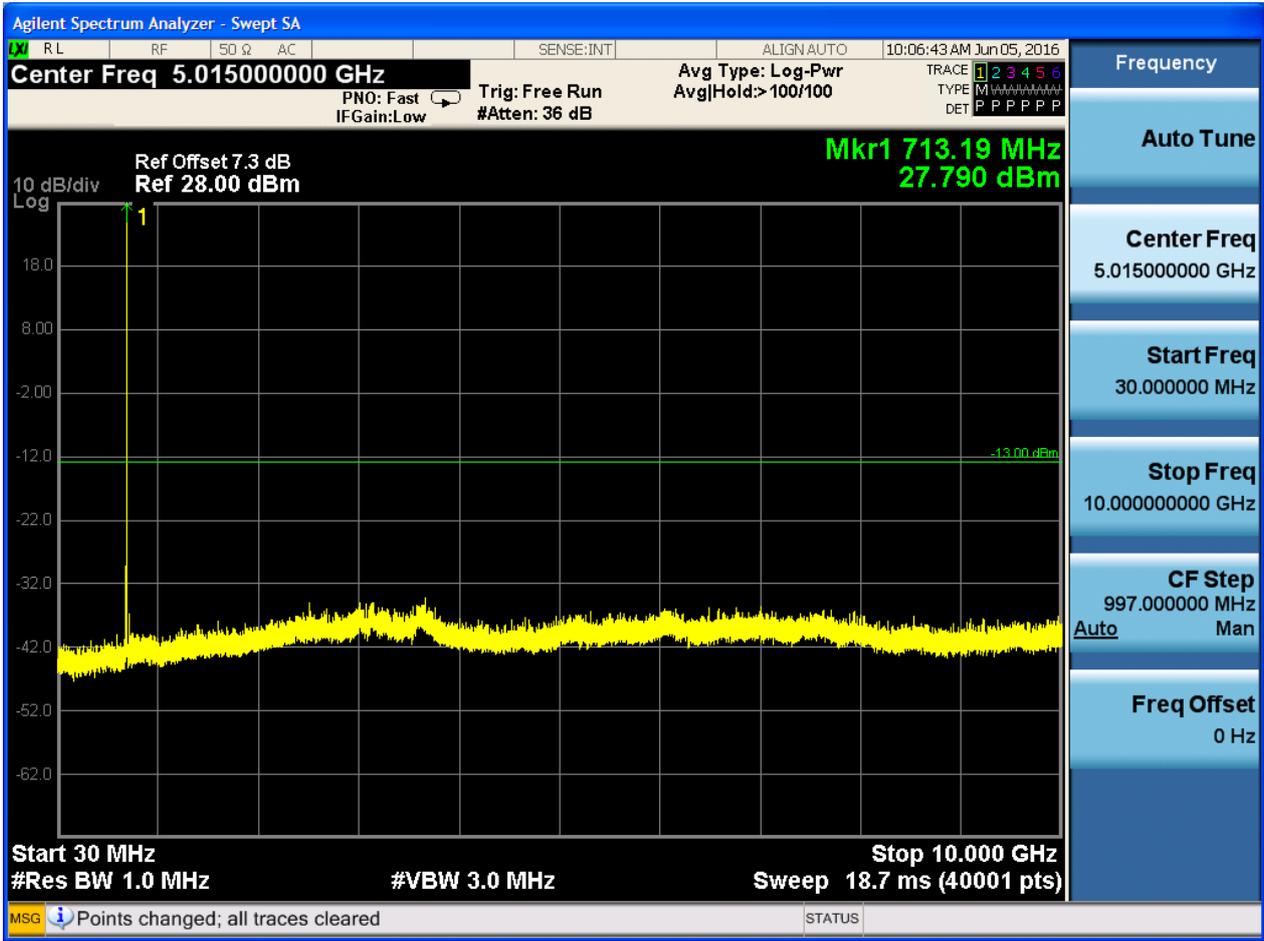
6.1.1.1.2.2.1 Test RB = RB1#0









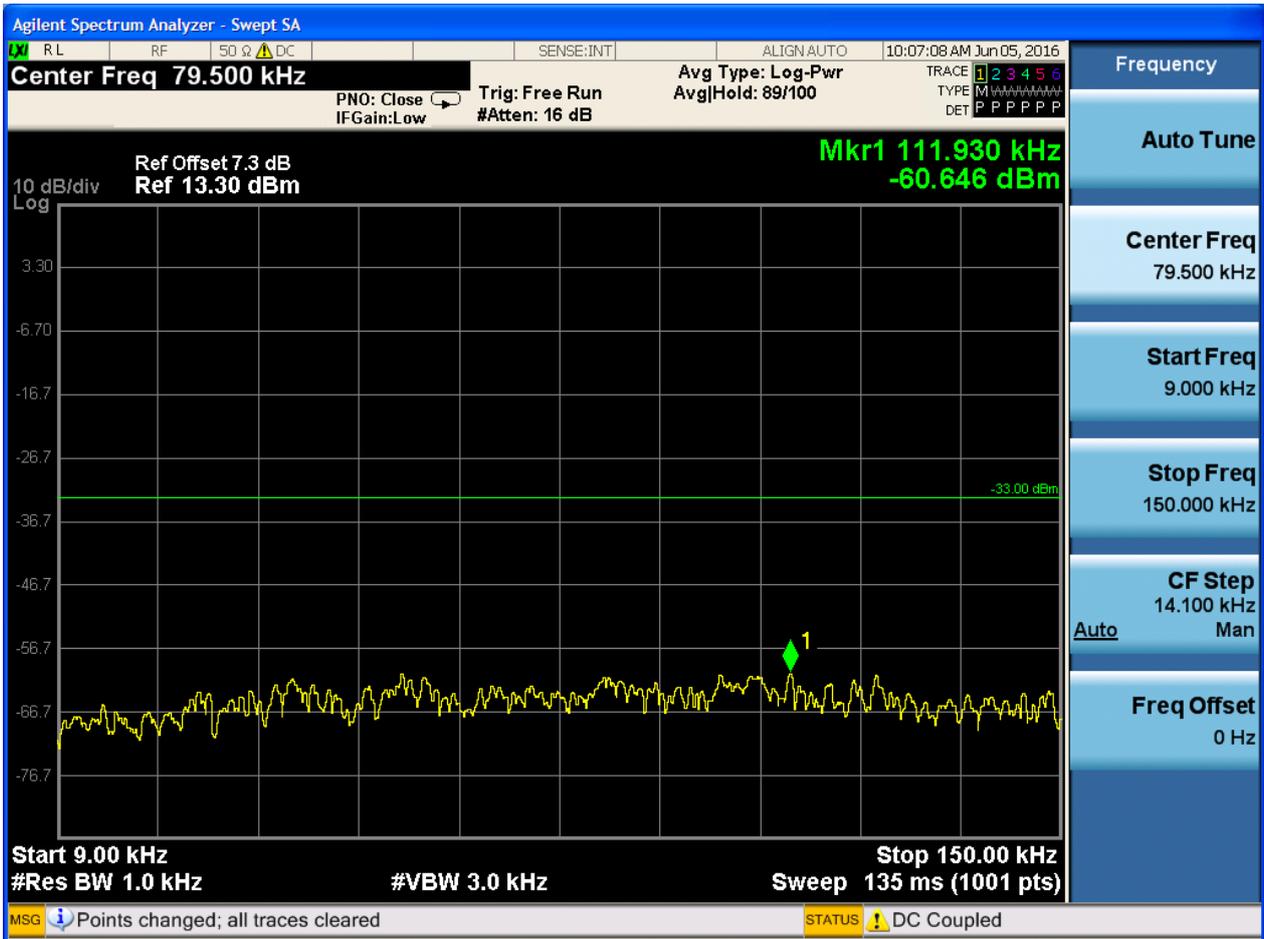


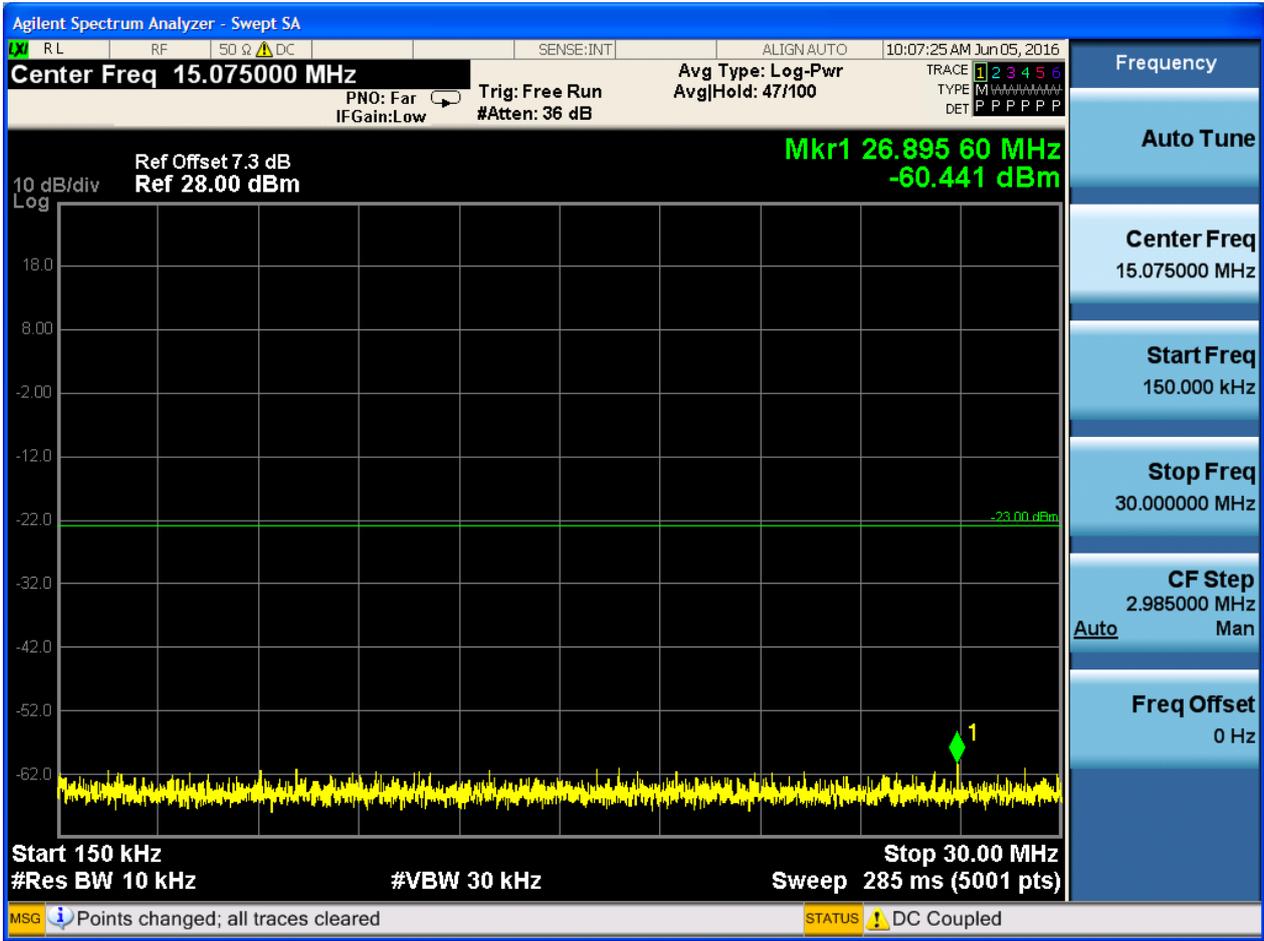


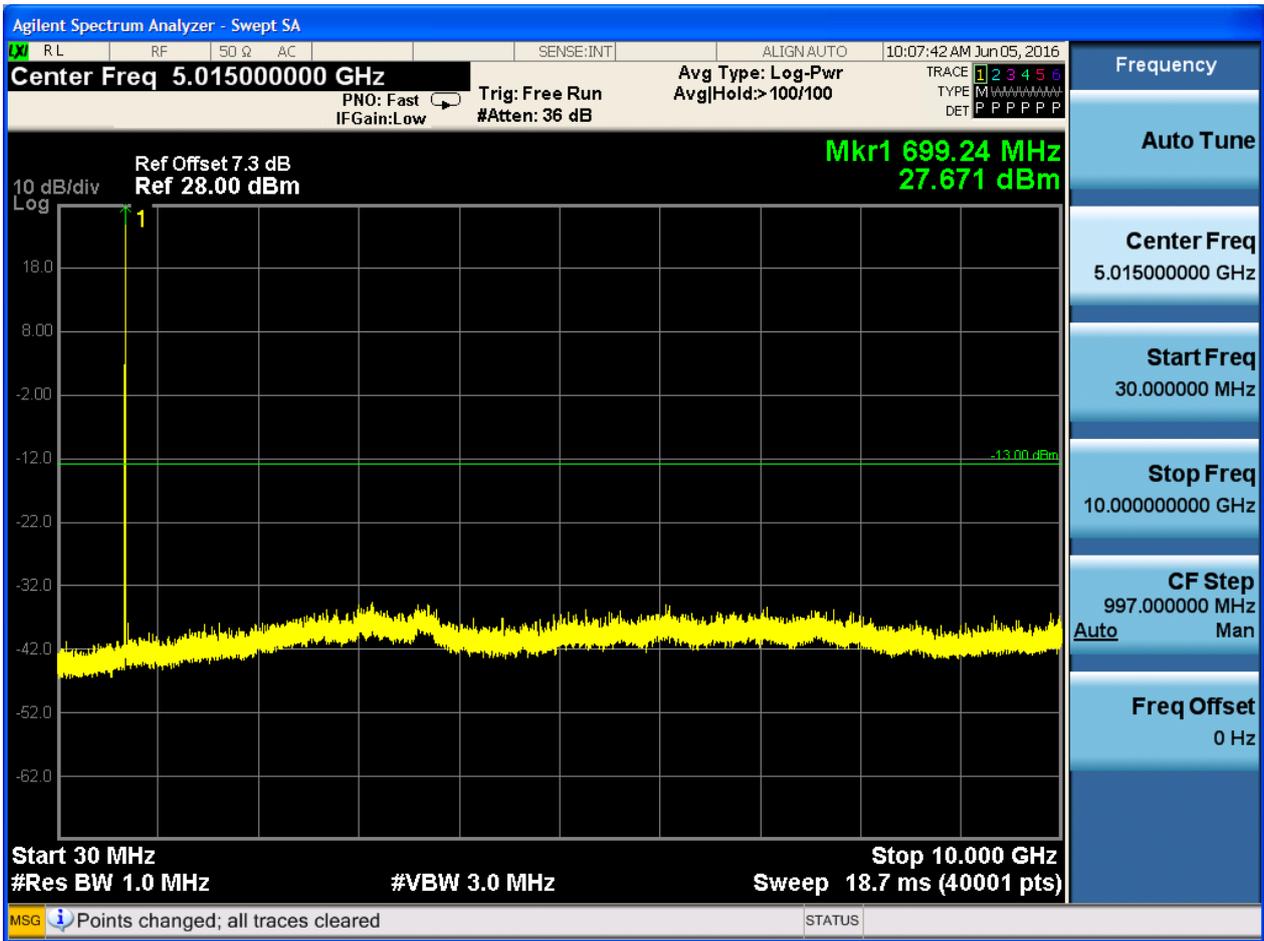
6.1.1.1.3 Test Bandwidth = 5

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0



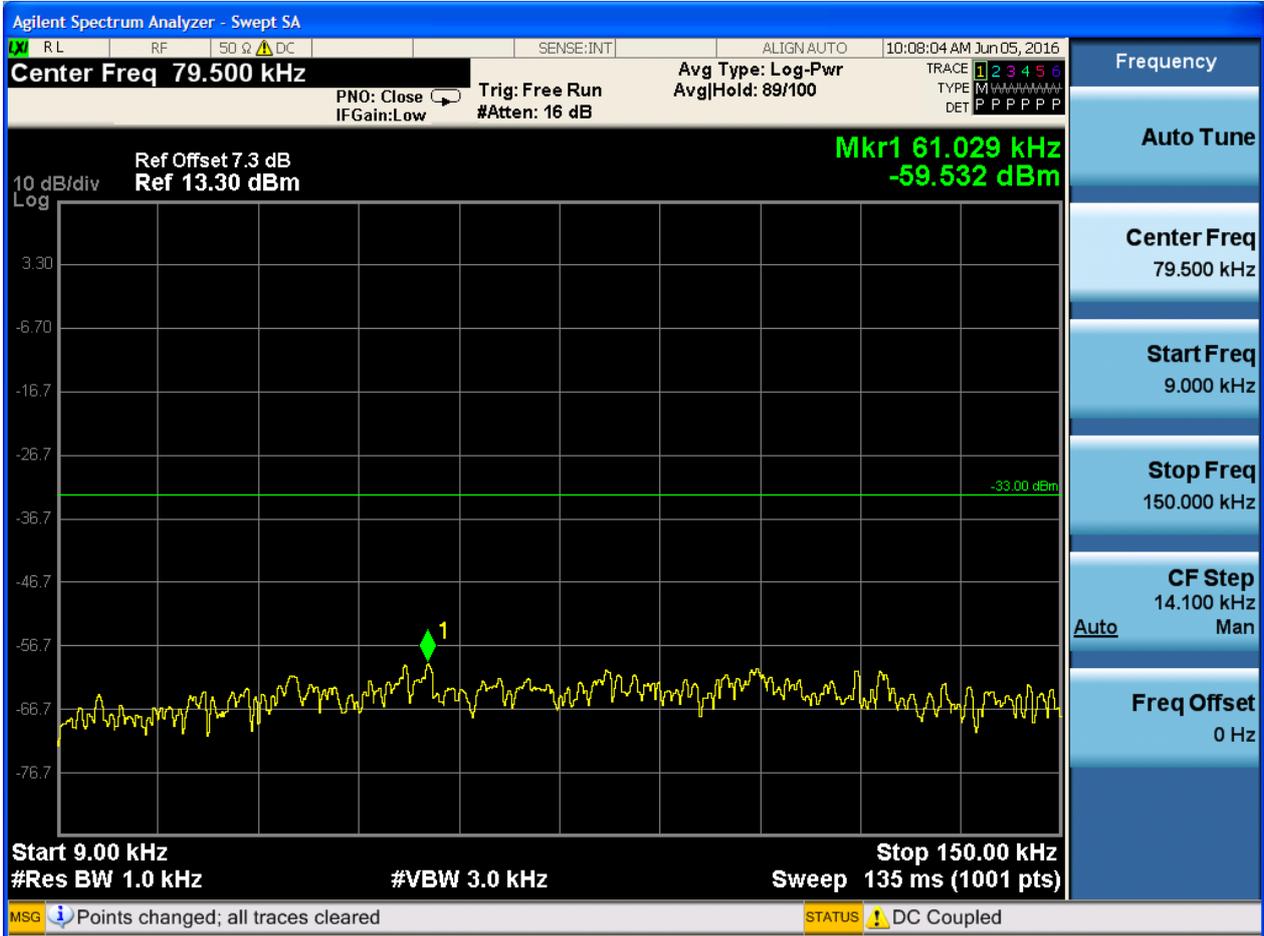


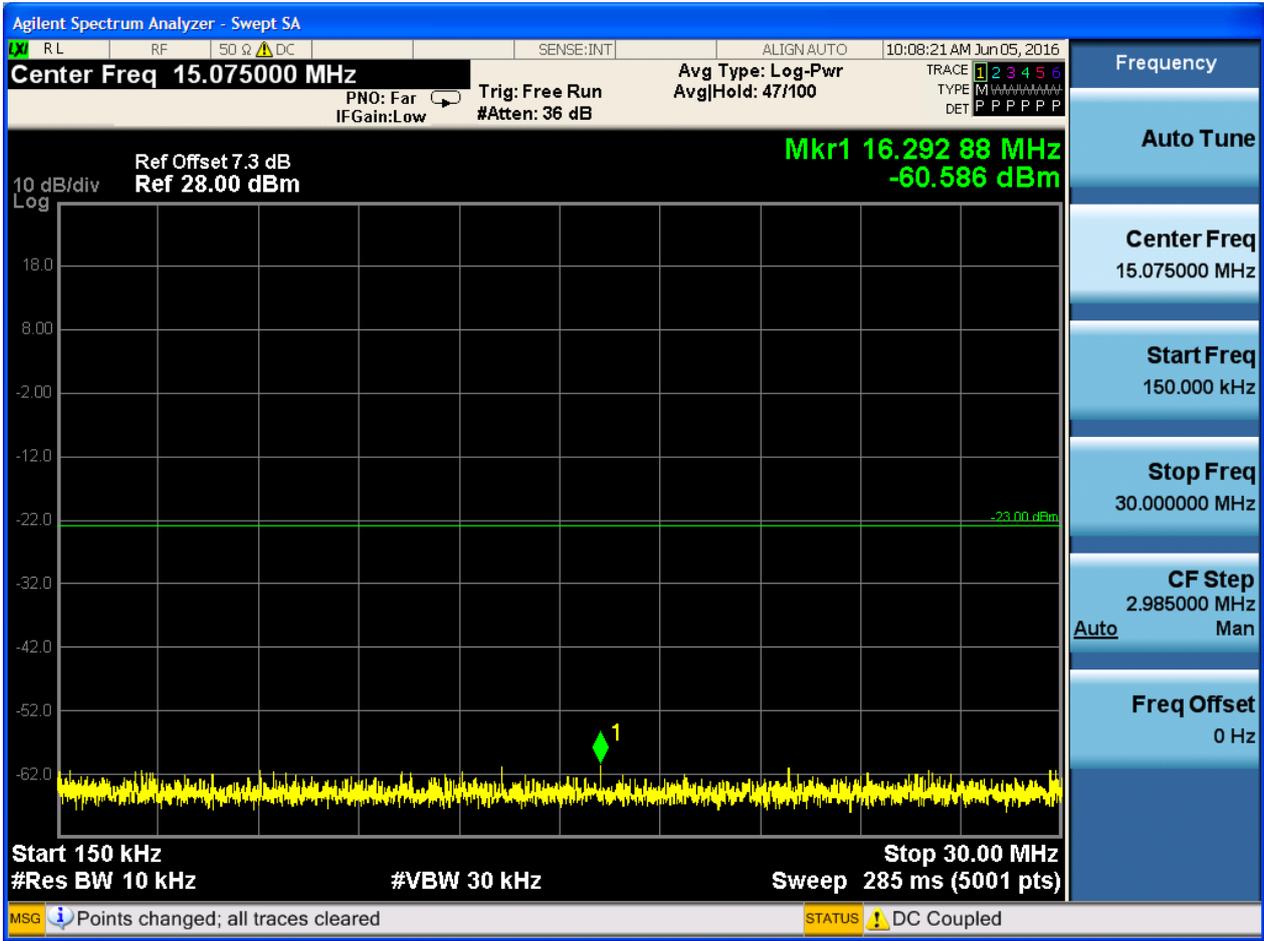


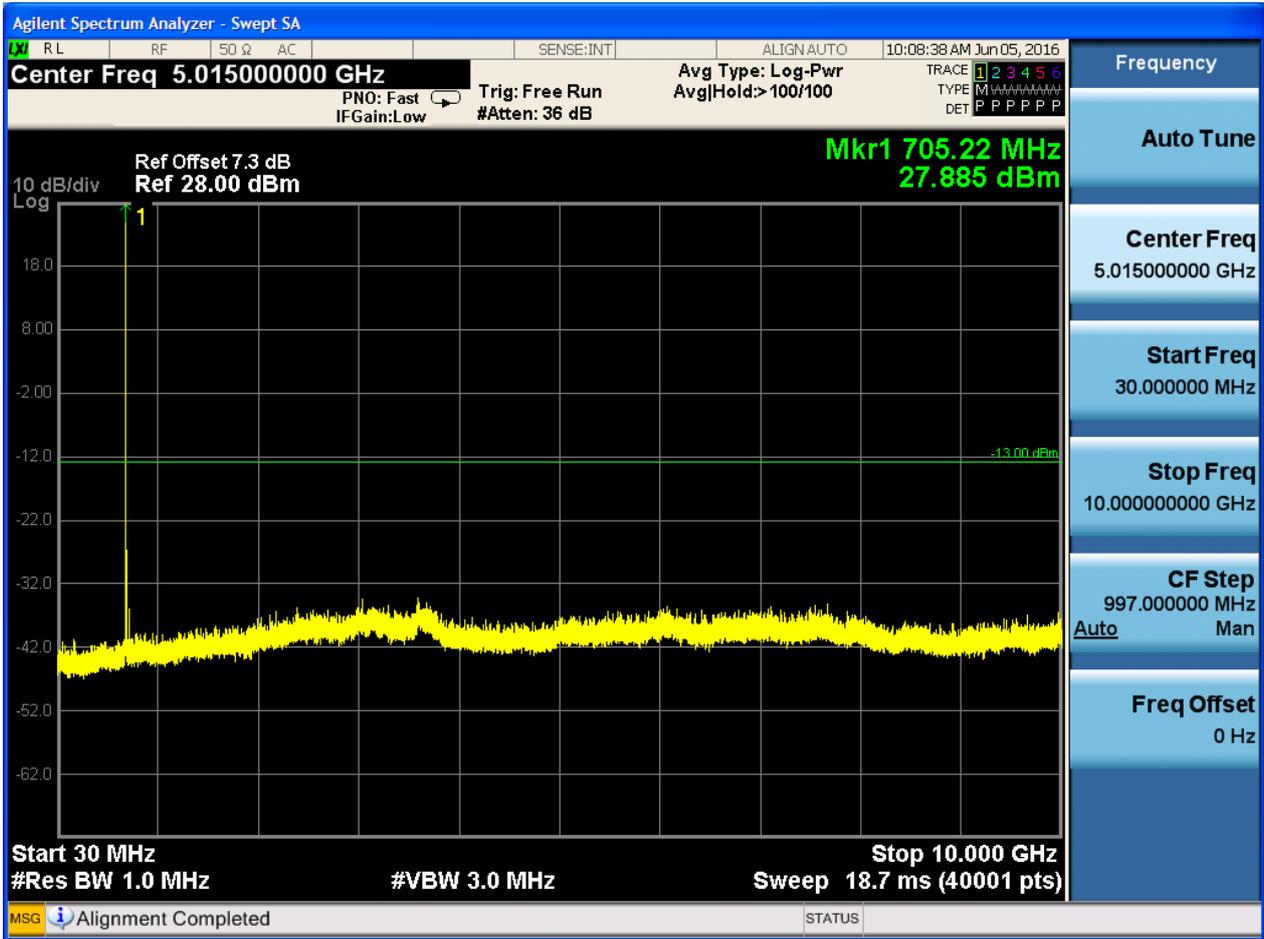


6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0



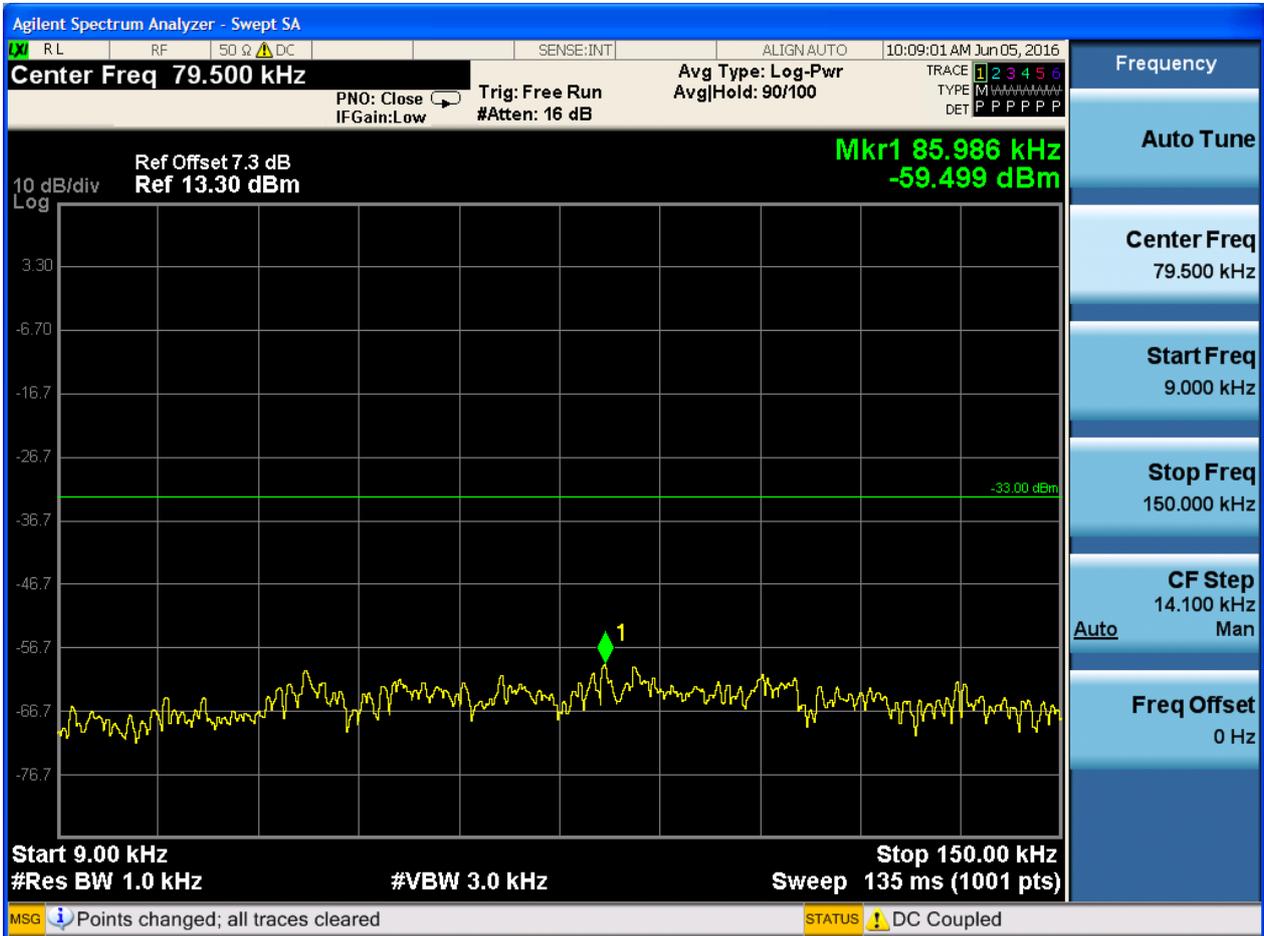


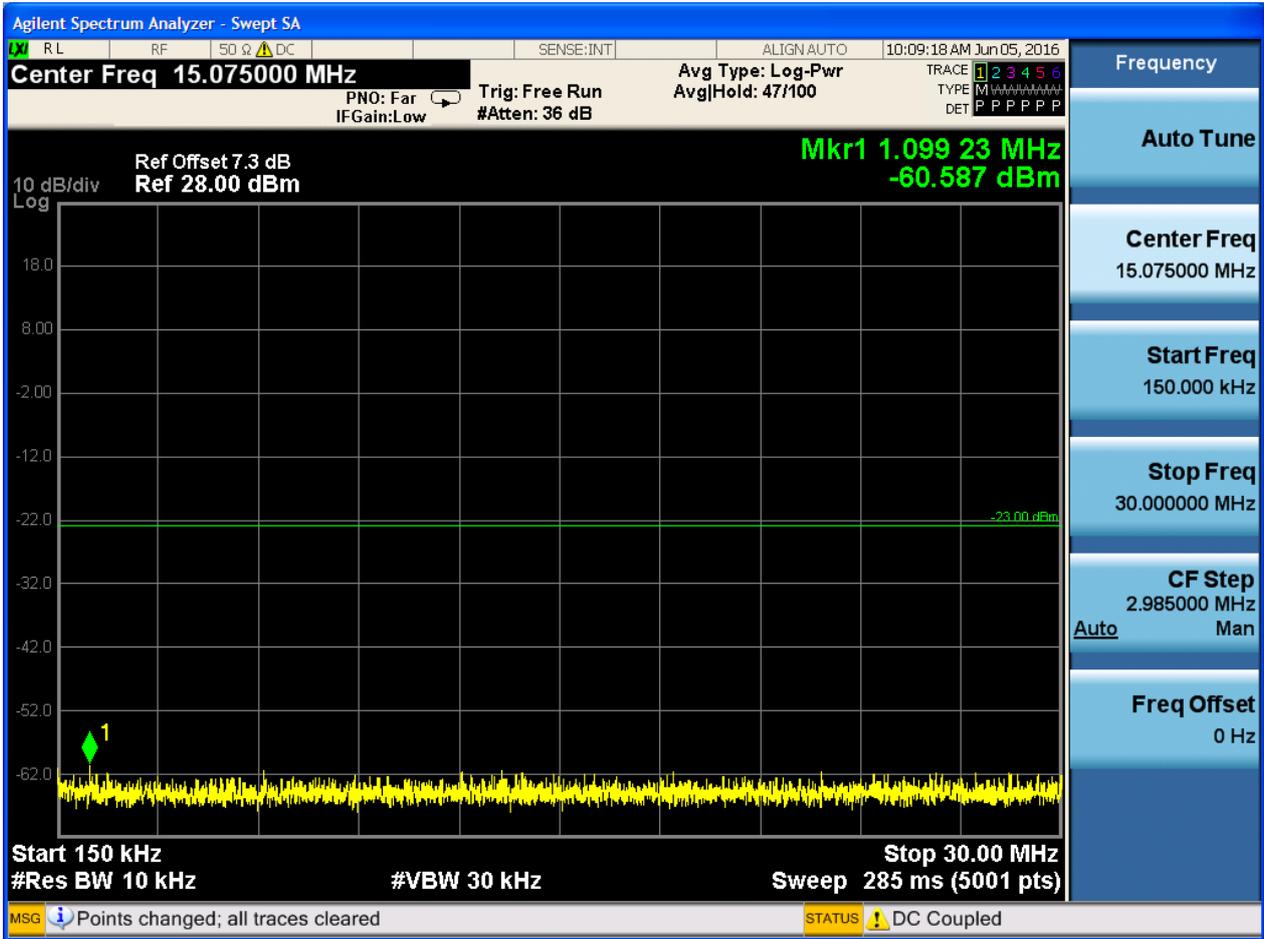


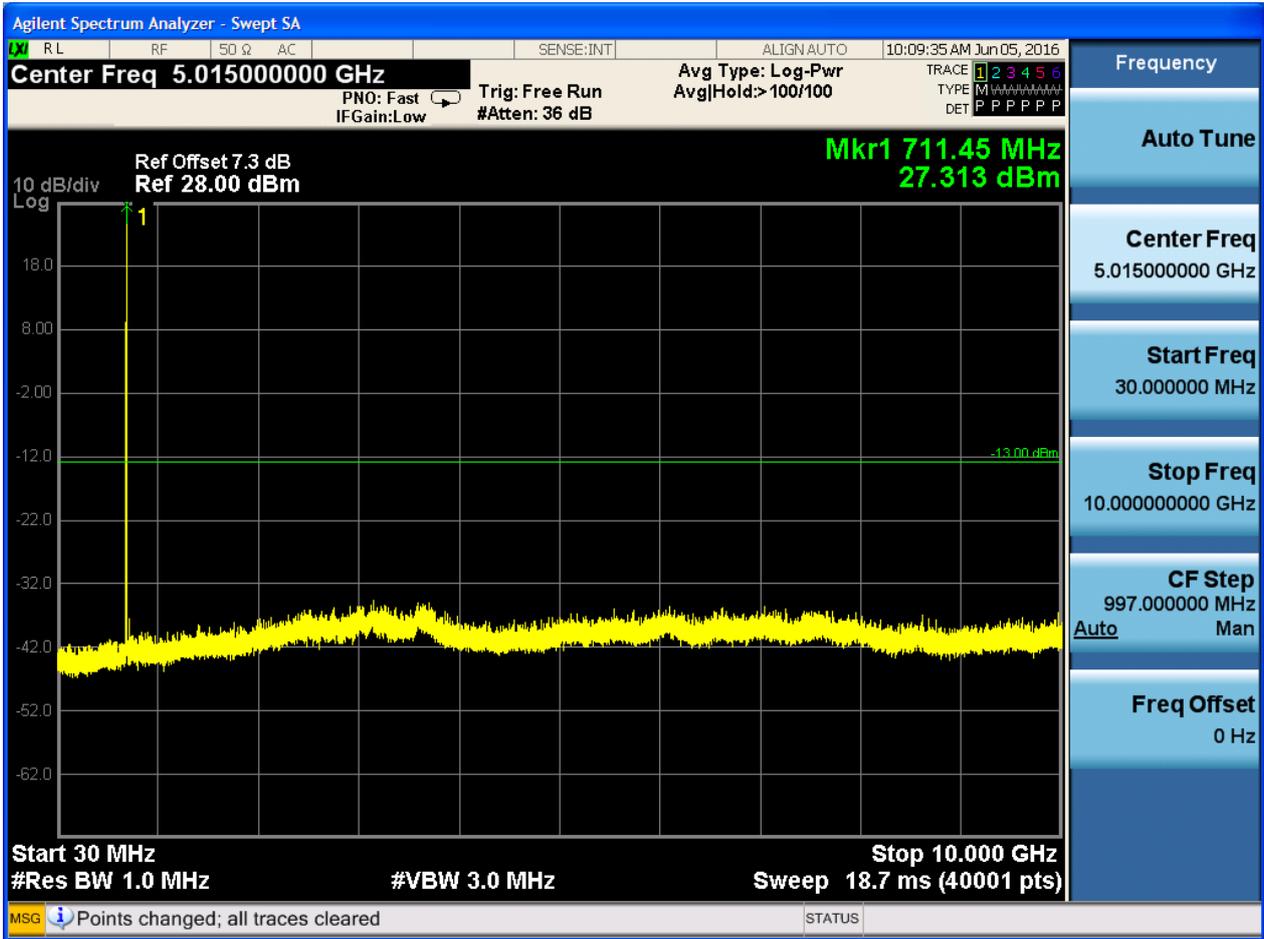


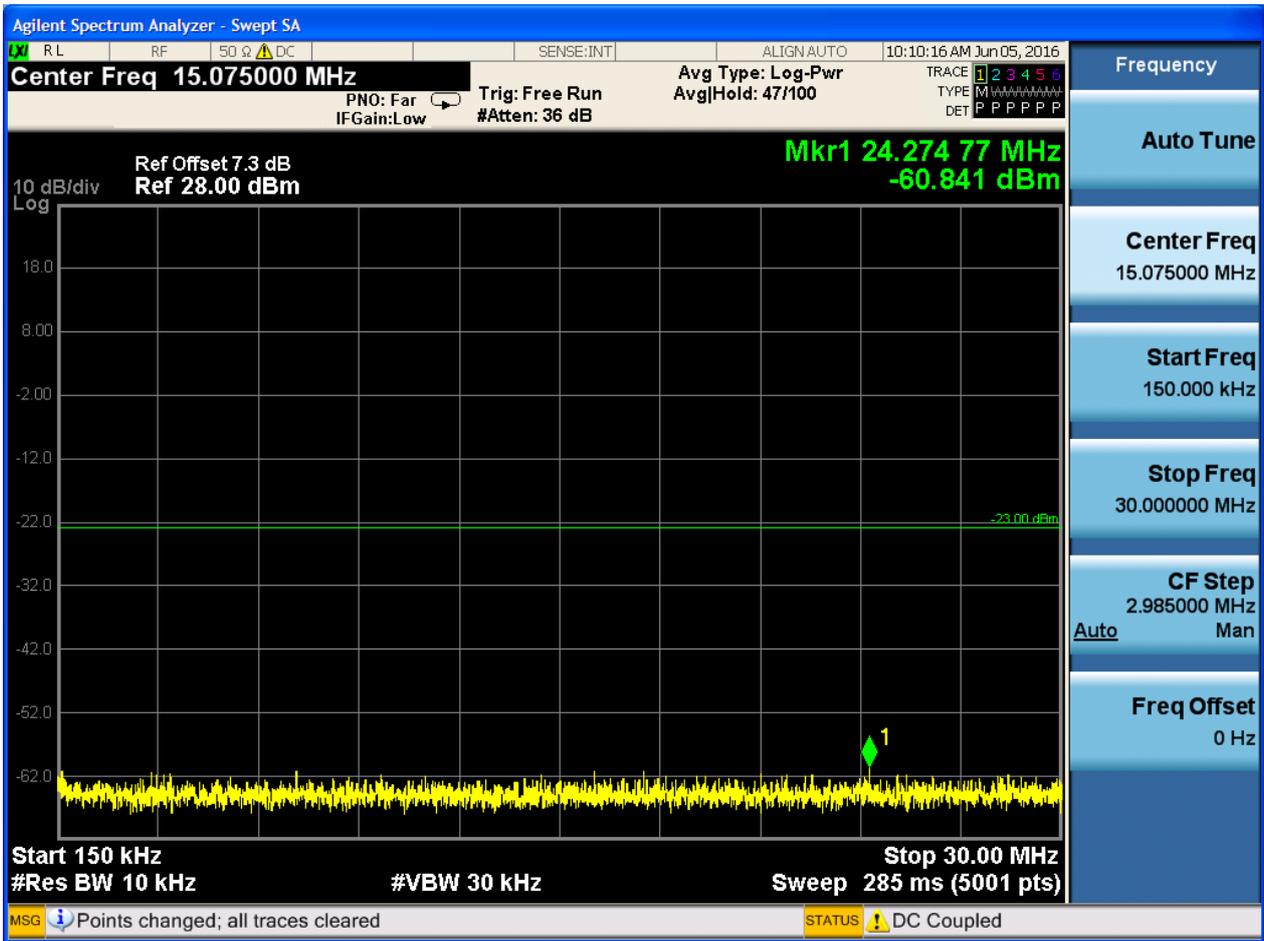
6.1.1.1.3.3 Test Channel = HCH

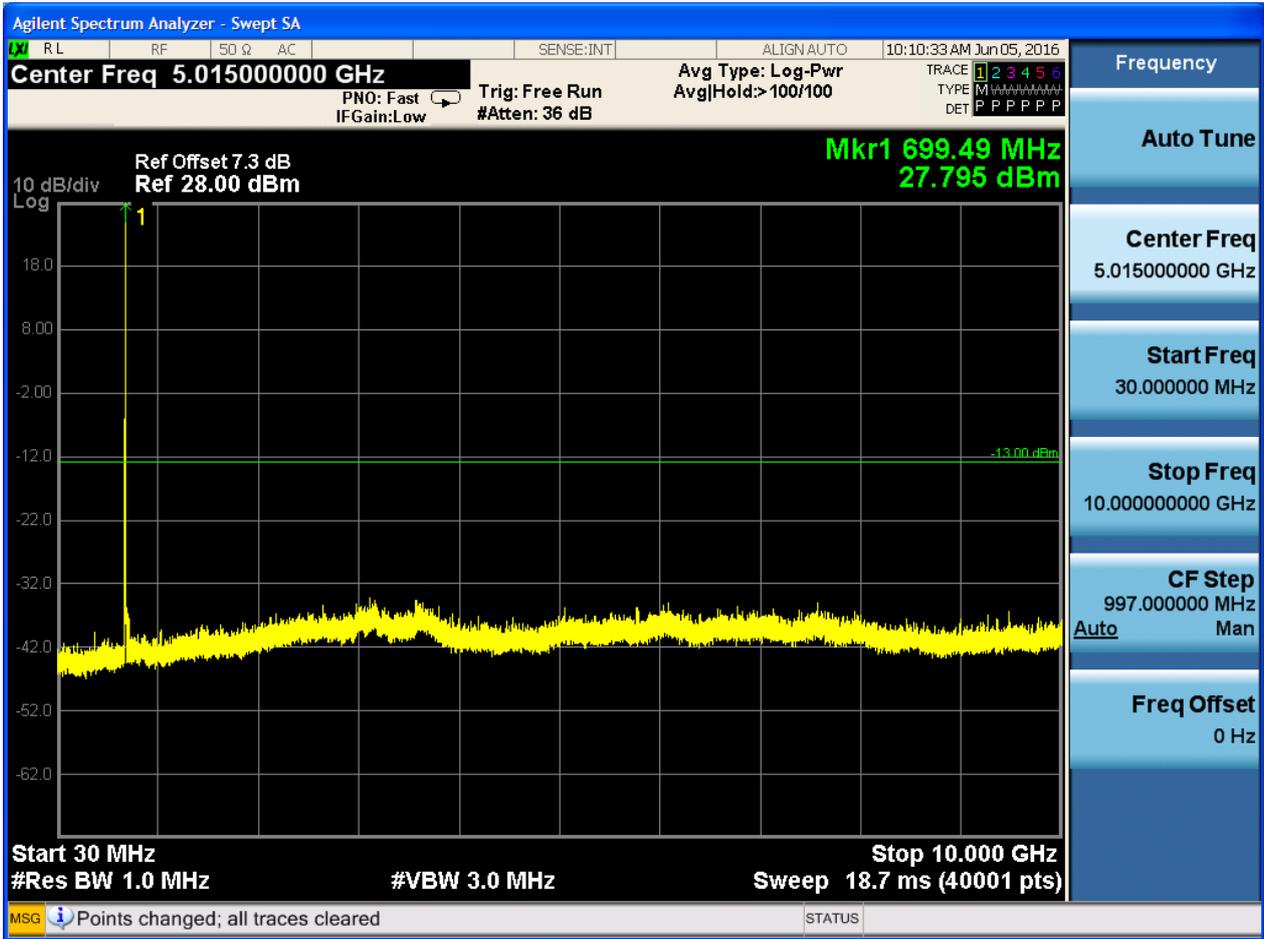
6.1.1.1.3.3.1 Test RB = RB1#0







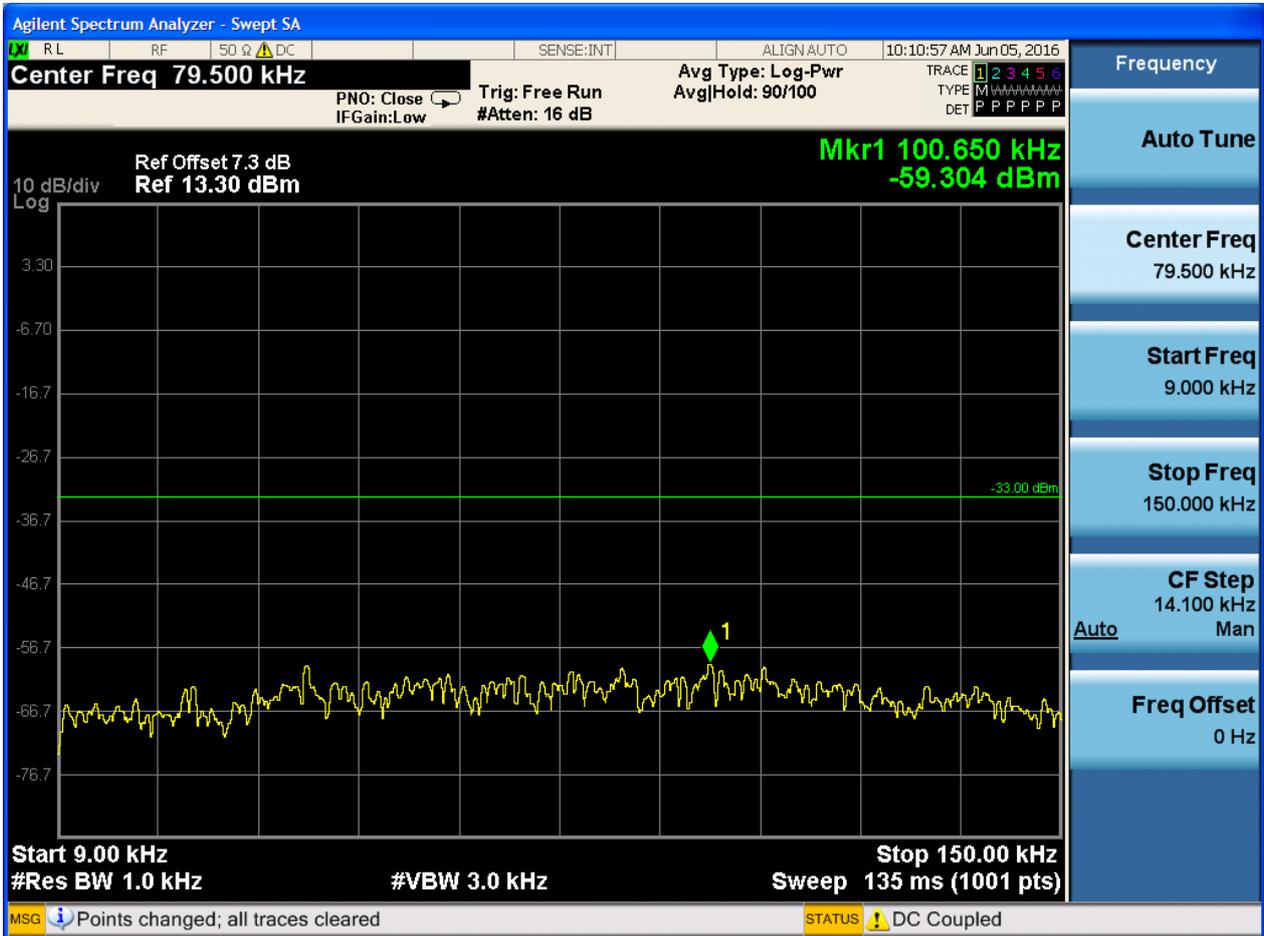


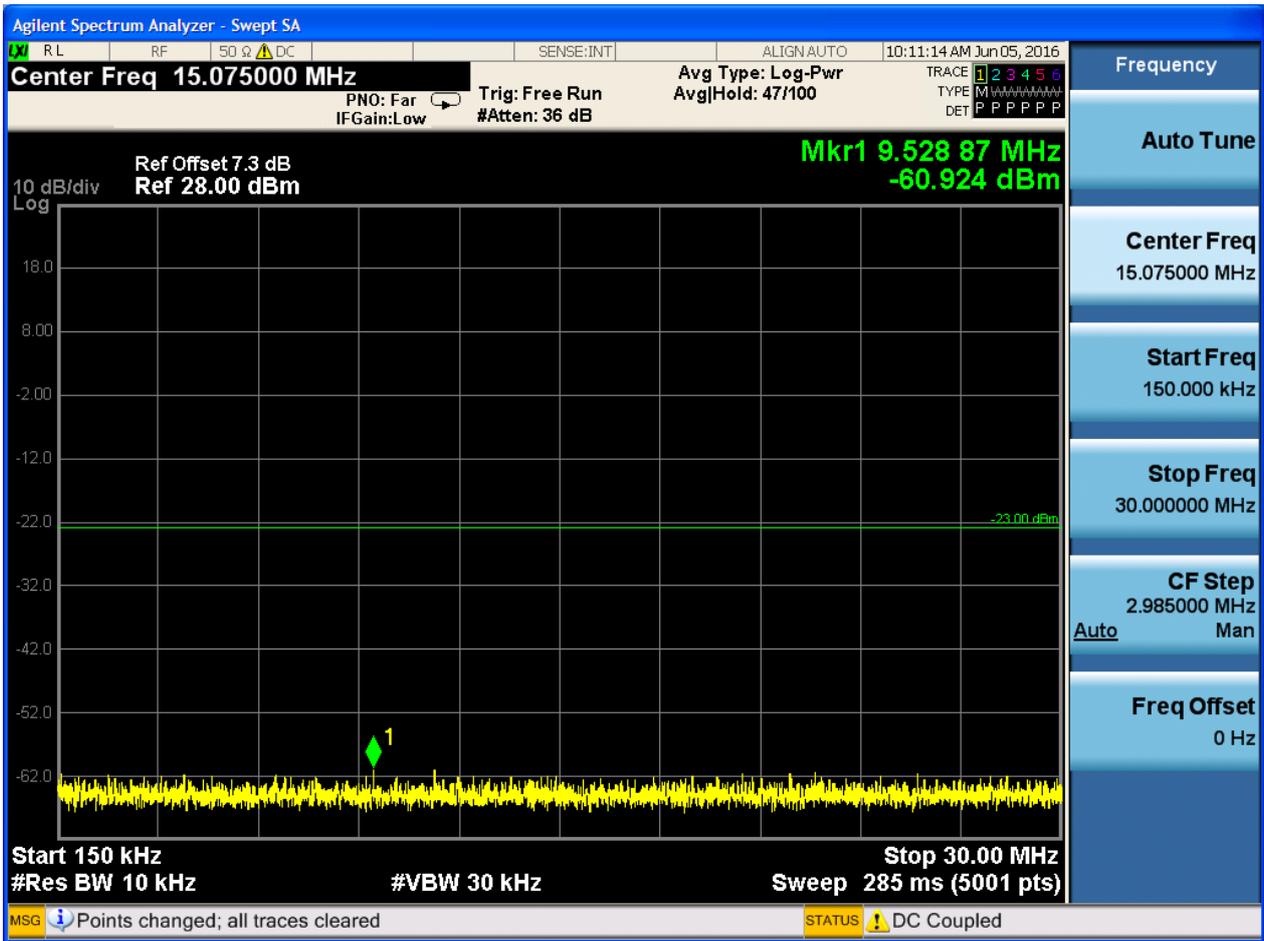


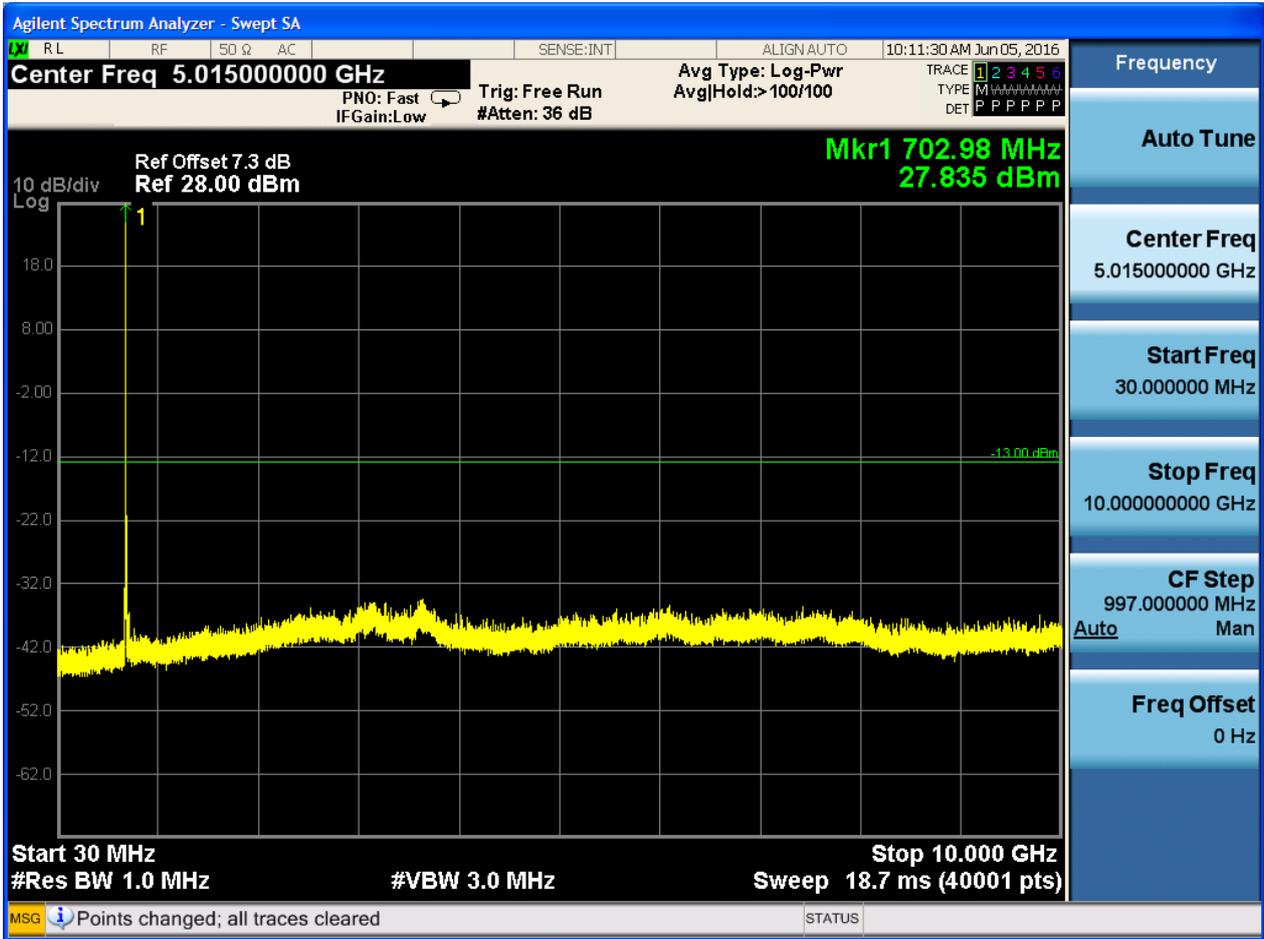


6.1.1.1.4.2 Test Channel = MCH

6.1.1.1.4.2.1 Test RB = RB1#0



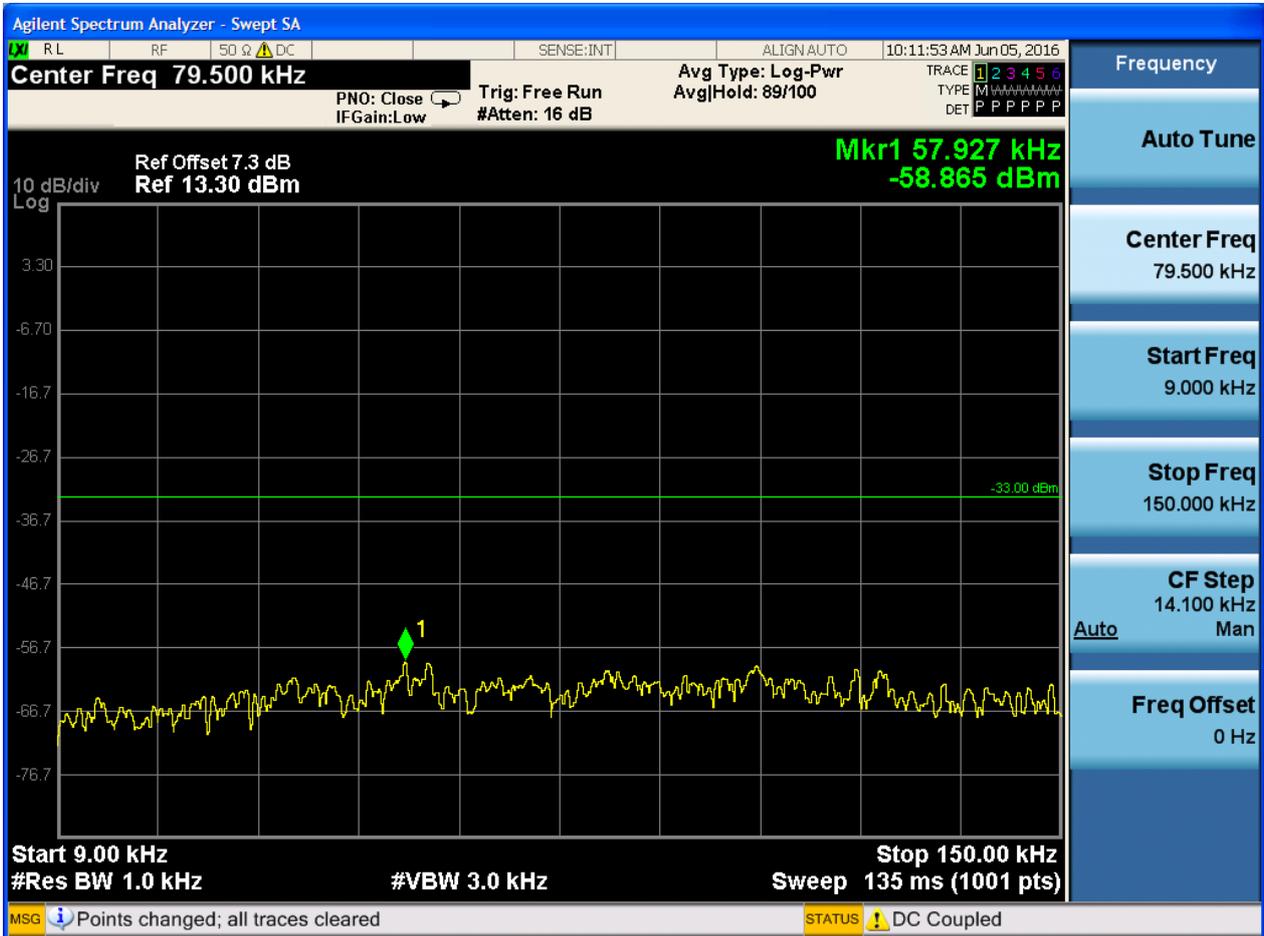


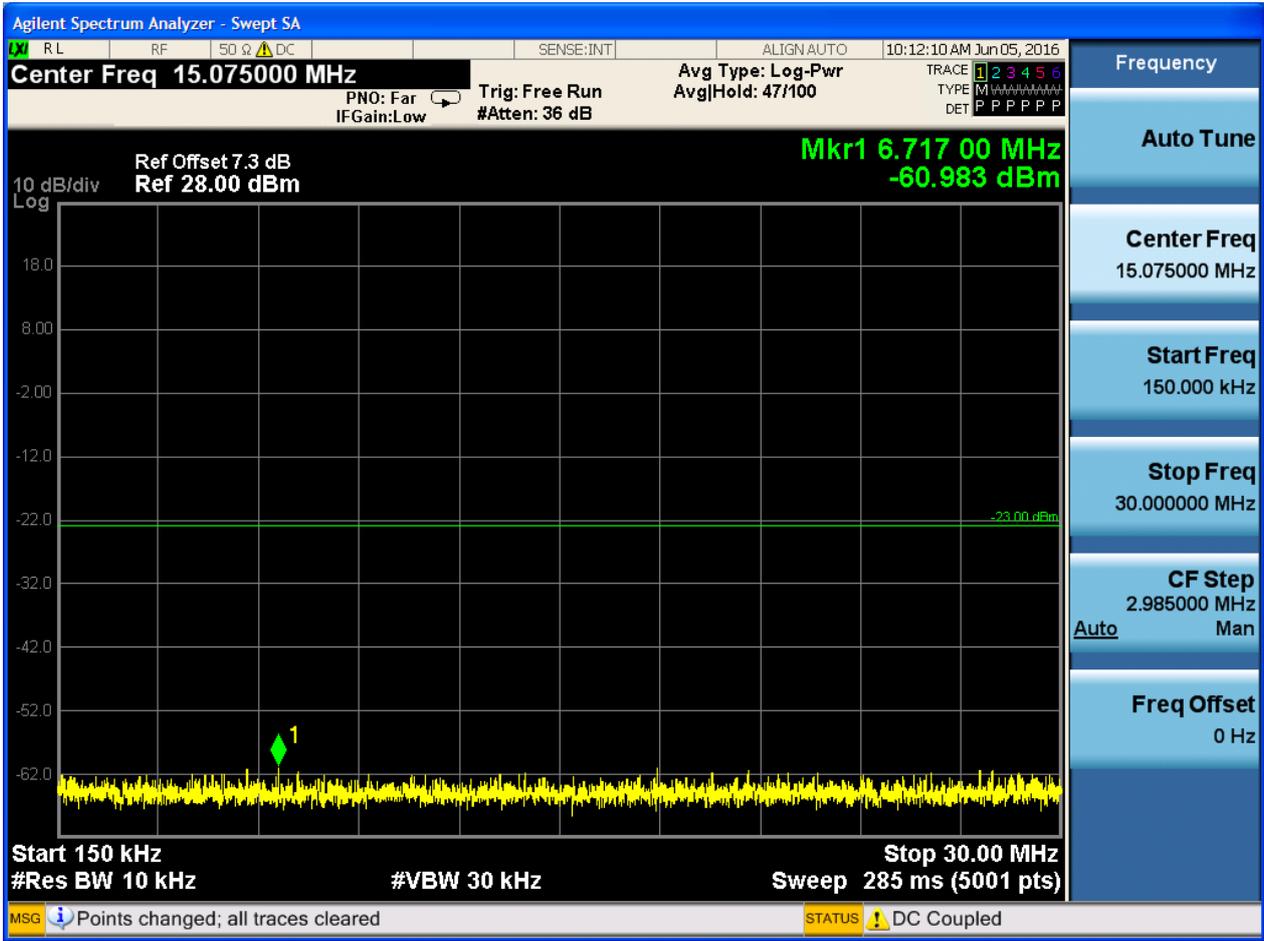


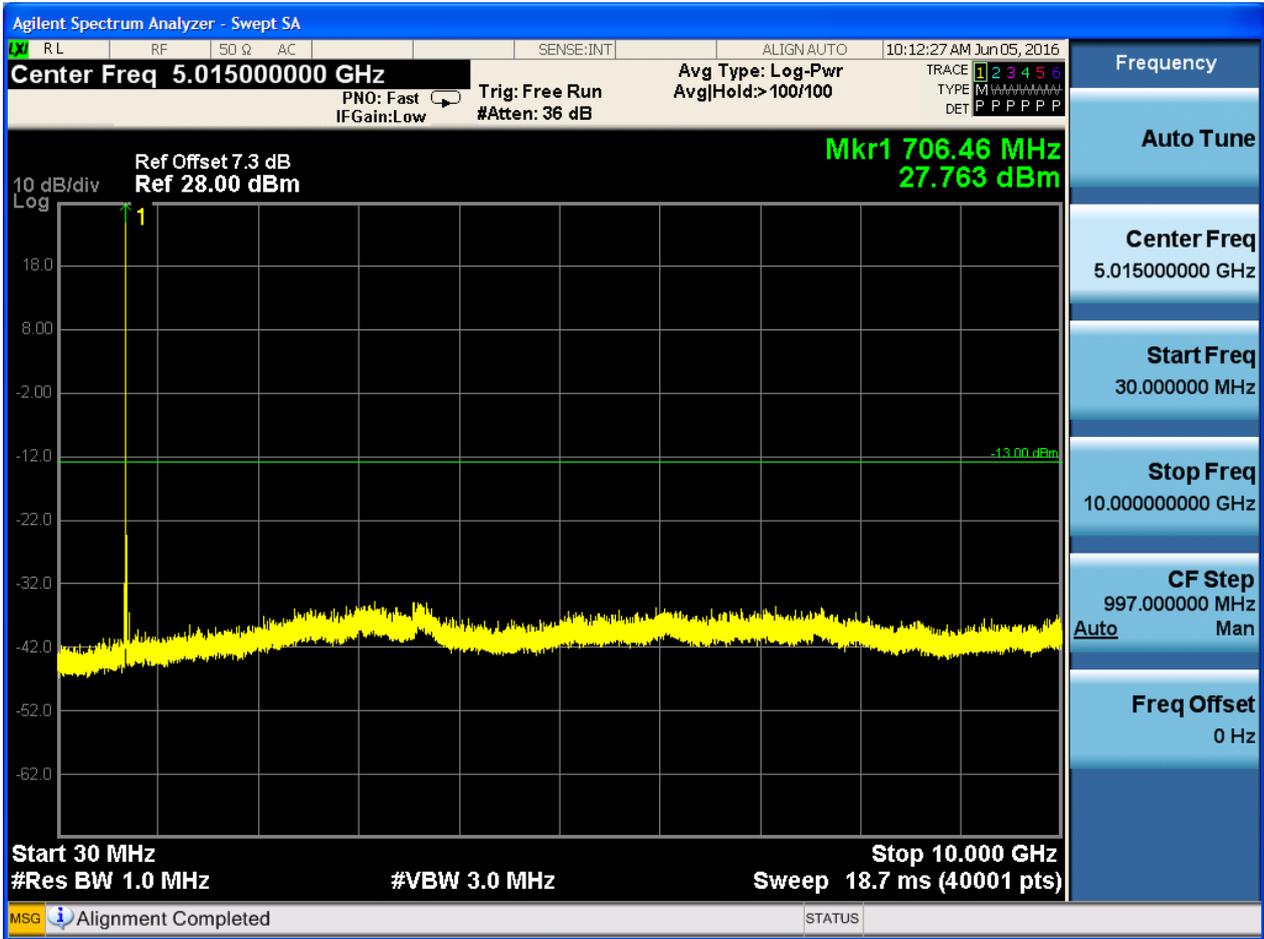


6.1.1.1.4.3 Test Channel = HCH

6.1.1.1.4.3.1 Test RB = RB1#0







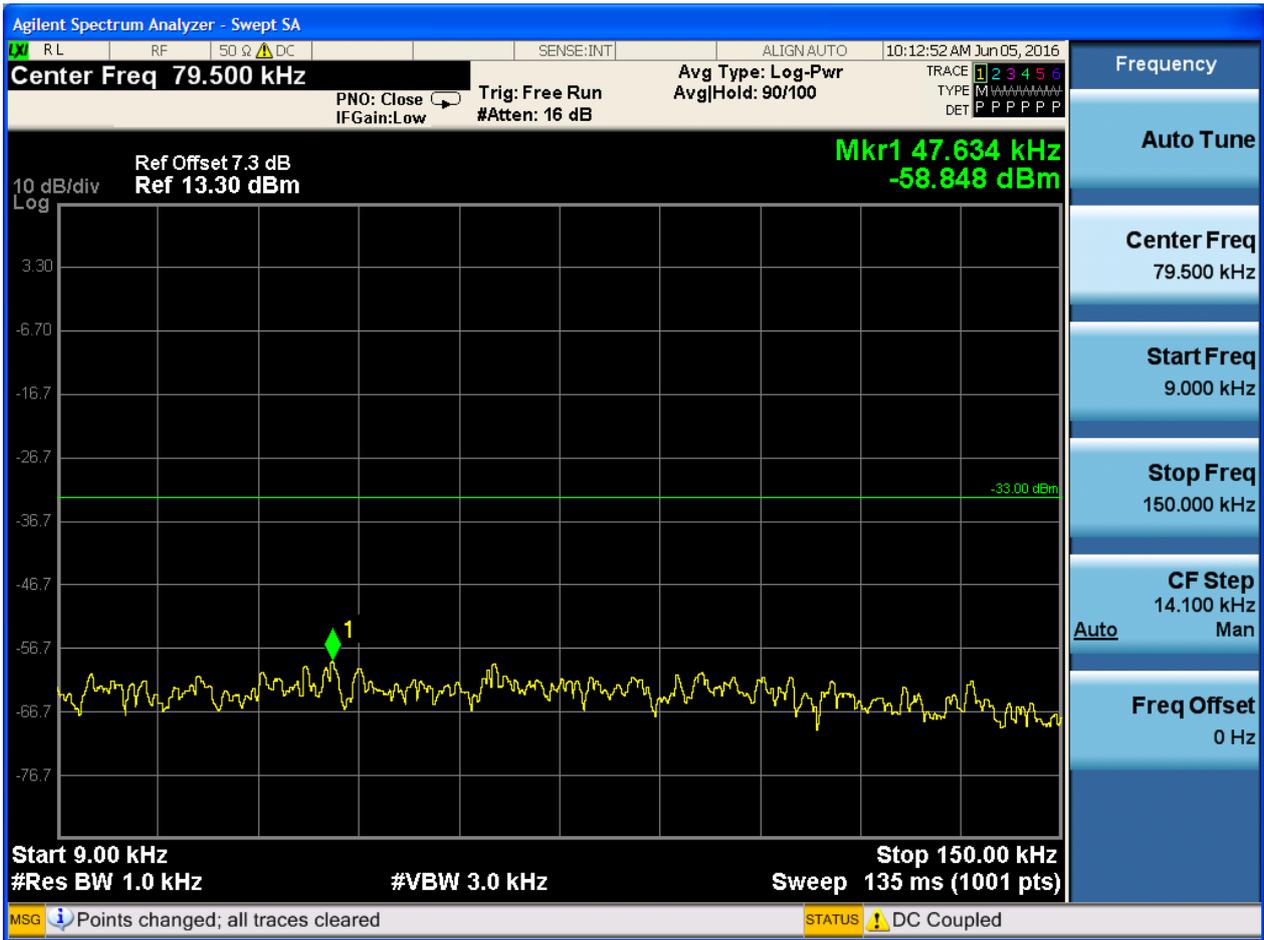


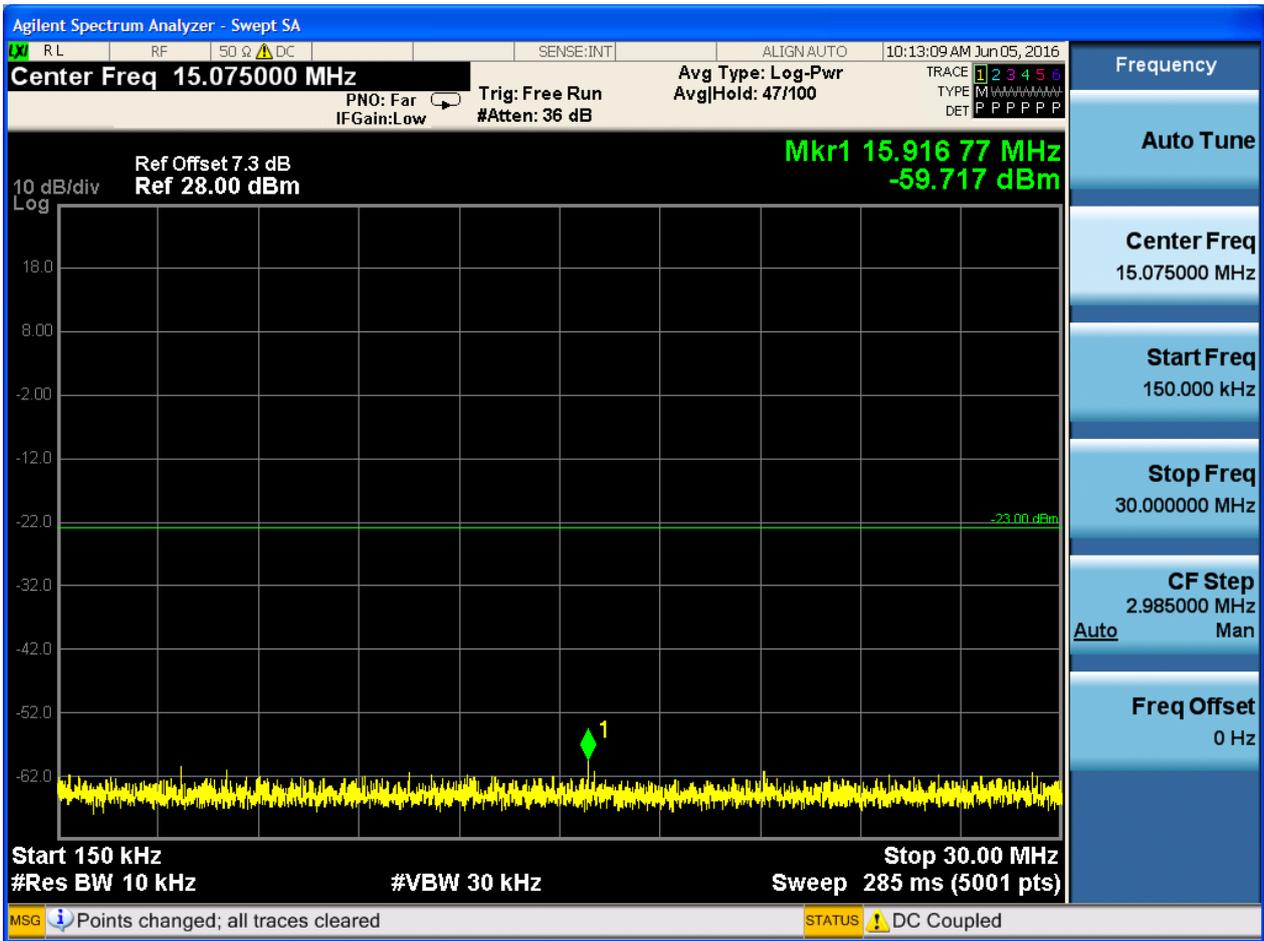
6.1.1.2 Test Mode = LTE/TM2

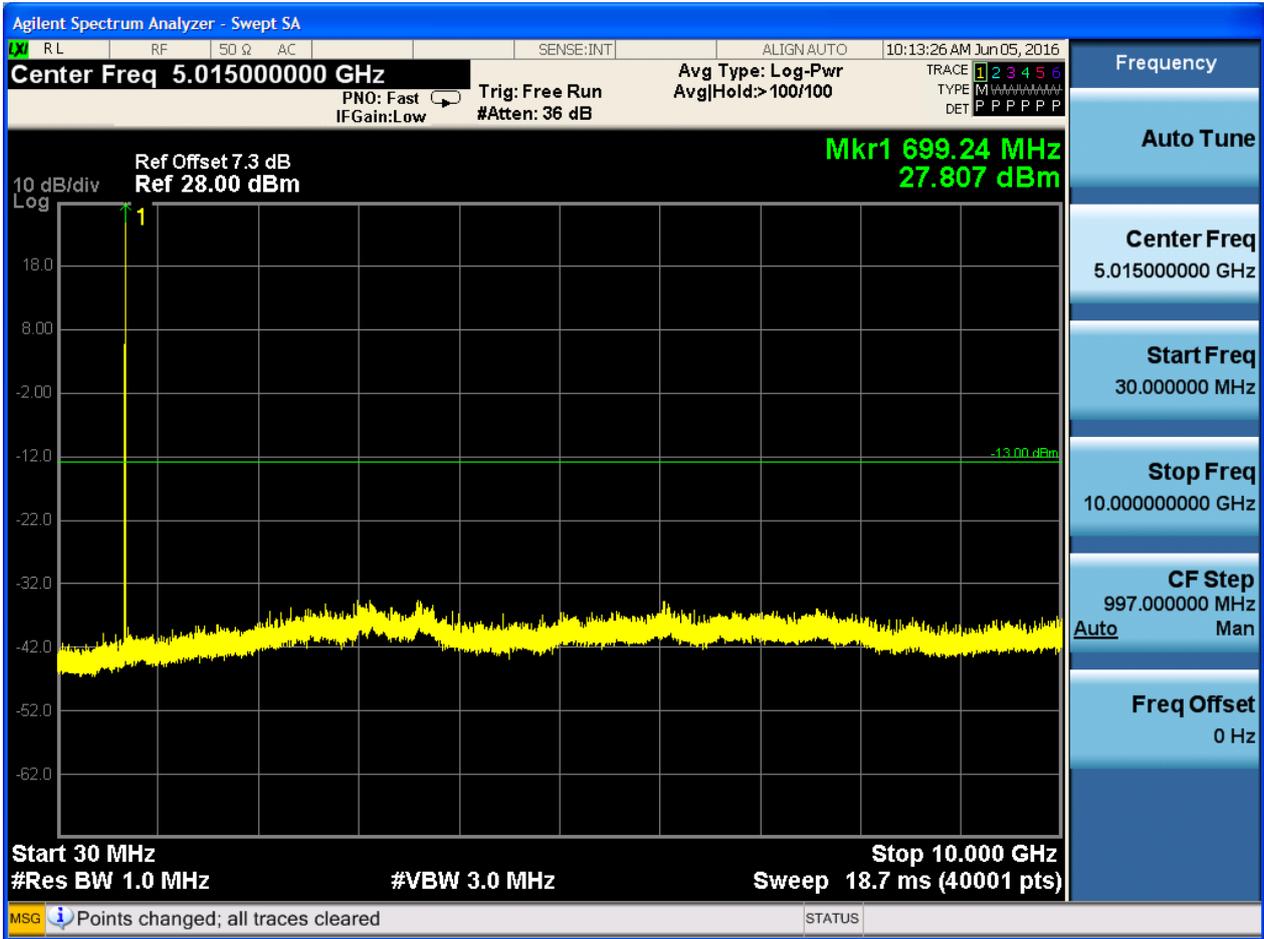
6.1.1.2.1 Test Bandwidth = 1.4

6.1.1.2.1.1 Test Channel = LCH

6.1.1.2.1.1.1 Test RB = RB1#0



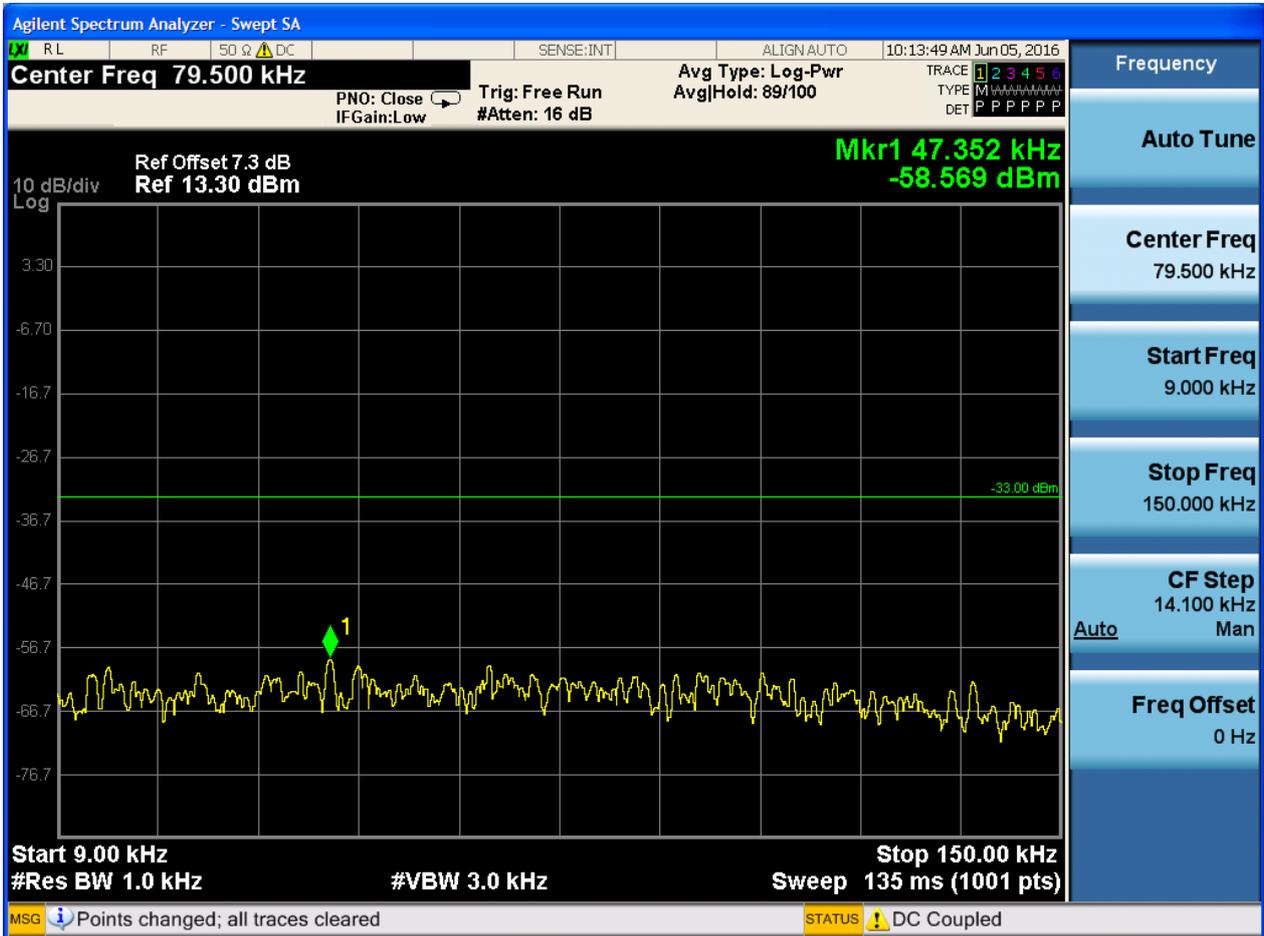


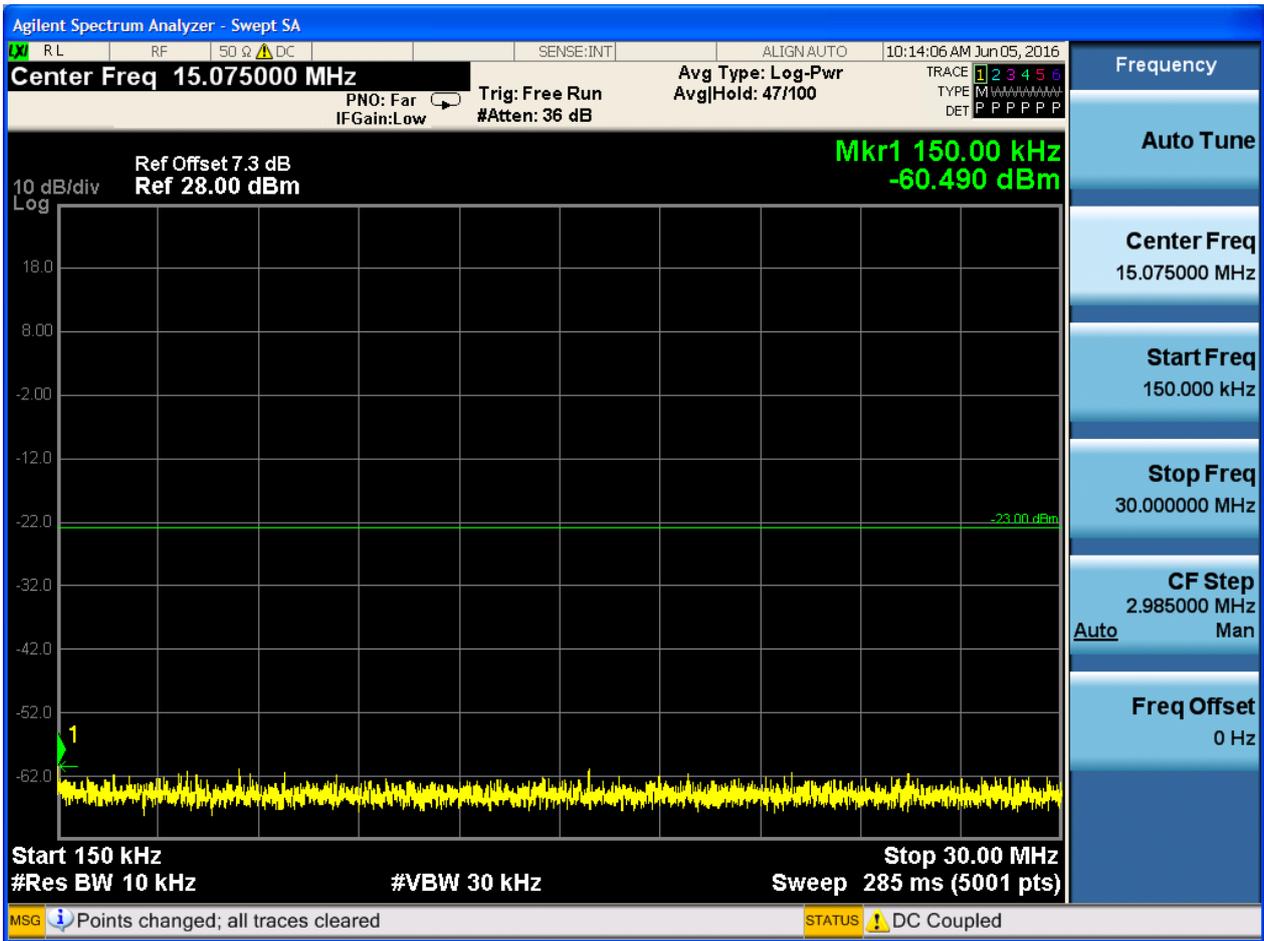


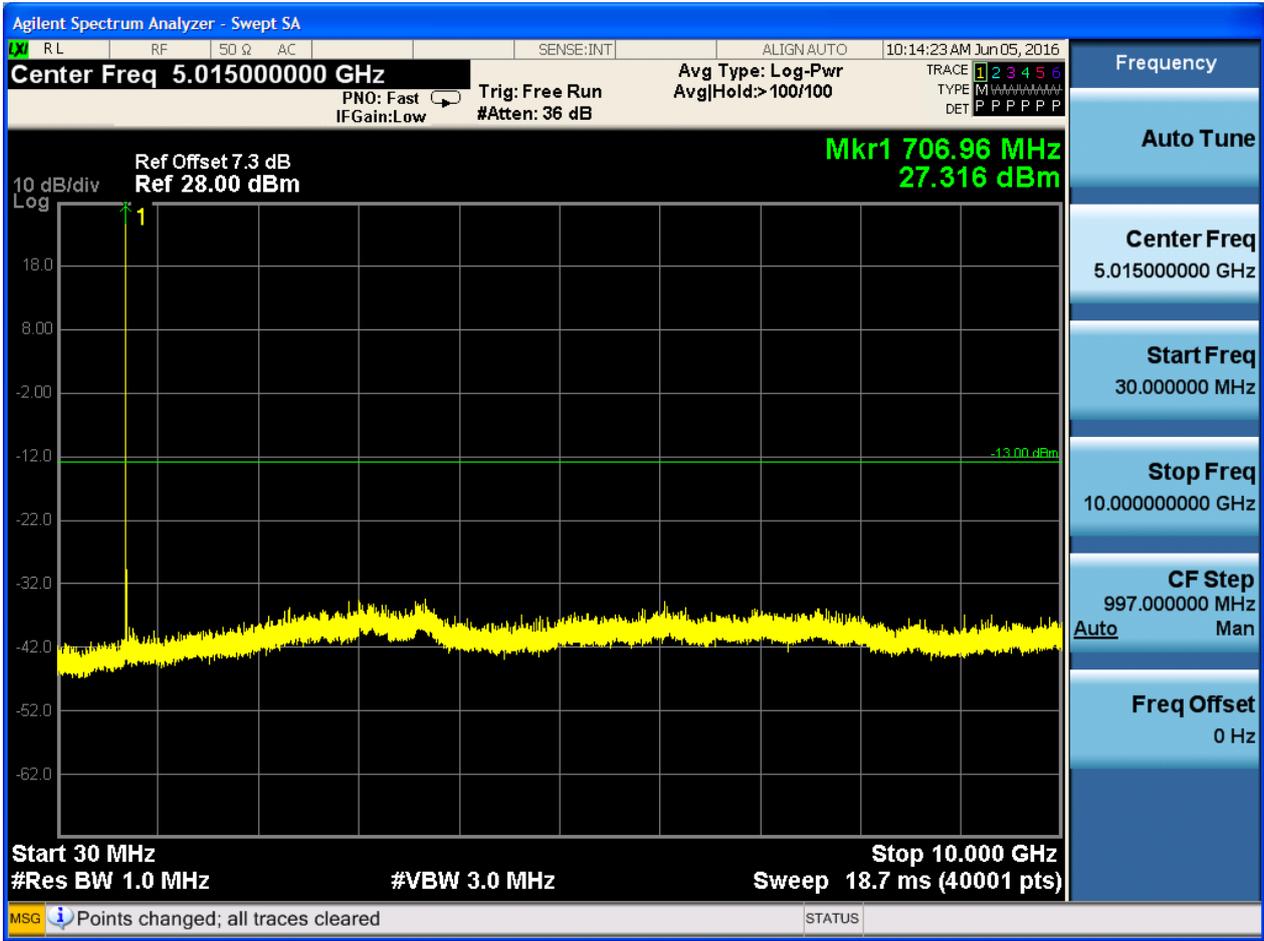


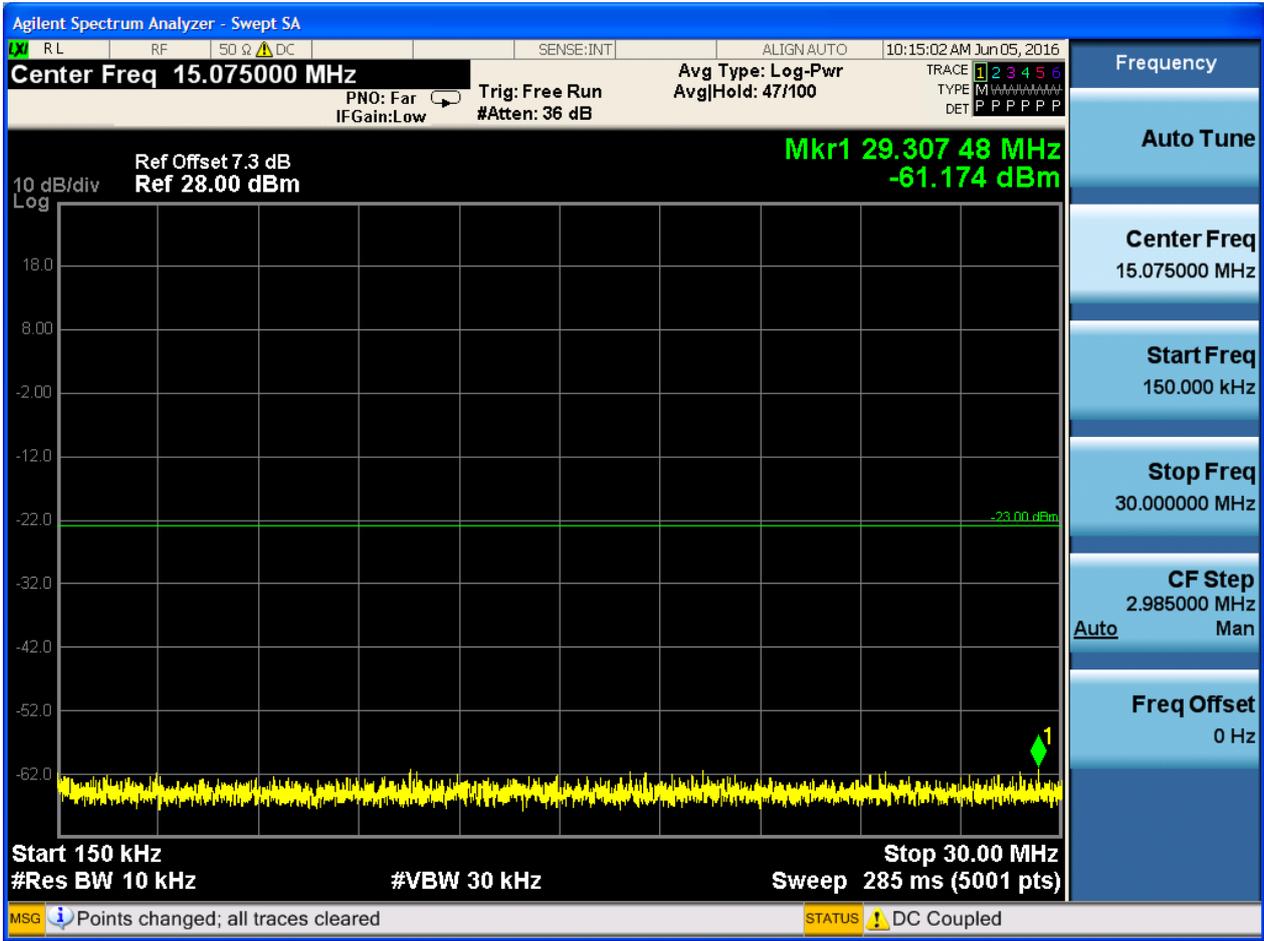
6.1.1.2.1.2 Test Channel = MCH

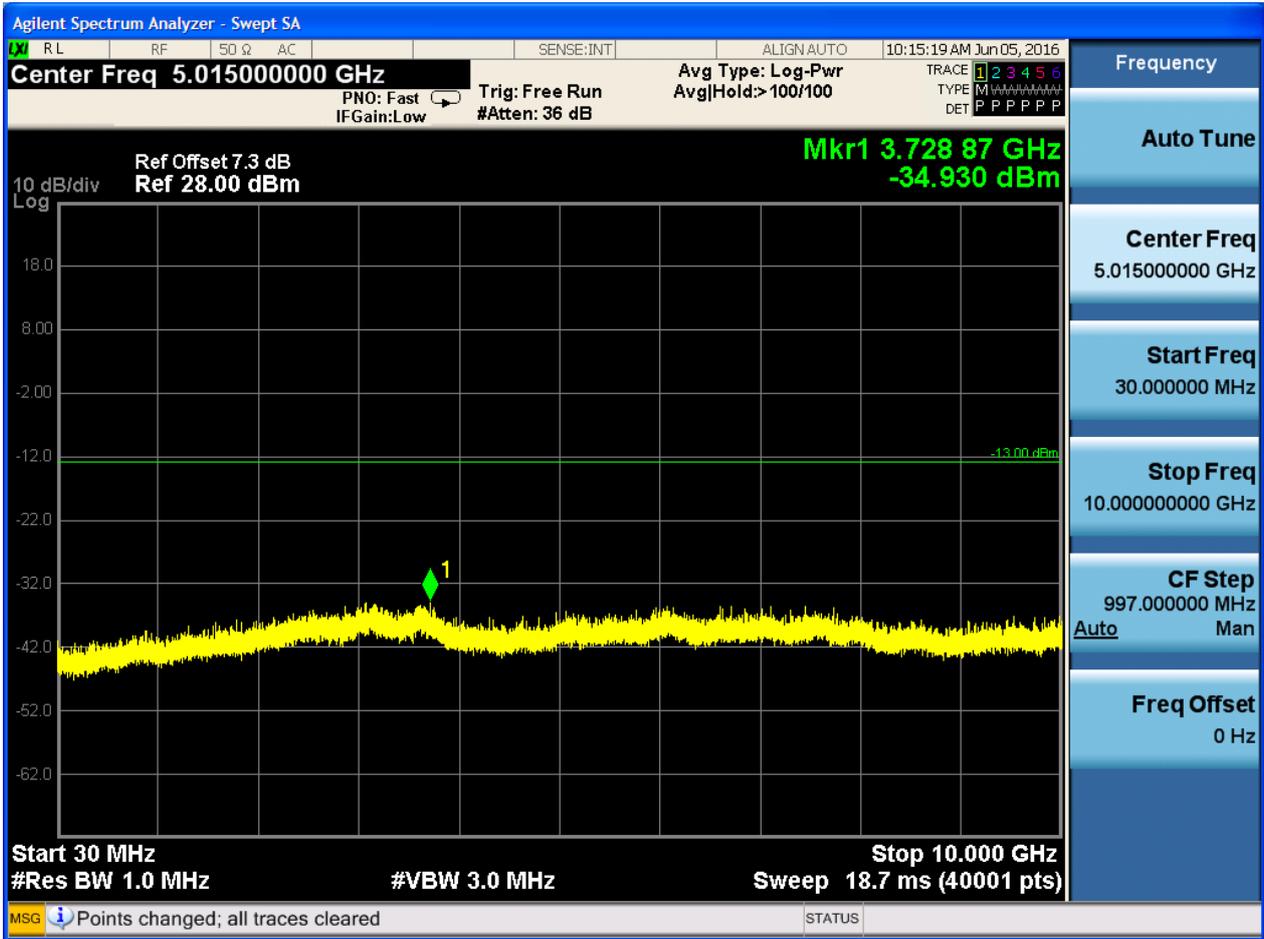
6.1.1.2.1.2.1 Test RB = RB1#0









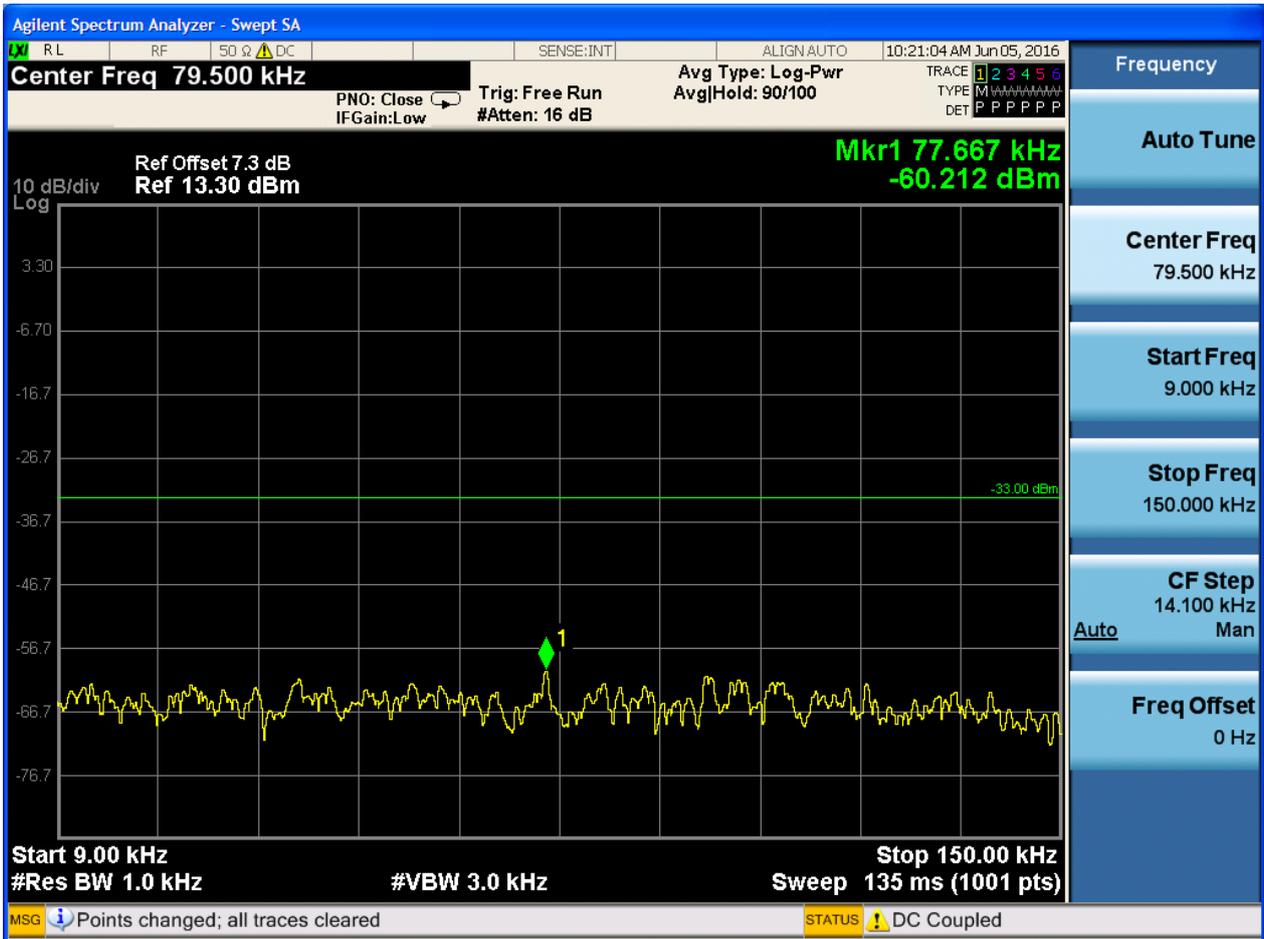


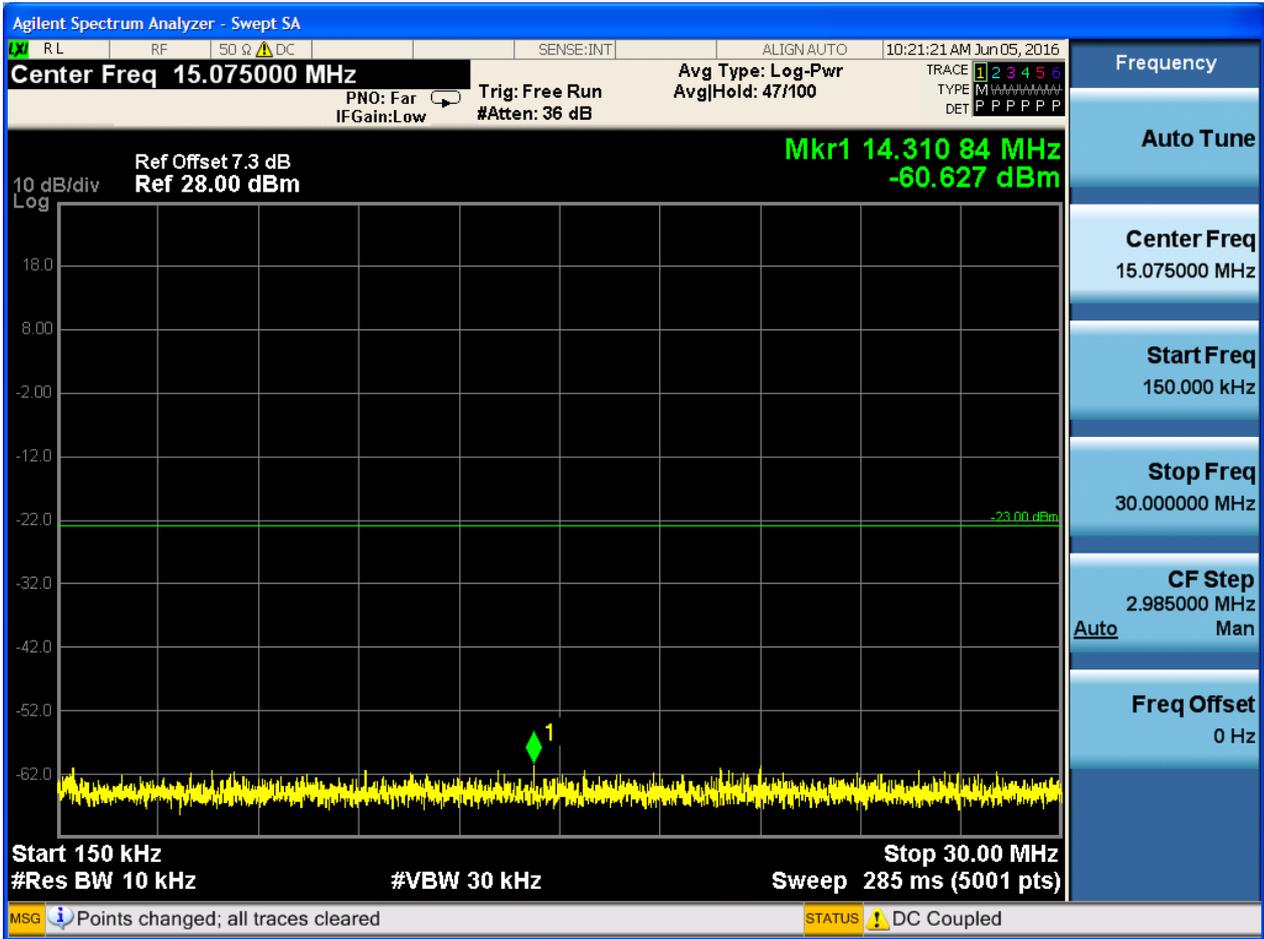


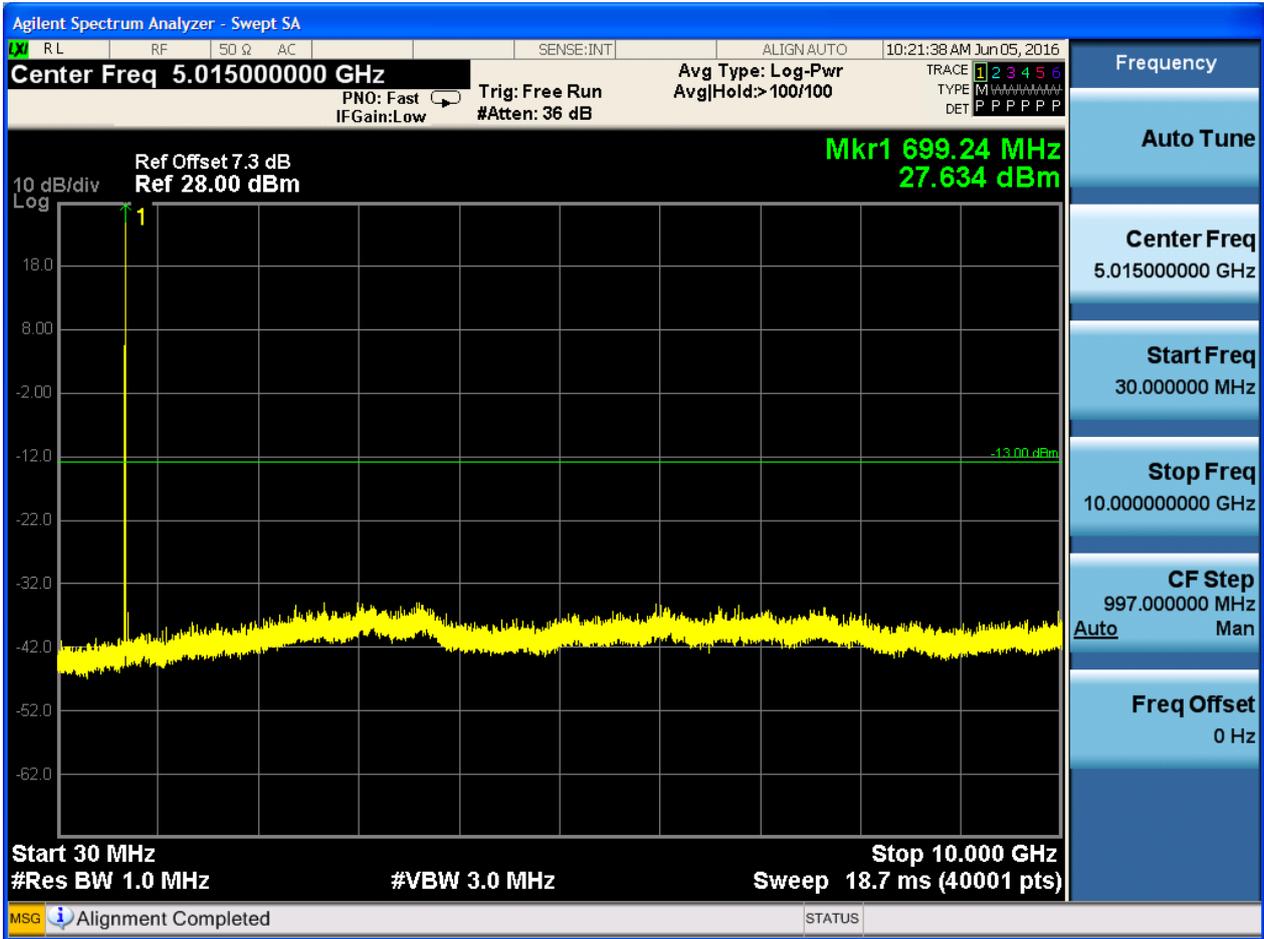
6.1.1.2.2 Test Bandwidth = 3

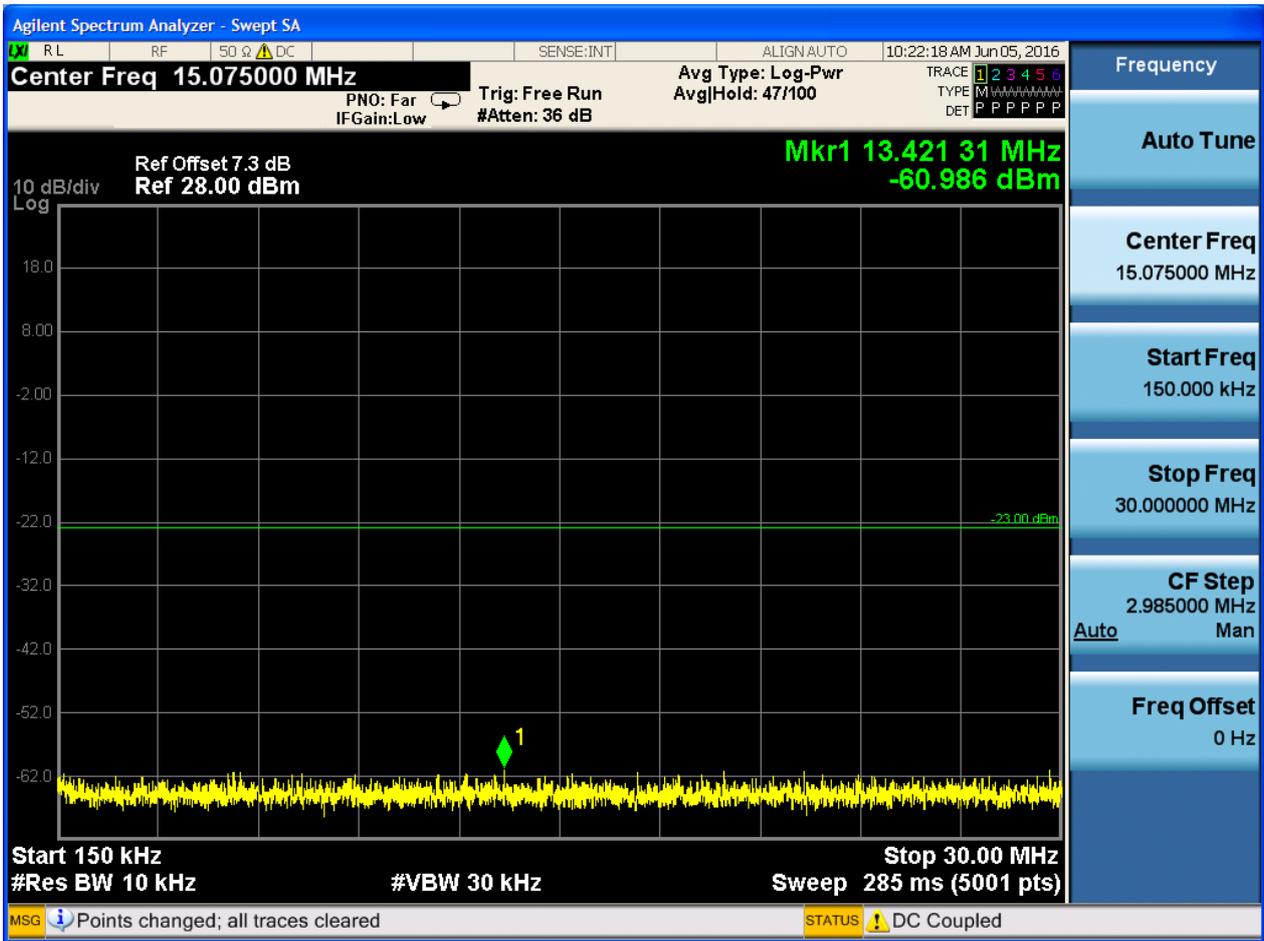
6.1.1.2.2.1 Test Channel = LCH

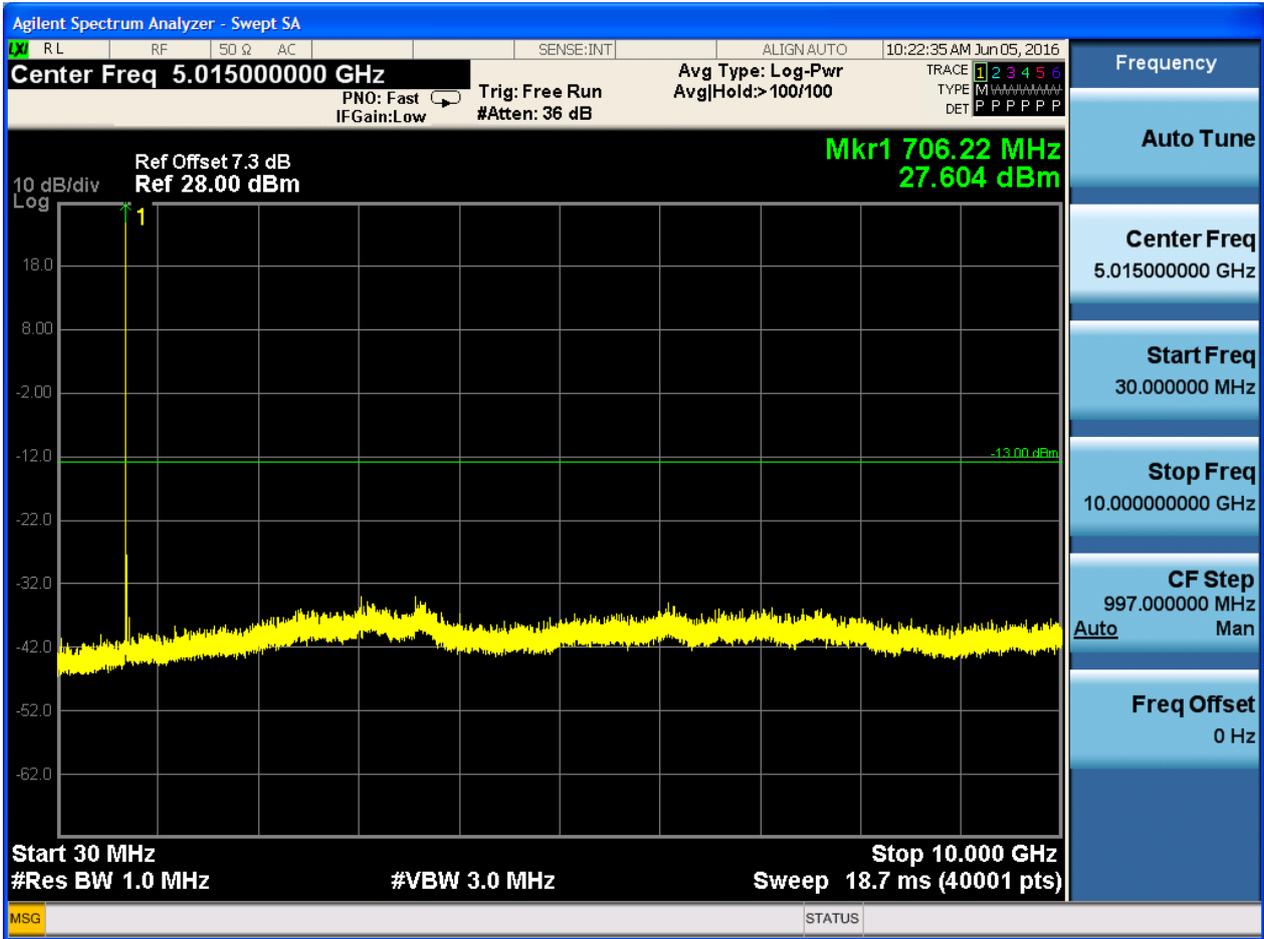
6.1.1.2.2.1.1 Test RB = RB1#0







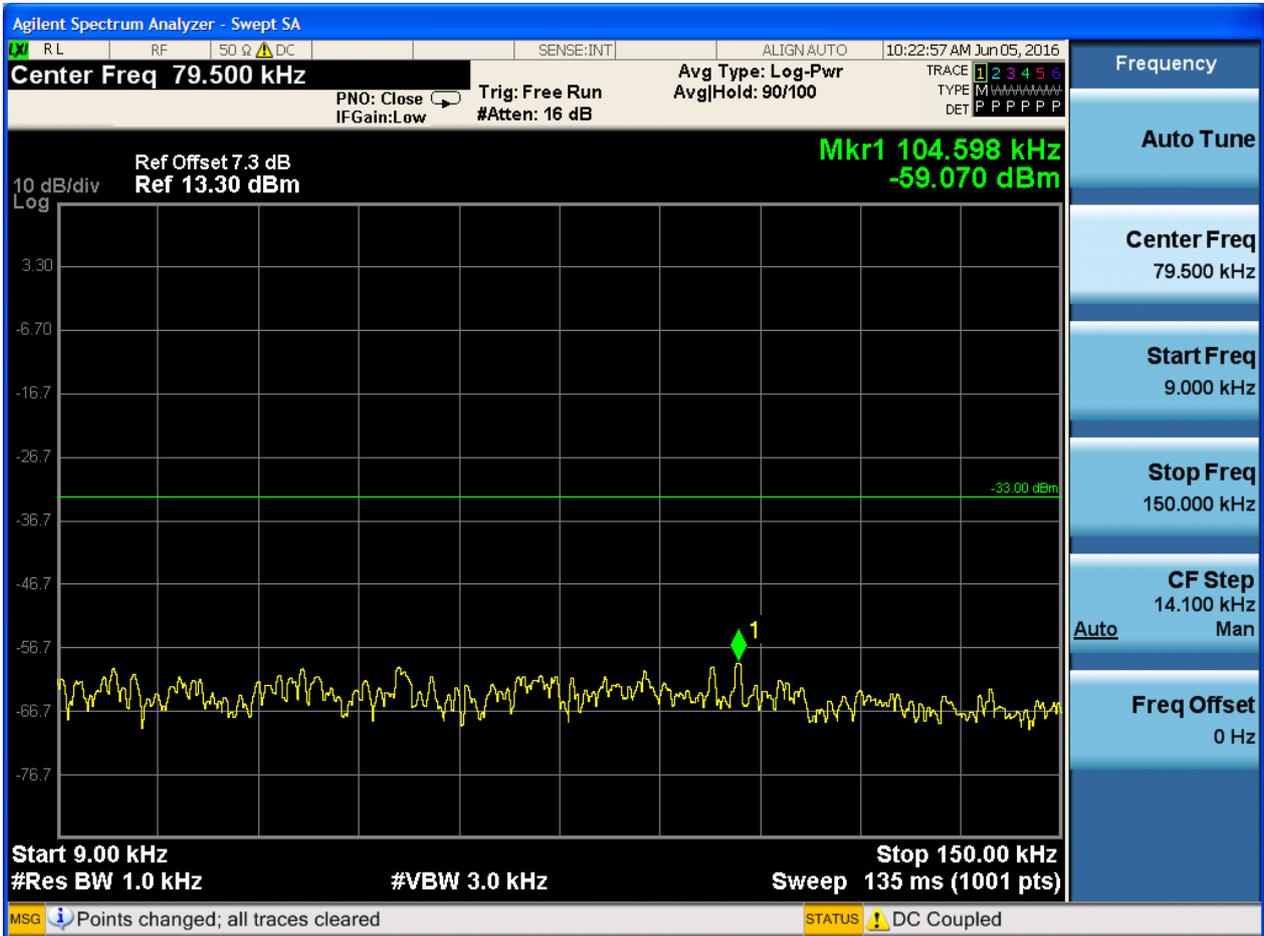


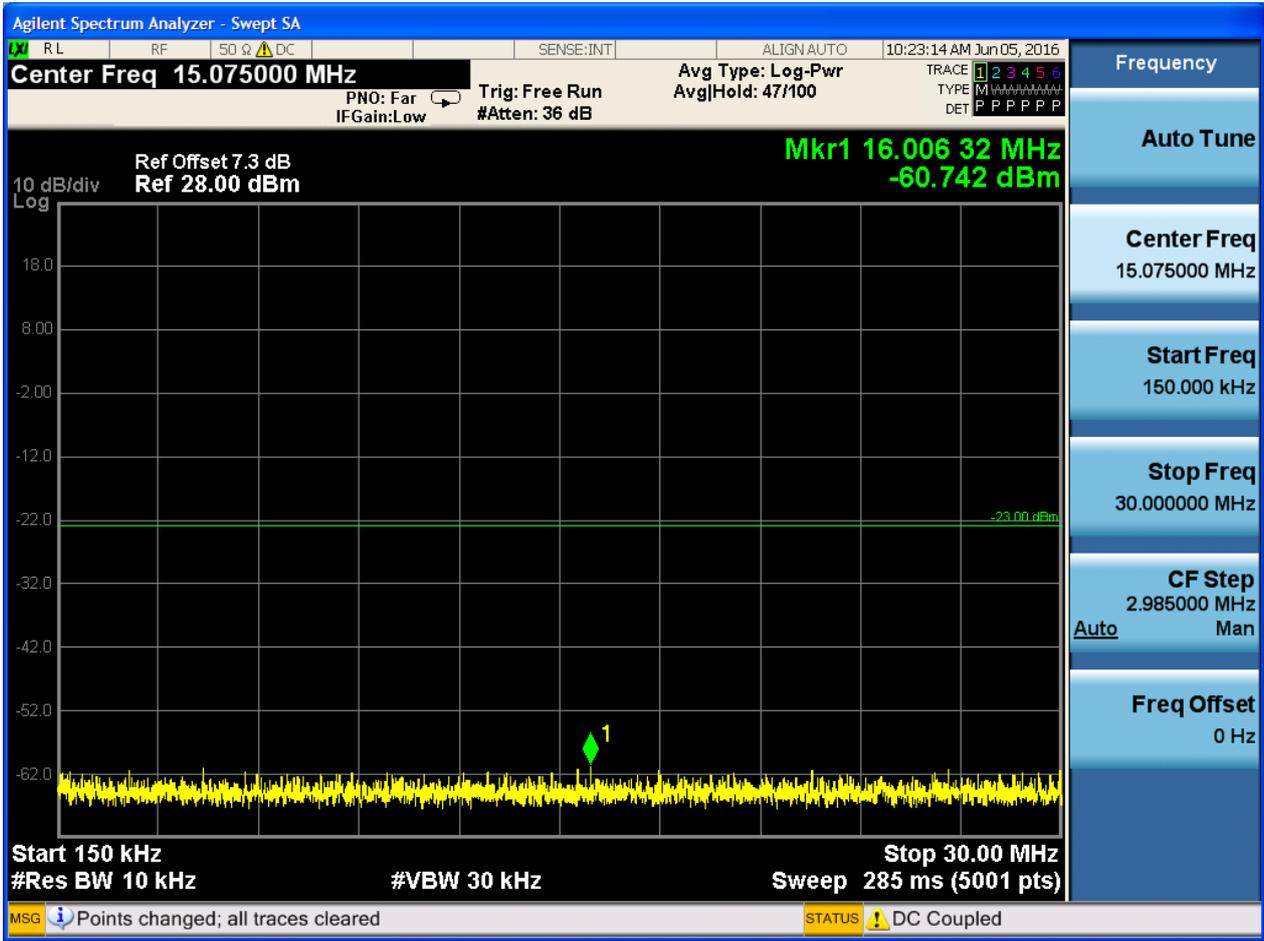


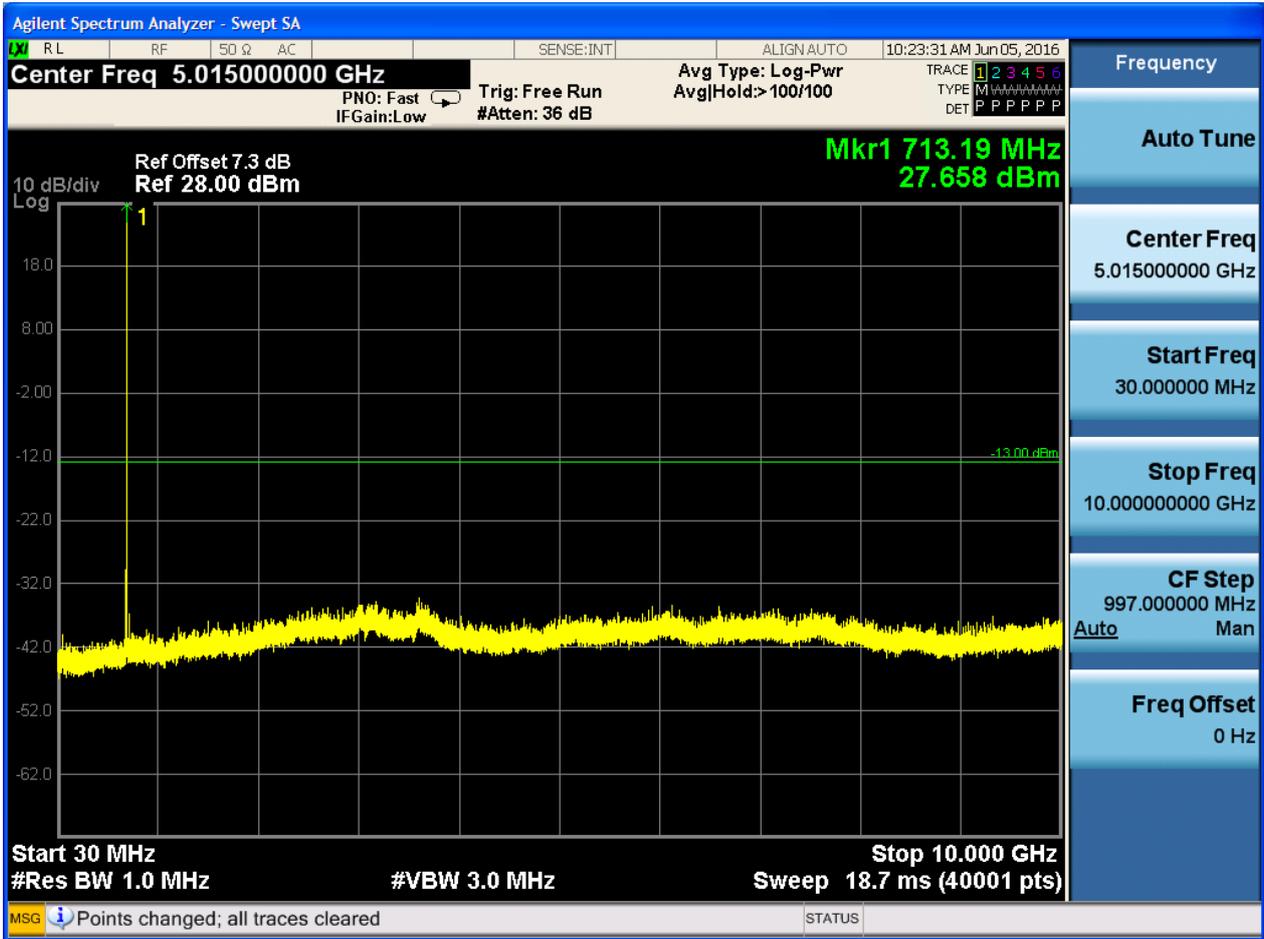


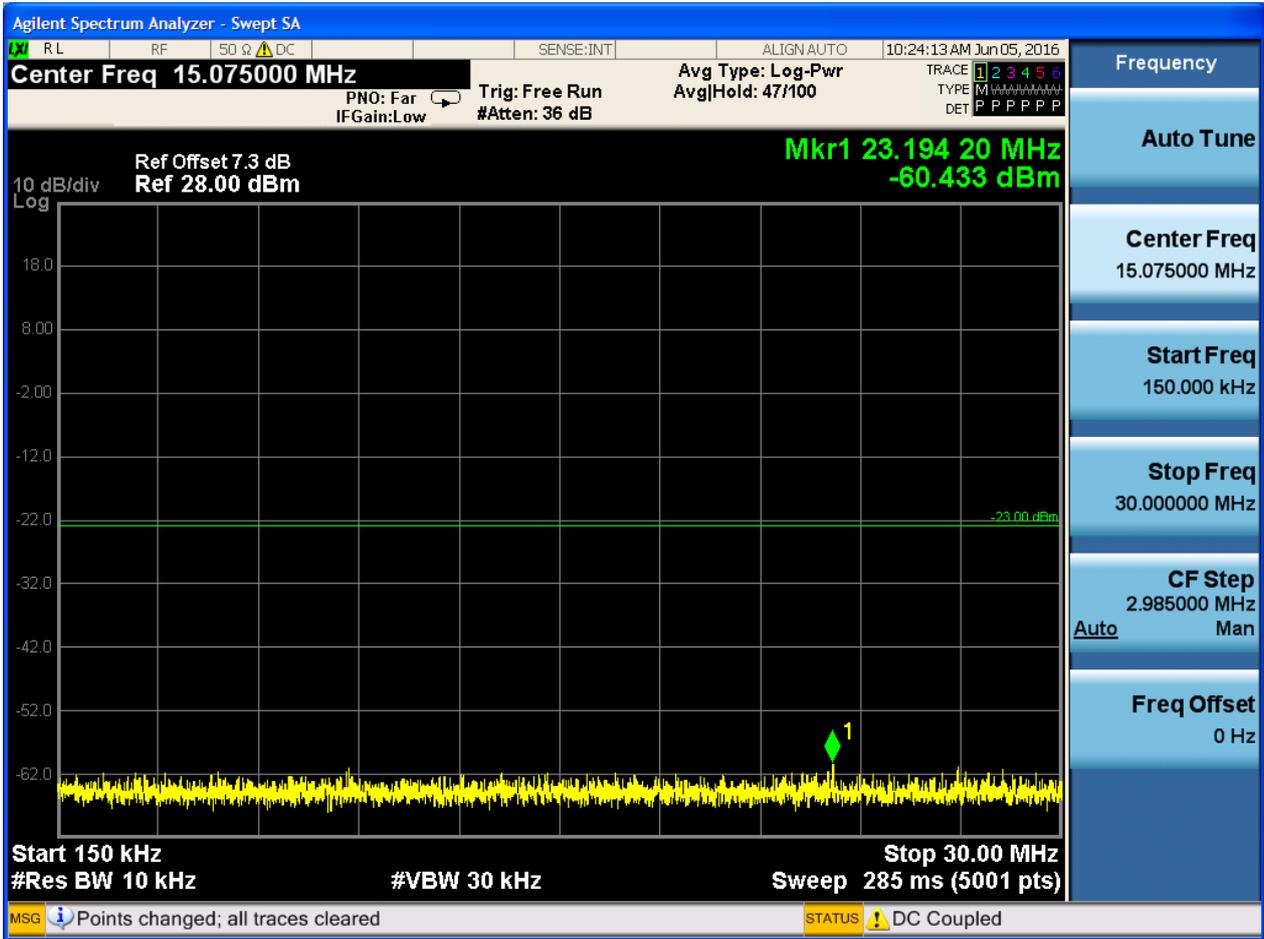
6.1.1.2.2.3 Test Channel = HCH

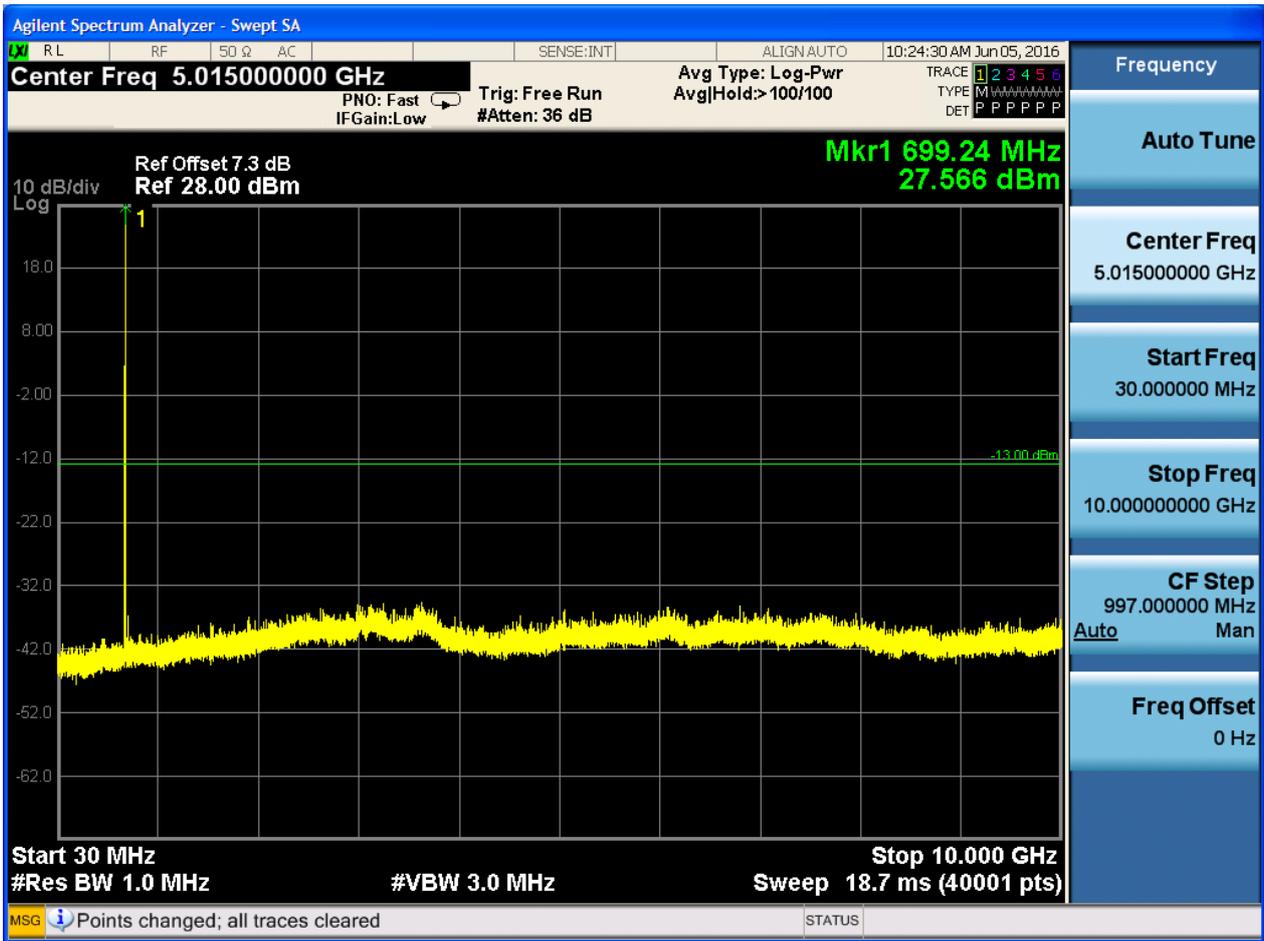
6.1.1.2.2.3.1 Test RB = RB1#0

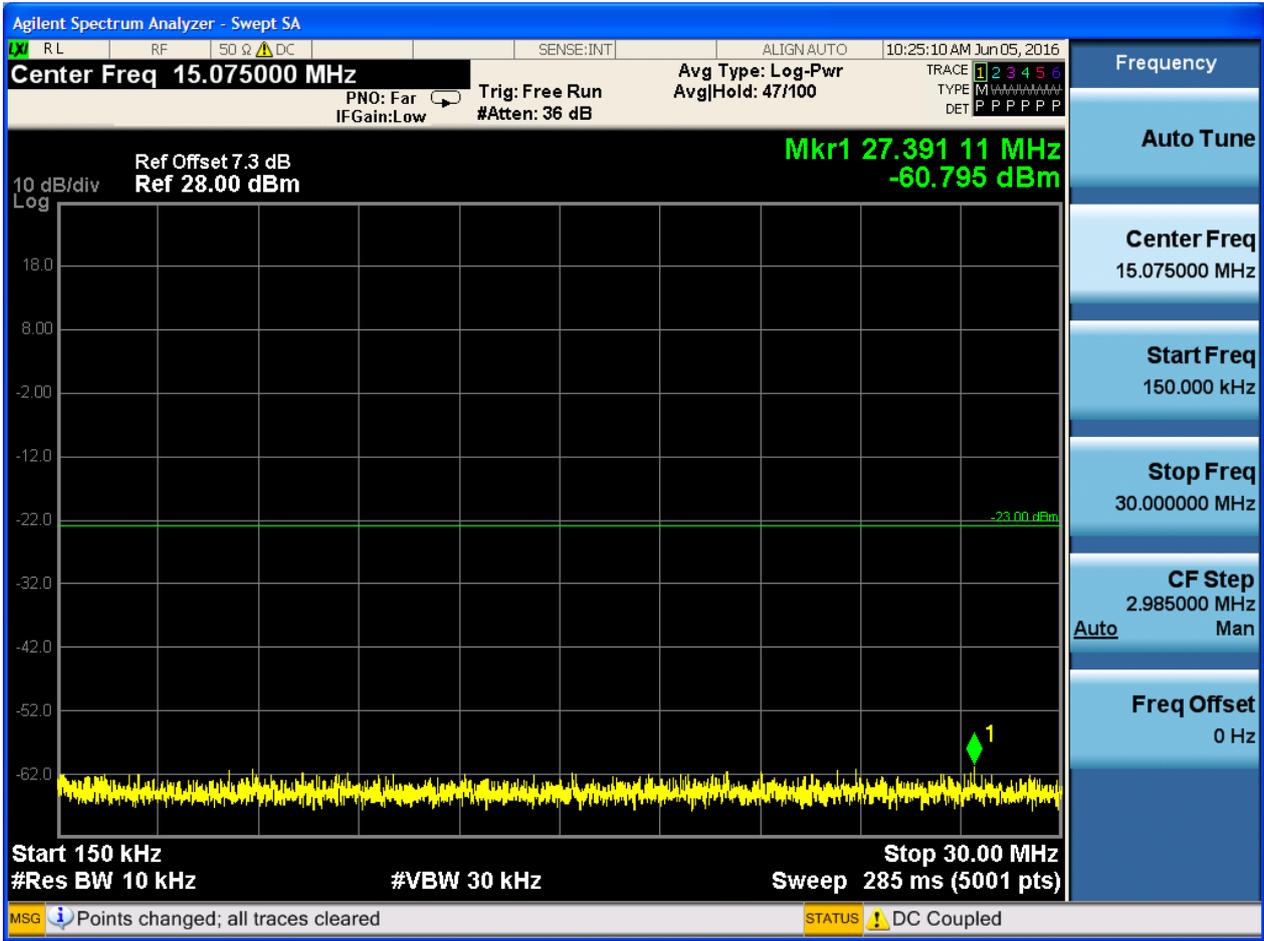


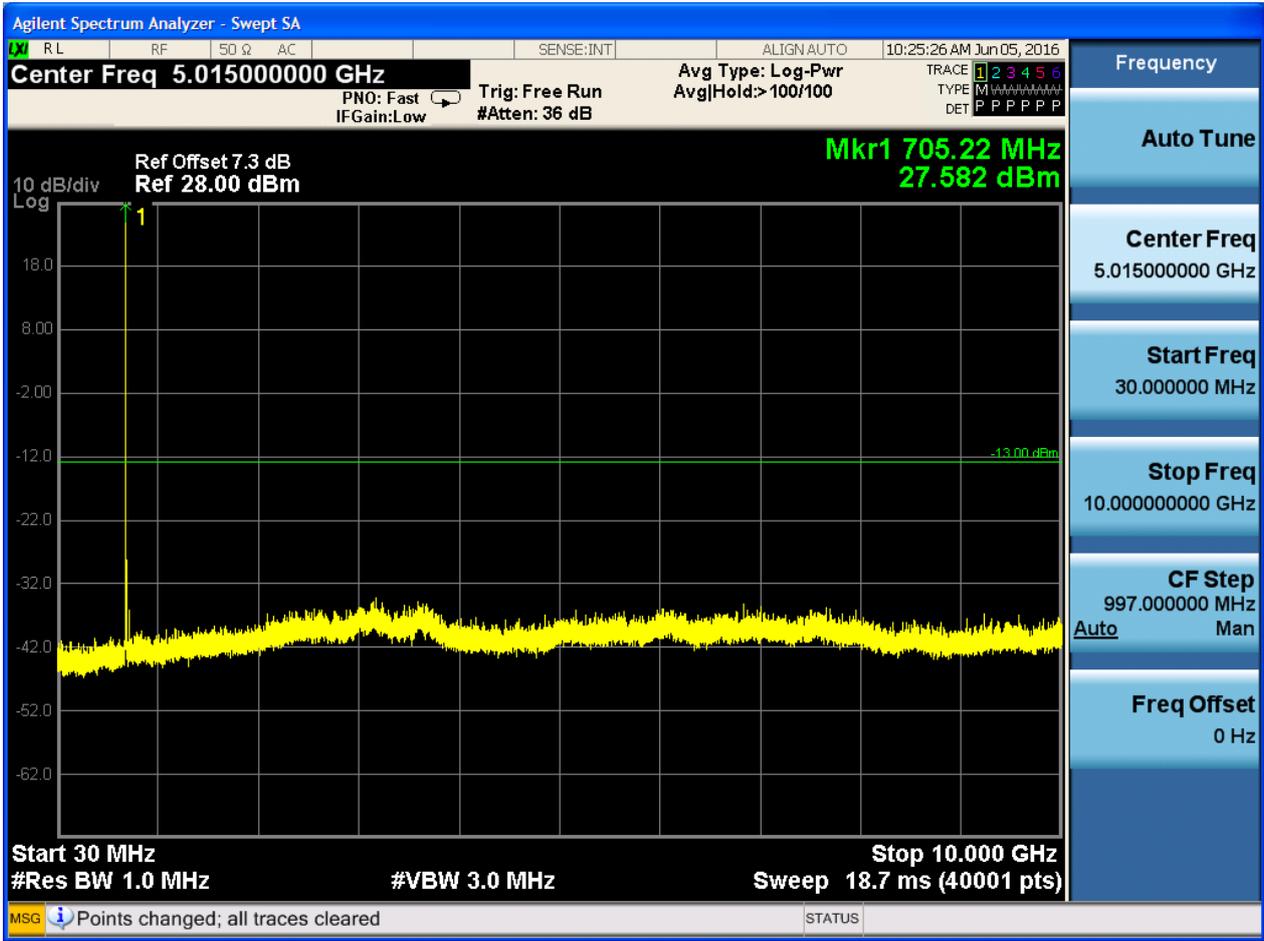


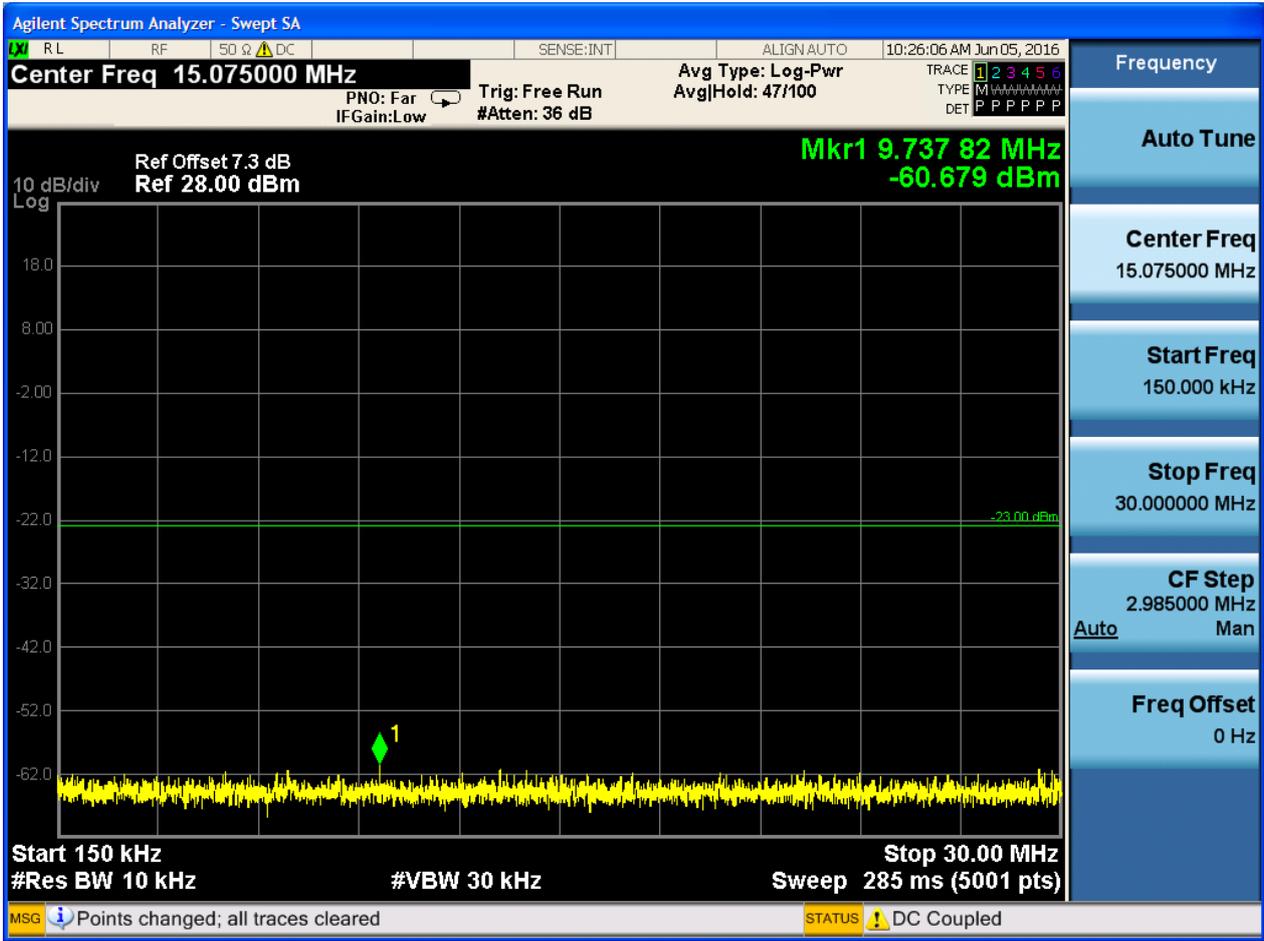


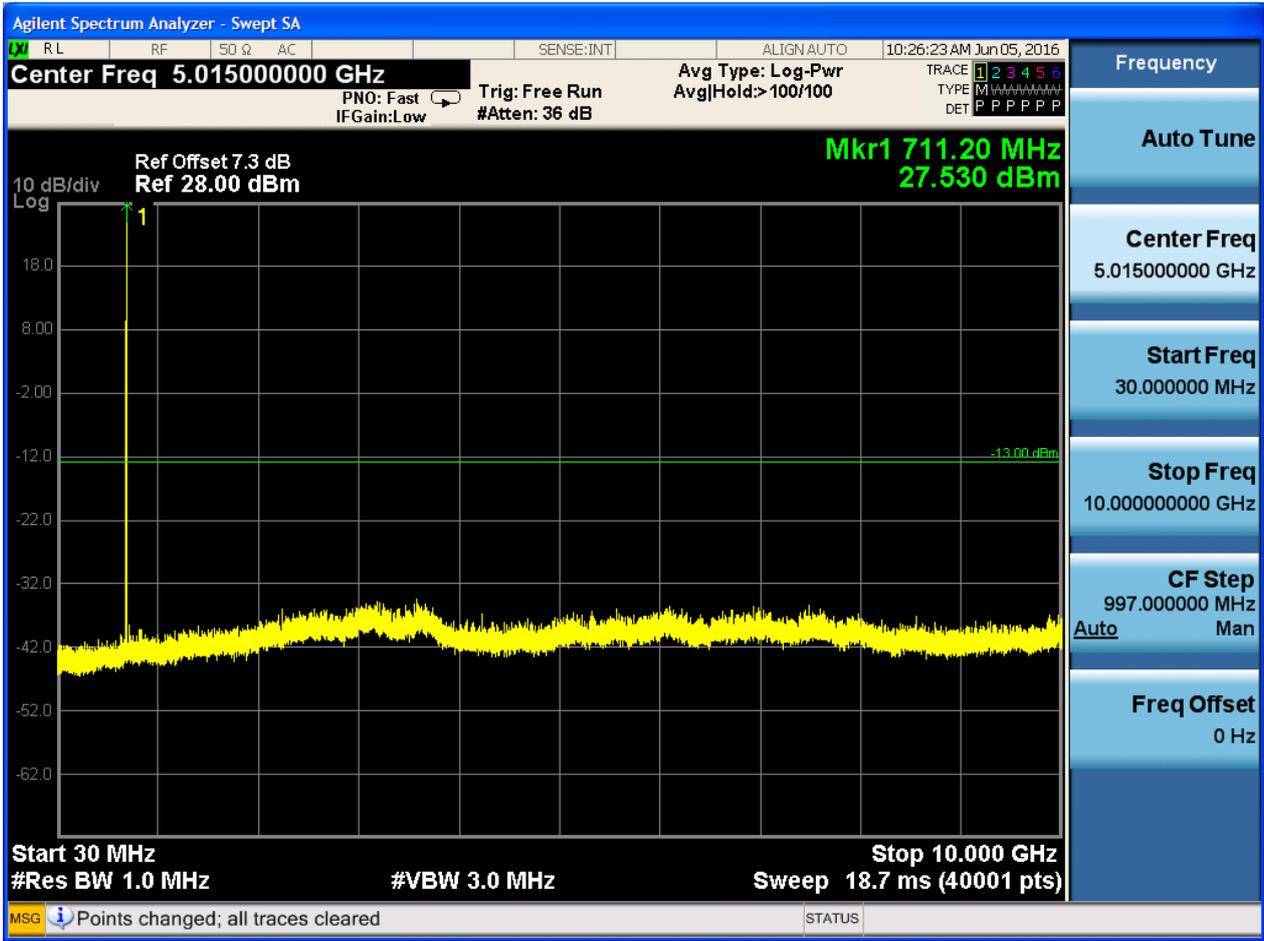










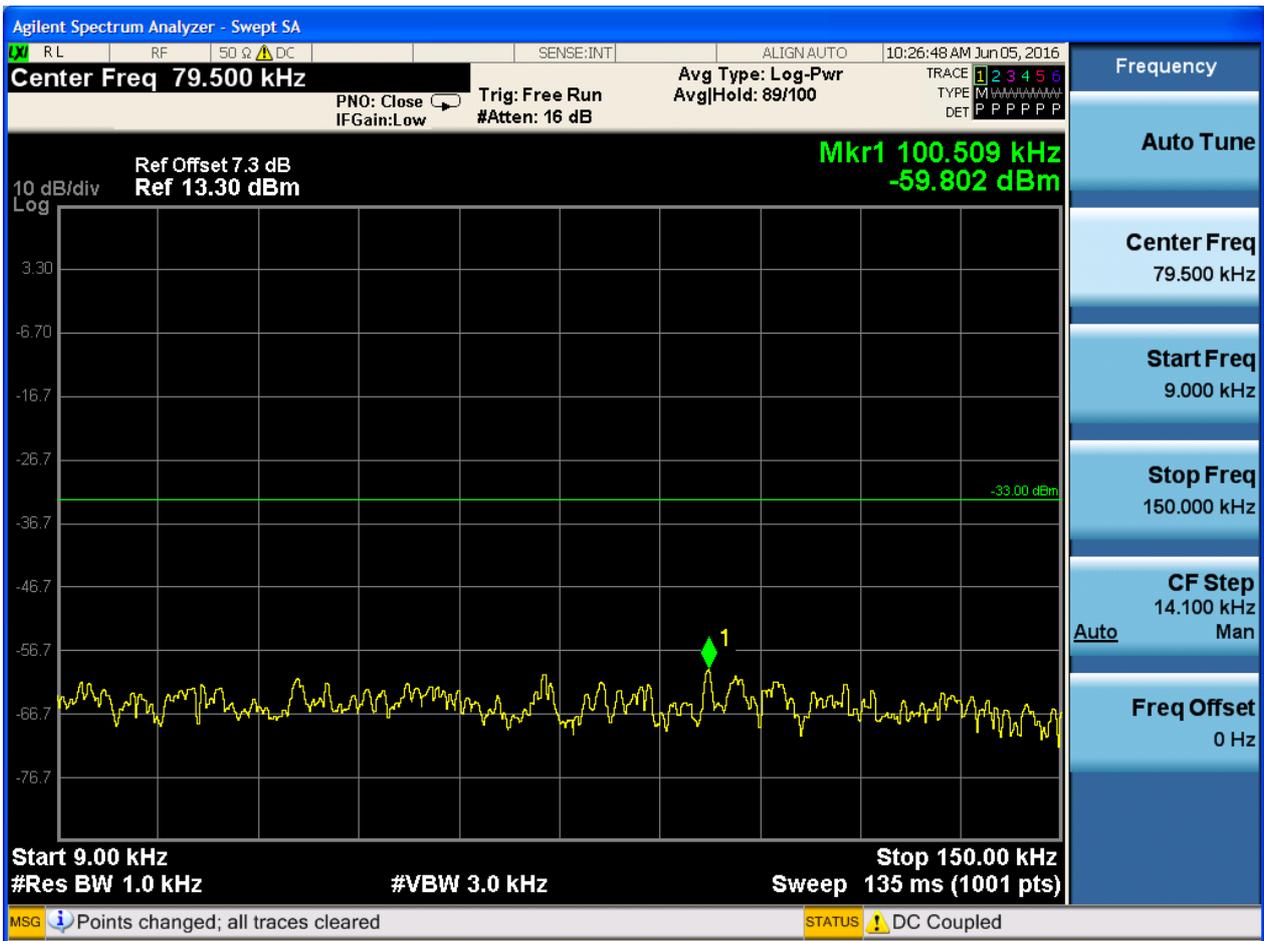


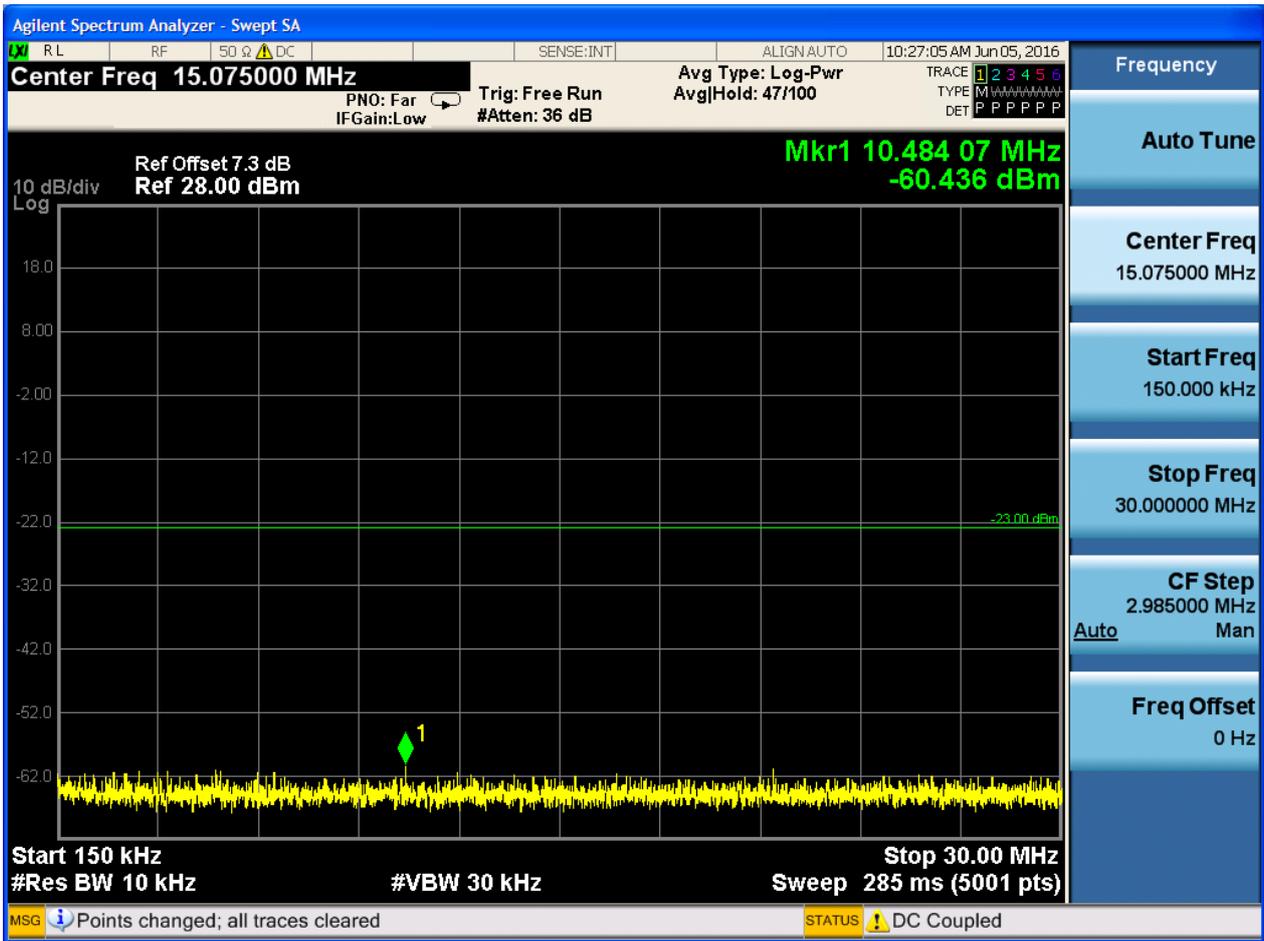


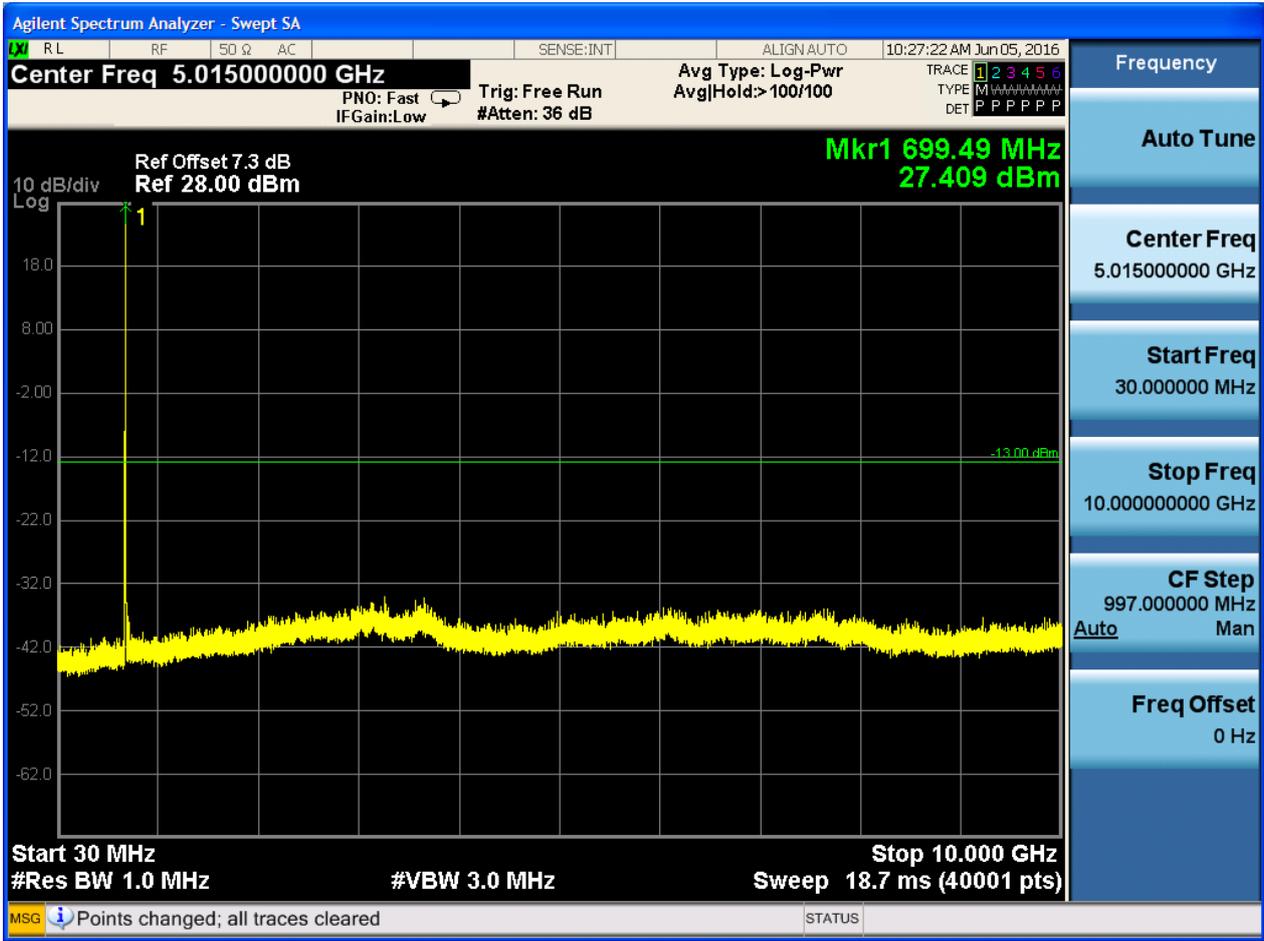
6.1.1.2.4 Test Bandwidth = 10

6.1.1.2.4.1 Test Channel = LCH

6.1.1.2.4.1.1 Test RB = RB1#0



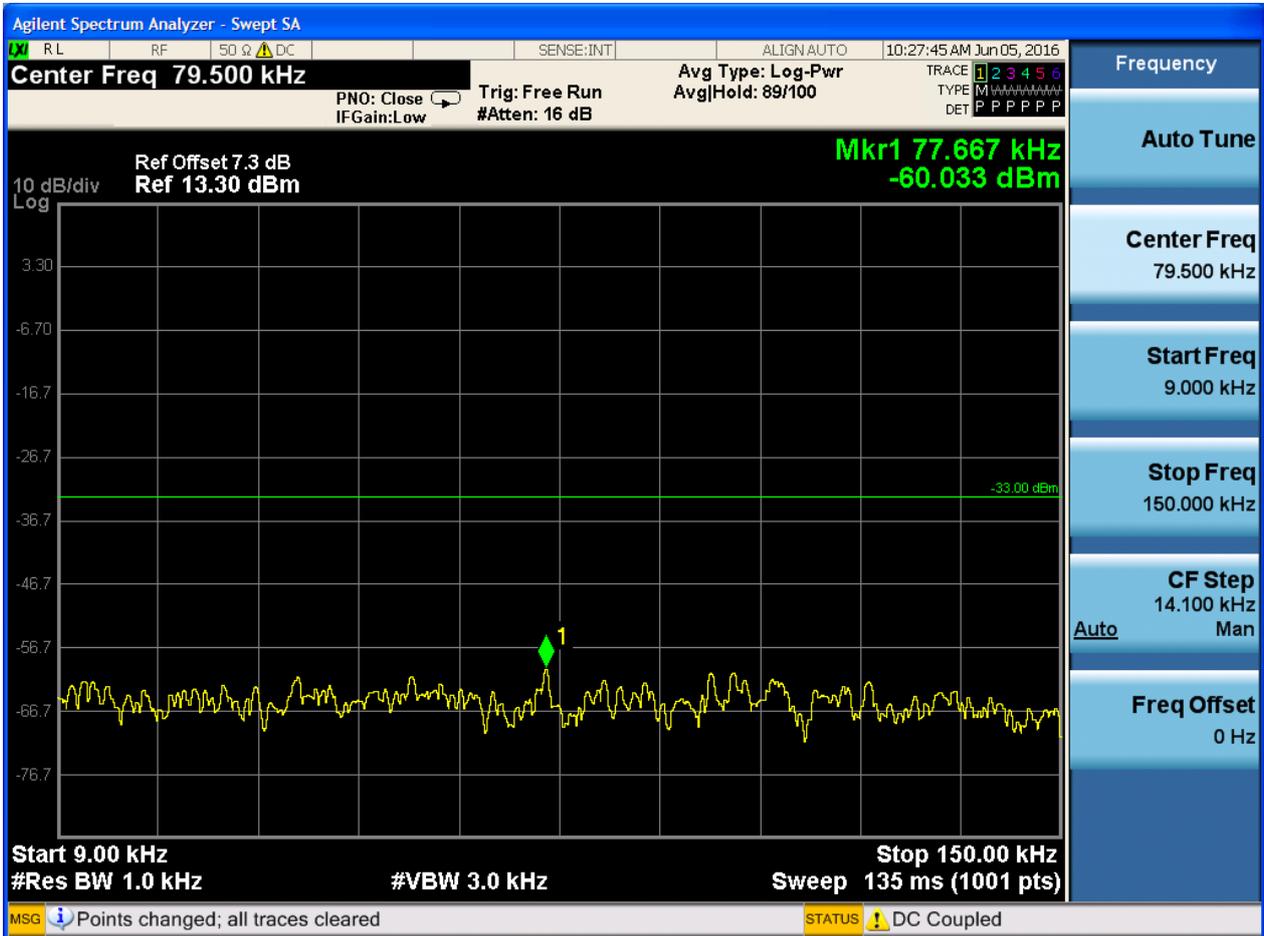


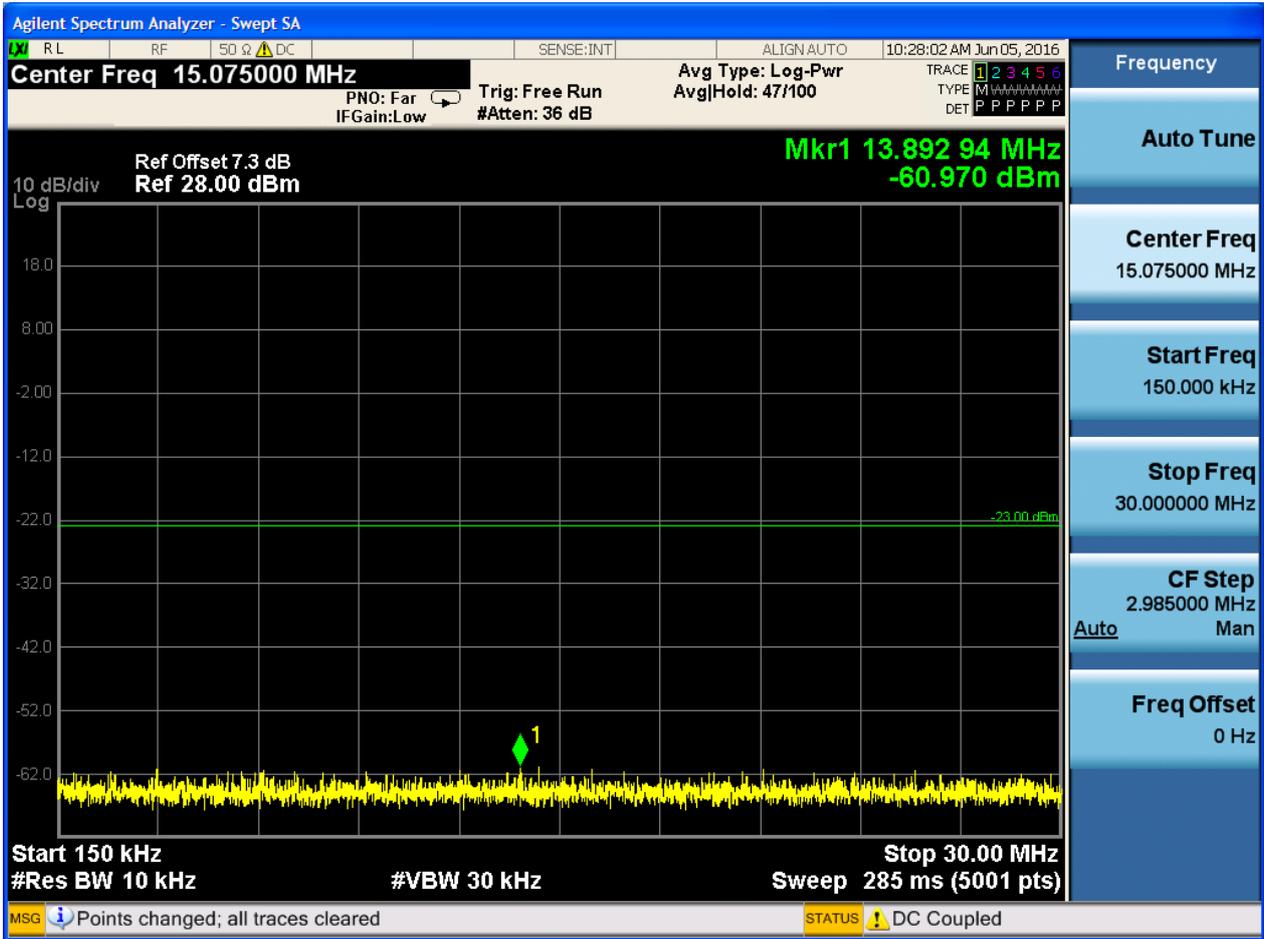


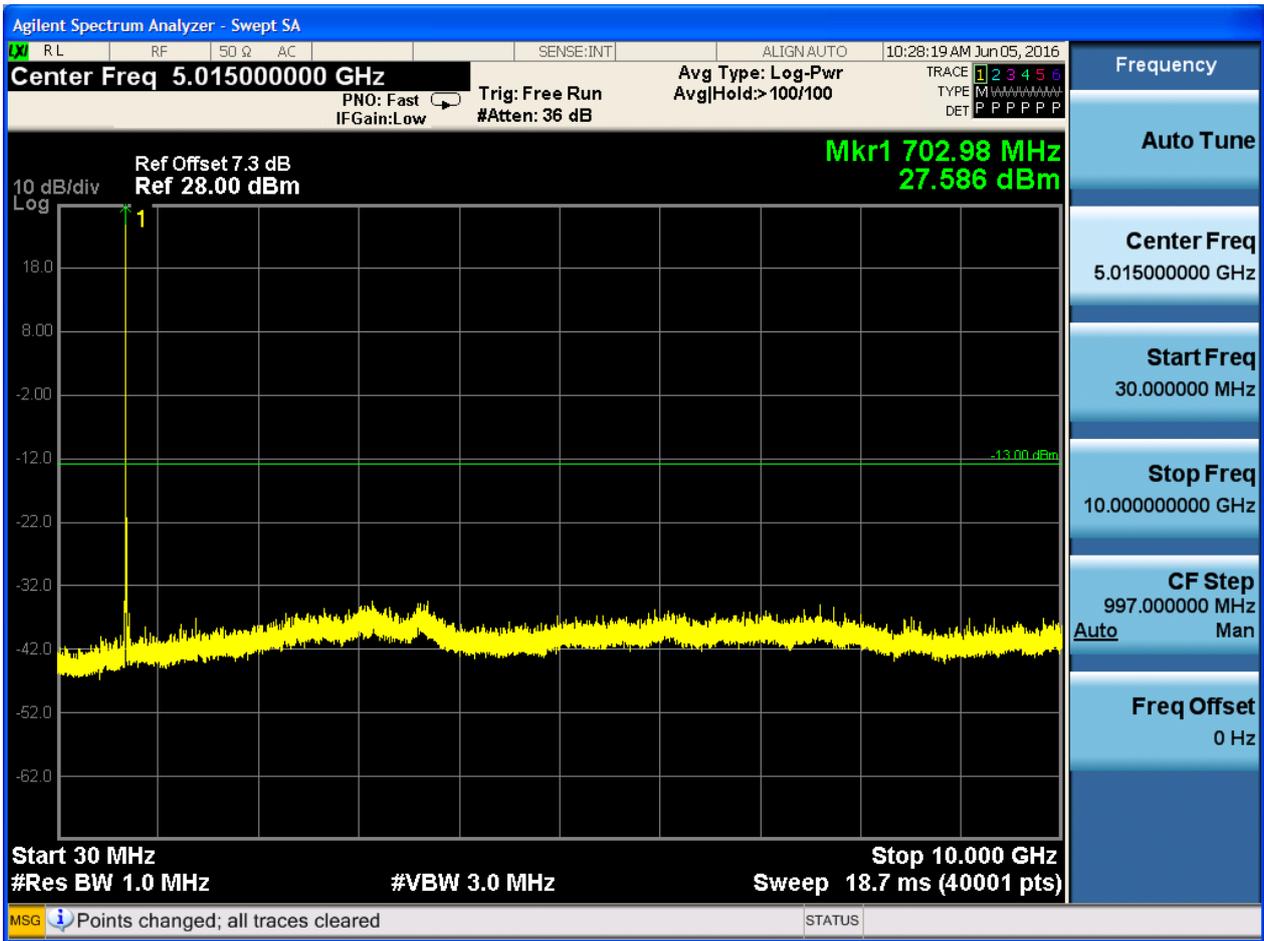


6.1.1.2.4.2 Test Channel = MCH

6.1.1.2.4.2.1 Test RB = RB1#0



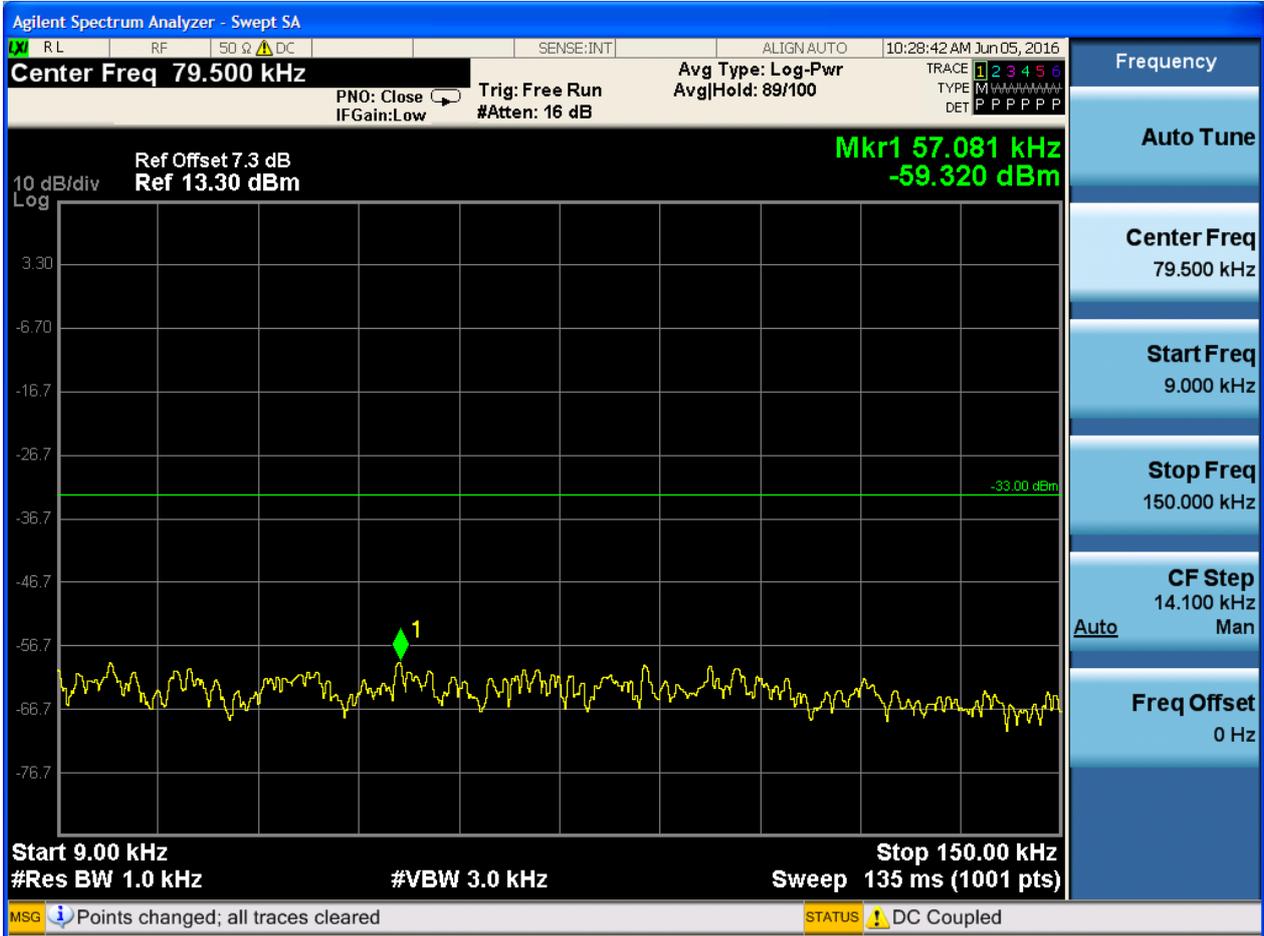


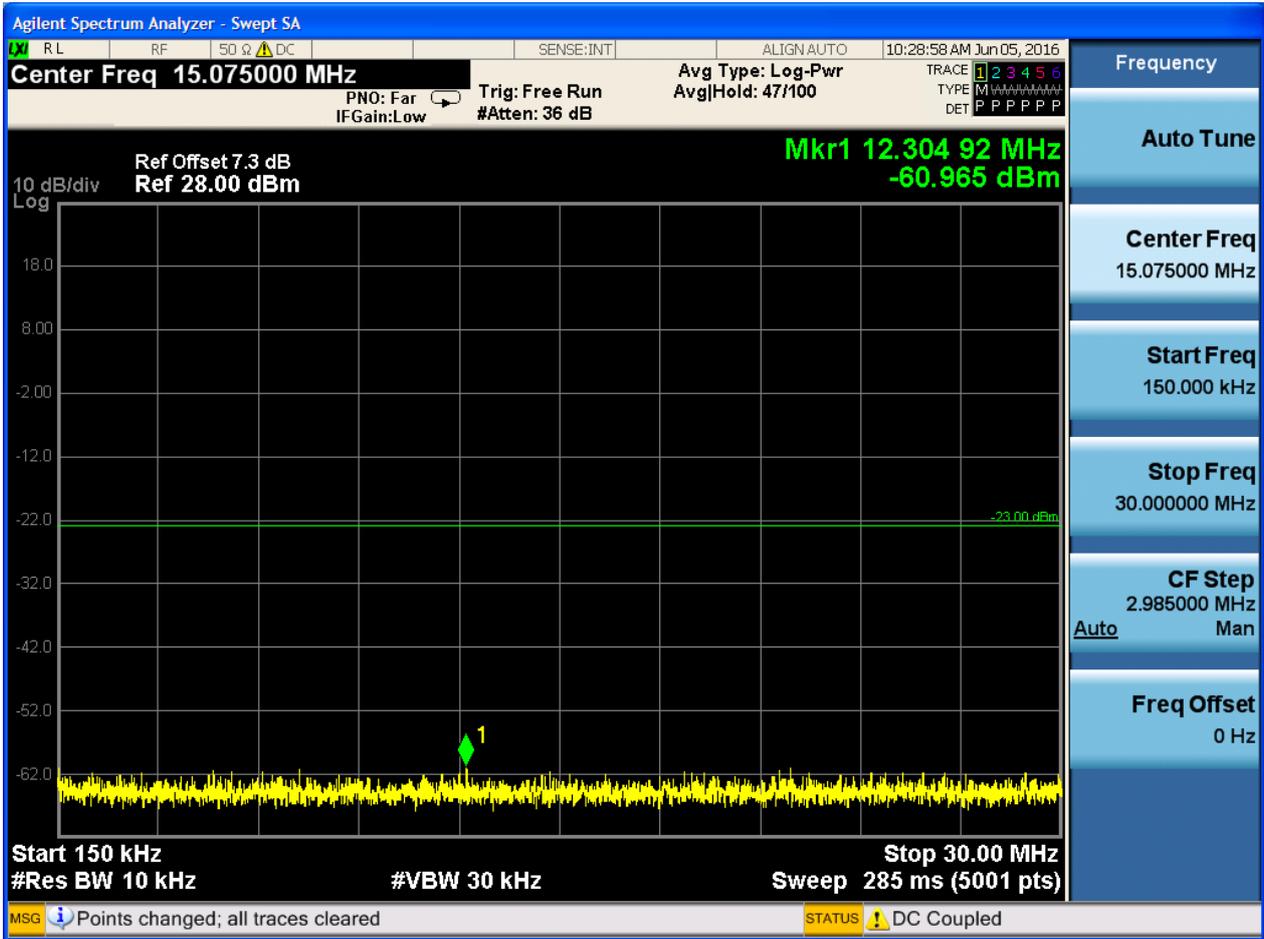


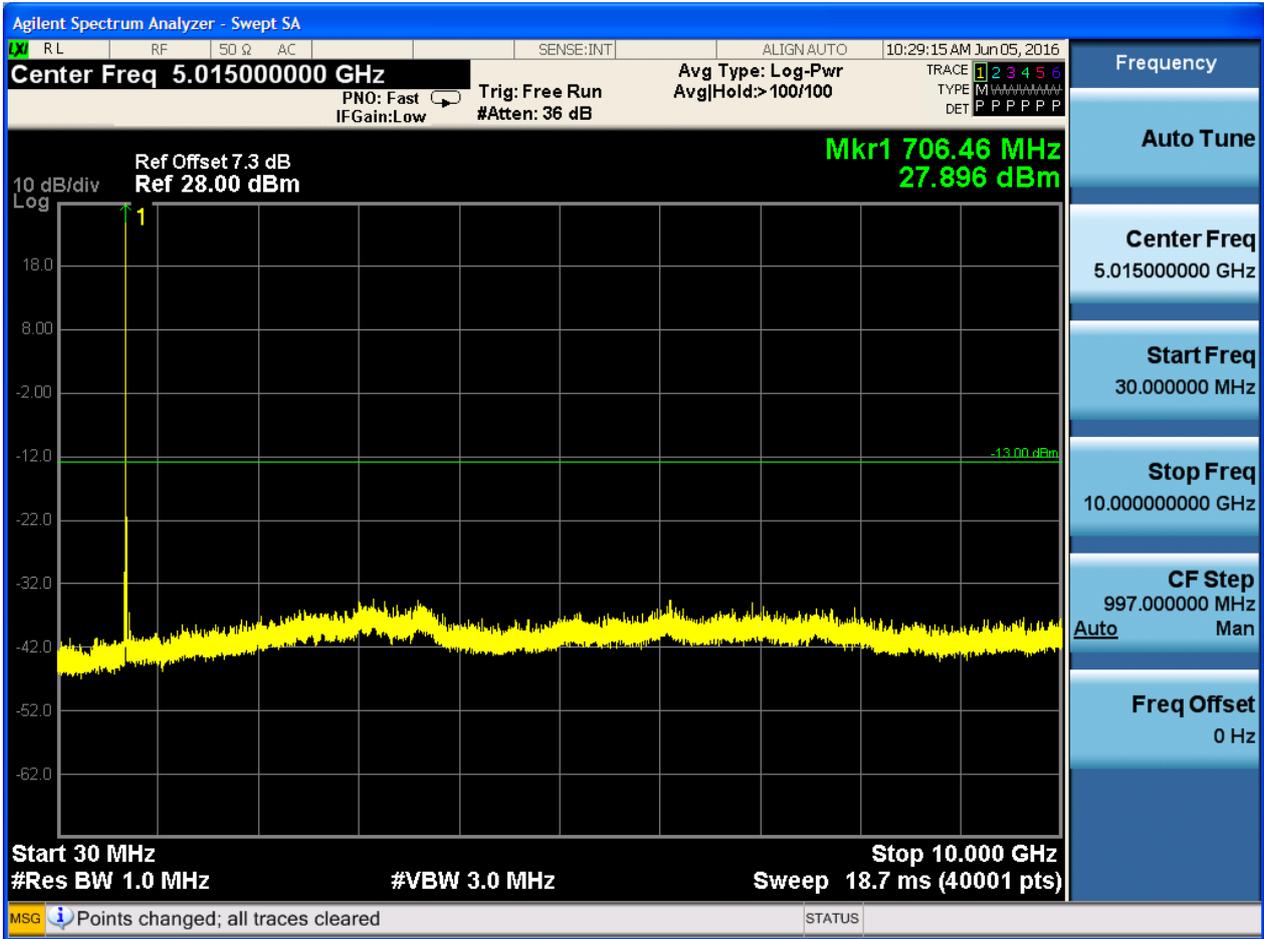


6.1.1.2.4.3 Test Channel = HCH

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

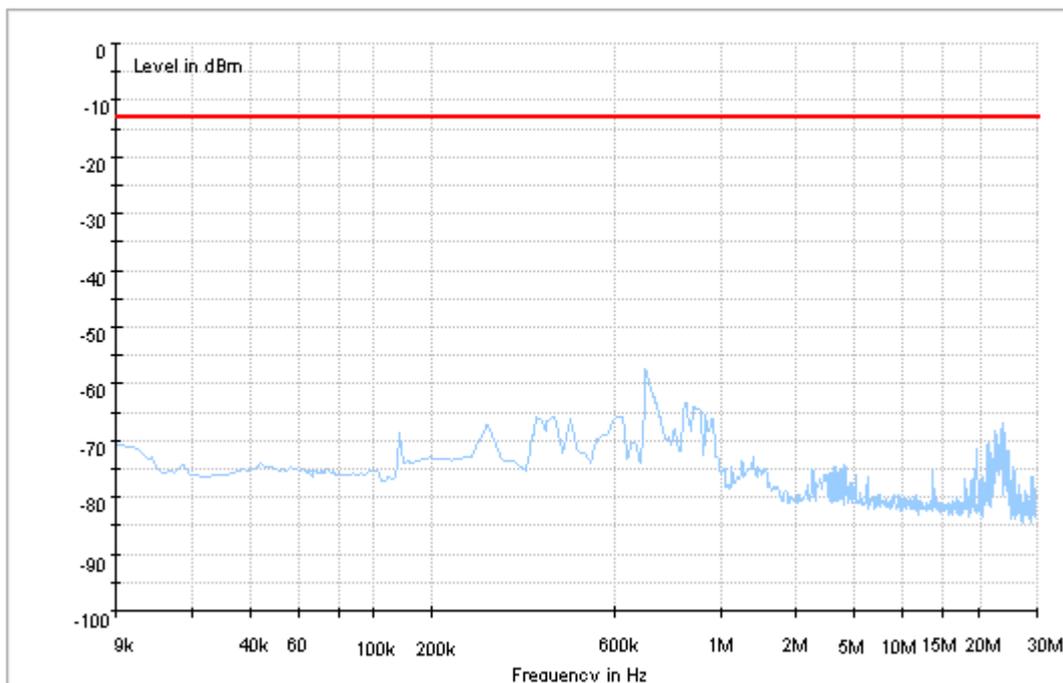
Above 1GHz, RBW = 1 MHz, VBW = 3 MHz. Detector: PK

Part I - Test Plots

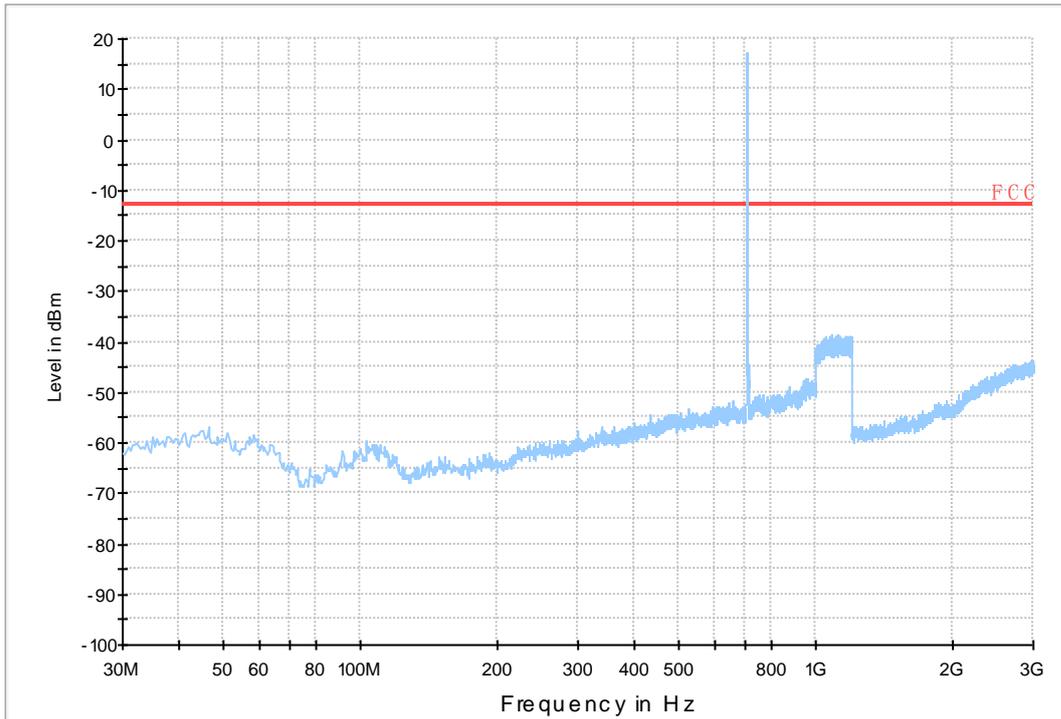
7.1 For LTE

7.1.1 Test Band = BAND12

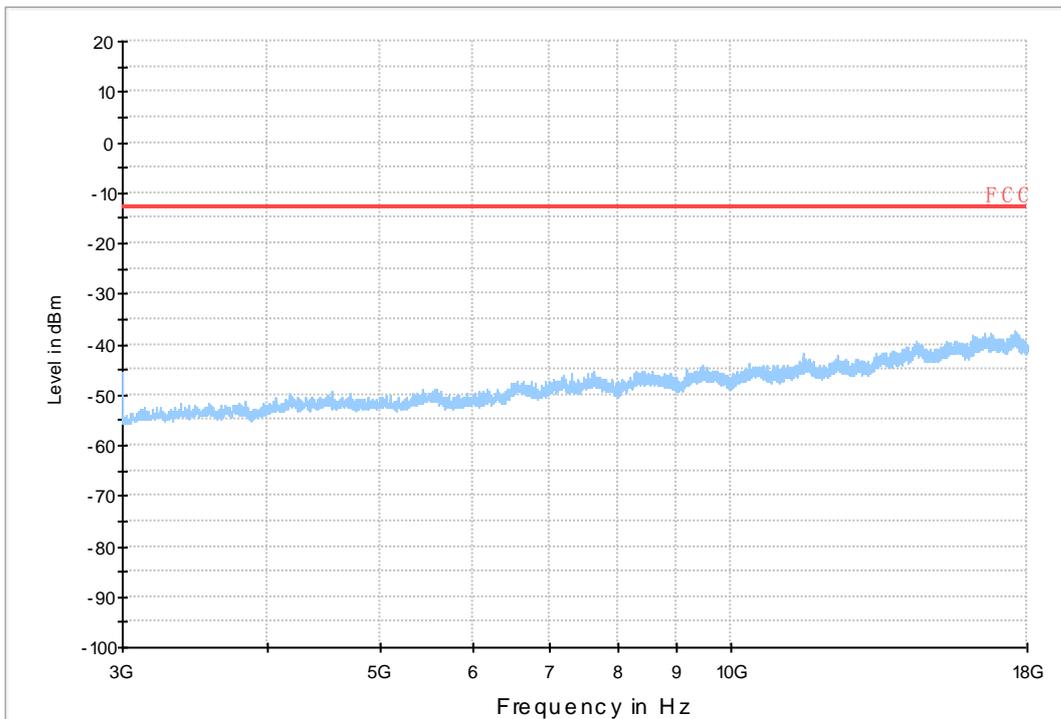
7.1.1.1 Test Bandwidth = 1.4



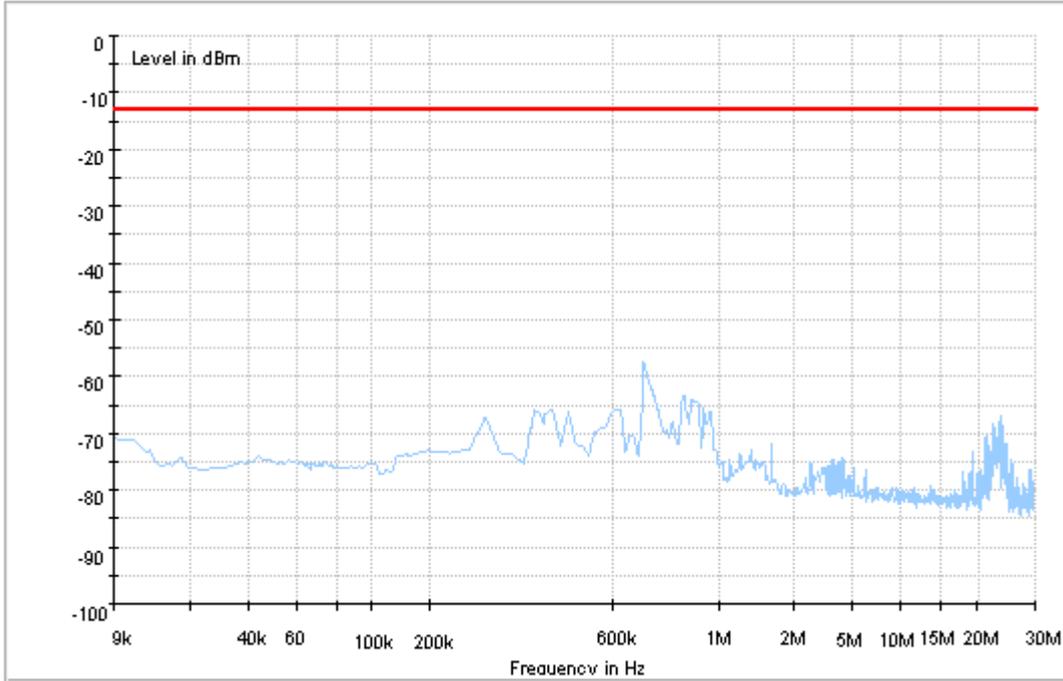
Copy of RSE-TX-DIRECTOR BELOW 1G_L



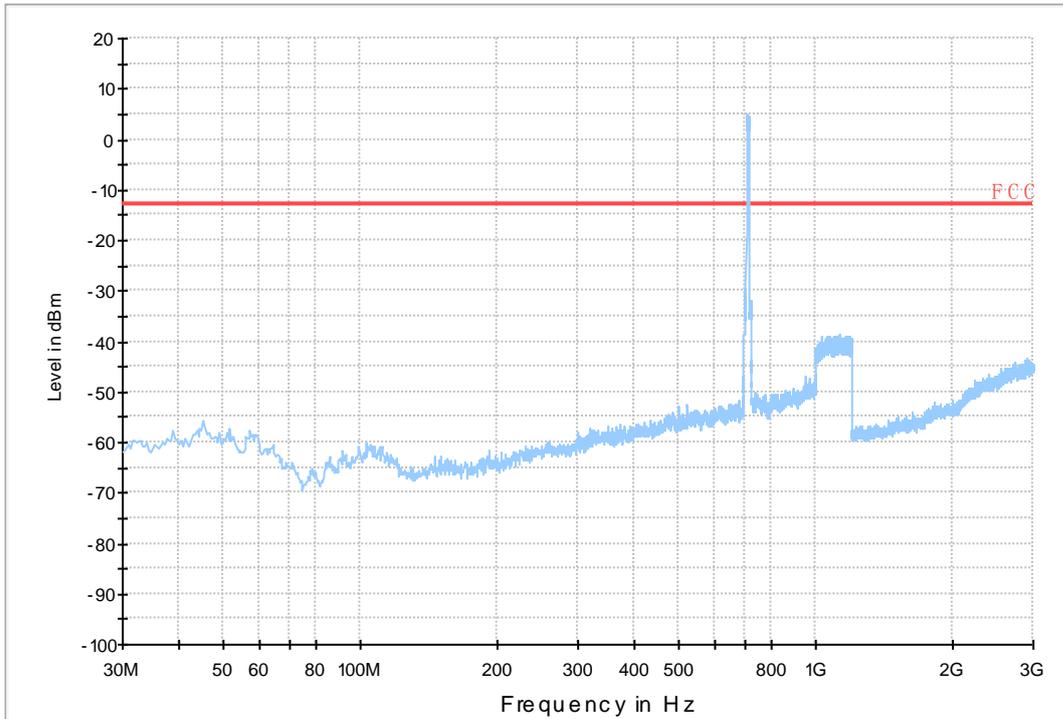
Copy of RSE-TX-DIRECTOR BELOW 1G_H



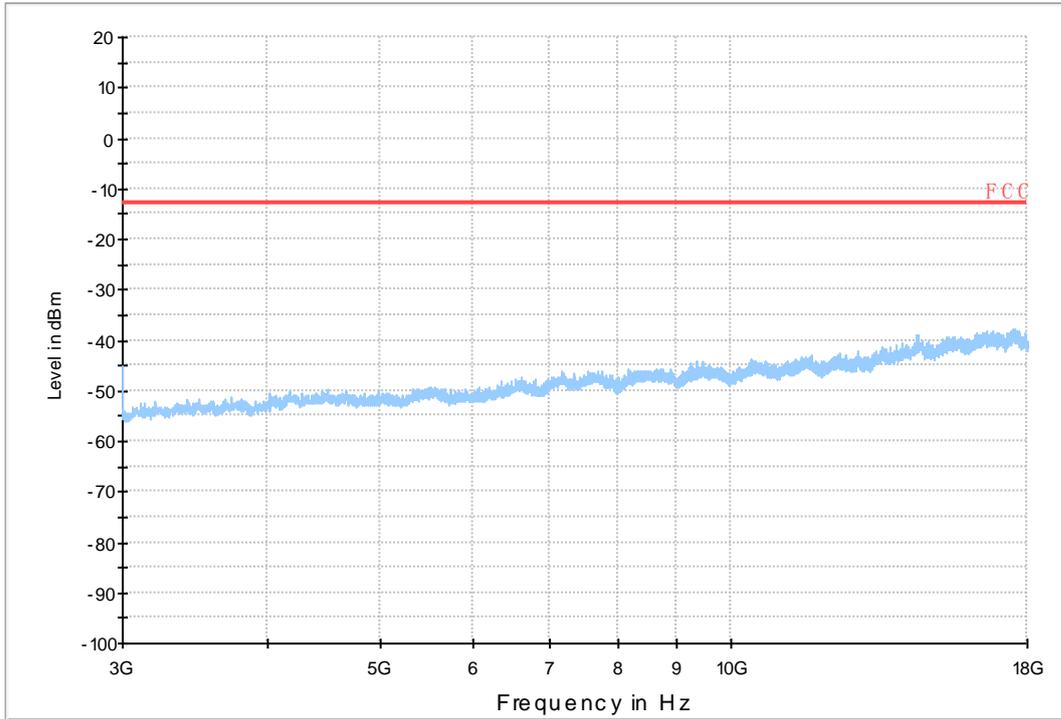
7.1.1.3 Test Bandwidth = 10



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
BAND12	LTE/TM1	1.4	LCH	TN	VL	-0.2	-0.00029	PASS
					VN	0.17	0.00024	PASS
					VH	-0.86	-0.00123	PASS
			MCH	TN	VL	-1.95	-0.00276	PASS
					VN	-0.5	-0.00071	PASS
					VH	-1.47	-0.00208	PASS
			HCH	TN	VL	3.62	0.00506	PASS
					VN	1.07	0.0015	PASS
					VH	-0.94	-0.00131	PASS
		3	LCH	TN	VL	7.54	0.01076	PASS
					VN	9.34	0.01333	PASS
					VH	7.71	0.01101	PASS
			MCH	TN	VL	-0.39	-0.00055	PASS
					VN	-0.99	-0.0014	PASS
					VH	-0.59	-0.00083	PASS
			HCH	TN	VL	0.27	0.00038	PASS
					VN	-1.56	-0.00218	PASS
					VH	-1.43	-0.002	PASS
		5	LCH	TN	VL	-0.49	-0.0007	PASS
					VN	-1.75	-0.00249	PASS
					VH	-0.94	-0.00134	PASS
			MCH	TN	VL	-0.06	-0.00008	PASS
					VN	-0.87	-0.00123	PASS
					VH	-0.57	-0.00081	PASS
			HCH	TN	VL	-1.36	-0.00191	PASS
					VN	-1.13	-0.00158	PASS
					VH	0.21	0.00029	PASS
		10	LCH	TN	VL	1.46	0.00207	PASS
					VN	0.14	0.0002	PASS
					VH	0.01	0.00001	PASS
MCH	TN		VL	-2.49	-0.00352	PASS		
			VN	-2.19	-0.0031	PASS		
			VH	-1.96	-0.00277	PASS		
HCH	TN	VL	-5.76	-0.0081	PASS			

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
	LTE/TM2	1.4	LCH	TN	VN	-5.02	-0.00706	PASS
					VH	-6.44	-0.00906	PASS
					VL	-0.76	-0.00109	PASS
			MCH	TN	VN	-1.69	-0.00242	PASS
					VH	0.04	0.00006	PASS
					VL	-0.26	-0.00037	PASS
		HCH	TN	VN	-1.12	-0.00158	PASS	
				VH	-0.47	-0.00066	PASS	
				VL	-1.03	-0.00144	PASS	
		3	LCH	TN	VN	7.98	0.01139	PASS
					VH	10.04	0.01433	PASS
					VH	7.4	0.01056	PASS
			MCH	TN	VL	-1.65	-0.00233	PASS
					VN	-0.46	-0.00065	PASS
					VH	-1.53	-0.00216	PASS
		HCH	TN	VL	-1	-0.0014	PASS	
				VN	-0.74	-0.00104	PASS	
				VH	0.6	0.00084	PASS	
		5	LCH	TN	VL	-1.43	-0.00204	PASS
					VN	-0.39	-0.00056	PASS
					VH	-0.9	-0.00128	PASS
			MCH	TN	VL	-1.34	-0.00189	PASS
					VN	-0.9	-0.00127	PASS
					VH	-1.16	-0.00164	PASS
		HCH	TN	VL	-1.12	-0.00157	PASS	
				VN	-0.96	-0.00135	PASS	
				VH	-1.23	-0.00172	PASS	
		10	LCH	TN	VL	1.76	0.0025	PASS
					VN	1.09	0.00155	PASS
					VH	0.92	0.00131	PASS
			MCH	TN	VL	-0.01	-0.00001	PASS
					VN	0.39	0.00055	PASS
					VH	-0.74	-0.00105	PASS
		HCH	TN	VL	-0.74	-0.00104	PASS	
				VN	-0.77	-0.00108	PASS	
				VH	-2.52	-0.00354	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	1.59	0.00227	PASS
					-20	1.36	0.00194	PASS
					-10	1.39	0.00199	PASS
					0	1.06	0.00151	PASS
					10	0.72	0.00103	PASS
					20	0.86	0.00123	PASS
					30	-0.06	-0.00009	PASS
					40	0.49	0.0007	PASS
					50	0.86	0.00123	PASS
			MCH	VN	-30	1.32	0.00187	PASS
					-20	0.59	0.00083	PASS
					-10	1.12	0.00158	PASS
					0	1.03	0.00146	PASS
					10	0.69	0.00098	PASS
					20	-0.24	-0.00034	PASS
					30	1.23	0.00174	PASS
					40	1.02	0.00144	PASS
					50	-0.29	-0.00041	PASS
			HCH	VN	-30	-0.39	-0.00055	PASS
					-20	0.54	0.00075	PASS
					-10	0.46	0.00064	PASS
					0	0.19	0.00027	PASS
					10	-0.11	-0.00015	PASS
					20	0.77	0.00108	PASS
		30			0.04	0.00006	PASS	
		40			-0.13	-0.00018	PASS	
		50			-0.13	-0.00018	PASS	
		3	LCH	VN	-30	-2.26	-0.00323	PASS
					-20	-2.62	-0.00374	PASS
					-10	0.41	0.00059	PASS
					0	-6.37	-0.00909	PASS
					10	3.5	0.005	PASS
					20	6.95	0.00992	PASS
					30	5.44	0.00777	PASS
					40	1.96	0.0028	PASS
					50	5.41	0.00772	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	-1.07	-0.00151	PASS
					-20	-8.96	-0.01266	PASS
					-10	3.49	0.00493	PASS
					0	4.49	0.00635	PASS
					10	-1.1	-0.00155	PASS
					20	3.78	0.00534	PASS
					30	-3.29	-0.00465	PASS
					40	-4.36	-0.00616	PASS
					50	4.52	0.00639	PASS
			HCH	VN	-30	2.68	0.00375	PASS
					-20	-1.46	-0.00204	PASS
					-10	0.72	0.00101	PASS
					0	3.06	0.00428	PASS
					10	-2.35	-0.00329	PASS
					20	4.02	0.00563	PASS
					30	-1.82	-0.00255	PASS
					40	4.18	0.00585	PASS
					50	2.22	0.00311	PASS
		5	LCH	VN	-30	0.19	0.00027	PASS
					-20	5.62	0.00801	PASS
					-10	1.34	0.00191	PASS
					0	-0.17	-0.00024	PASS
					10	7.01	0.00999	PASS
					20	0.63	0.0009	PASS
					30	-3.66	-0.00522	PASS
					40	6.04	0.00861	PASS
					50	3.43	0.00489	PASS
			MCH	VN	-30	2.1	0.00297	PASS
					-20	2.63	0.00372	PASS
					-10	-0.79	-0.00112	PASS
					0	1.56	0.0022	PASS
					10	-2.07	-0.00293	PASS
					20	-7.88	-0.01114	PASS
					30	0.24	0.00034	PASS
					40	1.47	0.00208	PASS
					50	-1.19	-0.00168	PASS
		HCH	VN	-30	-3.46	-0.00485	PASS	
				-20	-0.84	-0.00118	PASS	
				-10	-0.2	-0.00028	PASS	

Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict							
					0	-5.35	-0.0075	PASS							
					10	-0.01	-0.00001	PASS							
					20	-6.72	-0.00942	PASS							
					30	0.36	0.0005	PASS							
					40	-3.25	-0.00456	PASS							
					50	-0.34	-0.00048	PASS							
		LCH	VN				-30	13.82	0.01963	PASS					
							-20	20.04	0.02847	PASS					
							-10	8.8	0.0125	PASS					
							0	-2.79	-0.00396	PASS					
							10	-2.55	-0.00362	PASS					
							20	8.51	0.01209	PASS					
							30	8.07	0.01146	PASS					
							40	14.86	0.02111	PASS					
							50	10.46	0.01486	PASS					
							MCH	VN	10			-30	6.48	0.00916	PASS
												-20	9.83	0.01389	PASS
												-10	5.59	0.0079	PASS
		0	17.09	0.02416	PASS										
		10	17.15	0.02424	PASS										
		20	10.26	0.0145	PASS										
		30	13.69	0.01935	PASS										
		40	-2.88	-0.00407	PASS										
		HCH	VN	10			50	4.81	0.0068	PASS					
	-30						-11.73	-0.0165	PASS						
	-20						-5.78	-0.00813	PASS						
	-10						-1.95	-0.00274	PASS						
	0						-2.76	-0.00388	PASS						
	10						1.14	0.0016	PASS						
	20						-0.79	-0.00111	PASS						
	30						4.22	0.00594	PASS						
	40	-4.26	-0.00599	PASS											
	50	-3.55	-0.00499	PASS											
	LTE/TM2	1.4	LCH	VN		-30	1.12	0.0016	PASS						
						-20	-0.11	-0.00016	PASS						
						-10	0.11	0.00016	PASS						
0						-1.2	-0.00172	PASS							
10						-0.2	-0.00029	PASS							
20						-0.51	-0.00073	PASS							



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					30	-0.14	-0.0002	PASS
					40	-0.43	-0.00061	PASS
					50	0.14	0.0002	PASS
			MCH	VN	-30	0.4	0.00057	PASS
					-20	0.86	0.00122	PASS
					-10	0.51	0.00072	PASS
					0	0.94	0.00133	PASS
					10	0.09	0.00013	PASS
					20	0.5	0.00071	PASS
					30	1.07	0.00151	PASS
					40	1.19	0.00168	PASS
					50	1.77	0.0025	PASS
					HCH	VN	-30	0.3
			-20	0.77			0.00108	PASS
			-10	-0.27			-0.00038	PASS
		0	1.27	0.00178			PASS	
		10	1.17	0.00164			PASS	
		20	1.29	0.0018			PASS	
		30	0.54	0.00075			PASS	
		40	0.23	0.00032			PASS	
		3	LCH	VN	-30	0.69	0.00099	PASS
					-20	-1.87	-0.00267	PASS
					-10	5.45	0.00778	PASS
					0	-0.53	-0.00076	PASS
					10	4.72	0.00674	PASS
					20	0.54	0.00077	PASS
					30	5.05	0.00721	PASS
					40	-3.56	-0.00508	PASS
					50	1.54	0.0022	PASS
			MCH	VN	-30	2.23	0.00315	PASS
					-20	-0.64	-0.0009	PASS
					-10	-4.33	-0.00612	PASS
					0	-6.02	-0.00851	PASS
10	-1.33				-0.00188	PASS		
20	-2.88				-0.00407	PASS		
30	2.83				0.004	PASS		
40	-3.69				-0.00522	PASS		
50	-0.13				-0.00018	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	-7.11	-0.00995	PASS
					-20	7.32	0.01024	PASS
					-10	4.68	0.00655	PASS
					0	5.84	0.00817	PASS
					10	5.06	0.00708	PASS
					20	-2.03	-0.00284	PASS
					30	9.88	0.01383	PASS
					40	1.7	0.00238	PASS
					50	-0.69	-0.00097	PASS
		5	LCH	VN	-30	1.83	0.00261	PASS
					-20	4.82	0.00687	PASS
					-10	-5.31	-0.00757	PASS
					0	-0.93	-0.00133	PASS
					10	-1.17	-0.00167	PASS
					20	2.22	0.00316	PASS
					30	-0.36	-0.00051	PASS
					40	-5.99	-0.00854	PASS
					50	0.33	0.00047	PASS
			MCH	VN	-30	-6.45	-0.00912	PASS
					-20	-4.13	-0.00584	PASS
					-10	0.56	0.00079	PASS
					0	-3.68	-0.0052	PASS
					10	-3.71	-0.00524	PASS
					20	0.43	0.00061	PASS
					30	2.66	0.00376	PASS
					40	2.16	0.00305	PASS
					50	-3.42	-0.00483	PASS
		HCH	VN	-30	-2.86	-0.00401	PASS	
				-20	-0.11	-0.00015	PASS	
				-10	-4.55	-0.00638	PASS	
				0	-4.23	-0.00593	PASS	
				10	-0.96	-0.00135	PASS	
				20	3.52	0.00493	PASS	
				30	-4.09	-0.00573	PASS	
				40	-8.84	-0.01239	PASS	
				50	6.52	0.00914	PASS	
		10	LCH	VN	-30	-3.91	-0.00555	PASS
					-20	1.12	0.00159	PASS
					-10	0.6	0.00085	PASS



Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Test Volt.	Test Temp .	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
					0	8.9	0.01264	PASS
					10	-6.49	-0.00922	PASS
					20	2.57	0.00365	PASS
					30	8.98	0.01276	PASS
					40	2.17	0.00308	PASS
					50	3.09	0.00439	PASS
			MCH	VN	-30	0.47	0.00066	PASS
					-20	2.79	0.00394	PASS
					-10	4.26	0.00602	PASS
					0	-4.81	-0.0068	PASS
					10	-2.07	-0.00293	PASS
					20	-0.96	-0.00136	PASS
					30	-6.62	-0.00936	PASS
					40	-3.83	-0.00541	PASS
			HCH	VN	50	-5.78	-0.00817	PASS
					-30	-3.86	-0.00543	PASS
					-20	5.46	0.00768	PASS
					-10	-1.22	-0.00172	PASS
					0	0.36	0.00051	PASS
					10	1.39	0.00195	PASS
					20	7.7	0.01083	PASS
					30	4.12	0.00579	PASS
			40	3.86	0.00543	PASS		
			50	1.57	0.00221	PASS		

END